

Lake County Division of Transportation

Old McHenry Road – Bonnie Lane to Fairfield Road (2.4 miles)

Phase II Design Engineering Services

Section No. 19-00999-65-ES

Lake County

August 13, 2024

Table of Contents

- BLR 05530
- Exhibit A Scope of Engineering Services
- Workhour Summary Forms
- Cost Estimate of Consultant Services
- Direct Cost Summary
- Subconsultants' Scope and Cost Estimate of Consultant Services

Prepared by: TranSystems Corporation 1475 E. Woodfield Rd, Suite 600 Schaumburg, IL 60173



Local Public Agency Engineering Services Agreement

	Agreement For		A <u>C</u>			Agreement Type			
Using Federal Funds? ☐ Yes ☐ No	PE		Original						
LOCAL PUBLIC AGENCY									
Local Public Agency		County		Section	Section Number Jo			ob Number	
Lake County Division of Transportation			Lake		19-00999-65-ES N			\	
Project Number Contact Name		F	Phone Number [Email			
N/A Kevin Carrie	r, P.E.	(847) 377-7448		3 kcar	rier@	lakecount	tyil.gov	1	
	SI	ECTION F	PROVISIONS						
Local Street/Road Name		Key Rout	e	Length		Structure N	lumber		
Old McHenry Road		1249 (C	H 32)	2.25 m	iles	049-3084	1		
Location Termini								Add Location	
Bonnie Lane to Fairfield Road								Remove Location	
Project Description									
Proposed improvements along Old improvements, grade separation at project will also reconstruct 0.65 m miles of Fairfield Road (Route 019)	t the CN Railviles of Midloth	vay (WC nian Roa	CL), multi-use ad (Route 350	path an 3) from	d dra Marc	inage imp	rovem	ents. The	
Engineering Funding	☐ MFT/TE	BP S	State 🗌 Other						
Anticipated Construction Funding Federal	eral 🔀 MFT/TE	BP ⊠ S	State 🔀 Other	ICC and	d Rai	Iroad			
		AGREEN	MENT FOR						
☐ Phase I - Preliminary Engineering ☐	Phase II - Desi	gn Engine	eering						
		CONS	ULTANT						
Prime Consultant (Firm) Name	Contact Name	е	Phone Numb	per	Email				
TranSystems Corporation	Matt Smith	, P.E.	(847) 407-5300		00 mjsmith@transystems.			s.com	
Address			City S			State	Zip Code		
1475 East Woodfield Road, Suite 6	800		Schaumburg	J			IL	60173	

THIS AGREEMENT IS MADE between the above Local Public Agency (LPA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION. Project funding allotted to the LPA by the State of Illinois under the in coordination with 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

construction PROJECT

In Responsible Charge A full time LPA employee authorized to administer inherently governmental PROJECT activities

Contractor Company or Companies to which the construction contract was awarded

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	
Total Compensation = DL + DC + OH + FF Where: DL is the total Direct Labor,	
DC is the total Direct Cost,	
OH is the firm's overhead rate applied to their D)L and
FF is the Fixed Fee.	
Where FF = (0.33 + P) DI + % SubDI	whore

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 steps 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, ever the term of this ACREEMENT, the ENCINEER shall be compensated for all services performed and reimbursable expenses incurred prior to receipt of notice of suspension. In addition, upon the recumption of services the LPA shall compensate the ENCINEER, for expenses incurred as a result of the suspension and recumption of its services, and the ENCINEER'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
 - (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			
TranSystems Corporation	43-0839725	\$3,604,224.00			

Subconsultants	TIN/FEIN/SS Number	Agreement Amount
Christopher B. Burke Engineering, LTD	36-3468939	\$2,690,778.00
Teska Associates, Inc.	36-3051497	\$121,029.00
Wang Engineering Inc.	36-3191909	\$267,505.00
HBK Engineering, LLC	46-1255956	\$48,841.00
Huff & Huff, Inc.	36-3044842	\$122,971.00
Mathewson Right of Way Company	20-3870734	\$1,156,600.00
	Subconsultant Total	\$4,407,724.00
	Prime Consultant Total	\$3,604,224.00
	Total for all work	\$8,011,948.00

The Total Not-to-Exceed Contract Amount shall be \$8,011,948.00 as shown above and attached.

	AGREEMENT S	SIGNATURES
Executed by the LPA:		
		ublic Agency
Attest:	The County of Lake	
By (Signature & Date)		By (Signature & Date)
Local Public Agency	Local Public Agency Type	Title
Lake	County	
(OFAL)		
(SEAL)		
Executed by the ENGINEER	a.	
Executed by the ENGINEER	Prime Consultant (Firm) Name	
Attest:	TranSystems Corporation	
Allest.		
By (Signature & Date)	γ	By (Signature & Date)
1 1	8/13/24	Math 8/13/24
12 m	01131-1	M(W)/4 / M 8/13/27
Title		Title
ASSISTANT 1	VICE PRESIDENT	Senior Vice President
APPROVED:		
Regional Engineer, Departn	nent of Transportation (Signature & Date)	

BLR 05530 (Rev. 07/08/22)

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake County Division of Transport	TranSystems Corporation	Lake	19-00999-65-ES
	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 scope of services.



1475 East Woodfield Road Suite 600 Schaumburg, IL 60173 Tel 847-605-9600

www.transystems.com

Old McHenry Road – Bonnie Lane to Fairfield Road (2.4 miles) Phase II Engineering – Lake County Division of Transportation Section No. 19-00999-65-ES August 13, 2024

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

The scope of services consists of full Phase II design engineering services for the proposed improvements along Old McHenry Road from Bonnie Lane to Fairfield Road including a new grade separation of Old McHenry Road at the CN Railway (WCL). The project includes improvements along Midlothian Road from March Street to Commons Circle and Fairfield Road from Old McHenry Road to Kruger Road, for a total project length of 3.7 miles in the Villages of Hawthorn Woods and Lake Zurich, Lake County. The improvements will include a new railroad bridge and retaining walls for a new grade separation of Old McHenry Road with WCL. Other project items include full removal and replacement of existing pavement, shoulders, medians, and subgrade within the limits of reconstruction. A multi-use path will be constructed along all three main routes as part of the project. The Lake County Division of Transportation (LCDOT) is the lead agency for the Project.

It is understood that LCDOT is actively seeking state and federal funding for this important project that will address capacity, safety, and mobility deficiencies along Old McHenry Road based on past and future growth and will provide for non-motorized accommodations and connections within the project area.

The following is a summary of the items that are included in the proposed scope of services:

1. Data Collection and Review

- A. Obtain the following information from the appropriate agencies if not available from Phase I: existing roadway plans, right-of-way data, permit and development plans, pavement flooding history, drainage atlases, FIRM and FIS maps, National Wetland Inventory Maps, emergency response routes, public and private utility atlases, benchmark, and other survey datum information.
- B. Conduct four site visits and take pictures of project features. Prepare log of photographs for use by project team during engineering phases.
- C. Obtain digital aerial photography for use in design studies, exhibit preparation, and public involvement presentations. Aerial photography will be obtained using NearMap and will include one update during the project to reflect development updates.

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

2. Value Engineering Study Support

Another LCDOT consultant, Civiltech Engineering, will lead the Value Engineering Study and Report. The Value Engineering (VE) process provides an independent peer review of the Phase I Project Development Report (PDR) and all associated documentation and provides potential cost saving recommendations. It is conducted in a weeklong workshop-style format. TranSystems and CBBEL will provide independent subject matter experts (SME's). SME's will attend the final day of the workshop to participate in discussion and view VE study presentation. The project team will review the draft VE Report, address comments, and incorporate changes as feasible. LCDOT is also welcomed to provide any additional participants.

Section 1503(a)(3) of MAP-21 states that projects on the National Highway System (NHS) receiving Federal Assistance with an estimated total cost of \$50,000,000 or more require a Value Engineering (VE) study and report.

3. Supplemental Topographic Survey

TranSystems' subconsultant, CBBEL, will lead the supplemental topographic survey and drafting. All topographic survey from Phase I Engineering will be utilized and converted to OpenRoads Designer CE, 2022 Release 3 (10.12.02.004). The supplemental survey will include, but not limited to: areas not covered by the Phase I topographic survey, detention areas (based on final grading), restrictor structures/Outlet Control of existing storm water ponds on commercial lots, interface areas of the 30% parking lot design for St. Matthews Church performed in Task 5, identified stage construction areas, future development, maintenance of traffic stages that extend outside the original survey limits.

This task will include the will include the following tasks:

- A. Horizontal Control will be set utilizing state plane coordinates and recoverable primary control will be set utilizing our GPS equipment, tied to the control for the one-foot contour Lake County LiDAR mapping.
- B. Vertical control will be set with a level circuit within the above identified supplemental survey limits establishing benchmarks and assigning elevations to the horizontal control points. The elevations will be based on NAVD 88 and correlated with available FIRM benchmarks (if any) and tied to the control for the one-foot contour Lake County LiDAR mapping.
- C. Topographic Survey will include field locate pavements, driveways, curb and gutters, pavement markings, signs, manholes, utility vaults, drainage structures, utilities, driveway culverts, cross road culverts, trees (greater than 4-inch diameter), tree/brush line, wetland flagging, etc. within the project limits. Establish all rim and invert

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

elevations, utility sizes & type, depth subterranean structure, etc., at all points of access to below-grade utilities. Utility Survey: All existing storm and sanitary sewers will be surveyed to determine rim and invert elevations and pipe sizes. Above ground facilities for any additional underground utilities including water main, gas, electric, cable, etc. will also be located. Supplemental Level B SUE evaluation will be completed by HBK Engineering in parallel to the topographic survey as noted in Task 4 below.

- D. Cross sections will be surveyed at 50' intervals within the survey limits, at driveways, and at all other grade controlling features. The cross sections will extend to the existing right-of-line along Quentin Road and Old McHenry Road. The LiDAR data collected for the roadway pavement will be utilized to assist with development of the cross sections.
- E. Right-of-way within the identified supplemental survey limits, based on monumentation found in the field, and based on available plats of highways, subdivision plats and any other available information.
- F. Vegetative area survey will include boundary surveys for vegetative areas along the project limits. The Vegetative Area survey will extend 30 feet outside of the existing right-of-way where practical. This information will be used to quantify vegetative area impacts and establish the areas for individual tree surveys (as required) which will be completed as part of Task 5.

4. Utility Coordination

The proposed improvements will require coordination with public and private utilities located within the project corridor. Utility coordination will include the following tasks:

- A. Coordinate with JULIE to confirm listing of potential utility facilities within the project limits. Follow up coordination with each utility company to request atlases. Develop coordination log for correspondence. It is anticipated that coordination will be required for 14 utility owners as follows: Nicor, ComEd distribution, ComEd transmission, AT&T, Aqua Illinois, Lake County Public Works, Comcast, G4S, MCI/Verizon, Village of Hawthorn Woods, Village of Lake Zurich, CLCJAWA, IDOT (traffic signals) and CN Railway.
- B. Add new utility information to topographic survey information to confirm location from Phase I files.
- C. Identify potential utility conflicts and coordinate with utility companies for necessary adjustments and relocations for 14 utility owners.
- D. Review utility relocation permit submittals.
- E. Utility easement research and coordination.

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

- F. Incorporate new utility corridor(s) into the proposed improvements for utility relocations along Old McHenry Road near the underpass including but not limited to the following utilities: Nicor, Aqua Illinois, ComEd, AT&T and Lake County Public Works.
- G. Coordination with the Village of Lake Zurich to incorporate their proposed JAWA main into the proposed improvements along Midlothian Road.
- H. Coordination with Lake County Public Works for inclusion of a new sanitary sewer along the north side of Old McHenry Road.
- I. Coordination with the Village of Hawthorn Woods for various items related to public utilities.
- J. TranSystems' sub-consultant, HBK Engineering, will provide limited Subsurface Utility Engineering (SUE) locating services to supplement the utility mapping data they provided in Phase I engineering. Supplemental SUE information will be provided for select utilities in strategic locations where a high degree of accuracy is required to evaluate for potential utility impacts with the proposed improvements. A total of six (6) Level A test holes of typical size and supplemental Level B designation of various utilities are included.

Potholing will be conducted near the St. Matthew Church underground water reservoir to evaluate for potential impact by the proposed retaining wall near the reservoir.

Refer to the scope document prepared by HBK in the supporting documentation for a detailed scope of work.

5. <u>Design Studies and Reports</u>

- A. <u>ROW Verification:</u> Verify proposed right-of-way needs as part of the development of the preliminary plans and prior to finalizing the plat of highways. Necessary adjustments to fee simple takes and temporary easements will be made as refinements in the design are made.
- B. Concept Parking Lot Site Plans: Develop 30% site plan design for the St. Matthew Church and Hawthorn Garden Center parking lot reconfigurations based on the sketch layout from Phase I. Site grading, parking lot design, driveway entrance details, retaining wall layouts and wall types, staging plan, drainage layout, storm water detention, lighting photometrics and layout, utilities relocations, signing and landscaping layout will be included. The 30% plans will be submitted to LCDOT, Village of Hawthorn Woods, St. Matthew Lutheran Church and Hawthorn Garden Center for review.

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

- C. <u>Wall Type Study:</u> Evaluate the need for and type of retaining wall along Midlothian Road (east side to minimize property impacts adjacent to multi-use path) and for the retaining wall at the southeast corner of the St. Matthew Church parking lot.
- D. <u>Drainage Studies:</u> CBBEL will complete the drainage design studies outlined below:
 - i. The drainage design work will include:
 - Design of inlet spacing, storm sewers, inline detention pipes, and ditch conveyance systems. All systems will be designed per IDOT and Lake County SMC WDO standards.
 - b. Design of open detention basins.
 - c. Assist structural design team with drainage design for retaining walls, underpass and drop structures.
 - d. Design final detention systems. Including inline detention and open detention facilities.
 - ii. All drainage items to be included in the plan preparation, such as drainage plan and profile sheets showing proposed storm sewers, ditches, and structures, existing drainage removals, temporary drainage plan, and drainage details, are included within the drainage plan preparation task.
 - iii. Drainage special provisions will be prepared as part of this task.
- E. <u>Concept Staging:</u> Evaluate construction staging and sub-staging to maintain traffic and minimize disruption to the traveling public while maintaining a satisfactory work zone for the Contractor on Old McHenry Road, Midlothian Road and Fairfield Road. It is anticipated that a temporary roadway run-around will be constructed to facilitate construction of the bridge over Old McHenry Road. Confirm geometry of run-around design from Phase I engineering and develop exhibits to demonstrate sub-staging for LCDOT review. Once the traffic staging concept has been approved by LCDOT, it will serve as the basis for the development of the detailed Maintenance of Traffic plans.
- F. <u>TMP</u>: Preparation of Work Zone Traffic Management Plan for work along Midlothian Road to be submitted to IDOT for review and approval.
- G. <u>Design analyses and calculations</u> for LCDOT and IDOT approval:
 - i. Pavement design calculations using IDOT BDE 5401 template for mechanistic pavement design.
 - ii. Prepare roadway superelevation calculations.

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) – Phase II Engineering

iii. Update Design Deviations and Design Exceptions from Phase I as required.

6. Land Acquisition Services

TranSystems' subconsultants, Mathewson Right of Way Company (MROWCO), will lead the land acquisition services for the project with CBBEL performing the plat and legal preparation. It is estimated that approximately 51 properties will be affected.

- A. The MROWCO services will include appraisal, specialty reports, appraisal review, negotiation, relocation, closing, IDOT certification, project management and related direct expenses. It is anticipated that some changes to the plans will come out of the land negotiation process.
- B. The CBBEL plat and legal services will include:
 - i. Reconnaissance: CBBEL will field recon the project area in an attempt to discover sufficient right-of-way, property line and Section \ Quarter line evidence within the project limits. Research will be performed at the Lake County Recorder's office to obtain record information to aid in the recovery of the above mentioned right-of-way, property lines and Section \ Quarter lines.
 - ii. Parcel Surveys: CBBEL will field locate all property and section\ quarter line evidence discovered during Task B-i. CBBEL will also locate the existing buildings within the parcels affected by the proposed right-of-way takes and easements as required for Task B-iv.
 - iii. Parcel Calculations: Utilizing the information and physical evidence found in Task B-i and B-ii, CBBEL will compute the location of the existing right-of-way, property lines and Section \ Quarter lines along with the proposed takes and easement lines for this project.
 - iv. Drafting of the "Plat of Highway": CBBEL will compile all the information gathered in Task B-i thru B-iii on the "Plat of Highway" in a format suitable for submittal to and approval by IDOT & LCDOT.
 - v. Prepare Written Legal Description: CBBEL will prepare written legal descriptions of all permanent right-of-way takes and temporary easements suitable for submittal to and approval by IDOT & LCDOT.
 - vi. Final Submittal and Revisions: CBBEL will submit hard and electronic copies of the Plat of Highway, Legal Descriptions and Title Reports for review and approval by IDOT & LCDOT and will make the necessary revisions to the Plat of Highway and Legal Descriptions after the review comments are received.

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

- vii. Preliminary Staking of Proposed ROW & Easements: CBBEL will field stake the proposed ROW & easements during the appraisal and negotiations process with land owners on a as needed basis.
- C. CBBEL will prepare two plats of easement for the St. Matthew Church and Hawthorn Garden Center cross access agreement, and includes:
 - i. Initial coordination with Client.
 - ii. Order and obtain current title commitment reports for the parcels.
 - iii. Research with the Lake County Clerk's Office \ Recording Division.
 - iv. Field recon and survey to locate existing monumentation and boundary evidence.
 - v. Office calculations and plotting of field and record data.
 - vi. CAD drafting of the Plat of Easements for the proposed easement areas.
 - vii. Write a legal description for the proposed easement areas.
 - viii. Final review and submittal by an Illinois Professional Land Surveyor.
- D. A separate plat and legal and land acquisition services will be provided for six (6) parcels for intersection improvements at Quentin Road at Highland Drive that will be implemented as a standalone improvement. Refer to Task 11 for more detailed information for pertaining the scope of work.
- E. TranSystems and CBBEL will provide support during the land acquisition process including revisions to the construction documents and meetings with property owners as needed. Refer to the scope document prepared by MROWCO in the supporting documentation for a detailed scope of work for land acquisition.

7. Geotechnical Engineering

TranSystems' subconsultant, Wang Engineering, will lead the geotechnical engineering and prepare a Structural Geotechnical Report (SGR) for structures not included in Phase I Engineering and a Roadway Geotechnical Report (RGR). Soil borings will be included for proposed traffic signal mast arm foundation locations and infiltration borings for each of the two planned detention basins to evaluate BMPs. The scope of work includes investigations, discussions, and recommendations to be incorporated into the reports. Wang will prepare soil boring log plan sheets and soil profile sheets for inclusion in the contract plans. Project specific geotechnical special provisions will also be prepared, if

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

necessary. Wang will evaluate the soil borings for poor soil conditions and provide recommendations for anticipated ground improvements.

Refer to the scope document prepared by Wang Engineering in the supporting documentation for a detailed scope of work for the geotechnical engineering task.

8. Special Waste

TranSystems' subconsultant, Huff & Huff Inc. a Subsidiary of GZA, Inc., will prepare a Preliminary Site Investigation (PSI), LPC-663, and pre-demolition structure surveys. The pre-demolition surveys are intended to identify the presence of and sampling of various materials, including potential asbestos-containing materials (ACM), potential lead-based paint (LBP), and identification of potential universal wastes, including mercury containing light fixtures and switches. This task includes the following:

- A. Preliminary Site Investigation (PSI) and LPC-663 Form CCDD Documentation
 - i. Soil Boring and Soil Sampling
 - ii. Analytics
 - iii. PSI Report Preparation
 - iv. CCDD (LPC-Form) Documentation and CCDD facility coordination
- B. Pre-Demolition Survey and Reporting (4 Properties / 5 Structures)

The primary objective of the environmental sampling will be to identify, confirm through analytical testing, and quantify potential environmental hazards that require abatement and/or collection, removal, and proper disposal in advance of proposed demolition activity for each of the identified structures. Subsequently, H&H will assist Client in preparing the Special provisions language related to the environmental issues for inclusion in the bidding documents.

Pre-demolition and/or renovation surveys are required by the United States Environmental Protection Agency (USEPA national emission Standards for Hazardous Air Pollutants (NESHAP) provided in 40 CFR 61 and Illinois Administrative Code (IAC) Title 77, Chapter I, Subchapter p, Part 855. The United Stated Department of Labor, Occupational Safety and Health Administration (OSHA) also requires that asbestos containing materials (ACM) be identified prior to initiating demolition activities.

- C. QA/QC
- D. Project Administration

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

Refer to the scope document prepared by Huff & Huff, Inc. in the supporting documentation for a detailed scope of work for the special waste task.

9. Environmental Studies & Permits

TranSystems' subconsultant, CBBEL, will prepare, submit, and coordinate obtaining permits and other approvals required from the following agencies: US Army Corps of Engineers (USACE), State Historic Preservation Office (SHPO), IDOT, Illinois Environmental Protection Agency (IEPA), and the Lake County Stormwater Management Commission (LCSMC).

The tasks listed below consist of the environmental and permitting scope of work. Utility permit applications will be prepared under Task 4. Before and during the permit review process, meetings will be held with the regulatory/review agencies and the client, as necessary. Responses to comments will be prepared as they are received during the review process. We anticipate two rounds of review and responses for each permit application. Coordination meetings and public outreach related to the permits are included under Task 15. This task includes the following:

- A. Wetland and Waters Field Delineation Update
- B. Boundary Confirmation and Jurisdictional Determination
- C. Threatened & Endangered Species Coordination
- D. Supplemental Tree Survey, Impact Evaluation, and Tree Mitigation Plan
- E. Lake County Watershed Development Ordinance Permit Application
- F. USACE Section 404 Clean Water Act Permit Application
- G. Soil Erosion & Sediment Control Plan Review/Coordination with LSCMC
- H. Best Management Practice Design
- I. Interagency Wetland Policy Act Coordination
- J. Section 401 CWA Individual Water Quality Certification
- K. Water Quality Pollutant Loading Analysis
- L. Prepare the Storm Water Pollution Prevention Plan and Notice of Intent
- M. Historic Preservation Coordination
- N. Preliminary Environmental Site Assessment (PESA) Update/Validation

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

Refer to the scope document prepared by CBBEL in the supporting documentation for a detailed scope of work for the environmental studies and permitting task.

10. Landscape Design and Aesthetics

TranSystems' sub-consultant, Teska Associates (Teska), will lead the landscape architecture and aesthetic design for the project. This includes the aesthetics design and plan preparation for a custom form liner to be implemented on the retaining wall façades and bridge abutments along the roadway underpass. Teska will provide design plans for a custom decorative railing to be installed on top of the retaining walls and WCL bridge over Old McHenry Road. The design for the custom form liner and decorative railing will be coordinated with the Village of Hawthorn Woods. It is assumed that the additional cost for the custom aesthetic items near the bridge underpass will be borne by the Village.

Teska will develop landscape architecture design documentation for the proposed site improvements within the St. Matthew Church property.

Refer to the scope document prepared by Teska in the supporting documentation for a detailed scope of work for the landscaping and aesthetics task.

11. <u>Traffic Signal Alternative Evaluation and Contract Documents (Quentin Rd at Highland Dr)</u>

Based on the Phase I study, the unsignalized intersection of Quentin Road at Highland Drive meets the 8-hour, 4-hour and peak hour signal warrants in the base year (2020) existing condition. Due to the anticipated implementation of the Old McHenry Crossings project, the Quentin Road corridor is to be constructed sometime after the initial phases of Old McHenry Road. Therefore, LCDOT intends to install a new traffic signal at this location in advance of the Quentin Road corridor widening and reconstruction contract. This task consists of the following sub-tasks:

- A. Evaluation of alternatives for traffic signal installation at this location which will include comparison of a temporary or permanent signal installation, both with consideration for land acquisition, pedestrian accommodations, utility impacts, traffic operations, future MOT staging considerations, life cycle analysis and cost estimates. The alternatives evaluation will be summarized in a technical memorandum which will include a discussion of the considerations above, layout diagrams, and a recommended alternative.
- B. Preparation of contract plans, specifications and estimates (PS&E) for three plan submittals preliminary, pre-final and final to LCDOT. It is assumed the contract will be locally let by LCDOT. This scope covers the contract preparation for either the temporary or permanent traffic signal, whichever alternative is selected by LCDOT.

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

	Traffic Signal Plans (Quentin Rd at Highland Dr)
1	Cover Sheet
2	Highway Standards, General Notes and Commitments
3	Summary of Quantities
4	Alignment, Ties, and Benchmarks
5	Maintenance of Traffic Plans
6	Existing Conditions Plans
7	Roadway Plan and Profile
8	Erosion Control Plans
9	Plat of Highways (for information only) (By CBBEL)
10	ADA Details
11	Pavement Marking and Signing Plans
12	Landscaping Plans
13	Traffic Signal Plans

- C. Land acquisition and plat and legal services will be provided by subconsultants Mathewson Right of Way Company (MROWCO) and CBBEL respectively for six (6) parcels. Refer to Task 6D for the Land Acquisitions scope of services.
- D. LCDOT coordination and plan review meetings (2 meetings) and ongoing coordination to assist in selecting preferred traffic signal alternative.

12. Building Demolition Advanced Contract Documents

This task will consist of the preparation of building demolition contract documents for the removal of buildings and other structures, driveways, utility service lines, septic tanks, trees, and other vegetation on four residential properties along Old McHenry Road. It is assumed that this contract package will be locally let. No IDOT/FHWA coordination is anticipated.

A. It will include the preparation of contract plans, specifications, and estimates (PS&E) for three plan submittals – preliminary, pre-final and final. The results of the Pre-Demolition Structure Surveys performed by Huff & Huff (Task 8B) will be incorporated into the contract plans and specifications for potential environmental hazards that require abatement and/or collection, removal, and proper disposal in advance of proposed demolition activity for each of the identified structures.

	Demolition Plans
1	Cover Sheet
2	Highway Standards, General Notes and Commitments
3	Summary of Quantities
4	Schedule of Quantities
5	Key Plan

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

6	Existing Conditions Plans
7	Building Demolition Plans
8	Erosion and Sediment Control Plans
9	Plat of Highways (for information only) (By CBBEL)
10	Details

- B. Prepare special provisions, supplemental specifications, and check sheets of recurring special provisions.
- C. Prepare summary of quantities and estimate of construction cost based on current unit prices.
- D. Acquire demolition permits required by the Village of Hawthorn Woods and Lake County Planning, Building and Development.
- E. Locate utilities on each residential property and coordinate with each utility company to disconnect services (by TranSystems).

13. Preliminary Plans and Documents (60%)

A. Based on the approved Phase I Preferred Improvement Plans, the TranSystems team will prepare preliminary plans to approximately 60% completion. It is anticipated that the following sheets would be included in the final contract plans as well as draft special provisions and construction cost estimate. The preliminary PS&E will be submitted to LCDOT, IDOT BLRS, and WCL for review. Plans will be prepared in English units in accordance with the IDOT CADD Manual following IDOT's drafting guidelines using MicroStation DGN format using OpenRoads Designer CE, 2022 Release 3 (10.12.02.004).

	Plans - Volume 1
1	Cover Sheet
2	Index of Sheets and List of Standards
3	General Notes
4	Summary of Quantities
5	Typical Sections (Existing and Proposed)
6	Schedules of Quantities (submitted at Pre-Final)
7	Alignment, Ties, and Benchmarks (1"=200') (By CBBEL)
8	Removal Plans (1"=20')
9	Roadway Plan and Profile Sheets (1"=20' H, 1"=5' V)
10	Suggested Stages of Construction and Traffic Control (1"=50')
11	Erosion and Sediment Control Plans (1"=50')

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) – Phase II Engineering

	Drainage and Utility Plans (<i>By CBBEL</i>)
	Temporary Drainage Plans (1"-20"), Drainage Removal Plans (1"=20"),
12	Drainage Plan and Profiles (1"=20'), Drainage Schedules, Drainage Details,
	Detention Pond Grading Plans (1"=50"), LCPW Sanitary Sewer Plan and
	Profiles (1"=50')
13	Plat of Highways (1"=50') (By CBBEL)
14	Intersection Details (1"=20')
15	Curb Ramp Details (1"=5')
16	Pavement Marking and Signing Plans (1"=50')
17	Landscaping Plans and Details (1"=50')
18	St. Matthew Church and Hawthorn Gardens Site Plans (1"=20') (By CBBEL)
	Temporary Signal and Cable Plans (1"=20')
19	Old McHenry Road at Quentin Road, Combined Driveway Entrance,
	Midlothian Road and Fairfield Road, Midlothian Road at Landover Pkwy
	Traffic Signal Plans (1"=20')
20	Old McHenry Road at Quentin Road, Combined Driveway Entrance,
	Midlothian Road and Fairfield Road, Midlothian Road at Landover Pkwy
21	Temporary Signal Interconnect Plans (1"=50') and Interconnect Schematics
22	Traffic Signal Interconnect Plans (1"=50") and Interconnect Schematics
23	WCL Bridge over Old McHenry Road (S.N. 049-3084)
24	Retaining Wall Plans
25	Aesthetic Features (By Teska) and other Construction Details (project specific)
	Plans - Volume 2
26	Cover Sheet
27	Index of Sheets and List of Standards
28	LCDOT Details
29	IDOT District 1 Details
30	Cross Sections at 50' spacing, side streets, and driveways (1"=10' H, 1"=5' V)
31	Track General Plans
32	Track Staging Plans and Typical Sections
33	Track Demolition Plans (1"=50') – Temporary and Final
34	Track Erosion Control and Grading Plans (1"=50') – Temporary and Final
35	Track Plan and Profile (1"=50 H, 1"=5" V) – Temporary and Final
36	Track Temporary Retaining Walls
27	Track Temporary Grade Crossing Details and other Construction Details (project
37	specific)
38	CN Standard Details
39	Track Cross Sections (1"=10' H, 1"=10' V) – Temporary and Final

B. Prepare special provisions, supplemental specifications, and check sheets of recurring special provisions and guide bridge special provisions.

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

- C. Prepare summary of quantities and estimate of construction cost based on current unit prices. Cost estimates will include third party costs such as railroad force account work.
- D. Conduct a constructability review.
- E. Submit preliminary plan, specifications (including SWPPP) and estimates for review by LCDOT, IDOT and WCL.

14. Pre-Final Plans and Documents (95%)

Prepare pre-final plans to approximately 95% completion to be submitted to LCDOT, IDOT BLRS, and WCL. The submittal will include plans, special provisions, check sheets, and LCDOT or IDOT prepared specifications, cost estimate, estimate of time, and other documents as required by IDOT BLRS.

- A. Incorporate and/or address all comments made during the preliminary plan review. Prepare disposition of comments.
- B. Conduct a plan-in-hand field review and constructability review.
- C. Determine the cost participation arrangements (e.g. federal, State, and local shares) to be shown on the Summary of Quantities sheets.
- D. Prepare special provisions, supplemental specifications, and check sheets of recurring special provisions and guide bridge special provisions.
- E. Prepare summary of quantities and estimate of construction cost based on current unit prices. Cost estimates will include third party costs such as railroad force account work.
- F. Submit pre-final plan, specifications (including SWPPP) and estimates for review by LCDOT, IDOT and WCL.
- G. Send pre-final plans to utility companies along with transmittal on LCDOT letterhead.

15. Final Plans and Documents (100%)

Prepare final plans to approximately 100% completion to be submitted to LCDOT, IDOT BLRS, and WCL. The submittal will include plans, special provisions, check sheets, and LCDOT or IDOT prepared specifications, cost estimate, estimate of time, and other documents as required by IDOT BLRS.

A. Incorporate and/or address all comments made during the pre-final plan review. Prepare disposition of comments.

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

- B. Prepare final special provisions, supplemental specifications, and check sheets of recurring special provisions and guide bridge special provisions.
- C. Prepare final summary of quantities and estimate of construction cost based on current unit prices. Cost estimates will include third party costs such as railroad force account work.
- D. Verify all quality assurance documentation is in place for the final submission.
- E. Submit final plan, specifications (including SWPPP) and estimates for review by LCDOT, IDOT and WCL.
- F. Send final plans to utility companies along with transmittal on LCDOT letterhead.

16. <u>Bid Set</u>

Final for bid PS&E documents submitted to IDOT BLRS for bidding. The bid sets will include plans, special provisions, check sheets, any IDOT or LCDOT prepared specifications, cost estimate and estimate of time.

- A. Review final PS&E comments from LCDOT and IDOT and prepare dispositions to comments. Any conflicting comments between reviewers will be discussed and a final decision will be determined. The plans will be modified based on the outcome and the dispositions will be completed and transmitted to agencies with the final submittal.
- B. Prepare final for bid PS&E.
- C. Adjust the estimate of construction cost based on comments and current contract unit prices. Cost estimates will include third party costs such as railroad force account work.
- D. Prepare final technical special provisions (including SWPPP), supplemental specifications, and check sheets of recurring special provisions. Include contractor requirements for working on WCL right-of-way, as specified in railroad agreements.
- E. Prepare final grading surface model to provide as information only to the Contractor. Assume one model for the temporary condition for the run-around roadway and one for the final condition.

17. Agency Coordination and Meetings

This task includes pre-meeting preparation, attendance, and preparation of meeting minutes. Minutes (draft and final) along with meeting materials will be distributed to

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

participants via email. Coordination with agencies includes email correspondence, phone conversations, providing project updates, data gathering and information sharing.

- A. LCDOT Kick-off, status, and review meetings (48 meetings), ongoing coordination to facilitate project and obtain plan approval.
- B. IDOT Kick-off, status, and review meetings (12 meetings), ongoing coordination to obtain plan approval.
- C. WCL Kick-off, status, and review meetings (12 meetings), ongoing coordination to obtain plan acceptance, and assist LCDOT in development of railroad agreements.
- D. ICC meetings and hearings (4 meetings). Project manager or engineer will attend final evidentiary hearing to provide expert witness testimony.
- E. FHWA presentations (2 meetings).
- F. Local Municipality meetings (12 meetings) and ongoing coordination.
- G. Project Team Bi-Weekly Meetings (104 meetings).

18. Public Outreach and Stakeholder Coordination

- A. Maintaining the Commitment File as required in BLRS Manual Section 22-2.09 including list of commitments made in Phase I and new commitments made through coordination with stakeholders and public agencies. Commitments may include funding arrangements which may include construction costs, signal maintenance, lighting agreements, etc. The file may also include notification requirements prior to construction, commitments to property owners, environmental commitments, drainage agreements, special construction requests or any other special agreements made between the County and property owners during right-of-way negotiations.
- B. Maintain Project Website and provide project status updates, schedule updates, and provide any new/updated exhibits as needed.
- C. Property owner meetings (30 Meetings) and coordination. This also includes design requests and design evaluations during the land acquisition process.
- D. One public information meeting will be held for the project near the end of Phase II leading into Phase III to present the final design, drainage design, tree impacts, maintenance of traffic plan, and anticipated schedule. Specific work tasks for both the Public Meeting include the following:
 - i. Compile Mailing List (including Stakeholders and all adjacent property owners).

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

- ii. Preparation of Public Information Meeting Brochures/Handouts.
- iii. Preparation of Public Information Meeting Display Exhibits (Aerial Displays with final design, maintenance of traffic plan, bridge staging visualizations, and other displays as appropriate).
- iv. Attendance at two Public Information Meeting "Dry Run".
- v. Secure location for Public Information Meeting site.
- vi. Preparation of Public Information Meeting Display Ads content for release by LCDOT.
- vii. Attendance at Public Information Meeting (4 TSC Staff & 6 CBBEL Staff).
- viii. Preparation of record summaries of the Public Information Meeting which will include at a minimum copies of all notices, meeting materials, attendance lists, comments, and responses.
- ix. Prepare a project FAQ to address most comments and individual response letters as needed.

19. Financial Plan and Funding Assistance

A. A FHWA Financial Plan is required pursuant to 23 U.S.C 106(i) "Project approval and oversight," based on the classification of the project being an "Other than Major Project," which has a total estimated cost of between \$100 million and \$500 million. This task includes preparation of an Initial Financial Plan (IFP) plus six annual plan updates (2025, 2026, 2027, 2028, 2029, 2030). It is anticipated that any additional Financial Plan Updates needed will be part of a future Contract for the remainder of the life of the Old McHenry Crossings project, including all sections from the approved Phase I Report.

The Financial Plan will follow the FHWA Financial Plans Guidance (December 18, 2014) and BDE Manual Chapter 20-4. FHWA will not approve the Initial Financial Plan, but it will be subject to FHWA review to ensure compliance with Title 23 requirements for content and timeliness.

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

The scope of the Financial Plan will include:

- 1. Project Description
- 2. Schedule
- 3. Project Cost
- 4. Project Funds
- 5. Financing Issues
- 6. Cash Flow
- 7. Risk and Response Strategies
- 8. Annual Update Cycle

As part of the FHWA guidance on preparing the IFP, a Cost Estimate Review (CER) workshop with the project team, LCDOT, IDOT and FHWA is required to complete a risk-based and probability-based review of the project cost and schedule to be included in the IFP. The CER workshop may be held in person or virtually, which will be determined through IDOT and FHWA coordination. The CER workshop is anticipated to occur via multiple meetings that include 1) project introduction, 2) discussion of project risks, costs/probability, and schedule, and 3) a final CER presentation and discussion for concurrence.

Per the FHWA guidance, yearly updates are required to be made to the plan for the entire construction life of the project. Current construction scheduling estimates construction to be completed in 2034. However, this contract included updates for 4 years from 2024 to 2028. The updates will need to be coordinated with IDOT BLRS D1 with regards to state and federal funding availability. The Financial Plan updates involve the following steps:

- 1. Update contract cost information for each of the 3 anticipated contracts. This includes cost information for any design engineering updates project letting bid costs and construction change order costs. Bid cost analysis will be completed to compare bridge, retaining wall, roadway, utility, drainage, and other cost breakdown information.
- 2. Update contract schedule information for each of the 3 upcoming contracts. This includes current letting dates, projected future letting dates and adjusting any contracts that are on-going or being re-packaged.
- 3. Coordination with the Bureau of Construction to obtain all Phase III Engineering costs and construction cost updates for all contracts under construction.
- 4. Coordination with LCDOT staff for updating the letting schedule and confirming the plan remains consistent with the County's Multi-Year Program and update accordingly.
- 5. Coordination with the Bureau of Programming for funding updates as project costs are reevaluated as bid costs are obtained and design development continues. The Financial Plan update will need to be coordinated with any funding revisions for Design Engineering, Construction Engineering and Construction.
- 6. Analysis of market conditions and analyze their effect on the bid costs.

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

- 7. Update Financial Plan Document including report and corresponding tables and figures.
- 8. Address comments from the District and FHWA, update and resubmit.
- B. Assist application process for funding through the STP Shared Fund Program
- C. Strategize and write federal grant applications. There are several approaches that can be used for the pursuit of funding for engineering and construction. A baseline competitive grant application can be prepared to compete for these funding opportunities. Once a baseline is created, TranSystems can adjust the application and prepare a benefit cost analysis to meet the specific grant program requirements and selection criteria. As it stands, the Project would be eligible for the following discretionary grant opportunities: BUILD, INFRA and CRISI.
- D. Conduct two meetings with LCDOT staff, elected officials and other project advocates to strategize ways to promote the project to be successful with competitive grant funding programs.

20. Project Management and Administration

- A. Prepare and submit monthly progress reports and invoices.
- B. Project management including contract administration, schedule monitoring, budget control, and internal project team meetings. Prepare and monitor the project schedule using Microsoft Project or other scheduling software, as well as perform scope of work reviews, resource planning, internal team coordination, contract administration, and invoicing.

21. QA/QC and Constructability Reviews

This task includes establishment and adherence to an approved Quality Management Plan (QMP).

QA/QC reviews will be performed in accordance with TranSystems' Quality Process prior to all major submittals.

Constructability Reviews

Perform an independent review of the plans by the construction resident engineering staff to identify potential areas that could cause a delay during construction or require extra contract work. This work is not intended to be a full QA/QC of all project documents. The scope of work for plan constructability will include:

A. Review of the plans for missing pay items

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

- B. Perform a rough check of major plan quantities to ensure magnitude of the quantity is correct
- C. Review construction staging for practicality
 - i. Utility staging
 - ii. Sufficient temporary pavement
 - iii. Identify potential staging variations to allow work to proceed pending resolution of known ROW or utility conflicts
 - iv. Check staging grade differentials at driveways and cross streets
- D. Constructability of retaining wall work and review of easements
- E. Review needs for temporary sheeting or similar
- F. Review traffic control signing
- G. Review estimated probable cost for major contract items

22. Bid Phase Support

This task includes providing LCDOT and IDOT with support during the bid process. The TranSystems team will address questions from bidders and, if necessary, will compile up to three addenda to be issued to bidders. A bid review will be performed to validate the bid prices.

Assumptions

- A. Cross sections will only be prepared for the improvements in their final configuration and will not be broken out by stage. Earthwork quantities will be reflective of the project as a whole and will not be broken out by stage. Any 3D model that is generated for the use of design or cross section creation is not intended to be a deliverable. TranSystems will produce proposed surface models intended for information only to the Contractor.
- B. WCL is responsible for the design and installation of all temporary railroad signals, crossing gates and grade crossing panels.
- C. It is assumed that ComEd transmission poles will not be impacted by the project.
- D. The following tasks or items were not included in the scope of services:

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

Old McHenry Road (Bonnie Lane to Fairfield Road) - Phase II Engineering

- i. Phase III Design Support Services (attendance to preconstruction meeting, RFI's, shop drawing reviews).
- ii. Roadway lighting is not anticipated for the project along the corridors nor at intersections.
- iii. Design of private and public utility relocation plans.
- iv. Permit fees.
- v. Components of the St. Matthew Church concept plan that were presented to the Church as above and beyond what the County is responsible for (i.e. tree plantings greater than replacements or building walkway/entrance improvements).



	<u>Task and Description</u>	Total Workhours	TS	CBBEL	Teska	Wang	нвк	H&H	MROWCO
Task 1 - I	Data Collection and Review								
A.	Collect Data from Agencies	160	88	72	-	-	-	-	-
В.	Site Visits	120	60	60	-	-	-	-	-
C.	Obtain digital aerial photography	40	40	<u> </u>	-			-	-
	Task 1 Subtota	l: 320	188	132	-	-	-	-	-
Task 2 - \	Value Engineering Study Support								
A.	Pre-Workshop Preparation	22	12	10	-	-	-	-	-
В.	VE Workshop (8 hour duration x 8 SME's)	52	32	20	-	-	-	-	-
C.	Post Workshop (Review VE Report, Address Comments)	128	64	64				-	
	Task 2 Subtota	l: 202	108	94	-	-	-	-	-
Task 3 - S	Supplemental Topographic Survey								
A.	Survey Coordination	72	32	40	-	-	-	-	-
В	Supplemental Topographic Survey	320	<u> </u>	320	-			-	
	Task 3 Subtota	l: 392	32	360	-	-	-	-	-
Task 4 - I	Utility Coordination								
A.	JULIE design locate and Utility Coordination (14 utility owners)	700	700	-	-	-	-	-	-
B.	Update utility base map with new information since Phase I	256	256	-	-	-	-	-	-
C.	Identify conflicts and coordinate with utilities for adjustments/relocations	336	168	168	-	-	-	-	-
D.	Review permit submittals (14 utils, 3 submittals ea)	252	252	-	-	-	-	-	-
E.	Easement coordination	160	-	160	-	-	-	-	-
F.	Proposed utility corridors for relocations	80	80	-	-	-	-	-	-
G.	Coordination with Lake Zurich for proposed JAWA	104	24	80	-	-	-	-	-
H.	Coordination with Lake County Public Works for sanitary sewer	72	24	48	-	-	-	-	-
I.	Coordination with Village of Hawthorn Woods for various utilities	48	12	36	-	-	-	-	-
J.	Supplemental utility locates (by HBK)	318	16	8			294		
	Task 4 Subtota	l: 2,326	1,532	500	-	-	294	-	-
Task 5 - I	Design Studies and Reports								
A.	ROW Verification	400	260	140	-	-	-	-	-
В.	St. Matthew 30% Design Development & Associated Engineering Studies	1,068	100	968	-	-	-	-	-
C.	Wall Type Study	168	168	-	-	-	-	-	-
D.	Drainage Studies	912	-	912	-	-	-	-	-
E.	Concept Staging	536	400	136	-	-	-	-	-
F.	Traffic Management Plan	80	-	80	-	-	-	-	-
G.	Design analyses and calculations	416	256	160				-	
	Task 5 Subtota	l: 3,580	1,184	2,396	_	-	=	-	-

Printed on: 8/13/2024 Page 1 of 4

	Task and Description	Total Workhours	TS	CBBEL	Teska	Wang	нвк	H&H	MROWCO
Task 6 - I	Land Acquisition Services								
	Appraisals, Specialty Reports, Appraisal Review, Negotiation, Relocation, Closing,								
A.	IDOT Certification, Project Management, & Direct Expenses - by Mathewson (refer to	390							
	scope & fee proposal by Mathewson)		_	-	_	-	_	_	390
В.	Plat & Legals	1,688	_	1,688	-	_	_	_	-
C.	St. Matthew/Garden Center Cross Access Plat of Easement	1,000	_	104	-	_	_	_	_
D.	Quentin/Highland Intersection Plat and Land Acquisition Services		_	286	_	_	_	_	_
E.	Land Acquisition Coordination with LCDOT and Mathewson and Property Owners	588	180	408	_	_	_	_	_
	Edita requisition coordination with Lobo 1 and mathematoriana 1 roperty owners						 -		-
	Task 6 Subtotal:	3,056	180	2,486	-	-	-	-	390
Task 7 - (Geotechnical Engineering								
· usit ·	Geotechnical Engineering services - by Wang Engineering (refer to scope & fee								
A.	proposal by Wang)	700				700			
	,	00	72	16	-	700 -	-	-	-
В.	Geotechnical Coordination with Wang (SGR & RGR reviews)	88							
	Task 7 Subtotal:	788	72	16	-	700	-	-	-
Task 8 - S	Special Waste								
A.	PSI & LPC-663	319	112	32	-	-	-	175	-
В.	Pre-Demolition Survey and Reporting	245	72	-	-	-	-	173	-
C.	QA/QC (Huff & Huff only)	20	-	-	-	-	-	20	-
D.	Project Management (Huff & Huff only)	20		-	-			20	
	Task 8 Subtotal:	604	184	32	-	-	-	388	-
Task 9 - I	Environmental Studies & Permits								
Α.	Wetland and Waters Field Delineation Update	94	-	94	-	-	-	-	-
В.	Boundary Confirmation and Jurisdictional Determination	20	_	20	_	_	_	_	_
C.	Threatened & Endangered Species Coordination	50	-	50	-	-	-	-	-
D.	Supplemental Tree Survey, Impact Evaluation, and Tree Mitigation Plan	136	-	136	-	-	-	-	-
E.	Lake County Watershed Development Ordinance Permit Application	124	-	124	-	-	-	-	-
F.	USACE Section 404 Clean Water Act Permit Application	228	-	228	-	-	-	-	-
G.	Soil Erosion & Sediment Control Plan Review/Coordination with LSCMC	32	-	32	-	-	-	-	-
H.	Best Management Practice Design	212	-	212	-	-	-	-	-
I.	Interagency Wetland Policy Act Coordination	88	-	88	-	-	-	-	-
J.	Section 401 CWA Individual Water Quality Certification	120	-	120	-	-	-	-	-
K.	Water Quality Pollutant Loading Analysis	168	-	168	-	-	-	-	-
L.	Prepare the Storm Water Pollution Prevention Plan and Notice of Intent	72	-	72	-	-	-	-	-
М.	Historic Preservation Coordination	38	-	38	-	-	-	-	-
N.	Preliminary Environmental Site Assessment (PESA) Update/Validation	88	-	88	-	-	-	-	-
0.	Permits Coordination & Support	350	350	-	<u> </u>		<u>-</u>		=
	Task 9 Subtotal:	1,820	350	1,470					

Printed on: 8/13/2024 Page 2 of 4

	Task and Description	Total Workhours	TS	CBBEL	Teska	Wang	нвк	Н&Н	MROWCO
Task 10	- Landscape Design and Aesthetics								
^	Old McHenry Road Aesthetic Design Documentation - refer to Tasks 11 through 14								
A.	and Exhibit B1 for Teska hours (TS Coordination)	32	32	-	-	-	-	-	-
	St. Matthew Church - Landscape Architectural Design Documentation - refer to Tasks	S							
В.	11 through 14 and Exhibit B1 for Teska hours (CBBEL Coordination)	32	-	32	<u> </u>				
	Task 10 Subtotal	: 64	32	32	-	-	-	-	-
Task 11	- Traffic Signal Alternative Evaluation and Contract Documents (Quentin Rd at High	nland Dr)							
A.	Alternatives Evaluation	100	60	40	-	-	-	-	-
В.	Plans, Specs & Estimates - refer to Exhibit B1 for detail	635	635	-	-	-	-	-	-
C.	Plat & Legals (Included in Task 6B)	-	-	-	-	-	-	-	-
D.	LCDOT Coordination and Meetings (2 meetings)	24	24	- -		-			-
	Task 11 Subtotal	: 759	719	40	-	-	-	-	-
	Building Demolition Advanced Contract Documents								
Α.	Plans, Specs & Estimates - refer to Exhibit B2 for detail	410	360	50	-	-	-	-	-
В.	Demolition Permits (Hawthorn Woods & LC Planning, Building & Development)	80	80	-	-	-	-	-	-
C.	Locate utilities and coordinate disconnection of services	40	40	-	- -				
	Task 12 Subtotal	: 530	480	50	-	-	-	-	-
Task 13	- Preliminary Plans and Documents (60%)								
A.	Plans, Specs & Estimates - refer to Exhibit B3 for detail	8,594	5,717	2,653	224				
	Task 13 Subtotal	: 8,594	5,717	2,653	224	-	-	-	=
Task 14	Pre-Final Plans and Documents (95%)								
A.	Plans, Specs & Estimates - refer to Exhibit B3 for detail	8,616	5,735	2,629	252				
	Task 14 Subtotal	: 8,616	5,735	2,629	252	-	-	-	-
Task 15	- Final Plans and Documents (100%)								
A.	Plans, Specs & Estimates - refer to Exhibit B3 for detail	2,344	1,578	710	56				
	Task 15 Subtotal	: 2,344	1,578	710	56	-	-	-	-
Task 16	- Bid Set								
A.	Plans, Specs & Estimates - refer to Exhibit B3 for detail	1,141	772	341	28				
	Task 16 Subtotal	: 1,141	772	341	28	-	-	-	-
Task 17	- Agency Coordination and Meetings								
Α.	LCDOT coordination and meetings (48 meetings)	456	240	192	24	-	-	-	-
В.	IDOT coordination and meetings (12 meetings)	108	60	48	-	-	-	-	-
C.	WCL coordination and meetings (8 meetings)	40	40	-	-	-	-	-	-
D.	ICC coordination and meetings (4 meetings)	20	20	-	-	-	-	-	-
E.	FHWA presentations (2 meetings)	16	4	12	-	-	-	-	-
F. G.	Local municipality coordination and meetings (12 meetings) Permit Agency Coordination Meetings (20 meetings) & General Coordination	108 200	60 40	48 160	-	-	-	-	-
G. Н.	Project Team bi-weekly meetings (96 meetings)	1,354	768	480	106	_	_	_	_
п.	Task 17 Subtotal		1,232	940	130	-			
	Task 17 Subtotal	. 2,302	1,232	940	130	-	-	-	-

	Task and Description	Total Workhours	TS	CBBEL	Teska	Wang	нвк	н&н	MROWCO
Task 18 -	Public Outreach and Stakeholder Coordination								
A.	Maintenance of Project Commitment File	168	84	84	-	-	-	-	-
В.	Website Maintenance & Public Outreach Deliverables	110	-	40	70	-	-	-	-
C.	Property owner meetings & coordination		105	105	-	-	-	-	-
D.	Public Information Meeting	528	168	360	<u> </u>	<u> </u>	<u> </u>	-	
	Task 18 Subtotal:	1,016	357	589	70	-	-	-	-
Task 19 -	Financial Plan and Funding Assistance								
A.	Project Financial Plan								
	1. Initial Development for entire Old McHenry Crossings Project (4 sections)	180	140	40	-	-	-	-	-
	2 Annual Updates (assume 6 annual updates)	504	480	24	-	-	-	-	-
	3 Cost Estimate Review Workshop	224	112	112	-	-	-	-	-
В.	Assist application process for STP and STP Shared Fund programs	40	40	-	-	-	-	-	-
C.	Strategize and write federal grant applications (BUILD, INFRA, CRISI)	40	40	-	-	-	-	-	-
	Conduct two meetings with LCDOT staff, elected officials and others to strategize								
D.	project promotion to be successful with competitive grant funding programs	48	32	16	-	-	-	-	-
	Task 19 Subtotal:	1,036	844	192	-	-	-	-	-
Task 20 -	Project Management and Administration								
Α.	Administration and Management (3%)	1,140	636	488	16	-	-	-	-
	Task 20 Subtotal:		636	488	16	-	-	-	-
Task 21 -	OA/OC and Constructability Reviews								
Α.	60% Preliminary Plans (5% of PS&E hours for TS and CBBEL)	344	229	107	8	_	_	_	_
В.	95% Prefinal Plans (5% of PS&E hours for TS and CBBEL)	340	230	106	4	-	-	-	-
C.	100% Final Plans (5% of PS&E hours for TS and CBBEL)	95	64	29	2	-	-	-	-
D.	Constructability Reviews (at 60% and 95%)	120	120	-	-	-	-	-	-
	Task 21 Subtotal:	899	643	242	14	-	-	-	-
Task 22 -	Bid Phase Support								
Α.	Respond to bidder questions	140	60	60	20	-	-	-	-
В.	Contract Addenda (up to 3)	720	360	360	-	-	-	-	-
C.	Bid review	32	16	16	-	-	-	-	-
	Task 22 Subtotal:	892	436	436	20	-	-	-	-
	Total	42,422	23,011	16,829	810	700	294	388	390
				,					

Printed on: 8/13/2024 Page 4 of 4

EXHIBIT B1 - Traffic Signal (Quentin Rd at Highland Dr) Contract Workhours Estimate

	Sheet Totals									11 - Prel	minary F	Plans (6	0%)		Task 12 -	Pre-Fina	al (95%)			Task 13	- Final (1	100%)	Task 14 - Bid Set					
Sheet Description	Hrs/Sht	TSC	Sheet CBBE		TSC	Total Ho CBBEL		Subtotal	Hrs/Sht	TSC	40% of To		rs Subtotal	Hrs/Sht	TSC		Total Hour Teska	s Subtotal	Hrs/Sht	TSC		otal Hou Teska	ırs Subtotal	Hrs/Sht	TSC	5% of To		s Subtot
. General Sheets		_																										
Cover Sheets Hwy Stds, General Notes & Commitments	8 12		1 -	-	8 12	-	-	8 12	3.2 4.8	3 5	-	-	3	3.6 5.4		-	-	4	0.8 1.2	1	-	-	1	0.4 0.6		-	-	
Summary of Quantities	12			-	28		-	28	4.8 5.6	5 11	-	-	11	6.3			-	12	1.2		-		1	0.6				
			2 -	-	28 14		-	28 14		6	-	-	11				-	13		3 1	-	-	3			-	-	
Alignment, Ties and Benchmarks (200'=1")	14 Subtotal:		5 -		62	<u> </u>	-	62	5.6 Subtotal:	25		-	25	6.3 Subtotal:	6 28		-	28	1.4 Subtotal:		-		6	0.7 Subtotal:	3	-	-	
3. <u>Maintenance of Traffic Plans</u> Construction Staging Notes	10		1		10			10	4.0	4			4	4.5	5				1.0				1	0.5	1			
Typical Sections - Prestage	8		1 .		8			8	3.2	3			3	3.6				4	0.8	1			1	0.5	0			
Typical Sections - Frestage Typical Sections - Stage 1 and 2	8		1 -		8	_	_	8	3.2	3			3	3.6		_	_	4	0.8	1		_	1	0.4	0	_		
Temporary Informational Signing Details	16		1 -		16	_	_	16	6.4	6			6	7.2		_	_	7	1.6	2		_	2	0.4	1	_		
MOT Plans - Pre-Stage	12		1 -	_	12	_	_	12	4.8	5	_	_	5	5.4		_	_	5	1.2	1	_	_	1	0.6	1	_	_	
MOT Plans - Stage 1 (50'=1")	12		1 -	_	12	_	_	12	4.8	5	_	_	5	5.4		_	_	5	1.2	_	_	_	1	0.6		_	_	
MOT Plans - Stage 2 (50'=1")	12		1 -	_	12		_	12	4.8	5	_	_	5	5.4	5	_	_	5	1.2		_	_	1	0.6	_	_	_	
merrians sugerior 17	Subtotal:		7 -		78		-	78	Subtotal:	31			31	Subtotal:	35			35	Subtotal:	8		-	- 8	Subtotal:	4			
Civil Roadway Plans Removal & Existing Conditions (1"=20')	6		1 -	_	6	_	_	6	2.4	2	_	_	2	2.7	3	_	_	3	0.6	1	_	_	1	0.3	0	_	_	
Roadway Plan & Profile (1"=20'))	6		1 -		6	_	_	6	2.4	2			2	2.7		_	_	3	0.6	1		_	1	0.3				
Erosion & Sediment Control -	٥		•		· ·			-		_			-					,					•					
Sequence of Operations & Notes	8		1 -	-	8	-	-	8	3.2	3	-	-	3	3.6	4	-	-	4	0.8	1	-	-	1	0.4	0	-	-	
Erosion & Sediment Control -																												
Details	8		2 -	-	16	-	-	16	3.2	6	-	-	6	3.6	7	-	-	7	0.8	2	-	-	2	0.4	1	-	-	
Plat of Highways (1"=50') Hours included in Task																												
6B		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADA Ramp Details (1"=5") (4 ramps @ 4 per sheets)	54		1 -	_	54	-	-	54	21.6	22	-	_	22	24.3	24	_	-	24	5.4	5	-	_	5	2.7	3	-	_	
	6				6				2.4	2				2.7						1				0.3	0			
Pavement Marking Plans (1"=50') Existing Signing Plans (1"=50')	3		1 -	-	3	-	-	6	1.2	1	-	-	2	1.4		-	-	3	0.6 0.3	0	-	-	1	0.3	-	-	-	
Existing Signing Plans (1 =50)	6		1 -	-	3	-	-	6	2.4	2	-	-	1	2.7		-	-	1	0.5	1	-	-	0	0.2		-	-	
Proposed Signing Plans (1"=50")	8		1 -	-	6	-	-	6	3.2	3	-	-	2	3.6		-	-	3	0.6	1	-	-	1	0.3	0	-	-	
Signing Details Existing Signing Schedules	8		1 -	-	8	-	-	8	3.2	3	-	-	3	3.6		-	-	4	0.8	1	-	-	1	0.4	0		-	
	8		1 -	-	8	-	-	8	3.2	3	-	-	3	3.6		-	-	4	0.8	1	-	-	1	0.4	0		-	
Proposed Signing Schedules Landscaping Plans (1"=50')	8		1 -	-	8	-	-	8	3.2	3	-	-	2	3.6		-	-	4	0.8	1	-	-	1	0.4			-	
	· ·		1 -	-	16	-	-	16	6.4	6	-	-	3			-	-	4		2	-	-	1		1	-	-	
Landscaping Details	16 Subtotal:		14 -		153	<u> </u>	 -	153	Subtotal:	61	-	-	61	7.2 Subtotal:	69			69	1.6 Subtotal:	15	-		15	0.8 Subtotal:			-	
	oubtotu	-	•		200			200	oubtotu.	-				oubtotu	•			05	oubtotu					oubtotu	·			
Traffic Signal & Lighting Plans																												
<u>Traffic Signal Plans</u> General Sheets	varies		6 -		26			26	varies	10			10	varies	12			12	varies	3			3	varies	1			
Quentin Road at Highland Dr Traffic Signal	varies		0 -	-		-	-	20	varies	10	-	-		varies			-		Varies	3	-	-	3	varies	1	-	-	
Plans	varies		3 -	-	78	-	-	78	varies	31	-	-	31	varies	35	-	-	35	varies	8	-	-	8	varies	4	-	-	
Traffic Signal Interconnect Plans (50'=1")	varies		3 -	_	48	-	-	48	varies	19	_	_	19	varies	22	_	_	22	varies	5	_	_	5	varies	2	_	_	
,	Subtotal:	1	12 -		152	-	-	152	Subtotal:	61	-	-	61	Subtotal:	68	-	-	68	Subtotal:	15	-	-	15	Subtotal:	8	-	-	
Contract Documents																												
Plotting and Packaging PDF Documents					-	-	-	-		4	-	-	4		4	-	-	4		4	-	-	4		4	-	-	
Specifications					-	-	-	-		40	-	-	40		30	-	-	30		4	-	-	4		4	-	-	
Construction Cost and Time Estimates																												
Civil Quantity Calculations					-	-	-	-		16	-	-	16		12		-	12		4	-	-	4		4	-	-	
Traffic Signals Quantity Calculations					-	-	-	-		20	-	-	20		16	-	-	16		4	-	-	4		4	-	-	
Unit Price Evaluation										8			8		4			4		2		_	2		2			
	Subtotal:							_	Subtotal:	88			88	Subtotal:	66			66	Subtotal:	18	_		18	Subtotal:	18	_		
	Subtotut:				-			-	Subtotut:	00			00	Subtotut:	00			00	Subtotal:	10			10	Subtotui:	10		-	
				Sheets	TSC		Teska S	Subtotal		TSC		Teska	Subtotal				Teska	Subtotal			CBBEL	Teska	Subtotal			CBBEL	Teska	Subtot
General Sheets	62		5 -	-	62	-	-	62		25	-	-	25		28	-	-	28		6	-	-	6		3	-	-	
Maintenance of Traffic Plans	78		7 -	-	78		-	78		31	-	-	31		35		-	35		8	-	-	8		4	-	-	
Civil Roadway Plans	153		14 -	-	153		-	153		61	-	-	61		69		-	69		15	-	-	15		8		-	
Traffic Signal & Lighting Plans	152		12 -	-	152	-	-	152		61	-	-	61		68		-	68		15	-	-	15		8		-	
Contract Documents	190									88			88		66			66		18			18		18			
TOTALS	635	3	38 -	-	445	-	-	445		266	-	-	266		266	-	-	266		63	-	-	63		40	-	-	

Printed on: 8/13/2024 Page 1 of 1

	Sheet Totals									(11 - Pre	liminary	Plans (60	0%)	Task 12 - Pre-Final (95%)							Task 14 - Bid Set							
	Sheets					Total I			40% of Total Hours			45% of Total Hours							Total Hou		5% of Total Hours							
	Hrs/Sht	TSC	CBBEL	Teska	TSC	CBBEL	Teska	Subtotal	Hrs/Sht	TSC	CBBEL	Teska	Subtotal	Hrs/Sht	TSC	CBBEL	Teska	Subtotal	Hrs/Sht	TSC	CBBEL	Teska	Subtotal	Hrs/Sht	TSC	CBBEL	Teska	Subtotal
A. <u>General Sheets</u>																												
Cover Sheets	8	1	-	-	8	-	-	8	3.2		-	-	3	3.6	4	-	-	4	0.8	1	-	-	1	0.4	0	-	-	0
Hwy Stds, General Notes & Commitments	24	1	-	-	24	-	-	24	9.6			-	10	10.8	11	-	-	11	2.4	2	-	-	2	1.2	1	-	-	1
Summary of Quantities	16	2	-	-	32	-	-	32	6.4			-	13	7.2	14	-	-	14		3	-	-	3	0.8	2	-	-	2
Schedule of Quantities	16	3			48			48	6.4				19	7.2	22			22	1.6	5			5	0.8	2			2
	Subtotal:	7	-	-	112	-	-	112	Subtotal:	45	-	-	45	Subtotal:	50	-	-	50	Subtotal:	11	-	-	11	Subtotal:	6	-	-	6
B. <u>Demo & Civil Plans</u>																												,
Kev Plan	16	1		_	16	_	_	16	6.4	6	_	_	6	7.2	7	_	_	7	1.6	2	_	_	2	0.8	1	_	_	1
Existing Conditions Plans	8	4			32			32	3.2				13	3.6	14			14	0.8	2			3	0.4	2		_	2
Building Demolition Plans	24	4			96			96	9.6				38	10.8	43			43		10			10	1.2	5			5
Erosion and Sediment Control Plans	16	4			64	_	_	64	6.4			_	26	7.2	29	_	_	29		6	_	_	6	0.8	3		_	3
Plat of Highways (for information only)	10		5	_	-	50	_	50	4.0		20	_	20	4.5	-	23	_	23	1.0	-	5	_	5	0.5	-	3	_	3
Details	10	4	-	_	40	-	_	40	4.0	16		_	16	4.5	18	-	_	18	1.0	4	-	_	4	0.5	2	-	_	2
Details	Subtotal:	17	- 5		248			298	Subtotal:	99			119	Subtotal:	112	23		134	Subtotal:	25	- 5		30	Subtotal:	12	3		15
C. Contract Documents																												
Plotting and Packaging PDF Documents										4			4		4			4					4					4
Specifications										40			40		30	-		30		4			4		4		-	4
Construction Cost and Time Estimates										40			40		30			30		7			7		7			7
Civil Quantity Calculations						_	_	_		40	_	_	40		30	_	_	30		4	_	_	4		4	_	_	4
Unit Price Evaluation						_	_			20		_	20		16	_	_	16		2	_	_	2		2	_	_	2
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GRAND TOTALS	MH Total	Sheets	Sheets	Shoote	<u>TSC</u>	CBBEL 1	<u> Teska</u>	Subtotal		TSC	CBBEL	Teska	Subtotal		TSC	CBBEL	Teska	Subtotal		TSC	CBBEL	Teska	Subtotal		TSC	CBBEL	Torka	Subtotal
A. General Sheets	112	7	<u>Jileets</u>	-	112	- CDDEL	-	112		13C 45		icaka	45		50	CDDLL	<u>ıcska</u>	50		11	-	I CSKa	11		130	- CDDLL	-	6
B. Demo & Civil Plans	298	17	- 5		248	50		298		99			119		112	23		134		25	5		30		12	3		15
C. Contract Documents	212	-	-	-	-			-		104			104		80	-		80		14	-	-	14		14	-	-	14
C. Contract Documents	622	24	- 5		360		<u> </u>	410		248			268		242	23		265		50			55		32	3		35
TOTALS	622	24	5	-	360	50	-	410		248	20	-	268		242	23	-	265		50	5	-	55		32	3	-	35

Printed on: 8/13/2024 Page 1 of 1

				Sheet	Totals			Task	11 - Prelimi	inary Plar	ns (60%)		Task 12 - F	re-Final (S	5%)		Task 13	- Final (10	0%)			Task	k 14 - Bio	l Set	
Sheet Description	Hrs/Sht		Sheets CBBEL	Teska	TSC	Total Hours CBBEL Teska	a Subtotal	Hrs/Sht		0% of Total BBEL To	l Hours eska Subto	al Hrs/Sht		45% of Tota CBBEL 1	l Hours 'eska Subtota	Hrs/Sht	TSC	10% of To	tal Hours Teska Subto	otal H	Hrs/Sht	TSC		Total Hours Teska	
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General Notes	14			-	28		28	5.6	11	-		1 6.		-	- 13		3	-	-	3	0.7	1		-	
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emporary Informational Signing Details	28		-	-	-		-	11.2	-	-		12.		-		2.8	-	-	-	-	1.4	-	-	-	
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MOT Plans - Stage 3 (50'=1')	12	12	4	-	144	48 -	192	4.8	58	19	-	7 5.	65	22	- 86	1.2	14	5	-	19	0.6	7		2 -	
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					Sheet	Totals			Task	(11 - Prel	liminary P	ans (60%)		Task	12 - Pre-	Final (95%	6)		Task 13	- Final (10	00%)			Task	14 - Bid Se	et	
Sheet Description		Hrs/Sht	TSC	Sheets CBBEL	Teska	TSC	Total Hou		l Hrs/Sht	TSC	40% of To	al Hours Teska Sub	otal Ur	rs/Sht TS		6 of Total H BEL Tes		Hrs/Sht	TSC	10% of To	tal Hours Teska Subtota	ادا اد	re/Sht	TSC	5% of Tot	tal Hours Teska S	Subtota
Proposed Signing F	z Plans (1"=50')	6	9	3	-	54	18	- 72			7	- Jub	29		24	8 -	- 32	0.6	5	2	- Judioi	7	0.3	3	1	-	Jubiola
Signing Details	, ,	10	5	1	-	50	10	- 60		20	4	-	24		23	5	- 27	1.0	5	1	-	6	0.5	3	1	-	3
Existing Signing Sc		20	1	1	-	20	20	- 40			8	-	16	9.0	9	9 -	- 18	2.0	2	2	-	4	1.0	1	1	-	2
Proposed Signing S	g Schedules	20	1	1	-	20	20	- 40	8.0	8	8	-	16	9.0	9	9 -	- 18	2.0	2	2	-	4	1.0	1	1	-	2
Landscaping Plans		6	9	3	-	54	18	- 72	2.4	22	7	-	29	2.7	24	8 -	- 32	0.6	5	2	-	7	0.3	3	1	-	4
Landscaping Detail		20	1	1	-	20	20	- 40	8.0	8	8	-	16	9.0	9	9 -	- 18	2.0	2	2	-	4	1.0	1	1	-	2
Roadway Soil Borir	ring Plans & Logs	4	2			8		- 8	1.6	3		<u> </u>	3	1.8	4		4	0.4	1			1	0.2	0			(
		Subtotal:	91	191	-	1,071	3,009	- 4,080	Subtotal:	428	1,204	- 1,	632 S	Subtotal: 4	82 1,	354 -	1,836	Subtotal:	107	301	- 40)8 S	Subtotal:	54	150	-	204
D. <u>Civil Site Plans</u>																											
Parking Lot Site Pla		30	-	8	-	-	240	- 240			96	-	96	13.5	-	108	- 108	3.0	-	24		24	1.5	-	12	-	12
Parking Lot Gradin	ing Plan (1"=20')	22	-	8	-	-	176	- 170	8.8	-	70	-	70	9.9	-	79	- 79	2.2	-	18	- 1	18	1.1	-	9	-	9
Parking Lot Draina	age and Utility Plan (1"=50')	54	_	4	_	_	216	- 210	21.6	_	86	_	86	24.3		97	- 97	5.4	_	22	- 2	22	2.7	_	11	_	11
Parking Lot Electric		54	-	3		-	162	- 162		-	65	-	65	24.3	-	73	- 73	5.4	-	16		16	2.7	-	8	-	8
	scaping Plan (1"=50')	16	-	3	8	-	48	220 268			19	88	107	7.2	-		99 121	1.6	-	5	22 2	27	0.8	-	2	11	13
Parking Lot Details	ls	12		4			48	- 48			19	<u> </u>	19	5.4	<u> </u>	22	- 22	1.2		5		5	0.6		2	<u> </u>	2
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E. Traffic Signal & Light																											
Traffic Signal Plans	ns									10			10		10				_			2		_			
General Sheets	in D.I. Tanan A.B.	varies	6	-	-	26	-	- 20		10	-	-	10	varies	12 70	-	- 12	varies	3	-		3	varies	1	-	-]
OMR and Quentin	in Rd - Temp & Prop	varies	8	-	-	156	-	- 156	varies	62	-	-	62	varies	70	-	- 70	varies	16	-	- 1	16	varies	8	-	-	8
OMR and Combin	ined Entrance - Temp & Prop	varies	8	-	-	156	-	- 150	varies	62	-	-	62	varies	70		- 70	varies	16	-	- 1	16	varies	8	-	-	8
OMD and Midlath	thian Rd - Temp & Prop	varies				156		- 156	varies	62			62	varies	70		- 70	varies	16		,		varies				
	tnian kd - Temp & Prop eld Rd - Temp & Prop	varies	8	-	-	156	-	- 150		62	-	-	62		70	-	- 70	varies	16	-		16	varies	8	-	-	8
OMR and Fairneid	на ка - тетр & ггор	varies	8	-	-	156	-	- 150	varies	62	-	-	62	varies	70	-	- 10	varies	16	-	- 1	16	varies	8	-	-	
Midlothian and La	Landover Pkwy - Temp & Prop	varies	8	-	-	156	-	- 150	varies	62	-	-	62	varies	70		- 70	varies	16	-	- 1	16	varies	8	-	-	8
Troffic Cianal Inte	terconnect Plans (50'=1")	28	7			196		- 196	11.2	78			78	12.6	88		- 88	2.8	20		2	20	1.4	10			10
Traffic Signal lifte	terconnect Plans (50 -1)						<u> </u>					<u> </u>				<u> </u>				<u> </u>		_	Cubaranti	-	<u> </u>	<u> </u>	
		Subtotal:	53	-	-	1,002	-	- 1,002	Subtotal:	401	-	-	401 S	Subtotal: 4	51		451	Subtotal:	100	-	- 10	10 S	Subtotal:	50	-	-	50
F. Structural Plans																											
Underpass Retaining	ning Wall Plans																										
General Plan and		36	6		_	216	_	- 210	14.4	86			86	16.2	97		- 97	3.6	22		. 2	22	1.8	11	_	_	11
	and Bill of Materials	28	4			112		- 112					45		50		- 50	2.8	11			11	1.4	6			
Plan and Elevatio		28	14		_	392	-	- 392					157		176		- 176	2.8	39			39	1.4	20			20
Sections and Deta		36	6	_	_	216	_	- 210			_	_	86		97		- 97	3.6	22	_		22	1.8	11	_	_	11
Railing Details	cuits	42	2	_	_	84	_	- 84			_	_	34		38		- 38	4.2	8	_	-	8	2.1	4	_	_	
Fence Details					_	28		-									- 13		-	_	-				_	_	1
		28	1					- 28	11.2	11	_	-	11		13			2.8	3			3	1.4	1	-		
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Fairfield Rd Retaini General Plan and General Notes an Plan and Elevatio Sections and Det. Railing Details Boring Logs Midlothian Rd Reta General Plan and General Notes an Plan and Elevatio Sections and Det. Railing Details Boring Logs Church Parking Lot General Plan and Sections and Det. Railing Details	dd Elevation und Bill of Materials ion stails taining Wall Plans dd Elevation und Bill of Materials ion stails ot Retaining Wall Plans dd Elevation	28 5 5 36 28 28 28 28 28 28 28 28 28 28 28 28 28	12 1 1 6 2 2 1 4 4 2 2 1 3 3 1 1 1			60 36 28 168 56 28 20 36 28 112 56 28 15		- 66 - 33 - 21 - 166 - 55 - 22 - 21 - 31 - 21 - 11: - 55 - 21 - 34 - 21 - 34 - 21	2.0 2.0 14.4 11.2 2.0 12.5 11.2 2.0 12.5 11.2 11.2 11.2 11.2 11.2 11.2 11.2	24 14 11 67 22 11 8 14 11 45 22 11 6			24 14 11 67 22 11 8 14 11 45 22 11 6	2.3 16.2 12.6 12.6 12.6 12.6 12.6 12.6 12.	27 16 13 76 25 13 9 16 13 50 25 13 7 16 13 7		27 - 16 - 13 - 76 - 25 - 13 - 9 - 16 - 13 - 50 - 25 - 13 - 50 - 16 - 13 - 70 - 16 - 13	3.6 2.8 2.8 2.8 0.5 3.6 2.8 2.8 2.8 2.8 3.6 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	4 3 17 6 3 2 4 3 11 6 3 2 2 4 3		- - -	6 3 2 4 3	1.8 1.4 1.4 1.4 1.4 0.3 1.8 1.4 1.4 1.4 0.3	2 1 8 3 1 1 2 1 6 3 1 1 1			2 3 8 8 3 3 1 1 1 2 2 3 3 3 3 1 1 1 1 1 2 1 1 1 1
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Printed on: 8/13/2024 Page 2 of 4

				Sheet	Totals				Task	11 - Preli	minary Pl	lans (60%	6)	1	Гask 12 - F	Pre-Final	(95%)		Task 1	L3 - Final (100%)			Task :	14 - Bid S	et
			Sheets			Total Ho	ours				40% of To	tal Hours				45% of To	tal Hours			10% of 7	otal Hour	S			5% of Tot	tal Hours
Sheet Description	Hrs/Sht	TSC	CBBEL	Teska	TSC	CBBEL	Teska	Subtotal	Hrs/Sht	TSC	CBBEL	Teska	Subtotal	Hrs/Sht	TSC	CBBEL	Teska Subto	al Hrs/Sht	TSC	CBBEL	Teska	Subtotal	Hrs/Sht	TSC	CBBEL	Teska Subt
Structural Steel Details	72	3	-	-	216	-	-	216	28.8	86	-	-	86	32.4	97	-	-	7.2	22	2 -	-	22	3.6	11	-	-
Deck Plate Plan	42	1	-	-	42	-	-	42	16.8	17	-	-	17	18.9	19	-	-	19 4.2	4	4 -	-	4	2.1	2	-	-
Deck Plate Details	42	1	-	-	42	-	-	42	16.8	17	-	-	17	18.9	19	-	-	19 4.2	4	4 -	-	4	2.1	2	-	-
Bearing Details	64	2	-	-	128	-	-	128	25.6	51	-	-	51	28.8	58	-	-	6.4	13	3 -	-	13	3.2	6	-	-
Waterproofing Details	42	1	-	-	42	-	-	42	16.8	17	-	-	17	18.9	19	-	-	19 4.2	. 4	4 -	-	4	2.1	2	-	-
Drainage Details	42	1	-	-	42	-	-	42	16.8	17	-	-	17	18.9	19	-	-	19 4.2	. 4	4 -	-	4	2.1	2	-	-
Drainage Plan	42	1	-	-	42	-	-	42	16.8	17	-	-	17	18.9	19	-	-	19 4.2	. 4	4 -	-	4	2.1	2	-	-
Walkway Details	42	1	-	-	42	-	-	42	16.8	17	-	-	17	18.9	19	-	-	19 4.2	4	4 -	-	4	2.1	2	-	-
Railing Details	42	1	-	-	42	-	-	42	16.8	17	-	-	17	18.9	19	-	-	19 4.2	4	4 -	-	4	2.1	2	-	-
Protection Beam Details	42	1	-	-	42	-	-	42	16.8	17	-	-	17	18.9	19	-	-	19 4.2	. 4	4 -	-	4	2.1	2	-	-
North Abutment	72	1	_	_	72	-	-	72	28.8	29	-	-	29	32.4	32	-	-	32 7.2	7	7 -	-	7	3.6	4	_	-
North Abutment Details	72	2	_	-	144	-	_	144	28.8	58	-	-	58	32.4	65	-		7.2		4 -	-	14	3.6	7	_	_
South Abutment	72	1	_	_	72	_	_	72	28.8	29	_	_	29	32.4	32	_		32 7.2	7	7 -	_	7	3.6	4	_	_
South Abutment Details	72	2	_	_	144	_	_	144	28.8	58	_	_	58	32.4	65	_		7.2		4 -	_	14	3.6	7	_	_
Pier	72	1	_	-	72	-	_	72	28.8	29	-	-	29	32.4	32	-		32 7.2		7 -	-	7	3.6	4	_	_
Pier Details	72	1	_	-	72	-	_	72	28.8	29	-	-	29	32.4	32	-		32 7.2	. 7	7 -	-	7	3.6	4	_	_
Boring Logs	5	6	_	-	30	-	_	30	2.0	12	-	-	12	2.3	14	-		14 0.5		3 -	-	3	0.3	2	_	_
Bridge & Wall Aesthetic Plans	_																					-	5.5			
Custom Formliner & Railing Details	varies	_	_	6	_	_	340	340	varies	_	_	136	136	varies	_	_	153 1	53 varies	_	_	34	34	varies	_	_	17
Custom Formulei & Raiting Details	Subtotal:	132			4.067		340	4.407	Subtotal:	1.627		136	1.763	Subtotal:	1.830		153 1.9		407	,	34	441	Subtotal:	203		17
	Subtotut.	132			4,007		340	4,407	Subtotui.	1,027		130	1,703	Subtotui.	1,030		133 1,5	Subtotui.	407		34	441	Subtotui.	203		17
Cross Sections (10H:5V)																										
Mainline at 50 ft intervals & Driveway or Critical																										
section every 250'	14	52	_	_	728	_	_	728	5.6	291	_	_	291	6.3	328	_	- 3	28 1.4	73			73	0.7	36		_
at 2.5 xs/sheet	14	52			120			120	5.0	231			231	0.5	320		- 3	1.4	, ,	,		13	0.1	50		
Major Cross Roads at 50 ft intervals & Driveway or																										
Critical section every 250'	14	22	36		308	504		812	5.6	123	202		325	6.3	139	227	2	55 1.4	31	1 50		81	0.7	15	25	
at 2.5 xs/sheet	14	22	30	-	306	304	-	012	5.6	123	202	-	323	0.3	139	221	- 3	1.4	31	1 30	-	91	0.7	15	25	-
at 2.5 xs/sneet																										
Minor Cross Roads at 50 ft intervals & Driveway or									3.2					3.6				8.0					0.4			
Critical section every 250' at 2.5 xs/sheet	8	13	9	_	104	72	_	176	3.2	42	29	_	70	3.0	47	32	_	79	10	7	_	18	0.4	5	4	_
	Subtotal:	87	45		1.140	576		1,716	Subtotal:	456	230		686	Subtotal:	513	259	- 7		114			172	Subtotal:	57	29	
Track Plans	Subtotut:	01	43	-	1,140	3/0	-	1,710	Subtotut:	430	230	-	000	Subtotut:	313	239	- /	2 Subtotui:	114	. 30	-	1/2	Subtotut:	3/	29	-
	10	10			100			100	4.0	40			40	4.5	45			1.0	10			10	0.5	5		
General Plans	10	10	-	-	200	-	-	200	8.0	40 80	-	-	40 80		45 90	-					-		1.0	_	-	-
Staging Plans and Typical Sections	20		-	-		-	-			80 80	-	-		9.0		-					-	20		10	-	-
Demolition Plans (Temp and Final)	20	10	-	-	200	-	-	200	8.0		-	-	80	9.0	90	-		2.0			-	20	1.0	10	-	-
Erosion Control & Grading (Temp and Final)	20	10	-	-	200	-	-	200	8.0	80	-	-	80	9.0	90	-		2.0			-	20	1.0	10	-	-
Plan and Profile (Temp and Final)	42	10	-	-	420	-	-	420	16.8	168	-	-	168	18.9	189	-		39 4.2		_	-	42	2.1	21	-	-
Track Details	20	5	-	-	100	-	-	100	8.0	40	-	-	40	9.0	45	-		15 2.0		-	-	10	1.0	5	-	-
Temporary Grade Crossing Details	20	2	-	-	40	-	-	40	8.0	16	-	-	16	9.0	18	-		18 2.0			-	4	1.0	2	-	-
CN Standard Details	14	2	-	-	28	-	-	28	5.6	11	-	-	11	6.3	13	-		1.4		•	-	3	0.7	1	-	-
								400	8.0	160			160	9.0	180	-	- 1	30 2.0	40			40	1.0	20	-	
Cross Sections (10H:5V)	20 Subtotal:	<u>20</u> 79			1,688			1,688	Subtotal:	675			675	Subtotal:	760		- 7		169			169	Subtotal:	84		

Printed on: 8/13/2024 Page 3 of 4

					Sheet	Totals				Tas	k 11 - Preli	minary P	lans (60	%)	T	ısk 12 -	Pre-Final	(95%)			Task 13	- Final (1	00%)			Task :	14 - Bid S	iet	
	_			Sheets			Total F	lours				40% of To	tal Hours				45% of To	tal Hours	5			10% of To	otal Hour	5			5% of Tot	tal Hour	rs
Sheet Description	Hrs/Sht	t .	TSC	CBBEL	Teska	TSC	CBBEL	Teska	Subtotal	Hrs/Sht	TSC	CBBEL	Teska	Subtotal	Hrs/Sht	TSC	CBBEL	Teska	Subtotal	Hrs/Sht	TSC	CBBEL	Teska	Subtotal	Hrs/Sht	TSC	CBBEL	Teska	Sub
Contract Documents																													
Plotting and Packaging PDF Documents						-	-	-	-		28	14	-	42		21	11	-	32		15	7	-	22		15	7	-	
Specifications						-	-	-	-		240	120	-	360		160	80	-	240		80	36	-	116		40	20	-	
Construction Cost and Time Estimates																													
Civil Quantity Calculations						-	-	-	-		480	320	-	800		240	160	-	400		120	80	-	200		60	40	-	
Traffic Signals Quantity Calculations						-	-	-	-		36	-	-	36		22	-	-	22		18	-	-	18		10	-	-	
Structural Quantity Calculations						-	-	-	-		200	-	-	200		150	-	-	150		90	-	-	90		40	-	-	
Rail Quantity Calculations						-	-	-	-		36	-	-	36		22	-	-	22		18	-	-	18		10	-	-	
Unit Price Evaluation						-	-	-	-		120	60	-	180		40	20	-	60		36	18	-	54		18	8	-	
Cost Participation Breakdown						-	-	-	-		30	30	-	60		15	15	-	30		8	8	-	16		8	8	-	
Construction Estimate of Time						-	-	-	-		60	30	-	90		30	15	-	45		8	8	-	16		8	8	-	
Surface Grading Model for Contractor's Use						-	-	-	-		-	-	-	-		-	-	-	-		36	-	-	36		16	-	-	
Project Schedules									_					-					_					_					
Construction Scheduling (Gantt Chart)						_		_	_		72	54	_	126		72	54	_	126		36	36	_	72		_	_	_	
Design Scheduling (Gantt Chart)						_		_	_		36	28	_	64		36	28	_	64		18	18	_	36		_	_	_	
besign beneading (bank chart)						-									-														
	Subto	tal:				-	-	-	-	Subtotal:	1,338	656	-	1,994	Subtotal:	808	383	-	1,191	Subtotal:	483	211	-	694	Subtotal:	225	91	-	
														•															
GRAND TOTALS	MH Tota			Sheets	Sheets	TSC			Subtotal					Subtotal				eska	Subtotal				Teska	Subtotal			CBBEL 1	Teska	Su
seneral Sheets		532	47	7	-	438		-	532		175	38	-	213		197	42	-	239		44	9	-	53		22	5	-	
Maintenance of Traffic Plans		1,966	127	36	-	1,542		-	1,966		617	170	-	786		694	191	-	885		154	42	-	197		77	21	-	
Civil Roadway Plans		4,080	91	191		1,071		-	4,080		428	1,204	-	1,632		482	1,354	-	1,836		107	301		408		54	150	-	
Civil Site Plans (St. Matthews)		1,110	-	30	8		890	220	1,110		-	356	88	444		-	401	99	500			89	22	111		-	45	11	Ĺ
raffic Signal & Lighting Plans		1,002	53	-	-	1,002		-	1,002		401	-	-	401		451	-	-	451		100	-	-	100		50	-	-	
Structural Plans		1,407	132	-	6	4,067		340	4,407		1,627	-	136	1,763		1,830	-	153	1,983		407	-	34	441		203	-	17	7
	1	1,716	87	45	-	1,140	576	-	1,716		456	230	-	686		513	259	-	772		114	58	-	172		57	29	-	
Cross Sections Track Plans Contract Documents	1	1,688 4,195	79	-	-	1,688	-	-	1,688		675 1,338	- 656	-	675 1,994		760 808	383	-	760 1,191		169 483	- 211	-	169 694		84 225	- 91	-	

Printed on: 8/13/2024 Page 4 of 4



COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET FIXED RAISE

Local Public Agency

Lake County Division of Transportation

County Lake Section Number 19-00999-65-ES

Prime Consultant (Firm) Name

TranSystems

Prepared By
Ben Vander Wal

Date 8/13/2024

Consultant / Subconsultant Name

TranSystems

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

Job Number

Remarks

Old McHenry Road (Bonnie Ln to Fairfield Rd)

PAYROLL ESCALATION TABLE

CONTRACT TERM 48 MONTHS

START DATE 10/1/2024

RAISE DATE 4/6/2025

OVERHEAD RATE 134.78%

COMPLEXITY FACTOR 0

% OF RAISE 2.00%

END DATE 9

9/30/2028

ESCALATION PER YEAR

				% of
Year	First Date	Last Date	Months	Contract
 0	10/1/2024	4/6/2025	6	12.50%
1	4/7/2025	4/6/2026	12	25.50%
2	4/7/2026	4/6/2027	12	26.01%
3	4/7/2027	4/6/2028	12	26.53%
4	4/7/2028	10/6/2028	6	13.53%

Local Public Agency	County	Section Number
Lake County Division of Transportat	ion Lake	19-00999-65-ES
Consultant / Subconsultant N	lame	Job Number
TranSystems		

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	4.07%

IDOT PAYROLL RATES ON FILE	CALCULATED RATE
	\$86.00
	\$86.00
	\$78.08
	\$65.94
	\$50.27
	\$86.00
	\$45.81
	\$21.81
	\$57.05
\$33.40	\$34.76
	PAYROLL RATES

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	19-00999-65-ES
Consultant / Subconsultant Name		Job Number
TranSystems		

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant
CBBEL	966,863.00	96,686.30
Teska	49,407.00	4,940.70
Wang	33,192.00	3,319.20
HBK	13,963.00	1,396.30
Huff&Huff	17,176.00	1,717.60
Mathewson		
		_

Total 1,080,601.00 108,060.10

NOTE: Only subconsultants who fill out a cost estimate that splits out direct labor may be listed on this sheet.

Lake County Division of Transportation

TranSystems

Consultant / Subconsultant Name

County Lake

Section Number

19-00999-65-ES

Job Number

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
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage	Up to state rate maximum	5280	\$0.66	\$3,458.40
(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			\$0.00
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)	250	\$20.00	\$5,000.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)	20	\$40.00	\$800.00
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
Copies B/W 11x17	Actual Cost	40500	\$0.50	\$20,250.00
Copies Color 8.5x11	Actual Cost	22500	\$0.10	\$2,250.00
Traffic Counts/Geofencing	Actual Cost (See separate calculations)			\$0.00
				\$0.00

Printed 8/13/2024 4:24 PM

TOTAL DIRECT COSTS:

09/23) \$31,758 46CT COSTS

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	19-00999-65-ES
Consultant / Subconsultant Name		Job Number
TranSystems		

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE	134.78%	COMPLEXITY FACTOR	0

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Data Collection and Review	10W totals)	188	10,583	14,264	3,492	OTTLERS	28,339	0.35%
Value Engineering Study Support		108	8,467	11,412	2,794		22,673	0.33%
Supplemental Topographic Survey		32	1,971	2,656	650		5,277	0.20%
Utility Coordination		1532	86,956	117,199	28,695		232,850	2.91%
Design Studies and Reports		1184	67,339	90,759	22,222		180,320	2.25%
Land Acquisition Services		180	11,137	15,011	3,675		29,823	0.37%
Geotechnical Engineering		72	4,896	6,599	1,616		13,111	0.16%
Special Waste		184	11,305	15,237	3,731		30,273	0.38%
Environmental Permits		350	21,112	28,455	6,967		56,534	0.71%
Landscape Design and Aesthetics		32	1,821	2,454	601		4,876	0.06%
Traffic Signal (Quentin Rd at Highland I	Dr)	719	40,840	55,044	13,477		109,361	1.36%
Building Demo Advanced Contract Doc	·s	480	27,257	36,737	8,995		72,989	0.91%
Preliminary PS&E (60%)	11,320	5717	324,460	437,307	107,072		868,839	10.84%
Pre-Final PS&E (95%)	12,735	5735	325,650	438,912	107,465		872,027	10.88%
Final PS&E (100%)	2,830	1578	89,526	120,663	29,543		239,732	2.99%
Bid Set	1,415	772	43,818	59,058	14,460		117,336	1.46%
Agency Coordination and Meetings	3,458	1232	73,695	99,326	24,319		197,340	2.46%
Public Outreach and Stakeholder Coord	dination	357	21,514	28,997	7,100		57,611	0.72%
Financial Plan and Funding Assistance		844	49,481	66,690	16,329		132,500	1.65%
PM and Administration		636	38,136	51,400	12,585		102,121	1.27%
QA/QC and Constructability Reviews		643	37,631	50,719	12,418		100,768	1.26%
Bid Phase Support		436	25,555	34,443	8,433		68,431	0.85%
			-	-	-		-	
CBBEL			-	-	-	2,690,778	2,690,778	33.58%
Teska			-	-	-	121,029	121,029	1.51%
Wang			-	-	-	267,505	267,505	3.34%
HBK			-	-	-	48,841	48,841	0.61%
Huff&Huff			-	-	-	122,971	122,971	1.53%
Mathewson			-	-	-	1,156,600	1,156,600	14.44%
Subconsultant DL							\$29,334.51	
Direct Costs Total ===>	\$31,758.40						\$31,758.40	0.40%
TOTALS		23011	1,323,150	1,783,342	436,639	4,407,724	8,011,948	100.00%

3,106,492

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	19-00999-65-ES
Consultant / Subconsultant Name		Job Number
TranSystems		

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

						VII (1 L O						,			SHEET	1	OF	4	-
PAYROLL	AVG	TOTAL PRO	J. RATES		Data Collection and Review			Value E	Value Engineering Study Support			Supplemental Topographic Survey			ility Coordination		Des	ign Studie Reports	
	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
Engineer 5 (E5)	86.00	1,179.0	5.12%	4.41	8	4.26%	3.66	18	16.67%	14.33				76	4.96%	4.27	60	5.07%	4.36
Engineer 4 (E4)	86.00	1,116.0	4.85%	4.17	8	4.26%	3.66	20	18.52%	15.93				76	4.96%	4.27	60	5.07%	4.36
Engineer 3 (E3)	78.08	3,836.0	16.67%	13.02	10	5.32%	4.15	22	20.37%	15.91	4	12.50%	9.76	230	15.01%	11.72	178	15.03%	11.74
Engineer 2 (E2)	65.94	4,719.0	20.51%	13.52	58	30.85%	20.34	18	16.67%	10.99	16	50.00%	32.97	306	19.97%	13.17	236	19.93%	13.14
Engineer 1 (E1)	50.27	8,148.0	35.41%	17.80	82	43.62%	21.92	8	7.41%	3.72	12	37.50%	18.85	584	38.12%	19.16	450	38.01%	19.10
Construction Services 5 (C	86.00	46.0	0.20%	0.17				22	20.37%	17.52				0			0		
Technician 3 (T3)	45.81	430.0	1.87%	0.86										30	1.96%	0.90	24	2.03%	0.93
Technician 1 (T1)	21.81	3,239.0	14.08%	3.07	22	11.70%	2.55							230	15.01%	3.27	176	14.86%	3.24
Administrative 3 (A3)	57.05	38.0	0.17%	0.09															
Administrative 2 (A2)	34.76	260.0	1.13%	0.39															
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TOTALS		23011.0	100%	\$57.50	188.0	100.00%	\$56.29	108.0	100%	\$78.40	32.0	100%	\$61.58	1532.0	100%	\$56.76	1184.0	100%	\$56.87

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	19-00999-65-ES
Consultant / Subconsultant Name		Job Number
TranSystems		

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

															SHEET	2	OF	4	=
PAYROLL	AVG	Land A	cquisition	Services	Geotec	hnical Eng	jineering	Ş	Special Was	ste	Envir	onmental F	Permits	Landscape Design and rmits Aesthetics				Signal (Qu t Highland	
	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
Engineer 5 (E5)	86.00	10	5.56%	4.78	3	4.17%	3.58	8	4.35%	3.74	16	4.57%	3.93				36	5.01%	4.31
Engineer 4 (E4)	86.00	10	5.56%	4.78	4	5.56%	4.78	8	4.35%	3.74	16	4.57%	3.93				36	5.01%	4.31
Engineer 3 (E3)	78.08	46	25.56%	19.95	37	51.39%	40.13	52	28.26%	22.07	50	14.29%	11.15	2	6.25%	4.88	108	15.02%	11.73
Engineer 2 (E2)	65.94	46	25.56%	16.85	18	25.00%	16.48	46	25.00%	16.48	90	25.71%	16.96	10	31.25%	20.61	144	20.03%	13.21
Engineer 1 (E1)	50.27	46	25.56%	12.85				46	25.00%	12.57	154	44.00%	22.12	20	62.50%	31.42	273	37.97%	19.09
Construction Services 5 (CS5	86.00										4	1.14%	0.98						
Technician 3 (T3)	45.81																14	1.95%	0.89
Technician 1 (T1)	21.81	22	12.22%	2.67	10	13.89%	3.03	24	13.04%	2.85	20	5.71%	1.25				108	15.02%	3.28
Administrative 3 (A3)	57.05																		
Administrative 2 (A2)	34.76																		
707110		400.0	4000/	#04.0 7	70.0	4000/	000.00	404.0	4000/	004.44	050.0	1000/	400.00	00.0	4000/	450.00	740.6	1000/	050.6 2
TOTALS		180.0	100%	\$61.87	72.0	100%	\$68.00	184.0	100%	\$61.44	350.0	100%	\$60.32	32.0	100%	\$56.90	719.0	100%	\$56.80

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	19-00999-65-ES
Consultant / Subconsultant Name		Job Number
TranSvstems		

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 3 OF 4

PAYROLL	AVG		g Demo Ac ontract Do		Prelim	inary PS&	E (60%)	Pre-F	9-Final PS&E (95%) Final PS&E (100%) Bid Set					Agency Coordination and 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
Engineer 5 (E5)	86.00	24	5.00%	4.30	286	5.00%	4.30	286	4.99%	4.29	78	4.94%	4.25	38	4.92%	4.23	52	4.22%	3.63
Engineer 4 (E4)	86.00	24	5.00%	4.30	286	5.00%	4.30	286	4.99%	4.29	78	4.94%	4.25	38	4.92%	4.23	34	2.76%	2.37
Engineer 3 (E3)	78.08	72	15.00%	11.71	855	14.96%	11.68	860	15.00%	11.71	236	14.96%	11.68	116	15.03%	11.73	308	25.00%	19.52
Engineer 2 (E2)	65.94	96	20.00%	13.19	1142	19.98%	13.17	1148	20.02%	13.20	315	19.96%	13.16	154	19.95%	13.15	302	24.51%	16.16
Engineer 1 (E1)	50.27	182	37.92%	19.06	2172	37.99%	19.10	2180	38.01%	19.11	600	38.02%	19.11	295	38.21%	19.21	302	24.51%	12.32
Construction Services 5 (CS5	86.00																14	1.14%	0.98
Technician 3 (T3)	45.81	10	2.08%	0.95	114	1.99%	0.91	115	2.01%	0.92	35	2.22%	1.02	16	2.07%	0.95	48	3.90%	1.78
Technician 1 (T1)	21.81	72	15.00%	3.27	862	15.08%	3.29	860	15.00%	3.27	236	14.96%	3.26	115	14.90%	3.25	172	13.96%	3.05
Administrative 3 (A3)	57.05																		
Administrative 2 (A2)	34.76																		
TOTALS		480.0	100%	\$56.79	5717.0	100%	\$56.75	5735.0	100%	\$56.78	1578.0	100%	\$56.73	772.0	100%	\$56.76	1232.0	100%	\$59.82

BLR 05514 (Rev. 02/09/23)

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	19-00999-65-ES
Consultant / Subconsultant Name		Job Number
TranSystems		
	AVERAGE HOURLY PROJECT RATES	

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET SHEET 4 OF 4

	_																		
PAYROLL	AVG		lic Outreac older Coor			al Plan and Assistanc	_		nd Adminis		QA/QC	and Constr Reviews	uctability		Phase Su	pport			
	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
Engineer 5 (E5)	86.00	18	5.04%	4.34	38	4.50%	3.87	68	10.69%	9.19	32	4.98%	4.28	24	5.50%	4.73			
Engineer 4 (E4)	86.00	38	10.64%	9.15	38	4.50%	3.87				32	4.98%	4.28	24	5.50%	4.73			
Engineer 3 (E3)	78.08	75	21.01%	16.40	145	17.18%	13.41	270	42.45%	33.15	96	14.93%	11.66	64	14.68%	11.46			
Engineer 2 (E2)	65.94	94	26.33%	17.36	212	25.12%	16.56				158	24.57%	16.20	110	25.23%	16.64			
Engineer 1 (E1)	50.27	62	17.37%	8.73	305	36.14%	18.16				225	34.99%	17.59	150	34.40%	17.29			
Construction Services 5 (CS	86.00										6	0.93%	0.80						
Technician 3 (T3)	45.81										14	2.18%	1.00	10	2.29%	1.05			
Technician 1 (T1)	21.81	70	19.61%	4.28	106	12.56%	2.74				80	12.44%	2.71	54	12.39%	2.70			
Administrative 3 (A3)	57.05							38	5.97%	3.41									
Administrative 2 (A2)	34.76							260	40.88%	14.21									
TOTALS		357.0	100%	\$60.26	844.0	100%	\$58.63	636.0	100%	\$59.96	643.0	100%	\$58.52	436.0	100%	\$58.61	0.0	0%	\$0.00

TranSystems Design Direct Costs

Old McHenry Road - Bonnie Lane to Fairfield Road (2.4 miles) Phase II Engineering - Lake County Division of Transportation Section No. 19-00999-65-ES 8/13/2024

Direct Cost Summary

Printing	<u>Gene</u>	<u>eral</u>								In house Direct Cost	Outside Direct Cost	
1 Copies (Special Provisions) 500 15 \$0.10 7500		1 Pri	nting									
2 Copies (11x17 Plans) 900 15 \$0.50 13500		Pre	liminary Submittal	<u>Sheets</u>	<u>Copies</u>	\$/copy	No. of Copies	<u>s</u>				
Pre-Final Submittal Sheets Copies SLODY		1	Copies (Special Provisions)	500	15	\$0.10	7500				\$ 750.00	
1 Copies (Special Provisions) 500 15 50.10 7500		2	Copies (11x17 Plans)	900	15	\$0.50	13500				\$ 6,750.00	
Copies (11x17 Plans) 900 15 \$0.50 13500 \$0.50 13500 \$0.50 \$0		Pre	-Final Submittal	<u>Sheets</u>	<u>Copies</u>	\$/copy						
Copies (Special Provisions) 500 15 \$0.10 7500 5 \$750.00		1	Copies (Special Provisions)	500	15	\$0.10	7500				\$ 750.00	
Copies (Special Provisions) 500 15 \$0.10 7500 5 \$0.7500 5		2	Copies (11x17 Plans)	900	15	\$0.50	13500				\$ 6,750.00	
2 Copies (11x17 Plans) 900 15 \$0.50 13500		Fin	al Submittal									
2 Overnight Delivery/Postage/Courier Service Plan Submittal Deliveries 20		1	Copies (Special Provisions)	500	15	\$0.10	7500				\$ 750.00	
Plan Submittal Deliveries 20 \$ 40.00		2	Copies (11x17 Plans)	900	15	\$0.50	13500				\$ 6,750.00	
No. Meetings No. Days South No. Days No. Days No. Days South No. Days No. Days No. Days South No. Days	:	2 Ove					very				\$ 800.00	
No. Meetings No. Meetings No. Days Section No. Days No. Days Section No. Days No. Days No. Days Section No. Days No. D	:	3 Ove			_							
Meetings			250 hours x	\$ 20.00	/hour					\$ 5,000.00		
No. Meetings No. Days Same No. Days							General To	otal		\$ 5,000.00	\$ 23,300.00	
Meetings No. Meetings / Field Checks No. Days Attendee Miles/ Meetings Total Mileage Total Mileage Intended Mileage Molecting Mileage S/mile Mileage Total Mileage Mileage S/mile Mileage Mileage S/mile Mileage S/mileage S/m										,	, ,,,,,,,,,,	\$ 28,300.00
Meetings No. Meetings / Field Checks No. Days Attendee Miles/ Meetings Total Mileage Total Mileage Intended Mileage Molecting Mileage S/mile Mileage Total Mileage Mileage S/mile Mileage Mileage S/mile Mileage S/mileage S/m												
No. Meetings No. Days S Miles Miles No. Days S Meeting S/mile Mileage												
No. Meetings / Field Checks Attendee Moles/ Field Checks Miles/ Meeting Total Mileage 1 Vehicle Expense (meetings, field checks) LCDOT Meeting 24 2 50 \$ 0.655 2,400 \$ 1,572.00 IDOT Meeting 2 2 10 \$ 0.655 40 \$ 26.20 WCL Meeting 3 2 90 \$ 0.655 540 \$ 353.70 Project Meetings (Villag) 10 2 40 \$ 0.655 800 \$ 524.00 Other Meetings 15 1 40 \$ 0.655 600 \$ 393.00 Field Checks 5 2 40 \$ 0.655 400 \$ 262.00 Misc Mileage 5 1 100 \$ 0.655 500 \$ 327.50	Meet	tings	i			No	Avorago			Direct Cost	Direct Cost	
Vehicle Expense (meetings, field checks LCDOT Meeting 24 2 50 \$ 0.655 2,400 \$ 1,572.00 IDOT Meeting 2 2 10 \$ 0.655 40 \$ 26.20 WCL Meetings (Village 10 2 40 \$ 0.655 800 \$ 524.00 Other Meetings 15 1 40 \$ 0.655 600 \$ 393.00 Field Checks 5 2 40 \$ 0.655 500 \$ 327.50 Misc Mileage 5 1 100 \$ 0.655 500 \$ 327.50 Meeting Mileage 5 Meeting \$/mile Mileage \$/mileage \$/mil				No Meetings					Total			
1 Vehicle Expense (meetings, field checks) LCDOT Meeting 24 2 50 \$ 0.655 2,400 \$ 1,572.00 IDOT Meeting 2 2 10 \$ 0.655 40 \$ 26.20 WCL Meeting 3 2 90 \$ 0.655 540 \$ 353.70 Project Meetings (Village 10 2 40 \$ 0.655 800 \$ 524.00 Other Meetings 15 1 40 \$ 0.655 600 \$ 393.00 Field Checks 5 2 40 \$ 0.655 400 \$ 262.00 Misc Mileage 5 1 100 \$ 0.655 500 \$ 327.50					No. Days			\$/mile				
IDOT Meeting 2 2 10 \$ 0.655 40 \$ 26.20 WCL Meeting 3 2 90 \$ 0.655 540 \$ 353.70 Project Meetings (Village 10 2 40 \$ 0.655 800 \$ 524.00 Other Meetings 15 1 40 \$ 0.655 600 \$ 393.00 Field Checks 5 2 40 \$ 0.655 400 \$ 262.00 Misc Mileage 5 1 100 \$ 0.655 500 \$ 327.50		1 Veh	nicle Expense (meetings, field checks)	,								
WCL Meeting 3 2 90 \$ 0.655 540 \$ 353.70 Project Meetings (Villag) 10 2 40 \$ 0.655 800 \$ 524.00 Other Meetings 15 1 40 \$ 0.655 600 \$ 393.00 Field Checks 5 2 40 \$ 0.655 400 \$ 262.00 Misc Mileage 5 1 100 \$ 0.655 500 \$ 327.50			LCDOT Meeting	24		2	50	\$ 0.655	2,400	\$ 1,572.00		
Project Meetings (Villag) 10 2 40 \$ 0.655 800 \$ 524.00 Other Meetings 15 1 40 \$ 0.655 600 \$ 393.00 Field Checks 5 2 40 \$ 0.655 400 \$ 262.00 Misc Mileage 5 1 100 \$ 0.655 500 \$ 327.50			IDOT Meeting	2		2	10	\$ 0.655	40	\$ 26.20		
Other Meetings 15 1 40 \$ 0.655 600 \$ 393.00 Field Checks 5 2 40 \$ 0.655 400 \$ 262.00 Misc Mileage 5 1 100 \$ 0.655 500 \$ 327.50			WCL Meeting	3		2	90	\$ 0.655	540	\$ 353.70		
Other Meetings 15 1 40 \$ 0.655 600 \$ 393.00 Field Checks 5 2 40 \$ 0.655 400 \$ 262.00 Misc Mileage 5 1 100 \$ 0.655 500 \$ 327.50			Project Meetings (Villa	g: 10		2	40	\$ 0.655	800	\$ 524.00		
Field Checks 5 2 40 \$ 0.655 400 \$ 262.00 Misc Mileage 5 1 100 \$ 0.655 500 \$ 327.50				_		1	40	\$ 0.655	600	\$ 393.00		
			9	5		2	40	•		-		
5 280			Misc Mileage	5		1	100	\$ 0.655	500	\$ 327.50		
									5,280	\$ 3,458.40	\$ -	

TOTAL DIRECT COSTS \$ 31,758.40

Meetings Total

\$ 3,458.40

Christopher B. Burke Engineering, Ltd. (CBBEL)

Contract Scope and CECS

CHRISTOPHER B. BURKE ENGINEERING, LTD. SCOPE OF SERVICES

Old McHenry Crossings (Forest Drive to Fairfield Road)

Lake County Division of Transportation Lake County, Illinois

August 13, 2024
PHASE II – DESIGN ENGINEERING SERVICES

CBBEL will be providing services as stated within the main TranSystems scope of work (scope) and Exhibit B Manhour Estimate for Old McHenry Crossings from Forest Drive to Fairfield Road. Generally, CBBEL will be assisting roadway design (Midlothian Road), St. Matthew parking lot reconfiguration, drainage design, environmental studies and permitting, supplemental survey, and plat of highway.

The following scope of work provides an additional level of detail for Task 9, Environmental Studies & Permitting that Christopher B. Burke Engineering, Ltd. will be performing. The task numbers below align with the tasks in the main TranSystems scope of work and are referenced accordingly.

Task 9 – Permits

This task will prepare, submit, and coordinate obtaining permits and other approvals needed for project construction.

CBBEL will prepare, submit, and coordinate obtaining permits and other approvals needed for project construction from the following agencies: U.S. Army Corps of Engineers (USACE), State Historic Preservation Office (SHPO), IDOT, Illinois Environmental Protection Agency (IEPA), and the Lake County Stormwater Management Commission (LCSMC).

Before and during the permit review process, we expect to have meetings with the regulatory/review agencies and the client, as necessary. We also expect to prepare responses to comments received during the review process. We have included budget to cover the cost of submittal of two responses to comments. Time for meetings is covered under Task 17 – Agency Coordination and Meetings. Utility permit applications will be prepared under Task 4.

Task 9A – Wetland and Waters Field Delineation Update:

A wetland/other surface water delineation of the entire OMX project corridor was completed by CBBEL in August 2021 as part of the Phase I study. A supplemental wetland delineation of the OMX addendum study area was completed in May 2023. Approved delineations are typically valid for up to five (5) years. Refer to Task 9B for additional information. Phase II completion is anticipated in 2026 depending on land acquisition and obtaining requisite permits.

Given the project timing and the length of time since the last field visit, a supplemental investigation of the OMX project corridor will be completed to update the limits of the previously identified wetlands/other surface waters to identify any new wetlands/other surface waters that are now present within the study area. Also, during the site visit, wildlife and plant community qualities will be assessed. The limits of wetlands will be field staked and located using a submeter accuracy handheld GPS unit.

The results of the field reconnaissance will be summarized in an updated letter report. The wetlands' generalized quality ratings, according to the Swink and Wilhelm Methodology (1994), will be included along with exhibits depicting the approximate wetland and project boundaries, National Wetland Inventory, Lake County Wetland Inventory, Soil Survey, floodplain, Hydrologic Atlas, USGS topography, site photographs, and the USACE Routine On-Site Data Forms. The wetland delineation will be depicted on an aerial photograph along with all data point locations clearly identified.

Task 9B – Boundary Confirmation and Jurisdictional Determination:

During the Phase I study, preliminary wetland coordination was completed with the USACE and LCSMC for the OMX project corridor, including:

- The USACE completed a Jurisdictional Determination (JD), dated 09/13/2022. USACE JDs are typically valid for five (5) years. However, please note that this JD may no longer be valid due to changes in waters of the US definitions that took place in 2023.
- The LCSMC completed a Preliminary JD (PJD) in the presence of the USACE for the OMX addendum study areas, dated 10/31/2023. The PJD is valid for three (3) years unless new information warrants a revision before the expiration date.
- LCSMC prepared an Isolated Waters of Lake County (IWLC) Exclusion Determination letter, dated 06/14/2023. The findings of the IWLC Exclusion Determination are valid for three (3) years unless new information warrants a revision before the expiration date.

This task includes updating the JD/PJD and IWLC Exclusion Determination, as necessary, for project permitting.

A wetland boundary confirmation for the OMX project corridor was not completed as part of Phase I. The USACE, LCSMC, and applicable certified community (or deferment to LCSMC) will be requested to visit the site to confirm the delineated wetland boundaries. To accomplish this task, the wetland boundary flags will be refreshed as part of Task 9A.

Task 9C – Threatened & Endangered Species Coordination:

Threatened & Endangered (T&E) species review/coordination was completed by the IDOT Natural Resources Unit during Phase I. However, T&E species clearances are only valid for two (2) years, and will need to be renewed during the permit process and prior to the start of construction. This task assumes that the T&E species clearance will be updated by IDOT during Phase II, and that the IDOT T&E species clearance will be sufficient for permitting. This task will be completed for the project corridor.

This task also includes updating the previously completed Bridge/Structure Bat Assessments (BBA) completed during Phase I. BBAs were required for the Phase I Natural Resource Review and are only valid for two (2) years. IDOT will not allow a project to proceed to letting or be awarded without a current/valid BBA.

There are no bridges located within the project corridor. However, the BBAs will be completed at applicable culverts (e.g., culverts with a vertical opening ≥48-inches) within the project limits. Based on Phase I data collection, this task includes completion of a BBA at up to two (2) existing culverts. This task includes coordination, fieldwork, photo log, location map, and BBA forms. Two CBBEL staff will complete the BBA fieldwork. This task assumes that the project will have one (1) letting.

This task does not include a bat survey (e.g., mist-netting), acoustic monitoring, or other detailed search for T&E species. A supplemental task will be required if additional T&E documentation or submittals are required/requested by an agency during permitting (e.g., Incidental Take Authorization, Biological Assessment).

Task 9D – Supplemental Tree Survey, Impact Evaluation, and Tree Mitigation Plan:
Trees were surveyed during the Phase I study. Supplemental tree survey may be required. If necessary, additional trees will be located using a sub-meter accuracy handheld GPS unit. In accordance with the latest Northern Long-Eared Bat (NLEB) guidance from IDOT, trees greater than or equal to 3-inches diameter at breast height (dbh) along the project corridor will be located. CBBEL will also locate landscape trees (regardless of size). All identified trees will be tabulated and evaluated with respect to species, condition, and form. This task will be completed for the project corridor where (through additional coordination) it is determined that additional tree data is necessary.

Additional tree impact evaluation will be completed as necessary to avoid/minimize impacts with respect to detailed engineering design, and tree mitigation will be discussed in greater detail with the Village of Hawthorn Woods and others as necessary. This task also includes assistance with the Tree Preservation Plan, if necessary, based on coordination with the Village of Hawthorn Woods.

A Tree Mitigation Plan will be prepared for tree impacts, as necessary. This task involves coordination and preparation of a Tree Mitigation Plan based on Village of Hawthorn Woods requirements as practical and feasible. Selection of replacement tree species will consider the Village of Hawthorn Woods Tree Preservation and Landscaping requirements. This task will complement the Landscape Design task(s) completed by others.

Task 9E - Lake County Watershed Development Ordinance Permit Application:

A Lake County Watershed Development Ordinance (WDO) permit application will be submitted to LCSMC (and Village of Hawthorn Woods), as appropriate. At this time, it is anticipated that two (2) separate permit applications will be prepared for (i.e., one for the proposed roadway improvements and one for the proposed improvements at St Matthew Lutheran Church Campus. CBBEL will prepare and compile the required application forms, schedules, plans, and calculations related to stormwater management, floodplain, wetlands-buffer areas, outfalls, qualified sewer construction, and erosion/sediment control for submittal. CBBEL will schedule a pre-application meeting with LCSMC prior to the permit submittal, if necessary.

No Illinois Department of Natural Resources-Office of Water Resources (IDNR-OWR) floodway construction permit is required because there is no regulatory floodplain or floodway within the project limit.

Task 9F – USACE Section 404 Clean Water Act Permit Application:

Based on the Phase I study, approximately 1 acre of USACE jurisdictional wetlands/waters of the US may be impacted by the proposed improvements. Consequently, this project will be processed by the USACE as a Section 404 Clean Water Act (CWA) Individual Permit (IP). A single IP application will be prepared for the project. Due to the anticipated time gaps between the OMX contracts and independent utility, this scope assumes that Contracts 2 and 3 will be permitted separately. However, please note that the USACE JD that was completed for the overall OMX project during Phase I may no longer be valid due to changes in waters of the US definitions that took place in 2023. A request for an updated JD/PJD will be completed under a separate task, as necessary. A pre-application meeting will be scheduled with the USACE, as necessary, as an early step in the permitting process to discuss the OMX permitting strategy,

Best Management Practices (BMPs), proposed wetland mitigation, and project corridor characteristics (e.g., Forest Lake, cultural resources).

The required exhibits, specifications, data, and project information for the proposed improvements will be compiled and assembled in an IP application package to the USACE and other regulatory/resource agencies, as necessary. The following information will be required as part of the application:

- Narrative description of proposed BMPs
- Post-construction management and monitoring plan for BMPs (activities to be completed as part of routine site maintenance)
- Plan and profile drawings for road crossings
- Planting plan for wet bottom detention basins
- Alternative Sites Analysis to consider alternative site designs which may be constructed and that may have less impact on aquatic resources
- Proposed compensatory wetland mitigation strategy

For the overall OMX project, compensatory wetland mitigation will likely be provided at an offsite USACE approved mitigation bank within the same watershed as the impacted resource: (a) Buffalo Creek Wetland Bank - Des Plaines River basin, and (b) Big Sag Wetland Bank - Fox River basin.

The project team will coordinate development of the permitting documents with the USACE and other resource agencies, as necessary. This task will likely require meeting(s) with regulatory/resource agencies to coordinate permitting activities. Agency meetings will be completed under a separate task.

The IP is contingent upon receipt of Section 401 CWA Individual Water Quality Certification (WQC) from the Illinois Environmental Protection Agency (IEPA). This work effort will be completed under a separate task. The IP application also requires historic preservation and T&E species compliance. Historic preservation and T&E species compliance will also be completed under separate tasks.

The IP process requires a public notice and coordination with other resource agencies. Because Forest Lake is considered a valuable resource to the Forest Lake community, we expect the Forest Lake Community Association and potentially other Conservation Groups and agencies to comment on the project with respect to potential downstream impacts. This task includes preparation of responses to public notice comments.

It is not unusual for the IP process to take a year (or more) to complete. Below is the typical chronology of IP application processing. Please note that actual review times may vary and often are based on the level of detail necessary to respond to public notice comments.

- Submit Application
- 45 days receive letter from USACE acknowledging application

- 45 days USACE issues public notice
- Public notice posted for 30 days
- 30 days to receive comments back from USACE after notice is closed
- 30 days to respond to comments received.

After the process listed above has been completed, the clock stops for the USACE, and there is typically 2-6 months (or more) of negotiation with the USACE. How long it will take to negotiate an acceptable permit is an unknown factor. Once the special conditions of the IP are agreed to, expect 1-2 months for the USACE to prepare the decision document and issue the IP.

The project team will offer to prepare the first draft of the decision document for the USACE to help move the process along. This offer has been accepted in the past for other projects by the USACE.

Task 9G – Soil Erosion & Sediment Control Plan Review/Coordination with LSCMC:

This task includes preparation of a submittal to LCSMC to obtain approval of the Soil Erosion & Sediment Control Plan for the proposed improvements. This coordination is typically required by the USACE as part of the Section 404 CWA permitting process. Preparation of the Soil Erosion & Sediment Control Plan is included under a separate task. This task also includes response to LCSMC comments.

Task 9H – Best Management Practice Design

As noted above, Forest Lake is considered a valuable resource to the Forest Lake community. Under existing and proposed conditions, Forest Lake receives storm water runoff from the surrounding area, including the OMX project area. The USACE requires, under the Section 404 CWA review, that to the extent practicable proposed activities be designed so that surface water runoff does not directly discharge into wetlands/waters of the US but should pass through BMPs prior to discharge. Therefore, BMP opportunity areas must be identified and evaluated for viability to protect downstream environments.

Potential BMP opportunity area locations were identified as part of the Phase I study. These locations, and potentially others will be evaluated in greater detail in Phase II. Viable areas will be incorporated into the final design. The viability determination will include coordination with the regulatory and resource agencies. The viability of each BMP opportunity area and type of BMP to be installed will depend on several factors, including but not limited to, site constraints, geology, groundwater, soil conditions, slope, drainage, final engineering design, target pollutants, location, and agency coordination.

The viability evaluation will include collection of data including geology, drainage area, soils, and topography. This task will require that soil samples be collected by others approximately every 50 to 100 feet within the potential BMP opportunity areas. At the proposed detention basin locations determined during Phase I, up to three (3) equally spaced soil borings will be completed at each basin location. Existing topography will be surveyed (as part of a separate task) within the BMP opportunity areas and 30 feet beyond their Phase I limits.

Based on the results of the BMP opportunity area feasibility evaluation, identified BMP options will be submitted to the USACE for review during the IP process. This task also includes the preparation of short and long-term BMP maintenance and monitoring plans that will be submitted to the USACE for consideration during their review process.

Task 9I – Interagency Wetland Policy Act Coordination:

Wetland Clearance to address Interagency Wetland Policy Act (IWPA) requirements was coordinated through IDOT during the Phase I study. The IDOT review for compliance under IWPA – Part 1090 clears the project for letting with respect to wetlands.

The IWPA regulates all vegetated wetland areas but does not regulate the unvegetated portions of waters of the US or other surface waters. Based on preliminary engineering and coordination during Phase I for the overall OMX project corridor, approximately 3 acres of wetland may be impacted by the proposed improvements, and many of the wetlands that may be impacted by the project are USACE jurisdictional. During CWA permitting, the project team will look for opportunities to avoid/minimize wetland impacts.

This task will be completed once final wetland impact totals have been determined. This task includes IWPA-related agency coordination, preparation of an updated Wetland Impact Evaluation (WIE) form and exhibits. The updated WIE documents will be submitted for IDOT review/approval and to refine the IWPA required wetland mitigation acreage total based on Phase II engineering design.

Task 9J – Section 401 CWA Individual Water Quality Certification:

The USACE IP is contingent upon receipt of an IEPA Section 401 CWA Individual Water Quality Certification (WQC). This task includes preparation and submittal of the required documentation to the IEPA for an Individual WQC application that will cover the project corridor. Individual WQC will also require an anti-degradation review, which is subject to public review. This task includes response to comments.

A pollutant loading analysis will be completed as part of the Individual CWA permitting under a separate task. The pollutant loading analysis will be used to evaluate the potential effect of the proposed improvements on water quality. The analysis will estimate pollutant load concentrations for typical highway storm water runoff constituents and other pollutants of concern.

This task assumes that fish, aquatic macroinvertebrate, mussel, and/or water quality sampling data will be available and acceptable to IEPA, if requested as part of the Section 401 WQC review (e.g., for Forest Lake and unnamed tributaries along the project corridor). A supplemental proposal will be required if additional field data/sampling is necessary.

Individual WQC can take approximately 1-6 months longer than the IP process to complete.

Task 9K – Water Quality Pollutant Loading Analysis:

The overall OMX project corridor is located within two watersheds: the Des Plaines River and the Upper Fox River Watersheds. The drainage divide is located near Fairfield Road. Areas east of Fairfield Road near the OMX project corridor generally drain east/southeast with Forest Lake as the primary outlet for Old McHenry Road drainage. Areas west of Fairfield Road near the OMX project corridor generally drain south and west. The majority of the improvements are located east of Fairfield Road.

As part of the Phase I study, a water quality pollutant loading analysis was prepared for the overall OMX project corridor using the Stochastic Empirical Loading and Dilution Model (SELDM) to determine the potential effect of stormwater runoff on Forest Lake. SELDM was developed by the US Geological Survey (USGS) in cooperation with the Federal Highway Administration (FHWA) as a stormwater runoff quality modeling tool. It is typically used for

transportation projects in Illinois that require a pollutant loading analysis. The Phase I SELDM analysis evaluated three scenarios: existing condition, post-construction condition without BMPs, and post-construction condition with BMPs. Typical roadway pollutants (e.g., heavy metals) and other pollutants of concern (i.e., total suspended solids and total phosphorus) were evaluated during the Phase I study. The Phase I SELDM analysis will be refined for the proposed improvements as part of the Section 404 CWA Individual Permit process. This task assumes one (1) iteration and that IEPA will accept the SELDM analysis results and Phase I methodology – as typically used for roadway projects. The proposed methodology will be confirmed with IEPA as part of the Section 401 CWA Individual WQC process.

Task 9L – Prepare the Storm Water Pollution Prevention Plan and Notice of Intent:

This task includes preparation of a Storm Water Pollution Prevention Plan (SWPPP) in accordance with Part IV of the General National Pollutant Discharge Elimination System (NPDES) Permit #ILR10. This task assumes that the IDOT BDE 2342 form will be used for the SWPPP, and that one (1) SWPPP will be prepared to supplement the special provisions. Completion of this task will require narrative, coordination with other project team members, Soil Erosion & Sediment Control Plans (to be completed under a separate task), and signed certification statements from all contractors, subcontractors, and the operator as identified in the SWPPP.

The SWPPP is part of the Notice of Intent (NOI) submitted to the IEPA to obtain coverage under the General NPDES ILR10 Permit. A NOI will be prepared for the proposed improvements. The NOI requires documentation of historic preservation and T&E species compliance. Historic preservation and T&E species coordination/compliance will be completed under separate tasks.

Task 9M – Historic Preservation Coordination:

Based on the Phase I study, there are six (6) resources along the overall OMX project corridor that warrant National Register of Historic Places (NRHP) consideration. An Assessment of Effects (AOE) Report was prepared for the overall OMX project corridor. Based on the AOE, in the opinion of the OMX project team architectural historian, the proposed improvements will have "No Adverse Effect" on the identified NRHP eligible resources. The AOE is currently under review by the IDOT Cultural Resources Unit.

Two (2) of the identified NRHP eligible resources are located adjacent to the project limits. This task assumes that Cultural Resources Clearance for the OMX project may require that the State Historic Preservation Office (SHPO) be given the opportunity to review and approve the Phase II plans and specifications prior to initiation of construction activities, and that the Cultural Resources coordination for this project will not be complete until the SHPO has reviewed and approved the final plans and specifications.

We presume that the IDOT Cultural Resources Unit will coordinate the review with the SHPO as soon as final plans and specifications are available. This task involves coordination with the IDOT Cultural Resources Unit, including submittal of the Phase II plans and specifications and response to comments.

Task 9N – Preliminary Environmental Site Assessment (PESA) Update/Validation:

A Preliminary Environmental Site Assessment (PESA) was completed as part of the Phase I studies for the overall OMX project corridor. The results of the PESA identify areas of Recognized Environmental Conditions (RECs) for avoidance or which may require more detailed analysis during subsequent Phase II engineering. IDOT previously completed the PESA for the State right-of-way portions of the overall OMX project corridor. CBBEL completed the PESA for the non-State right-of-way portions of the overall OMX project corridor. The results

of the PESA are typically valid for up to three (3) years. IDOT requires that the PESA be valid at the time of letting.

Phase II completion is anticipated in 2026 depending on land acquisition and obtaining requisite permits. This task includes coordination with IDOT to update/validate the PESA for the State right-of-way portion of the project limits (i.e., Midlothian Road). This task also includes updating/validating the PESA for the non-State right-of-way portion of the project area, as necessary. This task includes a field visit, database review, and updated PESA report.

The PESA Response, Preliminary Site Investigation (PSI), and any necessary asbestos surveys required will be completed under separate tasks.





Local Public Agency

Lake County Division of Transportation

Prime Consultant (Firm) Name

Christopher B. Burke Engineering, Ltd.

Consultant / Subconsultant Name

Christopher B. Burke Engineering, Ltd.

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

County **Section Number** Lake

19-00099-65-ES

Date

8/13/2024

Remarks

Subconsultant to TranSystems for Design Engineering and Plat of Highway for Old McHenry Road from Forest Drive to Fairfield Road.

Prepared By

Matt Huffman

Job Number

PAYROLL ESCALATION TABLE

CONTRACT TERM 48 MONTHS START DATE 10/1/2024 RAISE DATE 1/1/2025

OVERHEAD RATE 132.88% **COMPLEXITY FACTOR** % OF RAISE 2.00%

END DATE 9/30/2028

ESCALATION PER YEAR

				% of	
Year	First Date	Last Date	Months	Contract	
0	10/1/2024	1/1/2025	3	6.25%	
1	1/2/2025	1/1/2026	12	25.50%	
2	1/2/2026	1/1/2027	12	26.01%	
3	1/2/2027	1/1/2028	12	26.53%	
4	1/2/2028	10/1/2028	9	20.30%	

The total escalation =

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	4.59%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Engineer VI	\$82.63	\$86.00
Engineer V	\$72.59	\$75.92
Engineer IV	\$59.41	\$62.13
Engineer III	\$46.80	\$48.95
Engineer I/II	\$36.22	\$37.88
Survey V	\$85.04	\$86.00
Survey IV	\$76.25	\$79.75
Survey III	\$66.63	\$69.69
Survey II	\$54.50	\$57.00
Survey I	\$38.75	\$40.53
Engineering Technician V	\$68.90	\$72.06
Engineering Technician IV	\$64.03	\$66.97
Engineering Technician III	\$42.86	\$44.83
Engineering Technician I/II	\$30.00	\$31.38
CAD Manager	\$70.83	\$74.08
CAD Technician II	\$53.29	\$55.73
GIS Speciailist III	\$58.00	\$60.66
Landscape Architect	\$65.00	\$67.98
Landscape Designer III	\$40.50	\$42.36
Environmental Resource Specialist V	\$76.01	\$79.50
Environmental Resource Specialist IV	\$60.78	\$63.57
Environmental Resource Specialist III	\$52.75	\$55.17
Environmental Resource Specialist I/II	\$30.92	\$32.34
Environmental Resource Technician	\$45.30	\$47.38
Engineering Intern	\$18.88	\$19.75
Business Operations Department	\$57.69	\$60.34

BLR 05514 (Rev. 02/09/23)

Local	Public	Agency
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Lake County Division of Transportation

Consultant / Subconsultant Name

Christopher B. Burke Engineering, Ltd.

County Lake

Section Number

19-00099-65-ES

Job Number

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	Actual Cost			\$0.00
(per GOVERNOR'S TRAVEL CONTROL BOARD) Lodging Taxes and Fees	(Up to state rate maximum) Actual Cost			\$0.00
(per GOVERNOR'S TRAVEL CONTROL BOARD)	Coach rate, actual cost, requires minimum two weeks'			
Air Fare Vehicle Mileage	notice, with prior IDOT approval			\$0.00
(per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	5000	\$0.69	\$3,425.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day	15	\$65.00	\$975.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost	200	\$0.50	\$100.00
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)	48	\$35.00	\$1,680.00
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	1	\$14,000.00	\$14,000.00
Monuments (Permanent)	Actual Cost	2	\$250.00	\$500.00
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)	30	\$100.00	\$3,000.00
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
Permitting Fees	Actual Cost	1	\$28,500.00	\$28,500.00
Plotting Sheets/Exhibits	Actual Costs	1	\$2,800.00	\$2,800.00
Title Reports	Actual Costs	1	\$41,100.00	\$41,100.00
RR Flaggers & Fees	Actual Costs	15	\$1,600.00	\$24,000.00
	. 15184. 50010	10	Ψ1,000.00	BI R 05514 (Rev -02/

TOTAL DIRECT COSTS: BLP 05514 (Bey 02/19/23)

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	19-00099-65-ES
Consultant / Subconsultant Name		Job Number
Christopher B. Burke Engineering, Ltd		

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE	132.88%	COMPLEXITY FACTOR	0
O VEINILAD NAIL	102.0070	Oom LEXIT AOTON	

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Data Collection and Review	250	132	7,823	10,396	2,582		20,801	0.77%
Value Engineering Support		94	5,466	7,263	1,804		14,533	0.54%
3. Supplemental Topographic Survey	21,500	360	21,073	28,001	6,954		56,028	2.08%
Utility Coordination		500	30,383	40,373	10,026		80,782	3.00%
Design Studies and Reports		2396	132,581	176,174	43,752		352,507	13.10%
Land Acquisition Services	42,100	2486	150,900	200,516	49,797		401,213	14.91%
7. Geotechnical Engineering		16	1,125	1,494	371		2,990	0.11%
8. Special Waste		32	1,951	2,592	644		5,187	0.19%
9. Environemtnal Studies & Permits	48,000	1470	85,463	113,563	28,203		227,229	8.44%
10. Landscape Design and Aesthetics		32	1,758	2,336	580		4,674	0.17%
11. Traffic Signal Design Quentin/High	land	40	2,146	2,852	708		5,706	0.21%
12. Building Demolition Contract Docs	150	50	2,850	3,788	941		7,579	0.28%
13. Preliminary Plans & Documents (6	150	2653	144,089	191,466	47,549		383,104	14.24%
14. Pre-Final Plans & Documents (95%)	250	2629	142,834	189,798	47,135		379,767	14.11%
15. Final Plans & Documents (100%)	250	710	38,658	51,369	12,757		102,784	3.82%
16. Bid Set	2,000	341	18,388	24,434	6,068		48,890	1.82%
17. Agency Coordinaiton and Meetings	4,000	940	57,094	75,866	18,841		151,801	5.64%
18. Public Outreach and Stakeholder C	Coordination	589	33,382	44,358	11,016		88,756	3.30%
19. Financial Plan & Project Funding A		192	12,363	16,428	4,080		32,871	1.22%
20. Project Managemetn and Administr	ration	488	33,093	43,974	10,921		87,988	3.27%
21. QA/QC and Constructability Review	NS	242	17,729	23,559	5,851		47,139	1.75%
22. Bid Support		436	25,714	34,169	8,486		68,369	2.54%
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Subconsultant DL							\$0.00	
Direct Costs Total ===>	\$120,080.00						\$120,080.00	4.46%
TOTALS		16828	966,863	1,284,769	319,066	-	2,690,778	100.00%

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	19-00099-65-ES
Consultant / Subconsultant Name		Job Number
Christopher B. Burke Engineering, Ltd.		

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 1 OF 4

PAYROLL	AVG	TOTAL PROJ	. RATES		1. Dat	1. Data Collection and Review			2. Value Engineering Support			3. Supplemental Topographic Survey			4. Utility Coordination			5. Design Studies and Reports		
	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	
Engineer VI	86.00	498.0	2.96%	2.55	4	3.03%	2.61	12	12.77%	10.98				14	2.80%	2.41	56	2.34%	2.01	
Engineer V	75.92	1,156.0	6.87%	5.22	8	6.06%	4.60	12	12.77%	9.69	10	2.78%	2.11	30	6.00%	4.56	136	5.68%	4.31	
Engineer IV	62.13	2,894.0	17.20%	10.69	16	12.12%	7.53	16	17.02%	10.58				58	11.60%	7.21	544	22.70%	14.11	
Engineer III	48.95	3,284.0	19.52%	9.55	40	30.30%	14.83	24	25.53%	12.50				64	12.80%	6.27	682	28.46%	13.93	
Engineer I/II	37.88	2,559.0	15.21%	5.76				24	25.53%	9.67				108	21.60%	8.18	510	21.29%	8.06	
Survey V	86.00	64.0	0.38%	0.33							6	1.67%	1.43	14	2.80%	2.41				
Survey IV	79.75	448.0	2.66%	2.12							16	4.44%	3.54	58	11.60%	9.25	24	1.00%	0.80	
Survey III	69.69	100.0	0.59%	0.41							16	4.44%	3.10	22	4.40%	3.07				
Survey II	57.00	618.0	3.67%	2.09							104	28.89%	16.47	14	2.80%	1.60				
Survey I	40.53	618.0	3.67%	1.49							104	28.89%	11.71	14	2.80%	1.13				
Engineering Technician V	72.06	0.0																		
Engineering Technician IV	66.97	0.0																		
Engineering Technician III	44.83	0.0																		
Engineering Technician I/II	31.38	0.0																		
CAD Manager	74.08	1,305.0	7.75%	5.74							80	22.22%	16.46	58	11.60%	8.59	170	7.10%	5.26	
CAD Technician II	55.73	712.0	4.23%	2.36							24	6.67%	3.72				170	7.10%	3.95	
GIS Speciailist III	60.66	329.0	1.96%	1.19	40	30.30%	18.38							22	4.40%	2.67	34	1.42%	0.86	
Landscape Architect	67.98	141.0	0.84%	0.57	8	6.06%	4.12										16	0.67%	0.45	
Landscape Designer III	42.36	145.0	0.86%	0.36																
Environmental Resource S	79.50	678.0	4.03%	3.20				4	4.26%	3.38				14	2.80%	2.23	34	1.42%	1.13	
Environmental Resource S	63.57	414.0	2.46%	1.56	8	6.06%	3.85	2	2.13%	1.35				6	1.20%	0.76				
Environmental Resource S	55.17	414.0	2.46%	1.36	8	6.06%	3.34							4	0.80%	0.44	20	0.83%	0.46	
Environmental Resource S	32.34	409.0	2.43%	0.79																
Environmental Resource To	47.38	42.0	0.25%	0.12																
Engineering Intern	19.75	0.0																		
Business Operations Depa	60.34	0.0																		
		0.0																		
TOTALS		16828.0	100%	\$57.46	132.0	100.00%	\$59.27	94.0	100%	\$58.15	360.0	100%	\$58.54	500.0	100%	\$60.77	2396.0	100%	\$55.33	

Printed 8/13/2024 12:10 AM Page 5 of 8

BLR 05514 (Rev. 02/09/23)

Local Public Agency	County	;	Section Number
Lake County Division of Transportation	Lake	1	19-00099-65-ES
Consultant / Subconsultant Name			Job Number
Christopher B. Burke Engineering, Ltd.			

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 2 OF 4

PAYROLL	AVG	6. L	and Acquis Services	sition		Geotechni Engineerin		8.	Special Wa	ıste	9. Envir	onemtnal S Permits	Studies &		dscape De Aesthetic	•		affic Signal entin/High	
	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
Engineer VI	86.00				2	12.50%	10.75				24	1.63%	1.40						
Engineer V	75.92	60	2.41%	1.83	6	37.50%	28.47	6	18.75%	14.23	34	2.31%	1.76	2	6.25%	4.74	8	20.00%	15.18
Engineer IV	62.13	60	2.41%	1.50	8	50.00%	31.07	8	25.00%	15.53	150	10.20%	6.34	4	12.50%	7.77	8	20.00%	12.43
Engineer III	48.95	224	9.01%	4.41				6	18.75%	9.18							12	30.00%	14.68
Engineer I/II	37.88	108	4.34%	1.65				6	18.75%	7.10							12	30.00%	11.36
Survey V	86.00	44	1.77%	1.52															
Survey IV	79.75	344	13.84%	11.03															
Survey III	69.69	62	2.49%	1.74															
Survey II	57.00	500	20.11%	11.46															
Survey I	40.53	500	20.11%	8.15															
Engineering Technician V	72.06																		
Engineering Technician IV	66.97																		
Engineering Technician III	44.83																		
Engineering Technician I/II	31.38																		
CAD Manager	74.08	584	23.49%	17.40															
CAD Technician II	55.73																		
GIS Speciailist III	60.66										90	6.12%	3.71						
Landscape Architect	67.98													10	31.25%	21.24			
Landscape Designer III	42.36													16	50.00%	21.18			
Environmental Resource Specialist V	79.50							6	18.75%	14.91	220	14.97%	11.90						
Environmental Resource Specialist IV	63.57										300	20.41%	12.97						
Environmental Resource Specialist III	55.17										340	23.13%	12.76						
Environmental Resource Specialist I/II	32.34										270	18.37%	5.94						
Environmental Resource Technician	47.38										42	2.86%	1.35						
Engineering Intern	19.75																		
Business Operations Department	60.34																		
TOTALS		2486.0	100%	\$60.70	16.0	100%	\$70.29	32.0	100%	\$60.95	1470.0	100%	\$58.14	32.0	100%	\$54.93	40.0	100%	\$53.66

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	19-00099-65-ES
Consultant / Subconsultant Name	_	Job Number
Christopher B. Burke Engineering, Ltd.		

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 3 OF 4

PAYROLL	AVG		uilding Den Contract Do			eliminary F cuments (6			re-Final Pl cuments (_	. Final Plar cuments (1			16. Bid Se	et	_	ency Coor and Meetin	
	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
Engineer VI	86.00				70	2.64%	2.27	68	2.59%	2.22	20	2.82%	2.42	8	2.35%	2.02	40	4.26%	3.66
Engineer V	75.92	14	28.00%	21.26	138	5.20%	3.95	138	5.25%	3.99	36	5.07%	3.85	18	5.28%	4.01	124	13.19%	10.01
Engineer IV	62.13	12	24.00%	14.91	620	23.37%	14.52	616	23.43%	14.56	168	23.66%	14.70	78	22.87%	14.21	156	16.60%	10.31
Engineer III	48.95	12	24.00%	11.75	690	26.01%	12.73	684	26.02%	12.73	184	25.92%	12.68	90	26.39%	12.92	220	23.40%	11.46
Engineer I/II	37.88	12	24.00%	9.09	572	21.56%	8.17	565	21.49%	8.14	150	21.13%	8.00	74	21.70%	8.22	124	13.19%	5.00
Survey V	86.00																		
Survey IV	79.75																		
Survey III	69.69																		
Survey II	57.00																		
Survey I	40.53																		
Engineering Technician V	72.06																		
Engineering Technician IV	66.97																		
Engineering Technician III	44.83																		
Engineering Technician I/II	31.38																		
CAD Manager	74.08				172	6.48%	4.80	171	6.50%	4.82	48	6.76%	5.01	22	6.45%	4.78			
CAD Technician II	55.73				218	8.22%	4.58	216	8.22%	4.58	58	8.17%	4.55	26	7.62%	4.25			
GIS Speciailist III	60.66																70	7.45%	4.52
Landscape Architect	67.98				28	1.06%	0.72	27	1.03%	0.70	8	1.13%	0.77	4	1.17%	0.80	18	1.91%	1.30
Landscape Designer III	42.36				54	2.04%	0.86	55	2.09%	0.89	14	1.97%	0.84	6	1.76%	0.75			
Environmental Resource Spe	79.50				34	1.28%	1.02	34	1.29%	1.03	8	1.13%	0.90	4	1.17%	0.93	118	12.55%	9.98
Environmental Resource Spe	63.57																44	4.68%	2.98
Environmental Resource Spe	55.17																26	2.77%	1.53
Environmental Resource Spe	32.34				57	2.15%	0.69	55	2.09%	0.68	16	2.25%	0.73	11	3.23%	1.04			
Environmental Resource Tecl	47.38																		
Engineering Intern	19.75																		
Business Operations Departn	60.34																		
TOTALS		50.0	100%	\$57.01	2653.0	100%	\$54.31	2629.0	100%	\$54.33	710.0	100%	\$54.45	341.0	100%	\$53.92	940.0	100%	\$60.74

BLR 05514 (Rev. 02/09/23)

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	19-00099-65-ES
Consultant / Subconsultant Name		Job Number
Christopher B. Burke Engineering, Ltd.		

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 4 OF 4

PAYROLL	AVG		blic Outrea		Pr	oject Fund Assistanc	ling		oject Mana Administr	_		1. QA/QC a	-	2:	2. Bid Supp	oort			
	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
Engineer VI	86.00	20	3.40%	2.92	32	16.67%	14.33	72	14.75%	12.69	32	13.22%	11.37	24	5.50%	4.73			
Engineer V	75.92	72	12.22%	9.28	32	16.67%	12.65	142	29.10%	22.09	82	33.88%	25.72	48	11.01%	8.36			
Engineer IV	62.13	80	13.58%	8.44	48	25.00%	15.53	106	21.72%	13.50	82	33.88%	21.05	56	12.84%	7.98			
Engineer III	48.95	126	21.39%	10.47	24	12.50%	6.12	106	21.72%	10.63				96	22.02%	10.78			
Engineer I/II	37.88	156	26.49%	10.03	24	12.50%	4.74	14	2.87%	1.09				100	22.94%	8.69			
Survey V	86.00																		
Survey IV	79.75	6	1.02%	0.81															
Survey III	69.69																		
Survey II	57.00																		
Survey I	40.53																		
Engineering Technician V	72.06																		
Engineering Technician IV	66.97																		
Engineering Technician III	44.83																		
Engineering Technician I/II	31.38																		
CAD Manager	74.08																		
CAD Technician II	55.73																		
GIS Speciailist III	60.66	57	9.68%	5.87	16	8.33%	5.05												
Landscape Architect	67.98	14	2.38%	1.62										8	1.83%	1.25			1
Landscape Designer III	42.36																		
Environmental Resource Sp	79.50	36	6.11%	4.86	8	4.17%	3.31	48	9.84%	7.82	46	19.01%	15.11	64	14.68%	11.67			f
Environmental Resource Sp	63.57	22	3.74%	2.37	8	4.17%	2.65							24	5.50%	3.50			
Environmental Resource Sp	55.17													16	3.67%	2.02			1
Environmental Resource Sp	32.34																		Î
Environmental Resource Te	47.38																		
Engineering Intern	19.75																		Î
Business Operations Depart	60.34																		1
TOTALS		589.0	100%	\$56.68	192.0	100%	\$64.39	488.0	100%	\$67.81	242.0	100%	\$73.26	436.0	100%	\$58.98	0.0	0%	\$0.00

Teska Associates, Inc. (Teska)

Contract Scope and CECS



February 14, 2024

To: Matt Smith, TranSystems, mjsmith@transystems.com

Ben Vander Wal, Transystems, brvanderwal@transystems.com

From: Jodi Mariano, Teska Associates, jmariano@teskaassociates.com

Re: Old McHenry Road Phase 2, Fairfield Rd to Bonnie Ln – Outreach + Aesthetic Design Scope

Please find the proposed scope of services for the above-mentioned project.

OLD MCHENRY ROAD PHASE 2, FAIRFIELD RD TO BONNIE LN - OUTREACH + AESTHETIC DESIGN SCOPE

1. Meetings

- A. <u>Project kickoff.</u> Attend an initial project kickoff meeting to confirm the project scope, schedule, overall public involvement approach and project milestones. During this meeting we will also confirm the design approaches for the aesthetic and landscape design elements of the project.
- B. *Monthly meetings*. Attend monthly meetings with LCDOT for a duration of two years.

C. <u>Team coordination</u>. Coordinate with the Team via email, telephone, teleconference meetings as required throughout the duration of this assignment.

2. Public Outreach

Teska will provide public outreach support throughout this assignment. The project logo and branding will be carried over from the previous Phase 1 assignment to Phase 2. Teska will work with the team and LCDOT to provide information for LCDOT's use in developing the Phase 2 website, hosted by LCDOT. Outreach tasks will include the following:

- A. <u>Project website</u>. Close the Teska-hosted Phase 1 website: <u>www.omxproject.com</u>. Provide graphics, narratives, and documents to LCDOT for inclusion in the LCDOT hosted Phase 2 website. Provide graphics, narratives, and documents to LCDOT for website updates throughout the duration of the project.
- B. <u>Public Meetings.</u> Five presentations to the Village of Hawthorn Woods / Village of Lake Zurich Boards and Commissions are included. The purpose of the meetings would be to present design progress, discuss design options, confirm decisions for design features and receive community

feedback. Meetings would include formal presentations, followed by discussions. Teska will provide full size color exhibits of the Teska produced materials for each meeting.

3. Old McHenry Road - Aesthetic Design Documentation

Based on the conceptual design materials produced during the Phase 1 Engineering, including community feedback and LCDOT direction, Teska will develop design documentation for the project area located along the Old McHenry Road right of way, between Fairfield Road (west) and Bonnie Lane (east) (approximately 4,315 lf). The aesthetic features to be designed and documented include the proposed bridge, retaining walls and railings associated with the proposed underpass at the Old McHenry Road and Canadian National (CN) Railway crossing.

- A. <u>Prepare base plans</u>. Teska will obtain proposed civil, geometric, and structural drawings from TranSystems. These materials will form the basis upon which Teska's design materials will be prepared. All design work will be produced in AutoCAD format.
- B. <u>Prepare construction documents</u>. Based on confirmation from LCDOT and municipalities on the Phase 1 concept design, Teska will produce construction documents at the 60%, 95% and 100% levels. Construction documents will include plans (AutoCAD format), specifications (Word format), and cost estimates (Excel format). The construction documents will be coordinated with the design team. Teska will participate in review meetings with LCDOT to review and confirm the design selections. Revisions will be made as required. Teska's design materials will address aesthetic improvements to the bridge, retaining walls and railings as applicable to the proposed underpass improvements. Teska's scope will address all aesthetic and surface treatments. All civil and structural engineering shall be by others.
- C. <u>Prepare bid documents</u>. Based on approval of the 100% Construction Documents, The Bid Documents will include any refinements needed to the plans (AutoCAD format), specifications (Word format), and quantities (Excel format). Bid Documents will be forwarded to the project team for inclusion in the overall document set and for LCDOT's use in issuing for public bidding. All front-end bid documents and bid administration shall be by others.
- D. <u>Design Visualizations</u>. Illustrations will be developed to assist LCDOT and municipal partners understand proposed design features. Based on 3D modeling prepared by others, Teska will create two illustrative perspective drawings to convey proposed bridge, retaining wall and railing improvements.
- E. <u>Review landscape architectural design</u>. Teska will review landscape architectural design prepared by TranSystems. Teska will review TranSystems' landscape design progress at the 60%, 95% and 100% levels and provide redlines and recommendations to TranSystems for landscape design, including plant species, sizes, and arrangements.

4. St Matthew Church – Landscape Architectural Design Documentation

Based on the conceptual design materials produced during the Phase 1 Engineering, including St Matthew Church feedback and LCDOT direction, Teska will develop landscape architectural design documentation for the proposed site improvements within the St. Matthew Church property.

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Local Public Agency	County	Section Number
Lake County Department of Transportation	Lake	
Prime Consultant (Firm) Name	Prepared By	Date
TranSystems	J. Mariano	5/29/2024
Consultant / Subconsultant Name	Job Number	
Teska Associates		

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

Remarks

PAYROLL ESCALATION TABLE

CONTRACT TERM START DATE RAISE DATE	10/1/2024		OVERHEAD RATE COMPLEXITY FACTOR % OF RAISE	110.24% 0 2.00%
END DATE	9/30/2028]		

ESCALATION PER YEAR

				% of
Year	First Date	Last Date	Months	Contract
0	10/1/2024	1/1/2025	3	6.25%
1	1/2/2025	1/1/2026	12	25.50%
2	1/2/2026	1/1/2027	12	26.01%
3	1/2/2027	1/1/2028	12	26.53%
4	1/2/2028	10/1/2028	9	20.30%

Local Public Agency	County	Section Number
Lake County Department of Trai	nsportati <mark>(</mark> Lake	
Consultant / Subconsultar	nt Name	Job Number
Teska Associates		

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	4.59%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal	\$73.50	\$76.87
Senior Associate	\$58.38	\$61.06
Associate	\$49.73	\$52.01

BLR 05514 (Rev. 02/09/23)

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Local Public Agency	County	Section Number
Lake County Department of Transportatio	Lake	
	•	,
Consultant / Subconsultant Name		Job Number

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant

Total 0.00 0.00

NOTE: Only subconsultants who fill out a cost estimate that splits out direct labor may be listed on this sheet.

Lake County Department of Transportation

Consultant / Subconsultant Name

Teska Associates

County	
Lake	

Section Number	
Job Number	

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	
odging 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	
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00	
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	7	\$75.00	\$525.00	
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)	7	\$150.00	\$1,050.00	
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	
nted 5/30/2024 1:58 PM			В	ELR 0551\$4(Bev. 0) DIRECT	
ge 4 of 7		TOTAL DIR	ECT COSTS:	\$1,575.00	

Local Public Agency	County	Section Number
Lake County Department of Transportation	Lake	
Consultant / Subconsultant Name		Job Number
Teska Associates		

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE 110.24% COMPLEXITY FACTOR 0

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Meetings		130	8,615	9,497	2,717		20,829	17.21%
Public Outreach		70	4,228	4,661	1,333		10,222	8.45%
Old McHenry Rd - Aesthetic Design D	ocumentation	340	19,899	21,937	6,275		48,111	39.75%
St Matthew Church - Landscape Archi	tectural Design Documentat	220	12,980	14,309	4,093		31,382	25.93%
Project Management and QA/QC		30	2,306	2,542	727		5,575	4.61%
Bid Support		20	1,379	1,521	435		3,335	2.76%
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Subsequent DI			-	-	-		- #0.00	
Subconsultant DL							\$0.00	
Direct Costs Total ===>	\$0.00						\$1,575.00	
TOTALS		810	49,407	54,467	15,580	-	121,029	100.00%

103,874

Local Public Agency	County	Section Number
Lake County Department of Transportation	Lake	
Consultant / Subconsultant Name		Job Number
Teska Associates		
	AVERAGE HOURLY PROJECT RATES	_

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

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PAYROLL	AVG	TOTAL PROJ	J. RATES			Meetings		Pul	blic Outrea			Henry Rd - yn Docume		Lands	latthew Ch cape Archi	tectural	Projec	t Managem QA/QC	ent and
,	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	76.87	220.0	27.16%	20.88	60	46.15%	35.48	20	28.57%	21.96	60	17.65%	13.57	40	18.18%	13.98	30	100.00%	76.87
Senior Associate	61.06	200.0	24.69%	15.08	40	30.77%	18.79	10	14.29%	8.72	80	23.53%	14.37	60	27.27%	16.65	0		
Associate	52.01	390.0	48.15%	25.04	30	23.08%	12.00	40	57.14%	29.72	200	58.82%	30.59	120	54.55%	28.37	0		
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TOTALS		810.0	100%	\$61.00	130.0	100.00%	\$66.27	70.0	100%	\$60.41	340.0	100%	\$58.53	220.0	100%	\$59.00	30.0	100%	\$76.87

Local Public Agency	County	Section Number
Lake County Department of Transportation	Lake	
Consultant / Subconsultant Name		Job Number
Teska Associates		

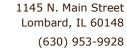
AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

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PAYROLL	AVG		Bid Suppo	rt															
CLASSIFICATION	HOURLY RATES	Hours	% Dozt	Wgtd	Hours	% Do:#	Wgtd	Hours	% Downt	Wgtd	Hours	% Do:#	_	Hours	% Dor#	Wgtd	Hours	% Do:#	Wgtd
		40	Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Principal	76.87	10	50.00%	38.44															
Senior Associate	61.06	10	50.00%	30.53															
Associate	52.01	0																	
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TOTALS		20.0	100%	\$68.96	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

Wang Engineering, Inc. (Wang)

Contract Scope and CECS



WangEng.com | Terracon.com



February 15, 2024

Joe R. Mickow, PE, SE
Project Manager **TranSystems**1475 East Woodfield Road, Suite 600
Schaumburg, IL 60173-5440

Re: Proposal for Geotechnical Engineering Services
Old McHenry Road and Quentin Road
Phase II Design Services, Contract 1
Hawthorn Woods and Lake Zurich
Lake County, Illinois
Wang PKE245048

Dear Mr. Mickow:

Wang Engineering Inc. (Wang) is pleased to present this proposal for geotechnical engineering services to support the Phase 2 Contract 1 project for the improvement of Old McHenry Road (OMR) east of Fairfield Road including Fairfield Road. in the Villages of Hawthorn Woods and Lake Zurich, Lake County. The following describes the proposed scope of services and cost estimate. Our project understanding in based on email received from TranSystems on February 8, 2024. The geotechnical investigation will be performed in accordance with the IDOT Geotechnical Manual.

The objectives of the geotechnical engineering services will be to define general subsurface soil and groundwater conditions, develop parameters for foundation and subgrade soil stability and deformation analyses, and provide geotechnical recommendations for roadway and foundation design and construction.

SCOPE OF WORK

Based on our understanding of the proposed improvements and TranSystems scope of work, Wang proposes the following field exploration program.

Proposed boring program:

- 1. **Four** Additional structure borings for the temporary wall along the shoofly track alignment, south of previously performed Boring SF-RW-01. The anticipated maximum wall height is 10 feet. These borings will be drilled to the requested depth of 50 feet.
- 2. **Four** 20-foot-deep borings along Midlothian Road south of Old McHenry Road between Sta. 94+50 and Sta. 98+00. The anticipated maximum wall height is 5 feet.

PKE224048/OMC Phase 2, Contract 1

TranSystems

February 15, 2024



- 3. **Four** 20-foot-deep borings within St. Matthews church property for a new wall near the southeast corner of a proposed parking area. The anticipated maximum wall height is 5 feet. The parking lot will be raised in this area.
- 4. **Four** 10-foot-deep roadway borings located along the temporary roadway alignment, north of OMR. Access to this area will not be allowed until the property has been acquired by the County, so these borings will be performed at a later date.
- 5. **Thirty-six** 10-foot-deep additional roadway borings located along each project roadway alignment to meet the IDOT recommended 300 feet spacing. Structure borings performed for Phase 1 walls will be utilized for the RGR too.
- 6. **Four** 15-foot-deep detention pond borings will be performed in two potential detention areas. At each pond location, one boring will be converted to a piezometer for groundwater monitoring. Bulk samples will also be obtained for embankment suitability testing.
- 7. **Two** 20-foot-deep borings will be drilled for proposed railroad gate foundations. And,
- 8. **Sixteen** 30-foot-deep traffic signal borings will be drilled at the corridor intersections.

Improvement	Borings	Depth (ft)	Footage (ft)
Temporary Shoofly Retaining Wall	4	50	200
Midlothian Road Retaining Wall	4	20	80
St. Matthews Retaining Wall	4	20	80
Temporary Road (north of OMC)	4	10	40
Roadway Improvements	36	10	360
Detention Pond	4	15	60
Railroad Gates	2	20	40
Traffic Signals	16	30	480
Totals	74		1,340

To accomplish the above geotechnical investigation program, Wang proposes the following tasks:

Desk Study and Site Visit: Wang will study and analyze existing roadway and foundation drawings, boring logs, and subsurface geological information to check for factors that might impact the proposed engineering works. Ground surface features, potential construction limitations and impacts on nearby structures, evidence of distress or deformation in the existing

PKE224048/OMC Phase 2, Contract 1

TranSystems

February 15, 2024



pavements and foundations, and signs of approach settlement will be examined during a site visit and boring layout.

Geotechnical Drilling and Sampling: Wang will provide equipment, labor, and associated materials to drill and sample roadway and structure borings. For Phase 2, we will drill and sample an estimated 1,340 feet of soil in 74 boreholes. The borings will be drilled using both truck- and ATV-mounted rigs. We assume that traffic control will be allowed only between the hours of 9:00 AM and 3:00 PM.

Full-depth pavement cores will not be collected. The borings will be advanced with hollow stem augers. Soil samples will be collected with split barrel samplers according to AASHTO T206, "Penetration Test and Split-Barrel Sampling of Soils."

Soil samples will be collected at 2.5-foot intervals in the structure borings. Roadway borings will be sampled continuously.

Structure boreholes will be grouted after completion. The roadway boreholes will be backfilled with soil cuttings. The remaining drilling spoils will be discarded off pavement areas and evenly spread out. Where necessary, the pavement will be patched, and the surface will be restored as close as possible to the original condition. We will make reasonable efforts to avoid making ruts in landscape areas during drilling activities, but landscape restoration services are not included in out scope of work.

Field Supervision: Prior to the start of the investigation, Wang will obtain right-of entry permits with CN Railroad and will coordinate access to the private church property. Wang will coordinate the location of utilities with respect to the proposed boring locations. Utilities within the Matthews Church property will require the use of a private utility locator. A Wang field engineer will monitor drilling activities, maintain field notes, log samples, measure groundwater elevations, and prepare soil samples for transport to our laboratory. The field engineer will also perform penetrometer and Rimac unconfined compressive strength tests on cohesive soil samples and observe and record the SPT values on 6 inches of penetration. The as-drilled boring/coring northing and easting locations will be measured using a mapping-grade GPS. As drilled boring elevations will be surveyed by others or interpolated by TranSystems from the TIN model.

Laboratory Testing: Soil samples will be transported to our AASHTO-certified laboratory. Soil testing will include moisture content, organic content, compaction testing, Atterberg limits, and particle size analysis tests.

PKE224048/OMC Phase 2, Contract 1

TranSystems

February 15, 2024



Engineering Analyses, Recommendations, and Reporting:

Wang will prepare Structure Geotechnical Reports (SGRs) for every structure that will require a TSL Plan. A geotechnical letter report will be prepared for structures that will not require TSL plans (e.g., traffic signals, railroad gate foundations). Roadway Geotechnical Reports (RGRs) will be prepared for the roadway alignments. One draft version of each report will be submitted for review by TranSystems and the County; final signed reports will address issues raised by reviewers.

The geotechnical reports will include site location maps, description of the subsurface investigation methods, soil boring location plans, boring logs, laboratory test results, and assessments of the site soil and groundwater conditions. Analyses for foundation type, pile capacity and settlement evaluations, recommendations for foundation design and construction, seismic site classification, global stability analyses, as well as criteria and procedures for temporary excavation, dewatering, backfilling, and compaction will be provided. The reports will be prepared as pe the current IDOT requirements.

We will submit the following geotechnical reports.

- 1. One Roadway Geotechnical Report (RGR)
- 2. One SGR for the Midlothian Road retaining wall
- 3. One SGR for the St. Matthews Church retaining wall
- 4. One revised SGR for the extended shoofly retaining wall
- 5. One revised RGR for the temporary roadway alignment north of Old McHenry Road
- 6. One geotechnical letter report for traffic signals, detention ponds, and railroad gate structures

SCHEDULING

Wang will start the project expediently upon prior written authorization to proceed. We estimate the site visit and boring layout will require three working days. The proposed Phase 2 subsurface investigation program will be completed in about 20 working days using just one drilling rig. If necessary, Wang may mobilize more than one rig at any given time to meet the project schedule demands. The laboratory testing program will be completed within four weeks after the subsurface investigation. Draft reports will be submitted for review within three weeks after receiving preliminary TSL plans and roadway plan and profile drawings. Final reports will be issued two weeks after receiving comments on the draft reports.

ESTIMATED COST AND ASSUMPTIONS

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

TranSystems

February 15, 2024



- · Railroad permitting and railroad flaggers will be required,
- A right of entry agreement and private utility clearance will be required on Matthews Church property,
- Working times for items with traffic impacts will be restricted to 9AM to 3PM, and
- Truck-and-driver traffic control will be necessary for the signal borings

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

Sincerely,

WANG ENGINEERING, INC.

Mohammed Kothawala, P.E., D. GE Sr. Project manager/ Sr. Geotechnical Engineer Eric Datz
Project Manager/ Engineering Geologist

Liviu Iordache, PG Principal / Geotechnical Department Manager III

EXHIBIT E COST ESTIMATE OF CONSULTANT SERVICES WORKSHEET FIXED RAISE

Local Public Agency	County	Section Number
Lake County Department of Transportation	Lake	19-00999-65-ES
Consultant (Firm) Name	Prepared By	Date
Wang Engineering, Inc.	M. Kothawala	5/28/2024

PAYROLL ESCALATION TABLE

CONTRACT TERM START DATE RAISE DATE	10/1/2024	MONTHS	OVERHEAD RATE COMPLEXITY FACTOR % OF RAISE	200.57% 0 2.00%
END DATE	9/30/2028			

ESCALATION PER YEAR

				% of
Year	First Date	Last Date	Months	Contract
0	10/1/2024	4/1/2025	6	12.50%
1	4/2/2025	4/1/2026	12	25.50%
2	4/2/2026	4/1/2027	12	26.01%
3	4/2/2027	4/1/2028	12	26.53%
4	4/2/2028	10/1/2028	6	13.53%

The total escalation = 4.07%

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	4.07%

PAYROLL RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal in Charge	\$86.00	\$86.00
Project Manager	\$69.30	\$72.12
Senior Engineer	\$69.30	\$72.12
Project Engineer/Project Geologist	\$42.76	\$44.50
Assistant Engineer/Assistant Geologist	\$33.52	\$34.88
Laboratory Technician	\$36.26	\$37.74
Administrative Assistant	\$35.81	\$37.27
QC/QA Reviewer	\$81.61	\$84.93

SUBCONSULTANTS

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

NAME	Direct Labor Total	Contribution to Prime Consultant

Total 0.00 0.00

Local Public Agency	
ake County Department of Transportation	

County	
_ake	

Section Number

19-00999-65-ES

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COST ESTIMATE WORKSHEET

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

OVERHEAD RATE 200.57% COMPLEXITY FACTOR

TASK	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	DIRECT COSTS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Desk Study, Permitting & Boring Layout	35	1,696	3,401		560		5,657	2.11%
Field Work, Logging, GW Monitoring	225	7,945	15,936	140,025	2,622		166,528	62.25%
Laboratory Testing	5	189	378	16,760	62		17,389	6.50%
Data Analyses & Engineering	190	9,139	18,331		3,016		30,486	11.40%
Report Preparation	175	9,958	19,973		3,286		33,217	12.42%
Project Management	70	4,265	8,555		1,408		14,228	5.32%
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TOTALS	700	33,192	66,574	156,785	10,954	-	267,505	100.00%

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Section Number

19-00999-65-ES

Lake County Department of Transportation

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 PRO	J. RATES			tudy, Permi oring Layo			ork, Loggi Monitoring			ooratory Te	sting		ata Analyse Engineerin		Rep	ort Prepar	ation
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CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Principal in Charge	78.00	15.0	2.14%	1.67															
Project Manager	72.12	30.0	4.29%	3.09															
Senior Engineer	72.12	85.0	12.14%	8.76	5	14.29%	10.30							30	15.79%	11.39	50	28.57%	20.61
Project Engineer/Project Go	44.50	280.0	40.00%	17.80	30	85.71%	38.14	10	4.44%	1.98				145	76.32%	33.96	95	54.29%	24.16
Assistant Engineer/Assistar	34.88	235.0	33.57%	11.71				215	95.56%	33.33				15	7.89%	2.75	5	2.86%	1.00
Laboratory Technician	37.74	5.0	0.71%	0.27							5	100.00%	37.74						
Administrative Assistant	37.27	25.0	3.57%	1.33															
QC/QA Reviewer	78.00	25.0	3.57%	2.79													25	14.29%	11.14
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TOTALS		700.0	100%	\$47.42	35.0	100.00%	\$48.45	225.0	100%	\$35.31	5.0	100%	\$37.74	190.0	100%	\$48.10	175.0	100%	\$56.90

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Lake

Section Number

19-00999-65-ES

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

SHEET 2 OF 2

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	RATES	15	Part. 21.43%	Avg 16.71		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Principal in Charge	78.00																		-
Project Manager	72.12	30	42.86%	30.91															-
Senior Engineer	72.12																		-
Project Engineer/Project Geo																			<u> </u>
Assistant Engineer/Assistant	34.88																		ļ
Laboratory Technician	37.74																		
Administrative Assistant	37.27	25	35.71%	13.31															
QC/QA Reviewer	78.00																		
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TOTALS		70.0	100%	\$60.93	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
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HBK Engineering, LLC. (HBK)

Contract Scope and CECS



A **QUANTA SERVICES COMPANY**

February 14, 2024

Matthew J. Smith, P.E. Senior Vice President Transystems 1475 East Woodfield Road, Suite 600 Schaumburg, IL 60173

Re: Scope and Fee for Subsurface Utility Engineering & Utility Coordination along Old McHenry Rd –

Lake County, Illinois

HBK Engineering, LLC - P23-5007

Dear Mr. Smith,

HBK Engineering, LLC, is pleased to present this proposal to Transystems. This Phase II Engineering Study centering around corridor improvements along Old McHenry Road in Lake County, Illinois. This project will require field investigation, utility relocation plan reviews, and design team meetings.

The total proposal cost estimate is \$48,841.00. HBK's scope and fees for the project are broken into four (4) components, as follows:

Additional Field Investigations

Pricing Total: \$9,081.00

Utility Relocation Plan Reviews

Pricing Total: \$12,931.00

SUE Quality Level A Locating

Pricing Total: \$19,046.00

Design Progress Meetings

Pricing Total: \$7,783.00

Hong R. Dollagel

HBK appreciates the opportunity to assist Transystems on this project. Please contact me if there are questions or if you need additional information. Upon acceptance of this proposal, HBK Engineering will provide a Professional Services Agreement for execution with Transystems.

Sincerely,

Anthony R. D'Angelo Project Manager

Attachments:

- HBK SUE-Utility Coordination SOW Old McHenry Road PH02 Sect01-2024.02.14.doc
- BLR 05514_LCDOT Transystems_Old McHenry Road PH02 Sect01_HBK_2024.02.14.xls
- HBK SUE- QLA Fee Estimate Old McHenry Road PH02 Sect01 2024.02.14.xls

cc: Dan Zeman, PE CAPM

(HBK SUE-Utility Coordination Cover Letter - Old McHenry Road PH02 Sect01-2024.02.14)





Old McHenry Rd from Forest Ave to Fairfield Ave PH 02 – Lake County, IL

At the request of Transystems (Consultant), HBK Engineering, LLC (HBK) has prepared a scope of services for field investigations, Quality Level A test holes, and utility relocation design review for Old McHenry Road improvements in Lake County, IL. A manhour and fee estimate for this project is also attached.

Project Limits

The project limits and all work will occur in and regarding the project area along Old McHenry Road as described below (see attached exhibit):

Project Area

- Along Old McHenry Road from East ROW line of Forest Ave to ~700 feet West of the West ROW line of Fairfield Road including:
 - o Along CNRR ROW for 1000' North and South of the ROW lines of Old McHenry Road
 - Along Midlothian Rd for 1500' North and South of the ROW lines of Old McHenry Road
 - Along Fairfield Rd for 2000' North of the North ROW line of Old McHenry Road
 - o Along all other intersecting public streets to 100' from the ROW of Old McHenry Road

All work for this project will be completed by HBK, as a subconsultant to Transystems.

Project Tasks

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 Subsurface Utility Engineering (SUE) investigation and a review of utility relocation plans, will be completed for the project by HBK. The information gathered by HBK will be incorporated into the project plans as appropriate. All work will be performed within the following tasks.

Additional Field Investigation

HBK will be available to perform site walkdowns and/or additional field investigations as requested by the Consultant or as recommended by HBK and concurred by the Consultant, up to the available contract fee.

Descriptions of SUE quality levels are derived from the American Society of Civil Engineers (ASCE) Standard 38-22, Standard Guideline for Investigating and Documenting Existing Utilities. 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 additional SUE Quality Level B designation of any utility facilities located within the project limits as recommended and concurred by the Consultant. Quality Level D information will be obtained from the local agencies, utility company atlases, JULIE requests, and other reliable sources. Qualified HBK staff will perform Level B designation of underground utilities within the project limits.

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

It is assumed that Consultant 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. Consultant 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 as relevant to the approved additional investigation.

Utility Relocation Plan Review

HBK will review relocation plans provided by the utility owners as they are provided by the project design team. Plans will be reviewed for constructability and conflict resolution. Recommendations will be passed to the design team to help ensure efficient use of the available right of way.

Utility Locate and Survey

HBK will oversee the excavation and collection of data for as many as six (6) Level A test holes of a typical size (see attached fee exhibit). HBK will have qualified staff on hand to observe a subcontracted excavation crew and collect field measurements and other data. The data will be added to the utility base map. This data will be used to refine the project team's understanding of existing subsurface utilities and required potential need for relocations. All test holes are to be requested by the design team or recommended by HBK with the concurrence of the design team previous to performing the work.

Design Team Progress Meetings

HBK will have at least one (1) representative attend progress meetings, assumed to be monthly and led by the Consultant.

Exclusions

- Permitting fees are NOT included in this proposal and, if assessed, shall be considered a passthrough cost
- Additional utility relocation cost estimates can be performed, as requested by the Consultant, at additional cost and at the discretion of HBK
- SUE Level B designation and utility base mapping DOES NOT include sanitary or storm sewers
- All fees within this proposal are based on the provided project timeline

End of Document





COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET FIXED RAISE

Local Public Agency

Lake County Division of Transportation

Section Number County

19-00999-65-ES

Prime Consultant (Firm) Name

Transystems

Prepared By Anthony D'Angelo

Date 5/30/2024

Consultant / Subconsultant Name

HBK Engineering, LLC

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

Job Number

Lake

Remarks

PAYROLL ESCALATION TABLE

CONTRACT TERM 48 MONTHS START DATE 10/1/2024 1/1/2025 RAISE DATE

OVERHEAD RATE 117.52% **COMPLEXITY FACTOR** % OF RAISE 2.00%

END DATE

9/30/2028

ESCALATION PER YEAR

				% of
Year	First Date	Last Date	Months	Contract
0	10/1/2024	1/1/2025	3	6.25%
1	1/2/2025	1/1/2026	12	25.50%
2	1/2/2026	1/1/2027	12	26.01%
3	1/2/2027	1/1/2028	12	26.53%
4	1/2/2028	10/1/2028	9	20.30%

The total escalation =

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	19-00999-65-ES
Consultant / Subconsultant Nam	e	Job Number

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	4.59%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Program Manager	\$76.62	\$80.13
Senior Project Manager	\$59.24	\$61.96
Senior Engineer	\$51.83	\$54.21
Project Manager	\$47.58	\$49.76
Engineer	\$41.84	\$43.76
Associate 1	\$32.90	\$34.41
Associate 2	\$38.61	\$40.38
Permit Coordinator	\$29.91	\$31.28
Analyst 1	\$28.57	\$29.88
Analyst 2	\$42.94	\$44.91
Licensed Professional Surveyor	\$54.61	\$57.11
Field Lead	\$38.91	\$40.69
Field Technician	\$25.85	\$27.04
Locator 1	\$22.66	\$23.70
Locator 2	\$23.45	\$24.53
Locator 3	\$27.40	\$28.66
Designer 1	\$30.48	\$31.88
Designer 2	\$31.60	\$33.05
Designer 3	\$41.52	\$43.42

BLR 05514 (Rev. 02/09/23)

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	19-00999-65-ES
Consultant / Subconsultant Name		Job Number
HBK Engineering, LLC		

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
Air Fare	Coach rate, actual cost, requires minimum two weeks'			\$0.00
Vehicle Mileage	notice, with prior IDOT approval Up to state rate maximum			\$0.00
(per GOVERNOR'S TRAVEL CONTROL BOARD) 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)	10	Ψοσ.σσ	\$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)	2	\$6,629.41	\$13,258.82
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
		TOTAL DIRI	ECT COSTS:	\$13,908.82 LR 05514 (Rev. 02

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	19-00999-65-ES
Consultant / Subconsultant Name		Job Number
HBK Engineering, LLC		

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE	117.52%	COMPLEXITY FACTOR	0

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Additional Field Investigations	520	78	3,422	4,022	1,117		8,561	17.53%
Relocation Plan Review		106	5,169	6,075	1,687		12,931	26.48%
SUE QL-A Test Holes	13,389	50	2,261	2,658	738		5,657	11.58%
Design Team Meetings		60	3,111	3,657	1,015		7,783	15.94%
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Subconsultant DL			-	-			-	0.00%
	\$42,000.00						£42.000.00	
Direct Costs Total ===>	\$13,908.82	60.4	40.000	40.440	4 = = =		\$13,908.82	
TOTALS		294	13,963	16,412	4,557	-	48,841	100.00%

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	19-00999-65-ES
Consultant / Subconsultant Name		Job Number
HBK Engineering, LLC		

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET	1	OF	1

PAYROLL	AVG	TOTAL PRO	J. RATES		-	Iditional Figure		Reloca	ition Plan I	Review	SUE	QL-A Test	Holes	Desig	ın Team Me	eetinas			
	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	79.61	6.0	2.04%	1.62	2	2.56%	2.04	2	1.89%	1.50	2	4.00%	3.18						
Senior Project Manager	61.55	28.0	9.52%	5.86	4	5.13%	3.16	8	7.55%	4.65	4	8.00%	4.92	12	20.00%	12.31			
Senior Engineer	53.85	24.0	8.16%	4.40				24	22.64%	12.19									
Project Manager	49.44	76.0	25.85%	12.78	8	10.26%	5.07	16	15.09%	7.46	4	8.00%	3.95	48	80.00%	39.55			
Engineer	43.47	88.0	29.93%	13.01	16	20.51%	8.92	56	52.83%	22.97	16	32.00%	13.91						
Associate 1	34.18	0.0																	
Associate 2	40.12	72.0	24.49%	9.82	48	61.54%	24.69				24	48.00%	19.26						
Permit Coordinator	31.08	0.0																	
Analyst 1	29.68	0.0																	
Analyst 2	44.61	0.0																	
Licensed Professional Surv	56.74	0.0																	
Field Lead	40.43	0.0																	
Field Technician	26.86	0.0																	
Locator 1	23.54	0.0																	
Locator 2	24.36	0.0																	
Locator 3	28.47	0.0																	
Designer 1	31.67	0.0																	
Designer 2	32.83	0.0																	
Designer 3	43.14	0.0																	
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TOTALS		294.0	100%	\$47.50	78.0	100.00%	\$43.87	106.0	100%	\$48.77	50.0	100%	\$45.23	60.0	100%	\$51.86	0.0	0%	\$0.00



Excavation Contractor Example 2024 Rates

Item	Rate	Qty	Sub-total		
1-man (ST hourly)	\$ 260.00	16	\$	4,160.00	
1-man (OT hourly)	\$ 310.00	4	\$	1,240.00	
2-man (ST hourly)	\$ 115.00	16	\$	1,840.00	
2-man (OT hourly)	\$ 140.00	4	\$	560.00	
Support truck (day)	\$ 160.00	2	\$	320.00	
Coring Truck (day)	\$ 205.00	1	\$	205.00	
Core Epoxy (bag)	\$ 85.00	3	\$	255.00	
TBF (pallet sand)	\$ 400.00	6	\$	2,400.00	
Disposal Charge	\$ 350.00	2	\$	700.00	
Water (per load)	\$ 85.00	2	\$	170.00	
Remote Hose (per ft)	\$ 3.20	100	\$	320.00	
Consumables	\$ 42.00	2	\$	84.00	
		Sub-Total=	\$	12,254.00	
Fuel Fee (8.2%)	\$ 0.082	1	\$	1,004.82	
		Total=	\$	13,258.82	

Other Misc. Charges (not included in pricing)

Item	Rate	Qty	Sub-	total
Stand pipe (10' section)	\$ 45.10	0	\$	-
Pipe couplers (each)	\$ 11.67	0	\$	-

6 potholes (3/day)	1 \$	13,258.82
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Huff & Huff, Inc. (H&H)

Contract Scope and CECS



GEOTECHNICAL

ENVIRONMENTAL

ECOLOGICAL

VATER

CONSTRUCTION MANAGEMENT

915 Harger Road Suite 330 Oak Brook, IL 60523 T: 630.684.9100 F: 630.684.9120 www.huffnhuff.com www.gza.com



via email: mhuffman@cbbel.com

February 16, 2024

Mr. Matt Huffman, PE Assistant Department Head, Phase I Engineering Christopher B. Burke Engineering, Ltd. 9575 W. Higgins Road – Suite 600 Rosemont, IL 60018

Re: Phase II Environmental Services – PSI/CCDD and Asbestos Survey Old McHenry Road Crossings (Contract 1) – Lake County, IL. Proposal No.: 81.P013151.24

Dear Mr. Huffman:

Huff & Huff, Inc., a subsidiary of GZA, Inc. (H&H) is pleased to submit this revised proposal to Christopher B. Burke Engineering, Ltd. (Client) to provide Phase II environmental services in conjunction with the proposed improvements associated with the Old McHenry Road Crossings project, located in Lake County, Illinois. Specifically, Client has requested completion of a Preliminary Site Investigation (PSI), including LPC-663 documentation for consideration of acceptance of project spoils at a Clean Construction and Demolition Debris (CCDD) or uncontaminated soil fill operation (USFO) facility for the local roads portion of Contract 1.

In addition, as related to parcel acquisition and demolition of some structures, Client has also requested a pre-demolition survey of the structures at four properties. This scope is intended to identify the presence of and sampling of various materials, including potential asbestoscontaining material (ACM), potential lead-based paint (LBP), and identification of potential universal wastes, including mercury containing light fixtures and switches. This proposal presents our project understanding based on information provided by Client including our proposed the scope of services and associated fee.

1. PROJECT UNDERSTANDING

We understand there are four (4) Sections associated with the proposed improvements, including:

- Section 1: Old McHenry Road Underpass (Forest Drive to Midlothian Road;
- Section 1b: St. Matthew Church Property;
- Section 2: Old McHenry Road (Midlothian Road to Fairfield Road:
- Section 3: Old McHenry Road (Fairfield Road to Hubbard Lane; and
- Section 4: Quentin Road (IL 22 to Highland Terrace).

We understand Client is seeking scope and fee associated with two (2) Contracts:

- Contract #1: Includes Sections 1, 1b, and 2, identified above (this scope/fee); and
- Contract #2: Includes Section 3, identified above (submitted under separate cover).

Client has provided the following documentation which shall serve as our basis of understanding of the project to develop[e the scope and fee herein:



- Proposed Project sections exhibit (1-Sheet);
- PESA Identified Properties Map (4-Sheets);
- Project Development Report (PDR) Preferred Alternative Exhibit (2-Sheets); and
- ISGS/IDOT Preliminary Environmental Site Assessment (PESA) files (ISGS #4201), including:
 - 4201 PESA Executive summary (15-Pages);
 - 4201 PESA Letting Cover Note (1-Page);
 - 4201A Summary Report (9-Pages);
 - 4201A Sequence 24174A Letting cover Note (1-Page); and
 - BDE 2735 PESA Response form 24174A (3-Pages).

We understand Client will provide a copy of the Local Roads PESA when it is completed.

2. SCOPE OF SERVICES

A series of soil borings are proposed to cover Contract 1 (Section 1, 1b, and 2). Specifically, the following soil borings are proposed to cover areas of construction including addressing the PESA sites identified as RECs and also coverage of other work areas for full corridor coverage. This is to address the industry trends for acceptance of spoils at CCDD or USFO facilities and in general conformance with IDOT District 1 protocol, though the soil boring frequency presented below is less frequent than IDOT protocol.

Task 1 – Preliminary Site Investigation (PSI) and LPC-663 Form CCDD Documentation (Contract 1)

A. Soil Borings and Soil Sampling

An initial site visit will be conducted to pre-mark the locations and to convey location information to the drilling subcontractor to place the utility locate call to the state one-call system (JULIE). It is anticipated that up to four (4) days of field effort will be required with up to forty-three (43) soil borings completed with the aid both drilling and traffic control subcontractors, including the following breakdown by Section:

- Thirty (30) soil borings for Section 1;
- Three (3) soil borings for section 1b; and
- Ten (10) soil borings for section 2.

The borings will be advanced and soil samples collected for laboratory analysis to address sites identified as RECs/PIPs and for full project coverage of non-REC/PIP for soil disposal considerations, specifically at locations identified for proposed excavation. The depths of the soil borings will be dependent upon design details to account for depths of proposed disturbance. Consultant will finalize depths of planned borings prior to mobilization consistent with project plans as provided by Client, in conjunction with PESA findings. Without having a PESA Response form to identify maximum depth of work at each site, for scoping and budgetary purposes, it is estimated that borings will be advanced to depths up to approximately eight (8) to ten (10) feet below ground surface. Samples will be collected in 2 to 5-foot intervals for field screening and select samples prepared for laboratory analysis as discussed below.



B. Analytical

A total of forty-three (43) soil boring locations are proposed and we anticipate collecting one (1) sample for laboratory analysis from each boring. The soil samples will be analyzed for the contaminants of concern (COCs) per IDOT protocol, which include:

- 22 Total metals (Target Analyte List (TAL) minus Aluminum)
- SPLP/TCLP Metals (8 RCRA and Be, Co, Cu, Fe, Mn, Ni, and Zn)
- Volatile organic compounds (VOCs)
- Semi-volatile organic compounds (SVOCs)
- Soil pH

C. PSI Report Preparation

A report summarizing the results of the soil and sediment sample collection activities and analytical results will be prepared. This document will present information pertinent for the bidding documents regarding conditions of soils assessed, handling and final disposition considerations, specifically including soil classifications per IDOT Article 669.05 for use in identifying quantities and pay items in the bidding specifications. Time has also been included to assist Client in preparing the pay items and standard and/or special provisions/specifications related to soil management.

D. CCDD (LPC-Form) Documentation and CCDD Facility Coordination

The soil sample results will be compared to the Maximum Allowable Concentrations (MACs) associated with CCDD facility acceptance, including the soil pH range of 6.25 to 9.0. If results achieve the MAC values, H&H will prepare the LPC-663 document that will be signed/stamped by the H&H. Any locations that do not achieve the MACs (including soil pH range) will be identified as exclusion zones, not acceptable for CCDD facility disposal. Any locations that do not achieve the MACs (including soil pH range) will be identified as exclusion zones, not acceptable for CCDD facility disposal, utilizing soil classifications per IDOT 669.05. We also anticipate coordinating with at least three (3) CCDD facilities to provide the competed LPC-663 documentation for their review, and if acceptable, to provide letters of pre-authorized acceptance for including in the bid document. Please note, these pre-authorization letters are not an indication that all spoils will be accepted since CCDD facilities adhere to a process of screening each incoming load and this screening process takes precedence to previously submitted analytical results and pre-authorization letters.

Task 2 - Pre-Demolition Survey and Reporting

The primary objective of the environmental sampling will be to identify, confirm through analytical testing, and quantify potential environmental hazards that require abatement and/or collection, removal, and proper disposal in advance of proposed demolition activity for each of the identified structures. Subsequently, H&H will assist Client in preparing the Special provisions language related to the environmental issues for inclusion in the bidding documents.

Pre-demolition and/or renovation surveys are required by the United States Environmental Protection Agency (USEPA national emission Standards for Hazardous Air Pollutants (NESHAP) provided in 40 CFR 61 and Illinois Administrative Code (IAC) Title 77, Chapter I, Subchapter p, Part 855. The United Stated Department of Labor, Occupational Safety and Health Administration (OSHA) also requires that asbestos containing materials (ACM) be identified prior to initiating demolition activities.

OSHA 29 CFR 1926.62-Lead applies to all construction work where an employee may be occupationally exposed to lead, including demolition and renovation. The employer shall communicate information concerning lead hazards and



appropriate protective measures to employees. As specified in Illinois Administrative Code 845.205(b), a *lead bearing* substance is any existing house paint or other surface coating material containing greater than or equal to 0.5% lead or greater than or equal to 1.0 mg/cm2 lead. Materials containing 1.0 mg/cm2 or more of lead must be identified prior to initiating demolition activities. The results can be used to assess compliance with OSHA Lead in Construction regulations for demolition and to identify if any LBP chips are required to be disposed of as a hazardous waste.

The LBP survey will include a general paint conditions assessment of readily accessible painted surfaces on the interior and exterior of the buildings. This will include assessment of surfaces with flaking paint, as necessary. According to the USEPA, lead-based paint waste removed from a home by a contractor may be: (1) demolition/construction debris (general refuse in a Subtitle D permitted landfill), (2) non-hazardous special waste, or (3) hazardous waste. The generator may dispose of lead-based paint waste as demolition/construction debris if the paint is not removed from the painted surface prior to disposal. Lead-based paint waste that is removed from a surface prior to disposal (LBP chips and scrapings, for example) must be disposed of as a special waste and may be a hazardous waste. Paint waste is hazardous if it has a concentration of lead equal to 5.0 mg/l or greater as indicated by the Toxicity Characteristic Leaching Procedure.

This assessment will also include a restricted universal hazardous waste (U-waste) assessment to document site conditions and estimated quantities of materials that may be present that require proper removal and disposal prior to completing the proposed demolition work for each structure. According to the USEPA, U-waste items include batteries, pesticides, mercury-containing equipment, lamps, and aerosol cans. Universal waste must be disposed of at a facility designated under RCRA to treat, dispose of, or recycle a particular category of universal waste (40 CFR 273.9).

The following sub-tasks are included for Task 2 for the surveys associated with the following four (4) properties, including five (5) structures:

- 24508 Old McHenry Road (1-residential structure);
- 24515 Old McHenry Road (2-structures including residence with attached garage and additional garage);
- 24570 Old McHenry Road (1-residential structure); and
- 24578 Fairfield Road (2-residential structures).

SUB-TASK A: ASBESTOS CONTAINING MATERIAL SURVEY

1. Pre-Mobilization Activity

This task includes coordination with Client to obtain site plans/documents identifying floor plans within the structures and coordination with any necessary subcontractors and Village officials. In addition, this task includes the development of a site-specific Health & Safety Plan (HASP) for use during the proposed ACM survey, prior to conducting the on-site surveys.

2. ACM sampling and Laboratory Analysis

The H&H surveys for each structure will include an assessment of both friable (easily reduced to powder by hand pressure) and non-friable materials such as thermal system insulation (TSI) on pipes, boilers, hot water tanks and related items; surface coatings such as fireproofing materials applied to floor decking, sheetrock, beams and ceilings, or acoustic and decorative coatings; and miscellaneous materials that may contain asbestos, including interior surfaces, transite panels, chalkboards, vinyl floor tiles and mastics; roofing materials that are accessible in a safe manner; and limited assessment of electrical systems (if safe to access and certified as non-energized), heating, ventilation, air conditioning and other mechanical systems noted during past walk-thru (i.e.: drying and refrigerated systems).



An asbestos inspector accredited by the USEPA and Illinois Department of Public Health (IDPH) will conduct the inspections of the buildings. Suspect ACM identified by H&H will be documented on a floor plan, sampled, and submitted for laboratory analysis. The actual number of samples to be collected and analyzed will depend on the number of different types of suspect ACM observed.

The number of asbestos bulk samples collected depended on the type of the identified suspect material. According to USEPA AHERA regulation, materials may be classified as surfacing (i.e., applied to a surface), thermal (i.e., providing thermal insulation), or miscellaneous (i.e., window glaze, floor tiles, roofing shingles, etc.).

The number of samples collected for analysis during an asbestos assessment increases as the potential for either a non-uniform mixture or inconsistent asbestos distribution in the material increases. The following table summarizes the sampling protocol utilized by H&H for this assessment:

Typical Minimum Bulk Sampling Criteria

Type of Suspect Material	Minimum Sampling Criteria
Surfacing	Statistically random criteria (minimum of three samples, maximum of seven samples per each homogeneous material).
Thermal	Minimum of three samples per homogeneous area of suspect material.
Miscellaneous	Minimum of two samples per homogeneous area of suspect material, as potential for non-uniform mixture is relatively slight.

H&H will conduct a site walkthrough identifying potential ACM and will collect samples of suspect ACM. Up to seventy-five (75) ACM samples will be collected and analyzed for each structure for a total of up to 375 samples. Samples will be sent to an accredited laboratory and analyzed using USEPA polarized light microscopy (PLM) methodology. Quantities of the suspected ACM will be estimated. Some samples have multiple layers of material for testing and therefore single samples may require multiple analyses, hence the proposed number for budgetary considerations. We have also included up to 5 samples per structure (25 samples) for PLM (400) Point count analysis if additional confirmation of ACM content is necessary.

Please note that H&H anticipates performing destructive sampling on the interior and exterior of the structures, inclusive of roof materials that are readily accessible in a safe manner. We do not anticipate being required to repair damage sustained during inspection.

SUB-TASK B: LEAD PIPE/LEAD PAINT SAMPLING

1. Pre-Mobilization Activity

This task includes coordination with Client to obtain site plans/documents identifying floor plans within each structure and coordination with any necessary subcontractors and Village officials. In addition, this task includes the development of a site-specific Health & Safety Plan (HASP) for use during the proposed lead survey, prior to conducting the on-site survey.



2. Lead sampling and Laboratory Analysis

The H&H survey will include a surface-by-surface assessment of painting/coating materials that were used in each structure for lead by use of a hand-held X-ray fluorescence device (XRF). XRF is a non-destructive analytical technique used to identify the elemental composition of materials. The process involves emitting high-energy radiation in the form of X-ray to excite atoms and measuring the fluorescence energy emitted, which is unique to each element. The XRF device will be used to measure lead concentrations in surface painting/coatings at or above the IDPH Standard of 1.0 mg/cm2. The XRF will also be used to assess the presence of lead in exposed pipes and radiators throughout the structure.

If pipes cannot be accessed or if deemed necessary, H&H will attempt to collect up to three (3) flushed-water samples to assess whether there is lead residue in the piping system and/or service lines. The water samples will be analyzed by a National Environmental Laboratory Accreditation Program (NELAP) certified laboratory.

The LBP survey will also include a general paint conditions assessment of readily accessible painted surfaces on the interior and exterior of the building. If lead concentrations are present at or above 1.0 mg/cm2 in paints that are removed from the original substrate it was originally adhered to (for example, flaking or chipping), a paint chip sample will be collected and analyzed will be analyzed to assess whether it is considered a non-hazardous solid waste or as a hazardous waste due to its characteristics. LBP waste meets the definition of hazardous if it has a concentration of lead equal to or greater than 5.0 milligrams per liter (mg/l), as indicated by the Toxicity Characteristic Leaching Procedure (TCLP). In support of the screening via XRF, we have included confirmation analysis of up to seven (7) samples via total analysis method and up to three (3) samples via TCLP analysis method for each structure, for a total of thirty-five (35) total and fifteen (15) TCLP samples.

A lead inspector accredited by the USEPA and Illinois Department of Public Health (IDPH) will conduct the inspections and potential water and paint-chip sampling of the buildings. Lead-baring substances identified by H&H will be photographed and documented on the floor plans.

SUB-TASK C: RESTRICTED UNIVERSAL WASTE SURVEY

1. Pre-Mobilization Activity

This task includes coordination with Client to obtain site plans/documents identifying floor plans within the structures and coordination with any necessary subcontractors and Village officials. In addition, this task includes the development of a site-specific Health & Safety Plan (HASP) for use during the proposed U-waste surveys, prior to conducting the on-site surveys.

2. H&H will visually evaluate the Properties for the presence of hazardous or potentially hazardous materials, including restricted U-wastes including polychlorinated biphenyl (PCB)-containing ballasts, mercury containing switches, fluorescent lamps, and refrigerants. We will inventory any abandoned containerized materials observed, which may include chemical products (i.e.: acids, caustics, miscellaneous chemicals, etcetera), petroleum products (i.e.: fuel, hydraulic/motor oils, paints, and thinners), and gasses (i.e.: carbon dioxide, propane, halons, and chlorofluorocarbons). In addition, H&H will make observations as to whether building materials may be impacted by hazardous waste or petroleum hydrocarbons that may require cleaning, special handling, and/or disposal prior to or during demolition. We have included costs for up to five (5) PCB samples for each structure, for a total of twenty-five (25) samples.



SUB-TASK D: PRE-DEMOLITION SURVEY REPORT PREPARATION

A letter report will be prepared summarizing the findings of the asbestos-containing material, lead, and restricted universal waste survey and the associated sample analyses for each property, four (4) total. The reports will also include a summary of the sampling protocols, description of sampled material, location of materials on the interior and exterior of each structure, approximate quantities of ACM and U-waste materials, and the lead concentration for each surface identified during the surveys. The letter report will contain a summary of the findings and a figure showing the sampling locations.

Task 3 - QA/QC

Time under this task includes QA/QC time for the PSI and Pre-Demo Survey project deliverables as described above.

Task 5 – Project Administration

Time under this task includes project administration and management activities that include cost and schedule tracking, coordination with Client on authorized activities, document production and other in-house management activities.

3. PROJECT COSTS

Costs have been included on the attached CECS spreadsheets.

4. LEVEL OF EFFORT AND SCHEDULE

The PSI is anticipated to commence upon approval by Client and will require approximately sixteen (16) weeks to complete. We do not recommend commencing with the PSI too early in the Phase 2 design stage since it is inclusive of CCDD documentation. Due to industry trends with some facilities seeking to approve projects only if analytical data is less than 1-year old, we recommend timing the completion of the PSI as close to the final design needs as possible to ensure the data is considered contemporary by CCDD receiving facilities. The ACM, LBP, and U-Waste Survey work will commence within five (5) days of the notice to proceed (NTP), dependent upon availability of rental equipment (XRF) and will require approximately ten (10) weeks to complete. This schedule can be adjusted to accommodate the schedule of the project owner to ensure milestones are met.

5. TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES

CONDITIONS OF ENGAGEMENT

The conditions of engagement are described in the attached Terms and Conditions for Professional Services. H&H'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. H&H would be pleased to discuss the conditions associated with any additional dissemination, use, or reliance by other parties.

February 16, 2024



ACCEPTANCE

This agreement may be accepted by signing in the appropriate space below and returning one complete copy to H&H. Issuance of a Purchase Order implicitly acknowledges acceptance of this proposal. 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) 684-9100 with any questions.

Very truly yours,

Huff & Huff, Inc., a subsidiary of GZA, inc.

Jeremy J. Reynolds, P.G. Associate Principal

Attachments: Terms and Conditions

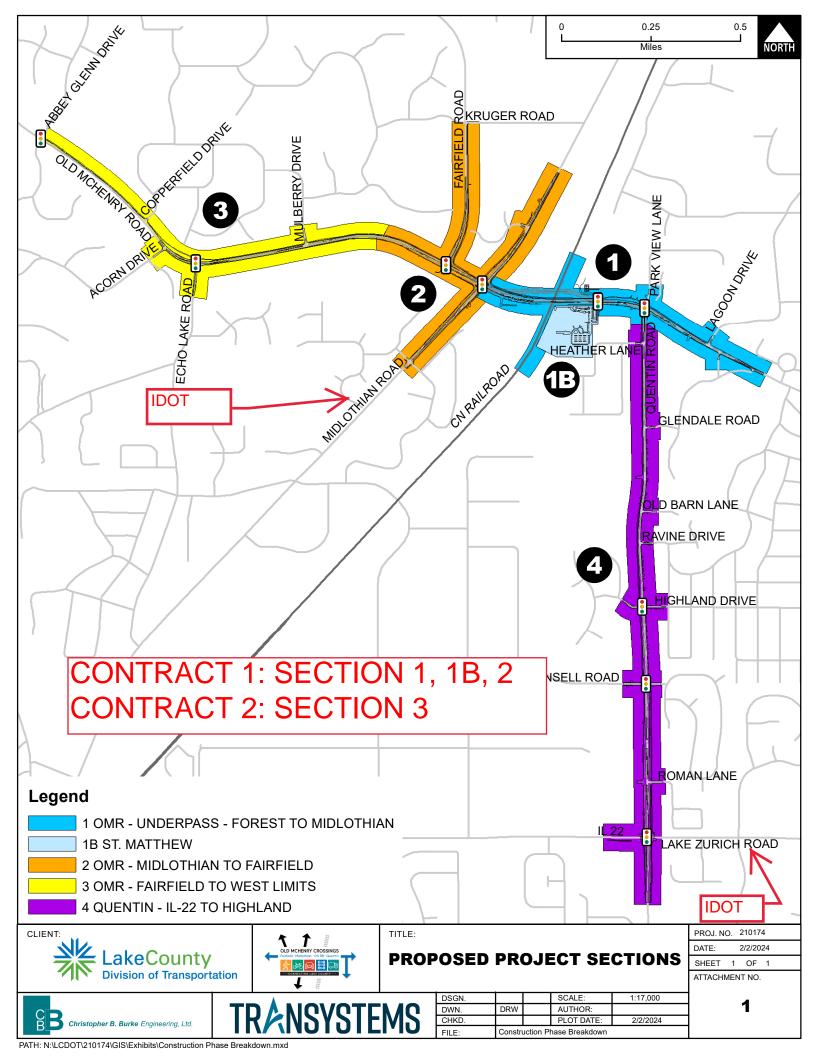
IDOT BLR 05514 Cost Sheets

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.





ATTACHMENT A

TERMS AND CONDITIONS



TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES

© 2023 by Huff & Huff, Inc., a Subsidiary of GZA GeoEnvironmental, Inc.

Client ("You"): Christopher B. Burke engineering, Ltd.

Proposal No: 81.P013151.24

Site: LCDOT Old McHenry Crossings Contract 1

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 above.

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 (the "Services"). 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 professional 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.
- c. EXCEPT AS SET FORTH IN SUBSECTIONS 2a 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 the 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 (including costs for time expended by in-house counsel, which will be charged to you at the prevailing market rate for attorneys of similar experience practicing in the jurisdiction).
- 4. Your Responsibilities.
- a. Except as otherwise agreed in writing, you will secure the access agreements, 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 (including, if applicable, asbestos containing materials ["ACM"]) 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 contractor or 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 defend, indemnify and hold harmless, to the fullest extent permitted by law, you and H&H and its officers, directors, members, partners, agents, employees, and subconsultants (the "H&H Indemnitees"), 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 to ensure that such policies are primary and noncontributory with regard to the above indemnity obligations; 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 (but in any event prior to the commencement of the Services) 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 the H&H Indemnitees for any claims by the Site owner related to alleged trespass by H&H or its subcontractors. Although H&H will exercise reasonable care to limit damage to landscaping, paving, systems and structures at the Site, you acknowledge that some damage may occur even with the exercise of due care 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 Agreement 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.

(02/23-Edition/05-9010) February 28, 2023

- 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. YOU SHALL INDEMNIFY AND HOLD HARMLESS THE H&H INDEMNITEES FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEYS' FEES, ARISING OUT OF OR RESULTING FROM ANY USE, REUSE, OR MODIFICATION OF THE DOCUMENTS WITHOUT WRITTEN VERIFICATION, COMPLETION, OR ADAPTATION BY H&H AND SUCH LIMITED LICENSE TO YOU SHALL NOT CREATE ANY RIGHTS IN THIRD PARTIES.
- **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, Certified Hazardous Materials Managers,, 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, including, if applicable, ACMs (the "Wastes") are removed from the Site, you will sign manifests naming you as the generator of the Wastes (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 Wastes are taken. H&H will not be the generator or owner of, nor will it possess, take title to, or assume legal liability for any Wastes 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 Wastes at or removed from the Site, other than any laboratory samples it collects or tests. You agree to defend, indemnify and hold the H&H Indemnitees 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 any Wastes.
- 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 the Services (including, without limitation, 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 the 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 the Services; (b) to comply with professional standards to protect public health, safety and the environment; and (c) to comply with laws, regulations, court orders and professional obligations. 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.

(o2/23-Edition/o5-9010) February 28, 2023

- **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 the H&H Indemnitees 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 written notice of such claim is 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. To the extent damages are covered by property insurance or any other insurance, both you and H&H waive all rights against each other and against the contractors, consultants, agents, and employees of the other, for damages, except such rights as they may have to the proceeds of such insurance as set forth in this Agreement. The you or H&H, as appropriate, shall require of the contractors, consultants, agents, and employees of any of them, similar waivers in favor of the other parties enumerated herein.

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. However, where non-payment of an invoice has occurred and H&H sends you a final demand letter for payment, your failure to respond within ten (10) days of receipt (or, for certified mail, the date of the first attempt to deliver the letter to your address of record if you ultimately do not accept receipt of the letter) of such letter will be deemed to be a waiver of your right to enforce this mediation clause and H&H may immediately file suit to enforce the terms of this Agreement.

20. Miscellaneous.

- a. This Agreement and all claims relating thereto shall be governed by the substantive and procedural laws of the State of Illinois, as they presently exist or may hereafter be amended, without regard to principles of conflict of laws.
- 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. No modification of these Terms and Conditions will be binding against H&H unless specifically approved in writing by a Principal of H&H.
- d. Having received these Terms and Conditions, your oral authorization to commence Services, your acceptance of performance of the Services, your accions, 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, even if signed by an authorized representative of
- 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, reimbursement, insurance proceeds or grant funds 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.
- 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.
- k. Any reports generated by H&H will be subject to H&H's standard report limitations for that particular type of report.
- 21. Asbestos Abatement Services (If Applicable). If the Services include asbestos abatement services, then the following terms and conditions will apply and will supersede any conflicting terms contained elsewhere in this Agreement.
- a. You acknowledge that conditions can vary from those encountered at the times and locations of explorations and data collection, and that the limitation on available data may result in some level of uncertainty with respect to the interpretation of those conditions, despite due professional care. H&H therefore cannot guaranty specific results such as the identification or removal of all asbestos or other contamination.

(o2/23-Edition/o5-9010) February 28, 2023



Terms and Conditions Page | 4 of 4

- 22. Microbial Services (If Applicable). If the Services include microbial services, then the following terms and conditions will apply and will supersede any conflicting terms contained elsewhere in this Agreement.
- a. You recognize that meeting the standard of care does not establish an assurance that corrective procedures will be permanent. Because Microbial infestations are created by near-omnipresent living microscopic spores, grows very quickly and are influenced by nanoclimatological conditions that are very difficult to detect and sources of water intrusion, elevated moisture or relative humidity over which H&H has neither control or responsibility, H&H cannot and does not claim that its Services will eliminate the risk of a Microbial infestation recurring.
- b. You acknowledge that the Services entail risk of personal injury and property damage (including cross-contamination) that cannot be avoided, even with the exercise of due care. You also acknowledge that environmental conditions can vary from those encountered at the times and locations of explorations and data collection, and that the limitation on available data may result in some level of uncertainty with respect to the interpretation of these conditions, despite due care. H&H therefore cannot guaranty specific results such as the identification of all contamination or other environmental conditions or problems nor their resolution.
- c. You acknowledge that Microbial infestations may be hidden from view and concealed in locations that are difficult to discover. Accordingly, you agree that despite H&H's efforts, some Microbial locations may remain undetected. In such situations, you agree that you will have no claim against H&H provided H&H followed all applicable laws and regulations pertaining to the Work.
- d. For purposes of this Agreement, Microbial is defined as any and all fungal and/or bacterial growth including but not limited to mold, mildew, yeast, fungus, fungi, bacteria, spores, odors, particulates, vapors, gas, or other emissions produced by or arising out of or toxins emanating therefrom.
- e. You further agree that where H&H shall performs Services intended to minimize the risk of Microbial infestations, H&H shall not be liable for damages resulting from Microbial contamination including but not limited to fungal or bacterial infestations and water damage or dry or wet rot and you agree to waive any Microbial infestation claim(s) against H&H, and you agree to indemnify, defend and hold the H&H Indemnitees harmless from any claim alleging that H&H's Services caused or aggravated a Microbial infestation or did not prevent a Microbial infestation from re-occurring.

(02/23-Edition/05-9010) February 28, 2023



ATTACHMENT B

IDOT BLR 5514 COST SHEETS



COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET **FIXED RAISE**

Local Public Agency

Lake County Division of Transportation

County Lake

Section Number TBD

Prime Consultant (Firm) Name

Christopher B. Burke Engineering, Ltd.

Prepared By

Date 5/28/2024

Consultant / Subconsultant Name

Huff & Huff, Inc., a subsidiary of GZA, Inc.

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

Job Number

JJR

Remarks

Phase 2 Environmental Services - OMR Crossings Contract 1 - PSI/CCDD, and Pre-demo Survey (4 Properties)

PAYROLL ESCALATION TABLE

CONTRACT TERM 24 MONTHS START DATE 6/1/2024 3/1/2025 RAISE DATE

OVERHEAD RATE 190.00% **COMPLEXITY FACTOR** 2.00% % OF RAISE

END DATE

5/31/2026

ESCALATION PER YEAR

				% of	
Year	First Date	Last Date	Months	Contract	
0	6/1/2024	3/1/2025	9	37.50%	
1	3/2/2025	3/1/2026	12	51.00%	
2	3/2/2026	6/1/2026	3	13.01%	

Local Public Agency	County	Section Number
Lake County Division of Transpo	ortation Lake	TBD
Consultant / Subconsultant Name		Job Number
Huff & Huff Inc. a subsidiary of G7	Δ Inc	

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	1.51%

CLASSIFICATION	IDOT PAYROLL RATES	CALCULATED RATE
	ON FILE	
Principal	\$85.96	\$86.00
Associate Principal III	\$83.37	\$84.62
Associate Principal II	\$76.01	\$77.15
Associate Principal I	\$71.92	\$73.00
Senior Project Manager III	\$73.19	\$74.29
Senior Project Manager I	\$56.56	\$57.41
Senior Landscape Architect	\$61.47	\$62.40
Senior Planning PM	\$59.03	\$59.92
Senior Technical Specialist II	\$62.64	\$63.58
Senior Technical Specialist I	\$55.79	\$56.63
Senior Scientist PM II	\$61.17	\$62.09
Senior Technical Scientist	\$57.15	\$58.01
Scientist PM II	\$53.34	\$54.14
Scientist PM I	\$46.97	\$47.68
Assistant PM Scientist	\$39.32	\$39.91
Environmental Engineer PM II	\$49.99	\$50.74
Environmental Engineer PM I	\$47.00	\$47.71
Assistant PM Engineer I	\$41.15	\$41.77
Engineer II	\$31.75	\$32.23
Engineer I	\$35.69	\$36.23
Scientist SI	\$34.50	\$35.02
Scientist SII	\$30.16	\$30.61
Technical Graphics Technician	\$27.73	\$28.15
Administrative Executive	\$52.42	\$53.21
Senior Administrative Assistant	\$36.31	\$36.86
Billing Administrator	\$25.00	\$25.38

BLR 05514 (Rev. 02/09/23)

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	TBD
Consultant / Subconsultant Name		Job Number
Huff & Huff, Inc., a subsidiary of GZA,	Inc.	

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant

Total 0.00 0.00

NOTE: Only subconsultants who fill out a cost estimate that splits out direct labor may be listed on this sheet.

Local	Public	Agency

Lake County Division of Transportation

Consultant / Subconsultant Name

County

Lake

Section Number

TBD

Job Number

Huff & Huff, Inc., a subsidiary of GZA, 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
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	450	\$0.67	\$301.50
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	9	\$7.60	\$68.40
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)	4	\$2,750.00	\$11,000.00
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	43	\$740.00	\$31,820.00
Lab Services	Actual Cost (Provide breakdown of each cost)	1	\$9,262.50	\$9,262.50
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)	4	\$750.00	\$3,000.00
Driller (day)	Actual Cost	4	\$2,750.00	\$11,000.00
Expendible Materials	Daily Rate	8	\$30.00	\$240.00
PID	Daily Rate	4	\$100.00	\$400.00
GPS	Daily Rate	4	\$100.00	\$400.00
		TOTAL DIR	ECT COSTS:	\$67,492.40

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	TBD
Consultant / Subconsultant Name		Job Number
Huff & Huff, Inc., a subsidiary of GZA, Inc.		

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE 190.00% COMPLEXITY FACTOR 0

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
PSI/CCDD	54,949	175	6,728	12,783	2,220	0	21,731	17.67%
Pre-Demo Survey (4 Properties)	12,544	173	7,741	14,708	2,555	0	25,004	20.33%
QAQC	0	20	1,493	2,837	493	0	4,823	3.92%
Project Administration	0	20	1,214	2,306	401	0	3,921	3.19%
Subconsultant DL							\$0.00	
Direct Costs Total ===>	\$67,492.40						\$67,492.40	54.88%
TOTALS		388	17,176	32,634	5,669	-	122,971	100.00%

49,810

Local Public Agency	County	Section Number	er
Lake County Division of Transportation	Lake	TBD	
Consultant / Subconsultant Name		Job Number	
Huff & Huff, Inc., a subsidiary of GZA, Inc.			

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OF <u>1</u> SHEET 1 Pre-Demo Survey (4 **PAYROLL** AVG TOTAL PROJ. RATES PSI/CCDD Properties) QAQC **Project Administration** 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 86.00 0.0 Associate Principal III 84.62 0.0 Associate Principal II 77.15 16.0 4.12% 1.32 0.58% 40.00% 30.86 3.18 3 1.71% 0.45 8 20.00% 15.43 4 Associate Principal I 73.00 20.0 5.15% 3.76 3 1.71% 1.25 0.58% 0.42 12 60.00% 43.80 4 20.00% 14.60 Senior Project Manager III 74.29 0.0 Senior Project Manager II 61.35 0.0 57.41 4.0 1.03% 0.59 20.00% Senior Project Manager I 11.48 Senior Landscape Architect 62.40 0.0 Senior Planning PM 59.92 0.0 Senior Technical Specialist II 63.58 0.0 Senior Technical Specialist I 56.63 81.0 20.88% 11.82 6 3.43% 1.94 75 43.35% 24.55 Senior Scientist PM II 62.09 0.0 Senior Technical Scientist 58.01 0.0 Scientist PM II 54.14 4.0 1.03% 0.56 20.00% 10.83 4 Scientist PM I 47.68 0.0 Assistant PM Scientist 39.91 30.0 7.73% 3.09 20 11.43% 4.56 10 5.78% 2.31 Environmental Engineer PM II 50.74 0.0 Environmental Engineer PM I 47.71 0.0 Assistant PM Engineer I 41.77 29.0 7.47% 3.12 25 14.29% 5.97 4 20.00% 8.35 Engineer II 32.23 0.0 50.0 Engineer I 36.23 12.89% 4.67 50 28.57% 10.35 Scientist SI 35.02 125.0 32.22% 11.28 50 28.57% 10.01 75 43.35% 15.18 Scientist SII 30.61 0.0 Technical Graphics Technician 28.15 25.0 6.44% 1.81 15 8.57% 2.41 10 5.78% 1.63 0.0 Administrative Executive 53.21 Senior Administrative Assistant 36.86 4.0 1.03% 0.38 3 1.71% 0.63 0.58% 0.21 Billing Administrator 25.38 0.0 **TOTALS** 388.0 100% \$44.27 175.0 100.00% \$38.44 173.0 100% \$44.75 20.0 100% \$74.66 20.0 100% \$60.70 \$0.00

HUFF & HUFF, INC. SUMMARY OF DIRECT COSTS

Project: CBBEL-LCDOT OMR Crossings Contract 1

								DIRECT
		_		_			_	
50 miles	X							167.50
						=		38.00
-	X						\$	120.00
-	X					=		11,000.00
	Χ				•			11,000.00
-	Х					=		400.00
1 day	Χ	4	Χ	\$	100.00	=	\$	400.00
1 ea	X	43	Χ	\$	115.00	=	\$	4,945.00
1 ea	X	43	Χ	\$	210.00	=	\$	9,030.00
1 ea	X	43	Χ	\$	155.00	=	\$	6,665.00
1 ea	X	43	Χ	\$	125.00	=	\$	5,375.00
1 ea	Х	43	Χ	\$	125.00	=	\$	5,375.00
1 ea	Х	43	Х	\$	10.00	=	\$	430.00
				\$	740.00		·	
				Ta	ask Total		\$	54,945.50
50 miles	X	4	Х	\$	0.670	=	\$	134.00
								30.40
1 ea	Х							3,187.50
								1,250.00
								875.00
_								1,575.00
								2,375.00
							\$	3,000.00
								120.00
1 day	^				-			120.00
	_	Ū	^		ask Total		\$	12,546.90
		0	Х			=	\$	_
				Ta	ask Total		\$	-
		0	Χ	_\$	- ask Total	_=	\$	
	1 day 1 day 1 day 1 day 1 ea 1 ea 1 ea 1 ea 1 ea	1 day x 1 ea x	1 day x 4 1 ea x 43 1 ea x 25 1 ea x 4 1 day x 4	1 day x 4 x 1 ea x 43 x 1 ea x 25 x 1 ea x 15 x 1 ea x 25 x 1 ea x 4 x 1 day x 4 x 0 x	1 day x 4 x \$ 1 ea x 43 x \$ 1	1 day x 4 x \$ 30.00 1 day x 4 x \$ 2,750.00 1 day x 4 x \$ 2,750.00 1 day x 4 x \$ 100.00 1 ea x 43 x \$ 115.00 1 ea x 43 x \$ 125.00 1 ea x 43 x \$ 125.00 1 ea x 43 x \$ 125.00 1 ea x 43 x \$ 10.00 Task Total 50 miles x 4 x \$ 0.670 4 x \$ 7.60 1 ea x 375 x \$ 8.50 1 ea x 25 x \$ 50.00 1 ea x 35 x \$ 25.00 1 ea x 15 x \$ 105.00 1 ea x 25 x \$ 95.00 1 ea x 4 x \$ 750.00 1 ea x 4 x \$ 750.00 1 day x 4 x \$ 30.00 0 x \$ - Task Total	5 x \$ 7.60 = 1 day x 4 x \$ 30.00 1 day x 4 x \$ 2,750.00 = 1 day x 4 x \$ 100.00 = 1 ea x 43 x \$ 115.00 = 1 ea x 43 x \$ 125.00 = 1 ea x 43 x \$ 125.00 = 1 ea x 43 x \$ 125.00 = 1 ea x 43 x \$ 10.00 = Task Total 50 miles x 4 x \$ 0.670 = 4 x \$ 7.60 = 1 ea x 375 x \$ 8.50 = 1 ea x 375 x \$ 8.50 = 1 ea x 35 x \$ 25.00 = 1 ea x 35 x \$ 25.00 = 1 ea x 35 x \$ 25.00 = 1 ea x 4 x \$ 750.00 = 1 day x 4 x \$ 30.00 = 0 x \$ - = Task Total	1 day x 4 x \$ 30.00 \$ 1 day x 4 x \$ 30.00 \$ 1 day x 4 x \$ 2,750.00 = \$ 1 day x 4 x \$ 2,750.00 = \$ 1 day x 4 x \$ 100.00 = \$ 1 day x 4 x \$ 100.00 = \$ 1 day x 4 x \$ 100.00 = \$ 1 day x 4 x \$ 100.00 = \$ 1 day x 4 x \$ 100.00 = \$ 1 day x 4 x \$ 100.00 = \$ 1 day x 4 x \$ 100.00 = \$ 1 day x 4 x \$ 125.00 = \$ 1 day x 4 x \$ 125.00 = \$ 1 day x 4 x \$ 125.00 = \$ 1 day x 4 x \$ 10.00 = \$ 1 day x 4 x \$ 7.60 = \$ 1 day x 4 x \$ 7.60 = \$ 1 day x 4 x \$ 105.00 = \$ 1 d

GRAND TOTAL \$ 67,492.40

HUFF & HUFF, INC. SUMMARY OF SERVICES BY OTHERS

Project: CBBEL-LCDOT OMR Crossings Contract 1

Took 4 DOUCCOD		OUTSIDE
Task 1 - PSI/CCDD	0 x <u>\$ - = \$</u> Task Total \$	
	Task Total \$	-
Task 2 -Pre-Demo Survey	0 v e – e	
	0 x <u>\$ - = \$</u> Task Total \$	<u>-</u>
Task 3 - QAQC	0 x <u>\$ - = \$</u> Task Total \$	-
	Task Total \$	-
	GRAND TOTAL \$	-

F:\Proposal-FY2024\CBBEL\McHenry Crossings\Contract 1\Revised May 2024\[REV 81.P013151.24 CBBEL OMR Cont

Mathewson Right of Way Company (MROWCO)

Contract Scope and Cost Estimate

AGREEMENT FOR LAND ACQUISITION CONSULTING SERVICES

TranSystems Corporation Old McHenry Crossings (Contract 1: Sections 1, 1B, and 2)

AGREEMENT between Mathewson Right of Way Company (MROWCO) whose address is 2024 Hickory Road, Suite 205, Homewood, Illinois 60430 and TranSystems Corporation (TRANSYSTEMS), whose address is 1475 E. Woodfield Road, Suite 600, Schaumburg, Illinois 60173.

MROWCO shall provide to TRANSYSTEMS, on behalf of the Lake County Division of Transportation (LCDOT), consulting services for the acquisition of right of way for the Old McHenry Crossings Project (PROJECT).

The PROJECT shall consist of the acquisition of approximately 57 parcels.

MROWCO shall perform the following services:

- 1. Appraisal
- 2. Specialty Report
- 3. Appraisal Review
- 4. Negotiation
- 5. Relocation
- 6. Closing
- 7. IDOT Certification
- 8. Project Management
- 9. Direct Expenses

All of the above are described as specified in Exhibit A: Scope of Services attached hereto.

TRANSYSTEMS shall compensate MROWCO for the services provided under this AGREEMENT as provided in Exhibit B: Compensation attached hereto. The total amount of compensation authorized by this agreement is not to exceed \$1,156,600.00.

Exhibit C: Terms and Conditions is attached hereto and made a part hereof.

Submitted this 22nd day of July, 2024.	Accepted this day of, 2024.
Mathewson Right of Way Company	TranSystems Corporation
By: MM	Bv:
Mark D. Mathewson	
President	

EXHIBIT A: SCOPE OF SERVICES

MROWCO agrees to perform, at the direction of TRANSYSTEMS, the following services:

- 1. Appraisal
- 2. Specialty Report
- 3. Appraisal Review
- 4. Negotiation
- 5. Relocation
- 6. Closing
- 7. IDOT Certification
- 8. Project Management
- 9. Direct Expenses

All services called for in this AGREEMENT will be conducted by an individual or individuals whose qualifications have been approved by the Illinois Department of Transportation, when applicable. All service providers shall be subject to Lake County approval.

All services within the scope of this AGREEMENT shall be performed, where applicable, in accordance with the IDOT Land Acquisition Policies and Procedures Manual, hereinafter referred to as the LAPPM.

APPRAISALS

Determinations of fair market value performed by the Appraiser shall be in accordance with the LAPPM.

The Appraiser shall make a detailed inspection of the properties and make such investigations and studies as are necessary to derive sound conclusions for the preparation of appraisal reports.

Valuations shall be prepared as outlined in the LAPPM. The format to be used shall be one of the following types as described in the LAPPM:

- Non-Complex Appraisal Report
- Complex Appraisal Report

The Appraiser is to determine which type of appraisal format should be used for each parcel and obtain the LCDOT's concurrence. MROWCO shall provide a copy of an appraisal of each parcel together with Improvement Disposition Values form to be submitted to the LCDOT for approval.

For all fee simple acquisitions and any Permanent or Temporary Easement involving compensation greater than \$10,000.00, the Appraisal Report shall include the appraiser's opinion as to the value of the Total Holding.

TranSystems Corporation
Old McHenry Crossings Project
Agreement for Land Acquisition Consulting Services

Property needed shall be acquired by fee simple, dedication, permanent easement, temporary use permit, or temporary easement as determined and shown on the right of way plan furnished by TRANSYSTEMS.

It may be necessary for a completed appraisal to be updated for condemnation purposes or revised due to a change in the ROW plat or due to new information provided by the LCDOT or TRANSYSTEMS. These updates or revisions will be assigned to the Appraiser in a separate work order as the need arises. An Appraiser's revision of the appraisal due to the Review Appraiser's comments or corrections does not constitute an update or revision that would necessitate a separate work order.

On parcels that require the acquisition of a residence, it may be necessary for the Appraiser to perform an additional analysis to determine an allocated value for the residence and home site as separate from the whole parcel to be acquired. This would be needed for relocation purposes and is not to be included in the appraisal report. The cost for the additional appraisal analysis will be established in the work order for that appraisal.

The Appraiser shall prepare a comparable sales brochure in accordance with the LAPPM for each project and as directed by the LCDOT.

The Appraiser shall prepare grids that compare comparable sales to the subject parcel, where appropriate.

The Appraiser shall include land and improvement allocations in the comparable sales data section of all appraisals.

The Non-Complex Appraisal Report and Complex Appraisal Report, and an updated or revised appraisal report, shall be deemed complete when an acceptable appraisal report is submitted by MROWCO and approved by the LCDOT.

Appearances in court and/or pretrial conferences, which include depositions and preparation time for depositions and court, may be required for the appraisal services requested herein. The time spent at such appearance or appearances shall be made upon request of the LCDOT or its trial counsel and shall be paid for as specified in Exhibit B.

Appraiser may be asked to perform a Cost Analysis for appropriation purposes, said Cost Analysis shall be compensated as provided under Project Management.

Appraiser may be asked to provide a Comparable Sales Book as an on-going assignment independent of individual appraisals.

MROWCO staff may assist in the preparation of appraisal work.

SPECIALTY REPORTS

Specialty Reports performed by MROWCO must be in accordance with the LAPPM. It is MROWCO's responsibility to ensure that all items affecting the value of the property have been considered in the Specialty Report.

MROWCO shall make sufficient inspection of the properties and make such investigations and studies as are necessary to derive sound conclusions to support the specialty report.

Work is to be performed by a licensed Engineer, Architect, or appropriately licensed person in that specific field or MROWCO must certify that a bona fide employee working solely for MROWCO assisted in preparations of the report. If MROWCO is not qualified to perform assigned tasks, MROWCO may then employ the services of a qualified SUBCONTRACTOR.

The Specialty Report, and an updated or revised specialty report, shall be deemed complete when an acceptable Specialty Report is submitted by MROWCO and approved by the LCDOT.

Each Specialty Report shall be paid for as specified in Exhibit B.

It may be necessary for a completed specialty report to be updated or revised due to a change in the ROW Plat. Each updated or revised specialty report shall be paid for as specified in Exhibit B.

Appearances in court and/or pretrial conferences, which include depositions, may be required for the specialty report services requested herein. The time spent at such appearance or appearances shall be made upon request of the LCDOT or its trial counsel and shall be paid for as specified in Exhibit B.

REVIEW APPRAISALS

All appraisals must be reviewed and certified by a Review Appraiser. Appraisal reviews performed by the Review Appraiser must be in accordance with the LAPPM. It is the Review Appraiser's responsibility to ensure that all items affecting the value of the property have been considered in the appraisal. A study of the comparable sales brochure is considered as part of the appraisal review.

The Review Appraiser must complete an Appraisal Review Certification for all appraisal reviews.

It may be necessary for a completed appraisal review to be updated due to a change in the ROW plat or due to new information provided by the LCDOT. These updates or revisions will be assigned to MROWCO in a separate work order as the need arises. A Review Appraiser's second or other subsequent review of an appraisal, rewritten by the appraiser due to the Review Appraiser's comments or corrections, does not constitute an update or revision to the appraisal review that would necessitate a separate work order.

The Appraisal Review for the Non-Complex Appraisal Report and Complex Appraisal Report, and an updated or revised appraisal review, shall be deemed complete when an acceptable Appraisal Review is submitted by MROWCO and approved by the LCDOT.

TranSystems Corporation
Old McHenry Crossings Project
Agreement for Land Acquisition Consulting Services

Appearances in court and/or pretrial conferences, which include depositions, may be required for the review appraisal services requested herein. The time spent at such appearance or appearances shall be made upon request of the LCDOT or its trial counsel and shall be paid for as specified in Exhibit B.

The Review Appraiser may be asked to review a Comparable Sales Book as an on-going assignment independent of individual appraisals.

MROWCO staff may assist in the preparation of review appraisal work.

NEGOTIATIONS

The Negotiator is responsible for all land acquisition negotiations conducted under this AGREEMENT. Negotiations shall be in accordance with the LAPPM. The negotiator shall:

- Be the LCDOT's representative to the property owner.
- Work with the Project Manager to receive and understand the scope of work for each work order and the associated deadlines/time frames involved.
- Establish schedules for each activity and report the progress to the Project Manager to assure a quality product.
- Assure that the deadlines assigned are met.
- Maintain channels of communication.
- Provide a quality product.

Before the initiation of negotiations for each parcel, the LCDOT must approve the amount of just compensation. The Negotiator shall fully document on an ongoing basis all efforts made to acquire the parcel in the Negotiator's Report. Said report shall be available to the LCDOT as reasonably requested.

The Negotiator may recommend administrative settlements as outlined in the LAPPM. Administrative settlements will be determined by the LCDOT on an individual parcel basis.

In the event MROWCO, after having made every reasonable effort to negotiate with the owner of a parcel, is unable to obtain a settlement on the approved appraisal amount, MROWCO shall prepare and submit a written report summarizing the progress of negotiations to date together with a copy of MROWCO's Negotiator's Report completed to date with the names and addresses of all interested parties. MROWCO's written report shall also include its recommendation for further procedure towards acquiring the parcel. The LCDOT may elect to prepare and forward a Final Offer letter (with copy to MROWCO) to the owner of the parcel and thereafter refer the matter to the State's Attorney's Office to proceed with preparation of a condemnation petition. In any case, the LCDOT reserves the right to require MROWCO to make additional negotiation contacts with the parcel owner up until the actual date of filing a petition to condemn the parcel.

The negotiation for a parcel will be deemed complete when all required documents necessary to obtain title approval are submitted and approved by the LCDOT. If a negotiated settlement cannot

TranSystems Corporation
Old McHenry Crossings Project
Agreement for Land Acquisition Consulting Services

be reached, the negotiation for a parcel will be deemed complete when the documentation for eminent domain action is submitted and approved by the LCDOT, and the complaint is filed.

If requested to do so, MROWCO shall provide title review and an attorney's approval letter provided by Mathewson & Mathewson, P.C. for no additional cost.

Each Updated Negotiation or Revised Negotiation shall be paid for at the per parcel fee as specified in Exhibit B. An updated negotiation or revised negotiation is defined as additional negotiation work requested by the LCDOT due to new parcel information supplied by the LCDOT to MROWCO after first contact with the property owner. New parcel information could include, but is not limited to, significant changes in the area of the acquisition; updated (and modified) appraisal amounts that require revised negotiation documents; updated (and modified) title information that requires negotiations with additional property owner(s). Any additional work required to obtain title approval does not constitute an update or revision that would necessitate a separate work order.

Where the acquisition of a parcel involves the displacement of an owner or tenant occupant from a residence or any personal property thereof, MROWCO shall coordinate the offering of relocation assistance any payments to each displaced owner-occupant simultaneously with initiation of negotiations and to each displaced tenant-occupant within seven (7) days following initiation of negotiations for the parcel.

Appearances in court and/or pretrial conferences, which include depositions, may be required for the negotiation services requested herein. The time spent at such appearance or appearances shall be made upon request of the LCDOT or its trial counsel and shall be paid for as specified in Exhibit B.

RELOCATION

Relocation work performed by the Relocation Agent must be in accordance with the LAPPM.

The Relocation Agent shall prepare a relocation plan for the full scope of each project in accordance with the LAPPM. All identified relocation units on the project, including advanced acquisitions, must be addressed in the relocation plan. This relocation plan shall be submitted to the LCDOT for review and approval prior to initiation of negotiations.

It may be necessary for a completed relocation plan to be supplemented due to a change in the LCDOT's project. These supplements, or relocation plan addenda, will be assigned to the Relocation Agent in a separate work order as the need arises. All relocation plan addenda shall be submitted to the LCDOT for review and approval prior to initiation of negotiations.

The Relocation Agent shall be required to provide relocation assistance, advisory services, and determine the amount of payments to be provided to a displaced person. The Relocation Agent shall submit all computations for replacement housing payments and requests for housing of last resort payment to the LCDOT for review and approval prior to initiation of negotiations.

The Relocation Agent shall be required to personally contact the property owner or occupant at the onset of the relocation process, present the appropriate informational letter, and provide information about the relocation advisory assistance and payments that will be made available to them. The Relocation Agent is required to remain in continual personal contact with the displaced person throughout the relocation process to assist in their relocation. A log of each contact will be maintained on an ongoing basis as part of the Relocation Assistance Unit Record.

All relocation claims, along with their necessary supporting documentation, shall be submitted to the LCDOT for review and final approval.

The Relocation Agent shall maintain an accurate and up-to-date file for each relocation unit, including moving expense records, replacement housing payment records, all relevant correspondence and the Relocation Assistance Unit Record. This file will be provided to the LCDOT upon completion of the relocation for that unit.

The Relocation Agent shall forward all written requests for review of disputed relocation claims to the LCDOT.

The Relocation Plan and Relocation Plan Addendum shall be deemed complete when an acceptable Relocation Plan or Relocation Plan Addendum is submitted and approved.

The Residential and Non-Residential Relocation activities shall be deemed complete when the subject property is vacated and able to be utilized for construction of the project, and the displaced person has received all payments.

Each Unit relocated by MROWCO shall be paid for as specified in Exhibit B.

Each Relocation Plan and Addendum prepared by MROWCO shall be paid for as specified in Exhibit B.

CLOSINGS

MROWCO shall attend or otherwise supervise the actual closing of each acquired parcel. It is anticipated that most closings will not require an escrow transaction but it is understood that certain acquisitions are best facilitated through an escrow closing.

IDOT CERTIFICATION

MROWCO shall complete the IDOT D1 Bureau of Land Acquisition Right of Way Certification process on behalf of the LCDOT.

PROJECT MANAGEMENT

MROWCO shall establish a Project Manager who will be knowledgeable and responsible for all services performed under this AGREEMENT. The main duties of the Project Manager may include:

- Be the liaison between the LCDOT, TRANSYSTEMS and MROWCO and coordinate all daily project activities of MROWCO.
- Understand the scope of work for each work order and the associated deadlines/timeframes the LCDOT needs to meet.
- Assist LCDOT and TRANSYSTEMS in value engineering by anticipating right of way acquisition costs and issues.
- Assign work to appropriate staff.
- Coordinate all deliverables, keep project on schedule and maintain the channels of communication between the LCDOT, TRANSYSTEMS and MROWCO.
- Provide the appropriate staff and SUBCONSULTANTS that have knowledge of and will follow Illinois Department of Transportation's LAPPM.
- Submit accurate invoices that have documentation to support the invoiced amount.
- Ensure SUBCONTRACTORS' prompt and efficient performance.
- Provide QA/QC oversight.
- Provide coordination with the LCDOT, TRANSYSTEMS and IDOT to obtain project right of way, herein referred to as ROW, certification when necessary.

As noted above, the Project Manager shall task the appraiser with preparing a Project Cost Analysis for appropriation and management purposes.

EXHIBIT B: COMPENSATION

The services to be provided by MROWCO under this agreement shall be assigned and compensated as provided in the attached EXHIBIT B-1.

The sum total of all services provided for in this AGREEMENT shall not exceed \$1,156,600.00.

Direct Expenses shall include later date title charges, document copy fees, partial release fees, trustee fees, Title Insurance, Escrow closing fees, recording and other closing costs imposed by the title company.

It is understood that appearances in court and pretrial conferences may be required in relation to the negotiation services called for herein and it is agreed that such appearance or appearances shall be made upon request of the LCDOT or its trial counsel.

In event of such services being requested, they will be provided as follows:

- (a) Rate each half day or fraction thereof for time spent in pretrial conference \$1,000.00.
- (b) Rate each half day or fraction thereof for time spent in court \$1,000.00.

The fees for services shall include all transportation, food, lodging, telephone, or any other operating expenses incurred by MROWCO in the performance thereof.

EXHIBIT B-1

Lake County Division of Transportation Old McHenry Crossings/Old McHenry Road Land Acquistion Scope and Budget

Contract 1: Sections 1, 1B, and 2

			Specialty							
Acquistion Type/Category	Count	Appraisal	Report	Review	Negotiation	Relocation	Closing	IDOT Cert	Total	Extension
Residential										
TE Only	6	\$3,000.00		\$1,500.00	\$4,000.00		\$1,000.00	\$1,000.00	\$10,500.00	\$63,000.00
Pernanent Take (No Relo)	22	\$4,000.00		\$2,000.00	\$5,000.00		\$1,500.00	\$1,000,00	\$13,500.00	\$297,000.00
Residentil Relo Only	2	\$4,000.00		\$2,000.00	\$7,500.00	\$10,000.00	\$2,000.00	\$1,000.00	\$26,500.00	\$53,000.00
Residential + Business Relo	2	\$4,000.00		\$2,000.00	\$7,500.00	\$15,000.00	\$2,000.00	\$1,000.00	\$31,500.00	\$63,000.00
Non-Residential										
General	14	\$5,000.00		\$2,500.00	\$7,500,00		\$2,000.00	\$1,000.00	\$18,000.00	\$252,000.00
Village Owned	7	\$2,000.00		\$1,000.00	\$1,500.00		\$300.00	\$500.00	\$5,300.00	\$37,100.00
Fire Protection District	1	\$5,000.00		\$2,500.00	\$5,000.00		\$2,000.00	\$1,000.00	\$15,500.00	\$15,500.00
EJE RR (CN)	1	\$9,000.00		\$4,500.00	\$10,000.00		\$2,000.00	\$1,000.00	\$26,500.00	\$26,500.00
Hawthorn Gardens	1	\$5,000.00	\$10,000.00	\$2,500.00	\$7,500.00		\$2,000.00	\$1,000.00	\$28,000.00	\$28,000.00
Lutheran Church	1	\$9,000.00	\$15,000.00	\$4,500.00	\$10,000.00		\$2,000.00	\$1,000.00	\$41,500.00	\$41,500.00
Totals	57									\$876,600.00
Project Management	Hours	Rate	Extension							
Attorney	200	\$350.00	\$70,000.00							
Staff	150	\$250.00	\$37,500.00							
Appraiser (Cost Analysis)	40	\$300.00	\$12,000.00							
			\$119,500.00							\$119,500.00
Direct Expenses	57	\$1,500.00								\$85,500.00
										\$1,081,600.00
Contingency										\$75,000.00

Total Notes:

1. Village Owned: The Village of Hawthorn Woods is assumed to own seven (7) parcels as defined by the IDOT Land Acq. Manual. Each may require an individual appraisal. The appraisal rate quoted is per appraisal and will be charged assuming there are at least three appraisals required. The negotiation, closing and certification fees will be charged in the aggregate as shown regardless of the parcel count as long as all parcels are acquired as part of one transaction.

\$1,156,600.00

- 2. Any cross access easements required will be covered as project management.
- 3. Participation in RR Construction and Maintenance Agreements will be chagred as Project Management.
- 4. Contingency will be used as required for additional parcels, parcel revisions, owner changes and the like.

EXHIBIT C: TERMS AND CONDITIONS

1. Parcels

TRANSYSTEMS shall provide MROWCO with relevant plats of highways, legal descriptions and construction plans for each parcel to be acquired. Each parcel shall consist of one or more basic parcels of land required as right of way for highway purposes to be acquired in fee simple title, and such other easements (temporary or permanent) for uses incidental to construction of the highway but which are not considered as part of the highway right of way, all of which are under the same ownership involving a complete contiguous parcel.

2. Termination

TRANSYSTEMS may terminate this AGREEMENT at any time and for any cause by a notice in writing to MROWCO. In the event of such termination, payment will be made to MROWCO for any completed services. Services in the process of completion shall be compensated for on an equitable basis and all incomplete parcel data collected in connection with them shall be turned over and become the property of the LCDOT; provided, however, this AGREEMENT be terminated solely because the progress or quality of work is unsatisfactory as determined by the LCDOT or TRANSYSTEMS accepting this AGREEMENT, then no payment will be made or demanded by MROWCO for any services which have not been completed and delivered to TRANSYSTEMS and the LCDOT prior to the date of said termination.

3. Project Materials

- a. It is understood and agreed that the LCDOT shall be considered the sole owner of all plats, legal descriptions, ownership and occupancy records, forms of deeds and easements, title reports, and any and all other material furnished, prepared or obtained by MROWCO during the course of providing its services for the parcel and shall be maintained in a separate parcel file for the parcel assigned. MROWCO will provide a copy of the original file of the parcel during the course of the project to the LCDOT. MROWCO will provide a timely update of all documents that pertain to the parcel during the course of the project. Upon completion of the project the original file will be delivered to the LCDOT. Upon termination of this AGREEMENT for any cause or upon completion of the acquisition of the parcel or upon request of the LCDOT when acquisition is determined to be by Eminent Domain proceedings, MROWCO's parcel file shall be delivered to the LCDOT. MROWCO's parcel files shall be available for inspection or review of its contents by the LCDOT, Illinois Department of Transportation or Federal Highway Administration personnel at any time.
- b. Electronic copies shall be provided unless the LCDOT requests to the contrary.

4. Records Preservation

MROWCO shall maintain, for a minimum of five years after the completion of the AGREEMENT, adequate books, records, and supporting documents to verify the amount, recipients, and uses of all disbursements of funds passing in conjunction with the AGREEMENT; the AGREEMENT and all books, records, and supporting documents related to the AGREEMENT shall be available for review and audit by the LCDOT Auditor; and the MROWCO agrees to cooperate fully with any audit conducted by the Auditor 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 LCDOT for the recovery of any funds paid by the LCDOT under the AGREEMENT for which adequate books, records, and supporting documentation are not available to support their purported disbursement.

5. Consultant Certifications and Representations

- a. MROWCO certifies that MROWCO has read the certifications and assurances described in this AGREEMENT and in the Standard Provisions, and certifies that Mark D. Mathewson's signature on the AGREEMENT constitutes an endorsement and execution of each certification and assurance as though each were individually signed, and made on behalf of the contracting entity and its officers and each individual authorized to do work for the LCDOT under this AGREEMENT.
- b. MROWCO under penalties of perjury, certifies that 20-3870734 is its correct Federal Taxpayer Identification number. It is doing business as a Corporation.
- c. MROWCO certifies that it is not in default on an educational loan.
- d. MROWCO certifies that it is not barred from bidding on State of Illinois AGREEMENTs because of violations of State law regarding bid rigging or rotating. 720 ILCS 5/33E-3, 33E-4.
- e. MROWCO certifies that it will not engage in the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance in the performance of this AGREEMENT, or if a corporation, partnership, or other entity with 25 or more employees, have completed and signed a "DRUG-FREE WORKPLACE CERTIFICATION."
- f. MROWCO, under penalty of perjury under the laws of the United States, certifies that the company or any person associated therewith in the capacity of owner, partner, director, officer, principal investigator, project director, manager, auditor, or any position involving the administration of federal funds:
 - i. is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency;

- ii. has not been suspended, debarred, voluntarily excluded or determined ineligible by any federal agency within the past three years;
- iii. does not have a proposed debarment pending; and
- iv. has not been indicted, convicted, or the subject of a civil judgment by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three years.
- g. MROWCO certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois nor has MROWCO made admission of guilt of such conduct which is a matter of record, nor has any official, officer, agent, or employee of this company been so convicted nor made such an admission.
- h. MROWCO is hereby notified that the LCDOT, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252) and Title 49, Code of Federal Regulations, Part 21, issued pursuant to such Act, will affirmatively insure that any AGREEMENT entered into pursuant to this AGREEMENT will be awarded without discrimination on the grounds of race, color, or national origin.
- i. MROWCO warrants and represents that it is fully qualified to provide the services hereunder provided for in this Agreement.

6. Disclosures

- a. MROWCO hereby certifies that if any conflict of interest arises, in any of the parcels subsequently assigned to it, it will immediately, within 5 business days of receipt, inform the LCDOT accepting this AGREEMENT and return all material furnished to him for reassignment to others.
- b. It is understood and agreed that Appendices A and B shall be a part of this AGREEMENT and MROWCO agrees to be bound by the terms and provisions contained herein.
- c. MROWCO warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for it, to solicit or secure this AGREEMENT, and that it has not paid or agreed to pay any company or person, other than a bona fide employee working solely for it, any fee, commission, percentage, brokerage fee, gift, or any other consideration, contingent upon or resulting from the award or making of the AGREEMENT. For breach or violation of this warranty, the LCDOT shall have the right to annul this AGREEMENT without liability.

7. Indemnity

MROWCO will indemnify and hold harmless the LCDOT from all claims and liability due to activities of himself, its agents, and its employees and will comply with all Federal, State, and local laws and ordinances.

8. Insurance

MROWCO shall obtain Commercial General Liability in a broad form, to include but not be limited to, coverage for the following where exposure exists: Bodily Injury and Property Damage, Premises/Operations, Independent contractors, Products/Completed Operations, Personal Injury, Professional Liability and contractual Liability; limits of liability not less than: \$1,000,000.00 per occurrence and \$2,000,000.00 in the aggregate.

Business Auto Liability to include, but not be limited to, coverage for the following where exposure exists: Owned Vehicles, Hired and Non-Owned Vehicles and Employee Non-Ownership; limits of liability not less than: \$1,000,000.00 per occurrence, combined single limit for Bodily Injury and Property Damage Liability. Workers' Compensation Insurance will cover all employees that meet statutory limit in compliance with applicable state and federal laws. The coverage must also include employer's liability with minimum limits of \$100,000.00 for each incident.

The LCDOT shall be provided with Certificates of Insurance evidencing the above required insurance prior to the commencement of services and thereafter with the certificates evidencing renewals or changes to said policies of insurance at least fifteen (15) days prior to the expiration or cancellation of any such policies. The LCDOT shall be named as additional insured on all liability policies, and MROWCO acknowledges that any insurance maintained by the LCDOT shall apply in excess of, and not contribute to, insurance provided by MROWCO. The contractual liability arising out of the AGREEMENT shall be acknowledged on the Certificate of Insurance by the insurance company.

The LCDOT shall be provided with thirty (30) day prior notice, in writing, of Notice of Cancellation or material change and said notification requirements shall be stated on the Certificate of Insurance.

9. Breach

Nothing herein shall be construed as prohibiting the parties to the AGREEMENT from pursuing any other remedies available to the parties for such breach or threatened breach, including recovery of damages from the parties. This provision shall survive any termination of this AGREEMENT.

10. Governing Law

Terms of this AGREEMENT will be governed by Illinois law.

11. Transferability

MROWCO agrees that this AGREEMENT or any part thereof will not be sublet or transferred without the written consent of the LCDOT accepting this AGREEMENT.

12. Execution of AGREEMENT

In the event this AGREEMENT is executed, it shall constitute a contract as of the date it is approved by the LCDOT or its authorized representative and shall be binding on MROWCO, its executors, administrators, successors or assigns, as may be applicable.

STATE OF ILLINOIS DRUG FREE WORKPLACE CERTIFICATION

This certification is required by the Drug Free Workplace Act (III. Rev. Stat., ch. 127, par. 152.311). The Drug Free Workplace Act, effective January 1, 1992, requires that no grantee or contractor shall receive a grant or be considered for the purposes of being awarded a contract for the procurement of any property or services from the State unless that grantee or contractor has certified to the State that the 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, suspersion of contract or grant payments, termination of the contract or grant and debarment of contracting or grant opportunities with the State for at least one (1) year but not more than five (5) years.

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

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

- (a) Publishing a statement:
- Notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance, including cannabis, is prohibited in the grantee's or contractor's workplace.
- (2) Specifying the actions that will be taken against employees for violations of such prohibition.
- (3) Notifying the employee that, as a condition of employment on such contract cr grant, the employee will:
- (A) abide by the terms of the statement; and
- (B) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.
- (b) Establishing a drug free awareness program to inform employees about:
- the dangers of drug abuse in the workplace;
- (2) the grantee's or contractor's policy of maintaining a drug-free workplace;
- (3) any available drug counseling, rehabilitation, and employee assistance program; and

- (4) the penalties that may be imposed upon an employee for drug violations.
- (c) Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.
- (d) Notifying the contracting or granting agency within ten (10) days after receiving notice under part (B) of paragraph (3) of subsection (a) above from an employee or otherwise receiving actual notice of such conviction.
- (e) Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program by an employee who is so convicted, as required by section 5 of the Drug Free Workplace Act.
- (f) Assisting employees in selecting a course of action in the event drug counseling, treatment, and rehabilitation is required and indicating that a trained referral team is in place.
- (g) Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act.

THE UNDERSIGNED AFFIRMS, UNDER PENALTIES OF PERJURY, THAT HE OR SHE IS AUTHORIZED TO EXECUTE THIS CERTIFICATION ON BEHALF OF THE DESIGNATED ORGANIZATION.

Matherson Right of Way Company

Anted Name of Organization

Requisition/Contract/Grant

Signature of Authorized Representative

ID Number

Mark D. Mathewson, President

July 22, 2024

t. D. Mathewson, President
Printed Name and Title

Date

APPENDIX A

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "Contractor"), agrees as follows:

- 1. Compliance with Regulations: The contractor shall comply with the Regulations relative to nondiscrimination in federally-assisted programs of the Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as Regulations), which are herein incorporated by reference and made a part of this contract.
- 2. **Nondiscrimination:** The contractor, with regard to the work performed by it during the contract, shall not discriminate on the ground of race, color or national origin in the selection and retention of subcontractors including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.
- 3. Solicitations for Subcontracts, Including Procurement of Materials and Equipment:
 In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurement or materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the ground of race, color or national origin.
- 4. **Information and Reports:** The contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the State or the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations, orders arid instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the State or the Federal Highway Administration is appropriate and shall set forth what efforts it has made to obtain the information.
- 5. Sanctions for Noncompliance: In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the State shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
 - withholding of payments to the contractor under the contract until the contractor complies, and/or
 - cancellation, termination or suspension of the contract, in whole or in part.
- 6. Incorporation of Provisions: The contractor shall include the provisions of Paragraph (1) through (6) in every subcontract, including procurement of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the State of the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the State to enter into such litigation to protect the interests of the State, and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

APPENDIX B

EQUAL EMPLOYMENT OPPORTUNITY CLAUSE required by the Illinois Fair Employment Practices Commission as a material term of all public contracts:

EQUAL EMPLOYMENT OPPORTUNITY. In the event of the contractor's noncompliance with any provision of this Equal Employment Opportunity Clause, the Illinois Fair Employment Practices Act or the Fair Employment Practices Commission's Rules and Regulations for Public Contracts, the contractor may be declared nonresponsible and therefore ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be canceled or avoided in whole or in part, and such other sanctions or penalties may be imposed and remedies invoked as provided by Statute or regulation.

During the performance of this contract (Agreement), the contractor (Consultant) agrees as follows:

- 1. That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or ancestry, physical or mental handicap unrelated to ability, or an unfavorable discharge from the military service, and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- 2. That, if it hires additional employees in order to perform this contract, or any portion hereof, it will determine the availability (in accordance with the Commission's Rules and Regulations for Public Contracts) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- 3. That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, national origin or ancestry, physical or mental handicap unrelated to ability, or an unfavorable discharge from the military service.
- 4. That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice such labor organization or representative of the contractor's obligations under the Illinois Fair Employment Practices Act and the Commission's Rules and Regulations for Public Contracts. If any such labor organization or representative fails or refuses to cooperate with the contractor in its efforts to comply with such Act and Rules and Regulations, the contractor will promptly so notify the Illinois Fair Employment Practices Commission and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.
- 5. That it will submit reports as required by the Illinois Fair Employment Practices Commission's Rules and Regulations for Public Contracts, furnish all relevant information as may from time to time be requested by the Commission or the contracting agency, and in all respects comply with the Illinois Fair Employment Practices Act and the Commission's Rules and Regulations for Public Contracts.
- 6. That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Illinois Fair Employment Practices Commission for purposes of investigation to ascertain compliance with the Illinois Fair Employment Practices Act and the Commission's Rules and Regulations for Public Contracts.

7. That it will include verbatim or by reference the provisions of Paragraphs 1 through 7 of this clause in every performance subcontract as defined in Section 2.1 O(b) of the Commission's Rules and Regulations for Public Contracts so that such provisions will be binding upon every such subcontractor; and that it will also so include the provisions of paragraphs 1, 5, 6 and 7 in every supply subcontract as defined in Section 2.1 O(a) of the Commission's Rules and Regulations for Public Contracts so that such provisions will be binding upon every such subcontractor. In the same manner as with other provisions of this contract, the contractor will be liable for compliance with applicable provisions of this clause by all it subcontractors; and further it will promptly notify the contracting agency and the Illinois Fair Employment Practices Commission in the event any subcontractor fails or refuses to comply therewith. In addition, no contractor will utilize any subcontractor declared by the Commission to be nonresponsible and therefore ineligible for contracts or subcontracts with the state of Illinois or any of its political subdivisions or municipal corporations.

With respect to the two types of subcontracts referred to under paragraph 7 of the Equal Employment Opportunity Clause above, following is an excerpt of Section 2 of the FEPC's Rules and Regulations for Public Contracts:

Section 2.10. The term "Subcontract" means any agreement, arrangement or understanding, written or otherwise, between a contractor and any person (in which the parties do not stand in the relationship of an employer and an employee):

- for the furnishing of supplies or services or for the use of real or personal property, including lease arrangements, which, in whole or in part, is utilized in the performance of any one or more contracts; or
- under which any portion of the contractor's obligation under any one or more contracts is performed, undertaken or assumed.

By signing this Proposal, the **CONSULTANT** agrees to the provisions as written. Upon acceptance by the **LPA**, this Contract shall be governed by Illinois law.

For the CONSULTANT :	
Mathewson Right of Way Company 2024 Hickory Road, Suite 205 Homewood, IL 60430	
By: Mark D. Mathewson, President	July 22, 2024
FEIN: 20-3870734	Telephone: (312) 676-2900
For the LPA :	
Lake County Division of Transportation / TranSystems Corporation	
By:	Date: