



**DRAFT**

**Local Public Agency  
Engineering Services Agreement**

Using Federal Funds?  Yes  No

Agreement For  
MT

Agreement Type  
Original

Using State Funds (Non-MFT)?  Yes  No

**LOCAL PUBLIC AGENCY**

Local Public Agency		County	Section Number	Job Number
Lake		Lake	25-00256-04-DR	
Project Number	Contact Name	Phone Number	Email	
23-29a	Satrugan Shrestha	(847) 377-7400	SShrestha@lakecountyil.gov	

**SECTION PROVISIONS**

Local Street/Road Name	Key Route	Length	Structure Number
Martin Luther King Jr. Drive	A31	0.15 mi	Culvert ID 2027
Location Termini			Add Location
75 feet east of Commonwealth Ave to 120 feet west of IL Route 137			Remove Location

Project Description  
This project consists of resurfacing Martin Luther King Jr. Drive from east of Commonwealth Ave to west of IL Route 137 for a total length of 779 feet. The existing box culvert under the road will also be replaced. A hydraulic study will determine the size of the proposed culvert. Other related work will also be included.

Engineering Funding	<input type="checkbox"/> MFT/TBP	<input type="checkbox"/> State	<input checked="" type="checkbox"/> Other	Local (Matching Tax)	
Anticipated Construction Funding	<input type="checkbox"/> Federal	<input type="checkbox"/> MFT/TBP	<input type="checkbox"/> State	<input checked="" type="checkbox"/> Other	Local (Matching Tax)

**AGREEMENT FOR**

Phase I - Preliminary Engineering  Phase II - Design Engineering

**CONSULTANT**

Prime Consultant (Firm) Name	Contact Name	Phone Number	Email	
Civiltech Engineering, Inc.	Jonathan R. Vana	(630) 735-3382	jvana@civiltechinc.com	
Address	City	State	Zip Code	
2 Pierce Place, Suite 1400	Itasca	IL	60143	

THIS AGREEMENT IS MADE between the above Local Public Agency (LPA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION. Project funding allotted to the LPA by the State of Illinois under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT," will be used entirely or in part to finance ENGINEERING services as described under AGREEMENT PROVISIONS.

Since the services contemplated under the AGREEMENT are professional in nature, it is understood that the ENGINEER, acting as an individual, partnership, firm or legal entity, qualifies for professional status and will be governed by professional ethics in its relationship to the LPA and the DEPARTMENT. The LPA acknowledges the professional and ethical status of the ENGINEER by entering into an AGREEMENT on the basis of its qualifications and experience and determining its compensation by mutually satisfactory negotiations.

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

Regional Engineer                      Deputy Director, Office of Highways Project Implementation, Regional Engineer, Department of Transportation

## AGREEMENT EXHIBITS

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

- EXHIBIT A: Scope of Services
- EXHIBIT B: Project Schedule
- EXHIBIT C: Qualification Based Selection (QBS) Checklist
- EXHIBIT D: Cost Estimate of Consultant Services (BLR 05513 or BLR 05514 )
- EXHIBIT \_\_\_ : Direct Costs Summary Sheet
- Proposal \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

### I. THE ENGINEER AGREES,

1. To perform or be responsible for the performance of the Scope of Services presented in EXHIBIT A for the LPA in connection with the proposed improvements herein before described.
2. The Classifications of the employees used in the work shall be consistent with the employee classifications and estimated staff hours. If higher-salaried personnel of the firm, including the Principal Engineer, perform services that are to be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the payroll rate for the work performed.
3. That the ENGINEER shall be responsible for the accuracy of the work and shall promptly make necessary revisions or corrections required as a result of the ENGINEER'S error, omissions or negligent acts without additional compensation. Acceptance of work by the LPA or DEPARTMENT will not relieve the ENGINEER of the responsibility to make subsequent correction of any such errors or omissions or the responsibility for clarifying ambiguities.
4. That the ENGINEER will comply with applicable Federal laws and regulations, State of Illinois Statutes, and the local laws or ordinances of the LPA.
5. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LPA.
6. To invoice the LPA, The ENGINEER shall submit all invoices to the LPA within three months of the completion of the work called for in the AGREEMENT or any subsequent Amendment or Supplement.
7. The ENGINEER or subconsultant shall not discriminate on the basis of race, color, national origin or sex in the performance of this AGREEMENT. The ENGINEER shall carry out applicable requirements of 49 CFR part 26 in the administration of US Department of Transportation (US DOT) assisted contract. Failure by the Engineer to carry out these requirements is a material breach of this AGREEMENT, which may result in the termination of this AGREEMENT or such other remedy as the LPA deems appropriate.
8. That none of the services to be furnished by the ENGINEER shall be sublet, assigned or transferred to any other party or parties without written consent of the LPA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall be construed to relieve the ENGINEER of any responsibility for the fulfillment of this AGREEMENT.
9. For Preliminary Engineering Contracts:
  - (a) To attend meetings and visit the site of the proposed improvement when requested to do so by representatives of the LPA or the DEPARTMENT, as defined in Exhibit A (Scope of Services).
  - (b) That all plans and other documents furnished by the ENGINEER pursuant to the AGREEMENT will be endorsed by the ENGINEER and affixed the ENGINEER's professional seal when such seal is required by law. Such endorsements must be made by a person, duly licensed or registered in the appropriate category by the Department of Professional Regulation of the State of Illinois. It will be the ENGINEER's responsibility to affix the proper seal as required by the Bureau of Local Roads and Streets manual published by the DEPARTMENT.
  - (c) That the ENGINEER is qualified technically and is thoroughly conversant with the design standards and policies applicable for the PROJECT; and that the ENGINEER has sufficient properly trained, organized and experienced personnel to perform the services enumerated in Exhibit A (Scope of Services).
10. That the engineering services shall include all equipment, instruments, supplies, transportation and personnel required to perform the duties of the ENGINEER in connection with this AGREEMENT (See DIRECT COST tab in BLR 05513 or BLR 05514).

### II. THE LPA AGREES,

1. To certify by execution of this AGREEMENT that the selection of the ENGINEER was performed in accordance with the Professional Services Selection Act (50 ILCS 510) (Exhibit C).
2. To furnish the ENGINEER all presently available survey data, plans, specifications, and project information.
3. To pay the ENGINEER:
  - (a) For progressive payments - Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to the value of the partially completed work minus all previous partial payments made to the ENGINEER.
  - (b) Final payment - Upon approval of the work by the LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA and DEPARTMENT a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amount of partial payments previously paid to the ENGINEER

shall be due and payable to the ENGINEER.

(c) For Non-Federal County Projects - (605 ILCS 5/5-409)

- (1) For progressive payments - Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, monthly payments for the work performed shall be due and payable to the ENGINEER. Such payments to be equal to the value of the partially completed work in all previous partial payments made to the ENGINEER.
- (2) Final payment - Upon approval of the work by the LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA and STATE, a sum of money equal to the basic fee as determined in the AGREEMENT less the total of the amount of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

4. To pay the ENGINEER as compensation for all services rendered in accordance with the AGREEMENT on the basis of the following compensation method as discussed in 5-5.10 of the BLR Manual.

Method of Compensation:

- Percent
- Lump Sum
- Specific Rate
- Cost plus Fixed Fee:      Fixed

Total Compensation = DL + (1.70 x DL) + DC

Where:

DL is the total Direct Labor

DC is the total Direct Cost

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

### III. IT IS MUTUALLY AGREED,

1. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amount, recipients and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records and supporting documents related to the contract shall be available for review and audit by the Auditor General, and the DEPARTMENT; the Federal Highways Administration (FHWA) or any authorized representative of the federal government, and to provide full access to all relevant materials. Failure to maintain the books, records and supporting documents required by this section shall establish a presumption in favor of the DEPARTMENT for the recovery of any funds paid by the DEPARTMENT under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.
2. That the ENGINEER shall be responsible for any all damages to property or persons out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and save harmless the LPA, the DEPARTMENT, and their officers, agents and employees from all suits, claims, actions or damages liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.  
  
The LPA will notify the ENGINEER of any error or omission believed by the LPA to be caused by the negligence of the ENGINEER as soon as practicable after the discovery. The LPA reserves the right to take immediate action to remedy any error or omission if notification is not successful; if the ENGINEER fails to reply to a notification; or if the conditions created by the error or omission are in need of urgent correction to avoid accumulation of additional construction costs or damages to property and reasonable notice is not practicable.
3. This AGREEMENT may be terminated by the LPA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LPA all drawings, plats, surveys, reports, permits, agreements, soils and foundation analysis, provisions, specifications, partial and completed estimates and data, if any from soil survey and subsurface investigation with the understanding that all such materials becomes the property of the LPA. The LPA will be responsible for reimbursement of all eligible expenses incurred under the terms of this AGREEMENT up to the date of the written notice of termination.

4. In the event that the DEPARTMENT stops payment to the LPA, the LPA may suspend work on the project. If this agreement is suspended by the LPA for more than thirty (30) calendar days, consecutive or in aggregate, over the term of this AGREEMENT, the ENGINEER shall be compensated for all services performed and reimbursable expenses incurred prior to receipt of notice of suspension. In addition, upon the resumption of services the LPA shall compensate the ENGINEER, for expenses incurred as a result of the suspension and resumption of its services, and the ENGINEER's schedule and fees for the remainder of the project shall be equitably adjusted.
5. This AGREEMENT shall continue as an open contract and the obligations created herein shall remain in full force and effect until the completion of construction of any phase of professional services performed by others based upon the service provided herein. All obligations of the ENGINEER accepted under this AGREEMENT shall cease if construction or subsequent professional services are not commenced within 5 years after final payment by the LPA.
6. That the ENGINEER shall be responsible for any and all damages to property or persons arising out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and have harmless the LPA, the DEPARTMENT, and their officers, employees from all suits, claims, actions or damages liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.
7. The ENGINEER and LPA certify that their respective firm or agency:
  - (a) has not employed or retained for commission, percentage, brokerage, contingent fee or other considerations, any firm or person (other than a bona fide employee working solely for the LPA or the ENGINEER) to solicit or secure this AGREEMENT,
  - (b) has not agreed, as an express or implied condition for obtaining this AGREEMENT, to employ or retain the services of any firm or person in connection with carrying out the AGREEMENT or
  - (c) has not paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for the LPA or the ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
  - (d) that neither the ENGINEER nor the LPA is/are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
  - (e) has not within a three-year period preceding the AGREEMENT been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property.
  - (f) are not presently indicated for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph and
  - (g) has not within a three-year period preceding this AGREEMENT had one or more public transaction (Federal, State, local) terminated for cause or default.

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

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

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

9. By execution of this AGREEMENT the LPA and ENGINEER certify compliance with the Drug Free Workplace (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 and LPA 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
Civiltech Engineering, Inc.	36-3606666	\$217,485.40
<b>Subconsultants</b>		
Jorgensen & Associates, Inc.	36-3668574	\$37,812.38
Midland Standard Engineering & Testing, Inc.	20-2435502	\$17,835.00
GFT Infrastructure, Inc.	25-1613591	\$75,758.00
GSG Consultants, Inc.	36-3844476	\$21,203.00
Subconsultant Total		\$152,608.38
Prime Consultant Total		\$217,485.40
Total for all work		\$370,093.78

**AGREEMENT SIGNATURES**

Executed by the LPA:

Attest: The  Local Public Agency Type of  Local Public Agency

By (Signature & Date)

By (Signature & Date)

Local Public Agency  Local Public Agency Type Clerk

Title

(SEAL)

Executed by the ENGINEER:

Attest:  Prime Consultant (Firm) Name

By (Signature & Date)  
 1/6/2026

Title

By (Signature & Date)  
 1/6/2026

Title

For information about IDOTs collection and use of confidential information review the department's [Identity Protection Policy](#).

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	Civiltech Engineering, Inc.	Lake	25-00256-04-DR

**EXHIBIT A  
SCOPE OF SERVICES**

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

See attached.

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	Civiltech Engineering, Inc.	Lake	25-00256-04-DR

**EXHIBIT B  
PROJECT SCHEDULE**

Notice to Proceed - January 2026  
 Preliminary Plan Submittal - June 2026  
 LCSMC and USACE Permit Submittals - August 2026  
 Pre-final Plans, Specifications and Estimates Submittal - November 2026  
 Final Plans, Specifications and Estimates Submittal - February 2027  
 LCDOT Letting - March 2027

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	Civiltech Engineering, Inc.	Lake	25-00256-04-DR

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

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

Form Not Applicable (engineering services less than the threshold)

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

		No	Yes
1	Do the written QBS policies and procedures discuss the initial administration (procurement, management and administration) concerning engineering and design related consultant services?	<input type="checkbox"/>	<input type="checkbox"/>
2	Do the written QBS policies and procedures follow the requirements as outlined in Section 5-5 and specifically Section 5-5.06 (e) of the BLRS Manual?	<input type="checkbox"/>	<input type="checkbox"/>
3	Was the scope of services for this project clearly defined?	<input type="checkbox"/>	<input type="checkbox"/>
4	Was public notice given for this project?	<input type="checkbox"/>	<input type="checkbox"/>
5	Do the written QBS policies and procedures cover conflicts of interest?	<input type="checkbox"/>	<input type="checkbox"/>
6	Do the written QBS policies and procedures use covered methods of verification for suspension and debarment?	<input type="checkbox"/>	<input type="checkbox"/>
7	Do the written QBS policies and procedures discuss the methods of evaluation?	<input type="checkbox"/>	<input type="checkbox"/>
Project Criteria		Weighting	
8	Do the written QBS policies and procedures discuss the method of selection?	<input type="checkbox"/>	<input type="checkbox"/>
Selection committee (titles) for this project			
Top three consultants ranked for this project in order			
1			
2			
3			
9	Was an estimated cost of engineering for this project developed in-house prior to contract negotiation?	<input type="checkbox"/>	<input type="checkbox"/>
10	Were negotiations for this project performed in accordance with federal requirements.	<input type="checkbox"/>	<input type="checkbox"/>
11	Were acceptable costs for this project verified?	<input type="checkbox"/>	<input type="checkbox"/>
12	Do the written QBS policies and procedures cover review and approving for payment, before forwarding the request for reimbursement to IDOT for further review and approval?	<input type="checkbox"/>	<input type="checkbox"/>
13	Do the written QBS policies and procedures cover ongoing and finalizing administration of the project (monitoring, evaluation, closing-out a contract, records retention, responsibility, remedies to violations or breaches to a contract, and resolution of disputes)?	<input type="checkbox"/>	<input type="checkbox"/>
14	QBS according to State requirements used?	<input type="checkbox"/>	<input type="checkbox"/>
15	Existing relationship used in lieu of QBS process?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16	LPA is a home rule community (Exempt from QBS).	<input type="checkbox"/>	<input type="checkbox"/>



**Civiltech Engineering, Inc. (Civiltech) understands that the Lake County Division of Transportation (LCDOT) has requested that Civiltech prepare a proposal to perform Phase II engineering services for resurfacing of Martin Luther King Jr. Drive from Commonwealth Avenue to IL Route 137 in North Chicago.** An existing 72" box culvert under Martin Luther King Jr. Drive is in poor condition and will also be replaced.

The following project understanding and scope of services is based upon the Project Scoping Report and further coordination with LCDOT staff.

## PROJECT UNDERSTANDING AND APPROACH

The County's scoping report states that the west limit of resurfacing will be 75 feet east of the Commonwealth intersection. This is approximately the radius return of the northeast quadrant, and also the approximate location of the westbound stop bar. The east limit will be where the PCC pavement for IL Route 137 begins, approximately 120 feet west of the IL 137 intersection, for a total resurfacing length of just under 800 feet. The resurfacing of Martin Luther King Jr. Drive will consist of a surface removal of 4.5 inches, 2.25-inch binder course, 0.75-inch leveling binder, and 1.5-inch surface course. Longitudinal joint sealant will be applied below the surface course as well as between the binder course and leveling binder at the centerline and lane lines.

As a part of this project, the existing 72" x 72" box culvert under the road will be replaced. On the south end of the culvert, there is a junction chamber. At this point, an elliptical 77" x 121" culvert continues to the south under a vacant lot. The 72" x 72" culvert under Martin Luther King Jr. Drive will be replaced from the opening on the north side of the road to the junction chamber on the south side, and the junction chamber will also be replaced based on its condition. A hydraulic and hydrologic analysis will be completed to determine if the new culvert should be the same size as existing, or if a different sized structure may be more appropriate.

There is an existing storm sewer pipe that currently drains into the culvert, as well as a water main passing through the middle of it. These utilities are believed to belong to the City of North Chicago. The water main will be relocated to a lower elevation, so that it runs under the culvert. There are also two existing street light poles above the culvert which will be impacted by its replacement and will need to be relocated.

Since Martin Luther King Jr. Drive has a four-lane cross section, and five lanes above the culvert, it is anticipated that construction of the culvert will be staged while Martin Luther King, Jr. Drive remains open to two-way traffic. We expect that traffic will be reduced to one lane in each direction and lanes will be shifted to one side of the road while half of the culvert is constructed. Once half of the culvert construction is complete, the lanes will be shifted to the other side of the road above the newly constructed culvert, and the remaining half of the culvert will be constructed.

The project will also include the replacement of broken curb and gutter, as well as driveways and sidewalks that are in need of replacement and within the right-of-way. Inlets with broken rings will be adjusted or replaced as needed, and curb and gutter around these structures will be replaced.

Based on the resurfacing limits in the scoping report, the resurfacing limits will not impact any existing sidewalk ramps at intersections. However, there are a couple locations where the sidewalk crosses a driveway, and therefore ADA sidewalk ramp details will be needed at these locations to ensure that the cross slope of the sidewalk is compliant.

While most work is expected to be within the existing right-of-way, the junction chamber at the south end of the culvert may be outside the right-of-way. If it is determined that the junction chamber is partly or fully outside Lake County's right-of-way, a permanent easement will be acquired to encompass the junction chamber. The parcel in this location is owned by the City of North Chicago, and it is assumed that the easement would be donated by the City. Therefore, this proposal includes preparing a plat and legal description for the easement but does not include appraisal or negotiation services.



## Culvert Replacement

Phase II engineering services will include the preparation of a Technical Memorandum to address the proposed design for the existing 6-feet by 6-feet box culvert. The Technical Memorandum will document the hydrologic and hydraulic analysis and include a recommendation for the proposed replacement structure. Memorandum will also include a guardrail warrant analysis and if the guardrail is warranted proposed replacement structure will account for it.

## Wetland and Water Body Delineation

A Wetland and Water Body Delineation Report for the project area will be prepared in accordance with the Lake County Watershed Development Ordinance (WDO) and the U.S. Army Corps of Engineers (USACE) Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0), (USACE Supplemental Manual). Field investigations will include the identification and delineation of both USACE jurisdictional "waters of the U.S." (WOUS) and Lake County jurisdictional "Isolated Waters of Lake County" (IWLC).

The wetland and water body investigations include an off-site resource review followed by an on-site investigation. Proposed field services include the identification and delineation of wetlands and water bodies and the determination of High-Quality Aquatic Resources (HQAR). Wetland delineation field investigation activities include on-site testing for the presence of hydric soils, hydrophytic vegetation, and sufficient hydrology. A floristic quality assessment (FQA) will be conducted for each identified wetland. Water body delineation field activities include the determination of the Ordinary High Water Mark (OHWM). All USACE WOUS and LCSMC IWLC jurisdictional wetland limits within the project area will be flagged and GPS data will be collected. The location of adjacent wetlands within 100 feet of the project area per the WDO will be estimated. A Wetland Delineation Report will be prepared that will include findings from the field investigations.

All wetland related coordination will occur through LCSMC and the USACE. This coordination will be necessary for permitting, and include preliminary jurisdictional determinations and boundary verifications on the delineated limits of the wetlands, water bodies, and buffers. Those limits will be included in the final Wetland Delineation Report.

## Topographic Survey

A topographic survey will be performed along the corridor to collect horizontal and vertical information for the road, culvert and existing above-ground utility structures. Invert elevations will be collected for storm sewers and top of pipe elevations for water mains. Existing ROW linework will be established and depicted in the CAD design files to ensure work is completed within existing ROW boundaries. The survey will be done by Jorgensen & Associates.

## Utility Coordination

Civiltech will place a JULIE design stage call to identify the utilities at the two intersections, and to gather atlases and record data. A SUE Level B study will also be performed to more accurately determine the locations of underground utilities. After the preliminary plan submittal, plans will be sent to utilities to identify potential conflicts, and/or to identify their facilities on the plan sheets.

There is a large storm sewer pipe that drains into the box culvert, and an existing water main running through the middle of it that will need to be relocated down to avoid the proposed culvert. This will require coordination with the City of North Chicago.

## Permitting

Permits are anticipated to be required with the Lake County SMC since the drainage area of the culvert is expected to be more than 20 acres and wetlands are anticipated within the project limits. U.S. Army Corps of Engineers Section 404/401 permits are expected to be required. Threatened and Endangered species coordination will include preparation and submittal of an EcoCAT with IDNR and preparation and submittal of an IPaC with the USFWS. Since this is not a mapped floodway, an IDNR floodway permit will not be needed.



## Subconsultants

Civiltech will utilize the services of several subconsultants in order to complete the work under this proposal:

**Jorgensen & Associates** - Survey and plat of highways/legal description

**Midland Standard Engineering & Testing** – Geotechnical and C.C.D.D.

**GFT Infrastructure** – Structural Design

**GSG Consultants** - SUE Level B Study

## II. ANTICIPATED SCOPE OF SERVICES

The following scope of services is based upon the Project Scoping Report and subsequent discussions with LCDOT.

### Item 1:

#### Early Coordination and Data Collection

- A. Hold a project kick-off meeting with LCDOT. Meetings are anticipated to be held in-person but may be virtual if the County prefers.
- B. Obtain and review record data, including existing roadway and street lighting plans, utility atlases for water and sewer from the City of North Chicago, right-of-way information and any other pertinent information for the project study area.
- C. Conduct a site reconnaissance of the study area to document existing conditions and collect photography for use during design. This will also include a review of the topographic survey (collected in a separate item below) to check for completeness and accuracy.
- D. We will prepare a structure inventory which will include the type and condition for each manhole, catch basin, inlet, and valve vault within the project limits. We will assess the need for adjustment, reconstruction or replacement of these structures.
- E. A Wetland and Water Body Delineation Report for the project area will be prepared in accordance with the Lake County Watershed Development Ordinance (WDO) and the U.S. Army Corps of Engineers (USACE) requirements.
- F. IPaC and EcoCAT Preliminary Consultation to determine the presence of any threatened and endangered species in the vicinity.
- G. A culvert replacement technical memorandum will be prepared including the hydraulic and hydrologic analysis and the proposed culvert design.
- H. A topographic survey will be conducted by Jorgensen & Associates for the Martin Luther King Jr. Drive from Commonwealth Avenue to IL Route 137, the size and dimensions of the existing culvert to be replaced including the downstream junction chamber, and the channel upstream of the culvert. This item includes coordination with the subconsultant. A copy of Jorgensen's proposal is attached.
- I. Midland Standard Engineering and Testing will collect the necessary soil borings for the culvert and retaining wall design. They will also test for contaminants and prepare the LPC-663 form. 2-3 site pre-approval letters are required, one of which should be from Thelen, to include in the final spec book. A copy of Midland's proposal is attached.
- J. A bat assessment will be conducted of the 72" x 72" culvert under Martin Luther King Jr. Drive and the connected elliptical 77" x 121" culvert that continues to the south under the adjacent vacant lot. The appropriate methodologies will be followed to complete the bridge/culvert bat assessment forms. Completed forms and a photographic log will be prepared for documentation and permitting.



**Item 2:**

**Preliminary Utility Coordination**

We will call in a Design-Stage J.U.L.I.E. locate request and send letters and project location maps to the utility companies within the project limits requesting copies of their utility atlases to include in our CAD base file. We will review utility information for potential conflicts and submit project plans to utility companies for review.

- A. Submit JULIE Design Stage Ticket request.
- B. Gather utility atlases and draft utilities into CAD files
- C. Preliminary Utility Conflict Review and Assessment
- D. Preliminary Utility Company Submittal and Coordination

**Item 3:**

**Preliminary Plans**

- A. Plan Base Sheet Preparation. This work will include creation of Microstation CADD base/reference files containing topographic survey data obtained in Item 1. Existing underground utilities will be plotted and the files will include existing right-of-way lines. Mainline roadway baselines/centerlines with stationing will be established.
- B. Pavement Design. We will complete the design of the pavement resurfacing in accordance with the Bureau of Local Roads and Streets Manual (3R Guidelines).
- C. Preliminary Plans.

We anticipate the preliminary plans will contain the following sheets:

- Cover Sheet and Index of Sheets (1 sheet)
- General Notes and List of State/County Standards (2 sheets)
- Typical Sections (1 sheet)
- Resurfacing, Pavement Marking, and Signing Plan Sheets (1"=20' dual view) (2 sheets)
- Drainage and Utility Plan (1"=20') (2 sheets)
- Curb Ramp Details (1"=5') (2 sheets)
- General Plan and Elevation (1 sheet)
- Lighting Plans (3 sheets)

- D. Preliminary Quantity Calculations will be calculated.
- E. Preliminary Estimate of Cost. In order to ensure that the project is tracking within the projected budget, a cost estimate will be prepared using the portions of the plans that have been completed. Estimated costs will be included for those items that have not yet been designed or detailed.
- F. Preliminary Review Meeting. After LCDOT review, we will coordinate a review meeting with Lake County staff to discuss the project. The meeting will be scheduled such that all parties will have had an opportunity to review the preliminary plans and provide comments.



#### Item 4:

### Pre-Final (90%) Plans, Special Provisions and Estimates

A. Pre-Final Plans. We will prepare pre-final contract plans based on comments received on the preliminary plans and in accordance with applicable LCDOT and IDOT Standards. We anticipate that the contract plans will contain the following drawings:

- Cover Sheet and Index of Sheets (1 sheet)
- General Notes and List of State/County Standards (2 sheets)
- Summary of Quantities (2 sheets)
- Typical Sections (1 sheet)
- Alignment, Ties and Benchmarks (1 sheet)
- Schedule of Quantities (5 sheets)
- Resurfacing, Pavement Marking, and Signing Plan Sheets (1"=20' dual view) (2 sheets)
- Traffic Control Plan (1"=50') (2 sheets)
- Culvert Construction Staging, Notes and Typical Sections (2 sheets)
- Drainage and Utility Plan (1"=20') (2 sheets)
- Culvert Plan and Details (2 sheets)
- Curb Ramp Details (1"=5') (2 sheets)
- General Plan and Elevation (1 sheet)
- Temporary Soil Retention System and Staging (1 sheet)
- Culvert Details (2 sheets)
- Headwall Details (1 sheet)
- Wingwall and Apron Details (3 sheets)
- Junction Chamber Details (2 sheets)
- Boring Logs (3 sheets)
- Erosion Control and Landscaping Plan (1"=50') (1 sheet)
- Lighting Plans (3 sheets)
- Lighting Details (4 sheets)
- Construction Details (30 sheets)

The plan set is expected to have 75 sheets.

B. Pre-final Special Provisions. We will prepare special provisions that supplement or amend the specifications contained in the latest edition of the Standard Specifications for Road and Bridge Construction adopted by the Illinois Department of Transportation and the latest edition of the Standard Specifications for Sewer and Watermain Construction in Illinois. Applicable Lake County special provisions will be included to supplement the Standard Specifications. In addition, we will include the latest IDOT Recurring Special Provisions Check Sheet. The most recent set of IDOT's Bureau of Design and Environment (BDE) Special Provisions and District 1 Special Provisions will be reviewed and included in the special provisions where applicable. Special Provisions will be prepared in accordance with the Lake County DOT specification format, and will include all applicable forms.

C. Pre-Final Quantity Calculations. We will perform detailed quantity calculations at the pre-final stage of the plan development. Two sets of calculations will be performed by separate engineers in order to ensure the accuracy of the calculations.

D. Pre-Final Estimate of Cost and Estimate of Construction Time. We will use the quantities of work in order to calculate an Engineer's Estimate of Cost and Time. The unit prices for the various items of work will be developed based on review and analysis of recent bid tabulations for projects of similar scope and magnitude.

E. Pre-Final QC/QA Review. Prior to submission of the pre-final plans for review, we will perform an internal Quality Control / Quality Assurance review of the work completed. The review will be performed by a professional engineer independent of the design team. The Construction Engineer will also complete a full contract document review at this time. The review will consider constructability issues as well as identification of missing pay items, quantities of work, and special provisions required. The design team will also perform a "plan-in-hand" field check to confirm the existing conditions and design.

F. Pre-Final Project Review Meeting. A project review meeting will be held with LCDOT to address design issues and plan comments generated from the pre-final contract document review.



## Item 5:

### Final Plans, Special Provisions and Estimates

- A. Final Plans. After completion of all agency reviews and resolution of any other agency, property owner, or utility company concerns, the contract plans will be finalized.
- B. Final Special Provisions. All comments received pertaining to the pre-final special provisions and bid documents will be addressed and a disposition will be submitted with the final bid documents. The status and schedule of all utility relocations, as of the date of the final plans, will be included in the bid documents.
- C. Final Quantity Calculations. The quantities will be updated based on changes made to the plans after the pre-final stage.
- D. Final Estimate of Cost and Estimate of Construction Time. The estimates will be updated based on the revised quantities.
- E. Final QC/QA Review. Prior to the final submittal, a second QC/QA review of the plans and special provisions will be performed.

## Item 6:

### Project Administration, Coordination and Permits

- A. Project Administration. This item includes project setup, monthly invoicing, and preparation of status reports. In addition, this item includes coordinating meetings with LCDOT as well as internal project team coordination.
- B. Project Submittals. As noted above, we will make the necessary document submittals, and follow through in regards to review comments or arrange a review meeting to discuss plan changes necessary to resolve conflicts if possible.
- C. LCDOT Coordination. This item includes coordination with LCDOT, including any additional meetings. Meetings are anticipated to be held in-person, but may be virtual if the County prefers.
- D. Local Agency Coordination. Coordination with the City of North Chicago will be needed since the City's storm sewer will be affected by the culvert replacement. There is also an existing water main that will need to be relocated.
- E. Utility Company Coordination. As noted above, we will analyze the project for potential impacts to existing utilities. If encountered, we will provide the utility companies with a list of areas of potential conflict so that additional information, such as horizontal locates or depth borings, can be obtained where necessary to further define the extent of conflicts. We will first attempt to address utility conflicts through design modifications while considering the impact those changes will have on the overall improvement.
- F. Lake County SMC permit. Since the drainage area of the culvert is anticipated to be more than 20 acres, we will need a permit from Lake County SMC. We will coordinate with SMC and provide them with the necessary information to secure the permit.
- G. USACE Section 404/401 permits. This item includes coordination with the US Army Corps of Engineers to secure a Section 404/401 permit to address potential wetland and/or Waters of the US impacts due to the culvert replacement work.

**COST ESTIMATE OF CONSULTANT SERVICES**



## COST ESTIMATE OF CONSULTANT SERVICES

	Director of Design Services	Project Manager	Project Engineer	Design Engineer	Lighting Project Manager	Lighting Engineer	Director of Water Resources	Water Resources Engineer	Director of Nature Based Solutions	Wetland Scientist	QC/QA Engineer	Total Hours	% of Hours	Labor Cost
	\$90.00	\$70.00	\$55.00	\$43.00	\$70.00	\$50.00	\$89.00	\$45.00	\$80.00	\$36.00	\$78.00			
<b>1 Data Collection and Early Coordination</b>	2	26	39	48	4	4	6	62	31	90	10	322	20.9%	\$16,513.00
<b>2 Preliminary Utility Coordination</b>	0	8	21	39	0	0	0	0	0	0	0	68	4.4%	\$3,392.00
<b>3 Preliminary Plans</b>	5	22	79	135	4	14	4	32	0	0	0	295	19.1%	\$14,916.00
<b>4 Pre-Final (90%) Plans, Special Provisions, and Estimates</b>	12	34	101	165	4	16	12	68	0	0	16	428	27.8%	\$22,566.00
<b>5 Final Plans, Special Provisions, and Estimates</b>	8	12	46	54	2	8	0	15	0	0	4	149	9.7%	\$7,939.00
<b>6 Project Administration, Coordination and Permits</b>	10	42	52	24	0	8	8	96	8	32	0	280	18.2%	\$14,956.00
Total Labor Cost														\$80,282.00
Overhead and Profit Multiplier = 1.70														\$136,479.40
Direct Costs and Sub Consultant Expense (See attached calculation)														\$153,332.38
<b>Total Cost:</b>												<b>1542</b>	<b>100.0%</b>	<b>\$370,093.78</b>



## WORKHOURS

Task No.	Task	Director of Design Services	Project Manager	Project Engineer	Design Engineer	Lighting Project Manager	Lighting Engineer	Director of Water Resources	Water Resources Engineer	Director of Nature Based Solutions	Wetland Scientist	QC/QA Engineer	Total Hours	% of Hours
<b>1</b>	<b>Data Collection and Early Coordination</b>													
A.	LCDOT Kick-off Meeting	2	2	3									7	2.2%
B.	Obtain and Review Record Data		4	4	8			2	2	1	2		23	7.1%
C.	Site Reconnaissance and Photography		4	4	4	4	4						20	6.2%
D.	Structure Inventory			8	12							8	28	8.7%
E.	Wetland and Water Body Delineation									12	60		72	22.4%
F.	IPaC and EcoCAT Preliminary Consultation									8	12		20	6.2%
G.	Culvert Replacement Technical Memorandum (Analysis and Recommendation)		8	20	24			4	60			2	118	36.6%
H.	Survey (by Jorgensen Associates) coordination only		4										4	1.2%
I.	Geotechnical and CCDD coordination (by MSET) coordination only		4							8			12	3.7%
J.	Bat Assessment									2	16		18	5.6%
	<b>Sub-total Item 1</b>	<b>2</b>	<b>26</b>	<b>39</b>	<b>48</b>	<b>4</b>	<b>4</b>	<b>6</b>	<b>62</b>	<b>31</b>	<b>90</b>	<b>10</b>	<b>322</b>	<b>94.4%</b>
<b>2</b>	<b>Preliminary Utility Coordination</b>													
A.	JULIE Design Stage Ticket			1	3								4	5.9%
B.	Draft utility atlases into CAD Base File		2	4	24								30	44.1%
C.	Preliminary Utility Conflict Review and Assessment		4	12	8								24	35.3%
D.	Preliminary Utility Company Submittal and Coordination		2	4	4								10	14.7%
	<b>Sub-total Item 2</b>	<b>0</b>	<b>8</b>	<b>21</b>	<b>39</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>68</b>	<b>100.0%</b>
<b>3</b>	<b>Preliminary Plans</b>													
A.	Plan Base Sheet Preparation		2	8	16								26	8.8%
B.	Pavement Design		1	2	4								7	2.4%
C.	Preliminary Plans	No. of Sheets												
	Cover Sheet and Index of Sheets	1		1	3								4	1.4%
	General Notes and List of State/County Standards	2	2	8	8								18	6.1%
	Typical Sections	1	1	2	8								11	3.7%
	Resurfacing, Pavement Marking, and Signing Plan Sheets (1"=20' dual view)	2	2	6	28								48	16.3%
	Drainage and Utility Plan (1"=20')	2	2	4	16			4	32				74	25.1%
	Curb Ramp Details (1"=5')	2	2	8	24								34	11.5%
	General Plan and Elevation (By GFT)	1											0	0.0%
	Lighting Plans	3			4	4	14						22	7.5%
D.	Preliminary Quantity Calculations			16	16								32	10.8%
E.	Preliminary Estimate of Cost and Estimate of Construction Time	1	2	4	4								11	3.7%
F.	Preliminary Project Review Meeting		2	2	4								8	2.7%
	<b>Sub-total Item 3</b>	<b>5</b>	<b>22</b>	<b>79</b>	<b>135</b>	<b>4</b>	<b>14</b>	<b>4</b>	<b>32</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>295</b>	<b>100.0%</b>
<b>4</b>	<b>Pre-Final (90%) Plans, Special Provisions, and Estimates</b>													
A.	Pre-Final Plans	No. of Sheets												
	Cover Sheet and Index of Sheets	1		1	1								2	0.5%
	General Notes and List of State/County Standards	2		4	4								8	1.9%
	Summary of Quantities	2		2	2								4	0.9%
	Typical Sections	1	1	2	4								7	1.6%
	Alignment, Ties and Benchmarks	1	1	2	8								11	2.6%
	Schedule of Quantities	5		8	24								34	7.9%
	Resurfacing, Pavement Marking, and Signing Plan Sheets (1"=20' dual view)	2	2	3	18								29	6.8%
	Traffic Control Plan (1"=50')	2		4	8								14	3.3%
	Culvert Construction Staging, Notes and Typical Sections	2		6	24				16				50	11.7%
	Drainage and Utility Plan (1"=20')	2	2	12	16			8	24				68	15.9%
	Culvert Plan and Details	2		2				4	24				30	7.0%
	Curb Ramp Details (1"=5')	2	2	4	12								18	4.2%
	Structural Plans (By GFT)	13											0	0.0%
	Erosion Control and Landscaping Plan (1"=50')	1	1	2	4								7	1.6%
	Lighting Plans	3				4	12						16	3.7%
	Lighting Details	4			2								2	0.5%
	Construction Details	30	2	4	4								10	2.3%
B.	Pre-Final Special Provisions		4	24	12		2		4				46	10.7%
C.	Pre-Final Quantity Calculations			16	16		2						34	7.9%
D.	Pre-Final Estimate of Cost and Estimate of Construction Time		2	2	4								8	1.9%
E.	Pre-Final QC/QA Review	8										16	24	5.6%
F.	Pre-Final Project Review Meeting		2	2	2								6	1.4%
	<b>Sub-total Item 4</b>	<b>12</b>	<b>34</b>	<b>101</b>	<b>165</b>	<b>4</b>	<b>16</b>	<b>12</b>	<b>68</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>428</b>	<b>100.0%</b>



## WORKHOURS

Task No.	Task	Director of Design Services	Project Manager	Project Engineer	Design Engineer	Lighting Project Manager	Lighting Engineer	Director of Water Resources	Water Resources Engineer	Director of Nature Based Solutions	Wetland Scientist	QC/QA Engineer	Total Hours	% of Hours
<b>5</b>	<b>Final Plans, Special Provisions, and Estimates</b>													
A.	Final Plans	4	8	24	40	2	6		8				92	61.7%
B.	Final Special Provisions		2	16	4		1		2				25	16.8%
C.	Final Quantity Calculations			4	8		1		4				17	11.4%
D.	Final Estimate of Cost and Construction Time		2	2	2				1				7	4.7%
E.	Final QC/QA Review	4										4	8	5.4%
	<b>Sub-total Item 5</b>	<b>8</b>	<b>12</b>	<b>46</b>	<b>54</b>	<b>2</b>	<b>8</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>149</b>	<b>100.0%</b>
<b>6</b>	<b>Project Administration, Coordination and Permits</b>													
A.	Project Administration	2	8	8									18	6.4%
B.	Project Submittals			4	8								12	4.3%
C.	LCDOT Coordination	8	16	16									40	14.3%
D.	Local Agency Coordination		8	8			8						24	8.6%
E.	Utility Company Coordination		2	16	16								34	12.1%
F.	Lake County SMC Permit		4					4	48	4	16		76	27.1%
G.	USACE Section 404/401 Permits		4					4	48	4	16		76	27.1%
	<b>Sub-total Item 6</b>	<b>10</b>	<b>42</b>	<b>52</b>	<b>24</b>	<b>0</b>	<b>8</b>	<b>8</b>	<b>96</b>	<b>8</b>	<b>32</b>	<b>0</b>	<b>280</b>	<b>100.0%</b>
	<b>Total Hours:</b>	<b>37</b>	<b>144</b>	<b>338</b>	<b>465</b>	<b>14</b>	<b>50</b>	<b>30</b>	<b>273</b>	<b>39</b>	<b>122</b>	<b>30</b>	<b>1542</b>	
	<b>% of Hours:</b>	<b>2.4%</b>	<b>9.3%</b>	<b>21.9%</b>	<b>30.2%</b>	<b>0.9%</b>	<b>3.2%</b>	<b>1.9%</b>	<b>17.7%</b>	<b>2.5%</b>	<b>7.9%</b>	<b>1.9%</b>	<b>100.0%</b>	



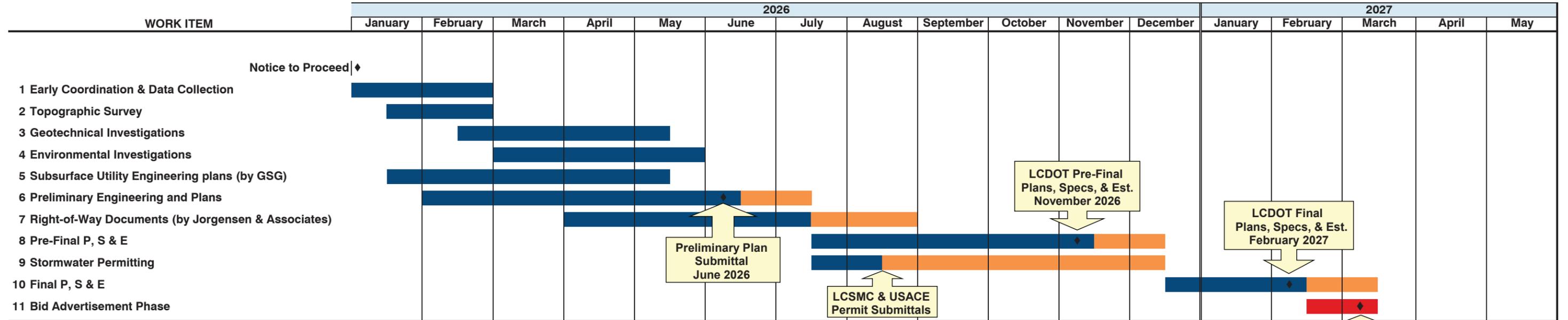
## DIRECT COSTS

<b>ITEM 1 - Mileage</b>	
<b>Field Reconnaissance</b>	
3 trips X 80 miles X \$0.70	\$168.00
<b>Meetings</b>	
LCDOT: 3 meetings X 60 miles X \$0.70	\$126.00
<b>Total Item 1</b>	<b>\$294.00</b>
<b>ITEM 2 - Printing</b>	
<b>Pre-Final Plans</b>	
Utility Co. 8 sets X 75 sheets/set X \$0.25/sheet	\$150.00
<b>Final Plans</b>	
Utility Co. 8 sets X 75 sheets/set X \$0.25/sheet	\$150.00
<b>Total Item 2</b>	<b>\$300.00</b>
<b>ITEM 3 - Topographic Survey</b>	
Jorgensen & Associates, Inc.	\$19,590.45
<b>Total Item 3</b>	<b>\$19,590.45</b>
<b>ITEM 4 - SUE Level B Study</b>	
GSG Consultants	\$21,203.00
<b>Total Item 4</b>	<b>\$21,203.00</b>
<b>ITEM 5 - Geotechnical and Environmental Coordination</b>	
Midland Standard & Testing, Inc. - soild borings and CCDD certification	\$17,835.00
EcoCAT	\$130.00
<b>Total Item 5</b>	<b>\$17,965.00</b>
<b>ITEM 6 - Structural Engineering</b>	
GFT Infrastructure, Inc.	\$75,758.00
<b>Total Item 6</b>	<b>\$75,758.00</b>
<b>ITEM 7 - Plat of Highways and Legal Description</b>	
Jorgensen & Associates, Inc.	\$18,221.93
<b>Total Item 7</b>	<b>\$18,221.93</b>
<b>TOTAL DIRECT EXPENSES:</b>	<b>\$153,332.38</b>

## **SCHEDULE**



## SCHEDULE



LEGEND	
■	Consultant Controlled Item
■	Agency Controlled Item
■	Advertisement and Bidding Phase
◆	Project Milestone

Preliminary Plan Submittal June 2026

LCSMC & USACE Permit Submittals

LCDOT Pre-Final Plans, Specs, & Est. November 2026

LCDOT Final Plans, Specs, & Est. February 2027

LCDOT Letting March 2027

**JORGENSEN & ASSOCIATES, INC.**



**JORGENSEN & ASSOCIATES, INC.**  
**LAND SURVEYORS**  
*Est. 1990*

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December 23, 2025

Mr. Joseph J. Emry, P.E.  
Civiltech Engineering, Inc.  
Two Pierce Place  
Suite 1400  
Itasca, Illinois 60143

Re: Martin Luther King Jr. Drive Survey Proposal

Dear Mr. Emry:

Enclosed please find our proposal to prepare a topographic survey and a statutory plat of highways with legal descriptions for the referenced project. Our proposal is based on your emails on November 13<sup>th</sup> and 18<sup>th</sup> and December 18<sup>th</sup>.

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

Respectfully submitted,  
Jorgensen & Associates, Inc.

Kirk J. Ruter, P.L.S.

KJR/pt

Enclosures

E:\Civiltech\North Chicago\MLK Drive\Letter

## **SCOPE OF SERVICES**

### **Topographic Survey**

The project corridor being along Martin Luther King Jr. Drive from the east side of Commonwealth Avenue to the west side of Sheridan Road, from 5' south of the concrete walk, on the south side of the roadway, to 25' north of the back of curb, on the north side of the roadway.

Establish horizontal and vertical control based on NGS geodetic survey monuments (if available) and using G.P.S. survey methods. The project control will be based on NAD 83 (2011 adjustment) and NAVD 88 datums. Benchmarks will be located and described.

The topographic survey will include structures, ground shots, roadway shots, drainage and utilities, street lighting, vegetation, trees 3" or larger DBH, curb and gutters, utilities, and all other pertinent items within the project corridor. All surveyed structures to include inverts. Cross sections will also be obtained along the drainage channel to the north of the roadway. The cross-sections will be at the upstream face of the culvert, 100' and 300' upstream of the upstream face of the culvert. The cross sections will extend from the parking lot to the west of the channel to the bike path on the east of the channel. Additionally, the survey will include the box culvert which runs underneath the roadway including the adjoining structure to the south.

An attempt will be made to recover property and/or other survey monuments within the project corridor in order to identify and compute the existing right-of-way within the project corridor. The existing right-of-way will be drawn and included in the topographic cad files.

### **Land Acquisition Survey**

General: Prepare a Plat of Highways and legal description for 1 permanent easement parcel.

The project involves land surveying to reference the highway center lines (if applicable) to public land lines, location of property boundaries, preparation of a statutory plat of highways and legal descriptions, monumentation of the proposed permanent easement and highways center lines (if required). The preparation and recording of "Monument Record" documents for all U.S. public land survey monuments referenced in the plat of highways.

Search for and locate boundary monumentation and locate appraisal topography on all affected parcels.

Research at County Recorder for any pertinent boundary documentation. Provide and review title commitments, calculate parcel boundaries, proposed center line alignments (if required), and proposed permanent easement lines.

Prepare preliminary plat of highways and legal descriptions.

Monument center line alignments (if required), proposed permanent easement, section corners and quarter corners.

Prepare final plat of highways and legal descriptions, submit to client for recording.

Route: MLK Drive  
Section: Commonwealth Avenue to Sheridan Road  
County: Lake  
Job No.:

**Exhibit "A"**

Payroll Burden & Fringe Costs

	<u>% of Direct Productive Payroll</u>
Federal Insurance Contributions Act _____	11.96%
State Unemployment Compensation _____	0.32%
Federal Unemployment Compensation _____	0.13%
Workmen's Compensation Insurance _____	1.35%
Paid Holidays, Vacation, Sick Leave, Personal Leave _____	11.22%
Bonus _____	4.12%
401(K) _____	0.88%
Group Insurance _____	<u>42.24%</u>
Total Payroll Burden & Fringe Costs	72.22%

Route: MLK Drive  
Section: Commonwealth Avenue to Sheridan Road  
County: Lake  
Job No.:

**Exhibit "B"**

Overhead and Indirect Costs

	<u>% of Direct Productive Payroll</u>
Business Insurance _____	4.26%
Depreciation _____	4.22%
Indirect wages and salaries _____	43.10%
Office Expenses _____	1.18%
Office Supplies _____	2.59%
Dues & Subscriptions _____	0.54%
Computer Software _____	4.32%
Professional Fees _____	1.57%
Telephone _____	2.77%
Fees, license & dues _____	0.05%
Repairs and maintenance _____	2.30%
Business space rent _____	4.74%
Facilities - capital _____	0.33%
In-house mileage _____	-5.71%
Survey Supplies _____	0.80%
Automobile/travel expense _____	7.16%
Miscellaneous Expense _____	0.54%
State Income Tax _____	0.39%
Recruiting _____	1.05%
Postage _____	0.10%
Educational & Professional Registrations _____	0.26%
Tech _____	<u>1.66%</u>
 Total Overhead	 78.22%

**PAYROLL ESCALATION TABLE  
FIXED RAISES**

FIRM NAME Jorgensen & Associates, Inc.  
PRIME/SUPPLEMENT Prime

DATE 12/23/25  
PTB NO. \_\_\_\_\_

CONTRACT TERM 12 MONTHS  
START DATE 12/23/2025  
RAISE DATE 6/1/2026

OVERHEAD RATE 150.44%  
COMPLEXITY FACTOR \_\_\_\_\_  
% OF RAISE 0.00%

**ESCALATION PER YEAR**

12/23/2025 - 6/1/2026

6/2/2026 - 1/1/2027

\_\_\_\_\_

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\_\_\_\_\_

$\frac{5}{12}$

$\frac{7}{12}$

\_\_\_\_\_

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= 41.67%  
= 1.0000

58.33%

**The total escalation for this project would be:**

0.00%





# AVERAGE HOURLY PROJECT RATES

FIRM Jorgensen & Associates, Inc.  
 PSB \_\_\_\_\_  
 PRIME/SUPPLEMENT Prime

DATE 12/23/25

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES			(1) Field-Topographic Survey			(2) Office-Compile Field Data			(3) Office-Create Existing Topogrphay Base File			(4) Office-Create T.I.N. & Contours			(5) QC/QA		
		Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg
Survey Party Chief, P.L.S.	36.50	36	15.93%	5.81				28	73.68%	26.89							8	100.00%	36.50
Survey Party Chief	30.25	76	33.63%	10.17	76	50.00%	15.13												
Instrument Operator	21.00	76	33.63%	7.06	76	50.00%	10.50												
Cadd Supervisor	38.25	38	16.81%	6.43				10	26.32%	10.07	24	100.00%	38.25	4	100.00%	38.25			
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<b>TOTALS</b>		226	100%	\$29.48	152	100.00%	\$25.63	38	100%	\$36.96	24	100%	\$38.25	4	100%	\$38.25	8	100%	\$36.50

Route: MLK Drive  
 Section: Commonwealth Avenue to Sheridan Road  
 County: Lake  
 Job No.:

**Manhour Breakdown  
 Topographic Survey Estimate**

MLK Drive             $\pm \underline{950'} = \pm 0.180 \text{ miles}$   
 Total Length         $\pm \underline{950'} = \pm 0.180 \text{ miles}$

1. Field – Topographic Survey

a. Measure traverse, level circuit & G.P.S. survey 8 hours x 2 men =	16 MH
b. Search & locate existing R.O.W. lines 24 hours x 2 men =	48 MH
c. Locate existing topography & inverts 44 hours x 2 men =	<u>88 MH</u>
Sub-total Item #1	152 MH

2. Office - Compile Field Data

a. Compute traverse, level circuit & G.P.S. survey 4 hours x 1 man =	4 MH
b. Edit & compile field data 8 hours x 1 man =	8 MH
c. Research records 2 hours x 1 man =	2 MH
d. Compute existing R.O.W. lines 24 hours x 1 man =	<u>24 MH</u>
Sub-total Item #2	38 MH



Route: MLK Drive  
Section: Commonwealth Avenue to Sheridan Road  
County: Lake  
Job No.:

**Breakdown of  
In House Direct Costs**

Item

1. Field – Topographic Survey

a. Trips to project site – 10 each  
± 32 miles/trip x 10 trips = ± 320 miles  
± 320 miles @ \$0.70/mile = \$ 224.00

2. Office – Compile Field Data

a. Subdivisions and deeds = \$ 200.00

Total All Items \$ 424.00

**PAYROLL ESCALATION TABLE  
FIXED RAISES**

FIRM NAME Jorgensen & Associates, Inc.  
PRIME/SUPPLEMENT Prime

DATE 12/23/25  
PTB NO. \_\_\_\_\_

CONTRACT TERM 12 MONTHS  
START DATE 12/23/2025  
RAISE DATE 6/1/2026

OVERHEAD RATE 150.44%  
COMPLEXITY FACTOR \_\_\_\_\_  
% OF RAISE 0.00%

**ESCALATION PER YEAR**

12/23/2025 - 6/1/2026

6/2/2026 - 1/1/2027

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= 41.67%  
= 1.0000

58.33%

**The total escalation for this project would be:**

0.00%





## AVERAGE HOURLY PROJECT RATES

FIRM Jorgensen & Associates, Inc.  
 PSB \_\_\_\_\_  
 PRIME/SUPPLEMENT Prime

DATE 12/23/25

SHEET 1 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES			(1) Pre-Survey			(2) Survey Reconnaissance			(3) Project Survey Plan			(4) First Submittal Plat of Hwys. & Descriptions			(5) Survey (Field)		
		Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg
Survey Party Chief, P.L.S.	36.50	58	30.37%	11.08									1	3.85%	1.40				
Survey Party Chief	30.25	46	24.08%	7.29				8	50.00%	15.13							38	50.00%	15.13
Instrument Operator	21.00	46	24.08%	5.06				8	50.00%	10.50							38	50.00%	10.50
Cadd Supervisor	38.25	41	21.47%	8.21	3	100.00%	38.25				4	100.00%	38.25	25	96.15%	36.78			
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<b>TOTALS</b>		191	100%	\$31.64	3	100.00%	\$38.25	16	100%	\$25.63	4	100%	\$38.25	26	100%	\$38.18	76	100%	\$25.63



Route: MLK Drive  
 Section: Commonwealth Avenue to Sheridan Road  
 County: Lake  
 Job No.:

**Manhour Breakdown  
 Land Acquisition Estimate**

Length of Project

MLK Drive            ± 950' = ± 0.180 mile  
 Total Length        ± 950' = ± 0.180 mile

1 Parcel:        1 Permanent Easement

1. Pre-Survey Phase  
 Research available records

a.	Title Co.	)	
		)	
b.	Recorder's Office	)	2 MH
		)	
c.	I.D.O.T.	)	
		)	
d.	Utilities	)	
		)	
e.	Private Surveyors	)	
		)	
f.	Land Owners	)	<u>1 MH</u>

Sub-total Item # 1            3 MH

2. Reconnaissance Survey            2 Men            16 MH

3.	Project Survey Plan		$\pm 2,640'$ /sheet - 1 sheet	
	a.	Alignment info	)	
			)	
	b.	Existing R.O.W. info	)	2 MH
			)	
	c.	Land line data	)	<u>2 MH</u>
			)	
	d.	Subdivision data	)	
			Sub-total Item #3	4 MH
4.	First Submittal Plat of Highways & Descriptions			
	a.	Ownership info	)	
			)	
	b.	Total holding boundaries	)	
			)	
	c.	Total holding area listing	)	2 MH
			)	
	d.	Private survey info	)	
			)	
	e.	Deed calculated closures	)	
	f.	Layout and drafting	$\pm 600'$ /sht. $\pm 1$ sheet	
		16 hours x 1 man =		16 MH
		Cover Sheet	1 sheet	
		1 hour x 1 man =		1 MH
		Alignment sheets	1 sheet	
		3 hours x 1 man =		3 MH
		Total Holding sheets	1 sheet	
		3 hours x 1 man =		3 MH
	g.	Legal descriptions	1 description	<u>1 MH</u>
			Sub-total Item #4	26 MH

5.	Survey (Field)		
a.	Measure existing property lines 28 hours x 2 men =		56 MH
b.	Appraisal topography 4 hours x 2 men =		8 MH
c.	Monument & reference section & quarter corners 2 hours x 2 men =		4 MH
d.	Monument proposed permanent easement 4 hours x 2 men =		<u>8 MH</u>
		Sub-total Item #5	76 MH
6.	Survey (Office)		
a.	Compute traverse 8 hours x 1 man =		8 MH
b.	Compute existing property lines 24 hours x 1 man =		24 MH
c.	Compile appraisal topography 4 hours x 1 man =		4 MH
d.	Compute center line alignment 4 hours x 1 man =		4 MH
e.	Compute proposed permanent easement 4 hours x 1 man =		<u>4 MH</u>
		Sub-total Item #6	44 MH

7.	Final Submittal Plat of Highways & Descriptions	
a.	Final drafting $\pm$ 4 sheets 2 hours x 1 man =	2 MH
b.	Final descriptions 1 description	1 MH
b.	Prepare & record Monument Records 1 Monument Record	2 MH
d.	Assembly of final papers	<u>2 MH</u>
	Sub-total Item #7	7 MH
8.	QC/QA	
a.	Check preliminary plats 4 sheets	12 MH
b.	Check preliminary legal description 1 legal description	1 MH
c.	Check final plats 4 sheets	1 MH
d.	Check final legal description 1 legal description	<u>1 MH</u>
	Sub-total Item #8	15 MH
	Total All Items	191 MH

Route: MLK Drive  
Section: Commonwealth Avenue to Sheridan Road  
County: Lake  
Job No.:

**Breakdown of  
In House Direct Costs**

Item

1. Pre-Survey Phase

a. Trip to County Recorder – 1 each  
± 30 miles/trip x 1 trip = ± 30 miles  
± 30 miles @ \$0.70/mile = \$ 21.00

b. Deeds & Monument Records = \$ 20.00

Sub-total Item #1 \$ 41.00

2. Reconnaissance Survey

a. Trips to project site - 1 each  
± 32 miles/trip x 1 trips = ± 32 miles  
± 32 miles @ \$0.70/mile = \$ 22.40

4. First Submittal Plat of Highways & Descriptions

a. Plat of Highways Mylars  
4 sheets @ \$5.00/sheet = \$ 20.00

5. Survey (Field)

a. Trips to project site - 5 each  
± 32 miles/trip x 5 trips = ± 160 miles  
± 160 miles @ \$0.70/mile = \$ 112.00

7. Final Submittal Plat of Highways & Descriptions

a. Trip to County Recorder	
± 30 miles/trip x 1 trip = ± 30 miles	
± 30 miles @ \$0.70/mile =	\$ 21.00
b. Record Monument Record	
1 Monument Records @ \$60 =	\$ 60.00
c. Deliver Final Papers to Lake County office	
± 22 miles/trip x 1 trip = ± 22 miles	
± 22 miles @ \$0.70/mile =	<u>\$ 15.40</u>
Total All Items	\$ 291.80

Route: MLK Drive  
Section: Commonwealth Avenue to Sheridan Road  
County: Lake  
Job No.:

**Breakdown of  
Services by Others**

Item

1. Pre-Survey Phase

a. Commitments for Title Insurance	
1 Commitment @ \$560.00 each =	\$ 560.00

**MIDLAND STANDARD ENGINEERING & TESTING, INC.**

Mr. Jonathan R. Vana, PE  
**Civiltech Engineering, Inc.**  
 Two Pierce Place, Suite 1400  
 Itasca, Illinois 60143  
[jvana@civiltechinc.com](mailto:jvana@civiltechinc.com)

# SCOPE OF WORK PROPOSAL

William Wyzgala, P.E.  
**Midland Standard  
 Engineering & Testing, Inc.**  
 410 Nolen Drive  
 South Elgin, Illinois 60177  
 (847) 844-1895

1/5/26

Culvert Replacement - Martin Luther King Drive  
 North Chicago, Illinois

For the design of culvert replacement structure, perform three (3) soil borings with split-spoon sampling at 2.5 to 5.0 foot intervals to a depth of fifty-five (55) feet below the surface. Conduct field soil strength tests, obtain soil samples, and conduct laboratory testing to determine moisture content of all soil samples, with visual soil classifications. Provide soil strength parameters and analysis for culvert and headwall design including boring logs, test results, site location plan in an IDOT SGR report format.

SERVICES	UNIT PRICE	EST QTY	BUDGET EXTENSION
<b>Field</b>			
Engineering Services required for boring layout & JULIE clearance, per hour	\$180.00	4	\$720.00
Mobilization of Drill Rig, Equipment & Crew, first day	\$450.00	1	\$450.00
Mobilization of Drill Rig, additional day	\$275.00	1	\$275.00
<b>Structure Soil Boring with Split Spoon Sampling at</b>			
2.5 foot intervals, 0 to 30 feet, per foot	\$23.00	90	\$2,070.00
2.5 foot intervals, 0 to 30 feet, per foot	\$26.00	75	\$1,950.00
Drilling supervision and logging of soil samples, per hr	\$105.00	18	\$1,890.00
Taffic Control, signs, flagman, per day	\$920.00	2	\$1,840.00
<b>Laboratory</b>			
Moisture Content Test, each	\$6.00	55	\$330.00
Soil Classification, Atterberg & Hydrometer, each	\$250.00	1	\$250.00
<b>Engineering Services</b>			
Laboratory data review			
preparation of boring logs, and summary report			
providing soil parameters and recommendations for culvert and headwall design, subgrade treatments by a professional engineer.			
Principal Engineer, per hour	\$160.00	1	\$160.00
Geotechnical Engineer, per hour	\$150.00	16	\$2,400.00
Staff Engineer, per hour	\$110.00	8	\$880.00
Engineermg Technician, per hour	\$100.00	8	\$800.00
<b>Environmental Services</b>			
PIP Radious Map, each	\$400.00	1	\$400.00
Analytical Lab testing for contaminants, LS	\$1,090.00	2	\$2,180.00
IEPA CCDD Certification form LPC 663, LS	\$800.00	1	\$800.00
CCDD Pit Acceptance Letters, Staff Engineer, hr	\$110.00	4	\$440.00
			<b>PROJECT TOTAL</b>
			<b>\$17,835.00</b>

Accepted: \_\_\_\_\_ Date: \_\_\_\_\_

**GFT INFRASTRUCTURE, INC.**

**SCOPE OF SERVICES  
PHASE II ENGINEERING**

**MLK Drive Culvert Replacement and Resurfacing  
Lake County Division of Transportation**

**STRUCTURAL SERVICES  
November 20, 2025**

This document serves as the Scope of Work for Phase II Engineering Services for the structural work associated with the Martin Luther King Jr Drive Culvert Replacement and Resurfacing Project. The scope includes the design of a new culvert for Pettibone Creek and a new retaining wall to the north of Martin Luther King Jr Drive. The project is located in the City of North Chicago. Soil borings are needed for the culvert and wall foundations.

**Task 1: Data Collection – (10 hours)**

- Review Phase I documents, conduct site visit, and take pictures of project features.
- Review geotechnical data including soil boring logs and reports once received.
- Conduct one (1) “plan-in-hand” site visit.

**Task 2: Culvert and Junction Chamber Replacement – (416 hours)**

This scope of work includes final plans and contract documents for the proposed culvert replacement, as detailed below. The existing retaining wall will be replaced by a headwall and wingwalls. It is assumed that the roadway will stay open by utilizing staged construction. The length of the culvert will be approximately the same as the existing structure, ~100’ long.

**Culvert and Junction Chamber Replacement – 6’x6’ and 100’ long**

The existing culvert runs from the north side of Martin Luther King Jr Drive to the south side of this same street, ending in a private parking lot. The structure is assumed to be a cast-in-place concrete box culvert. An inspection of the existing culvert will not be conducted and it is assumed that the culvert requires replacement.

<b>DWG. NO.</b>	<b>TITLE</b>	<b># of Dwgs.</b>	<b>Hours per Dwg.</b>	<b>TOTAL HOURS</b>
1	General Plan & Elevation	1	40	40
2	Temporary Soil Retention System and Staging	1	32	32
3 to 4	Culvert Details (slab plan, longitudinal section)	2	40	80
5	Headwall Details	1	40	40
6 to 8	Wingwall and Apron Details	3	40	120
9 to 10	Junction Chamber Details Sheet	2	40	80
11 to 13	Boring Logs	3	8	24
	<b>Culvert Replacement Plans Subtotal</b>	13	sheets	<b>416</b>

**Task 3: Project Management and Administration – (30 hours)**

This task will include preparing and monitoring the project schedule and updating the schedule periodically as tasks or project scheduling change, as well as perform scope of work reviews, resource planning, contract administration, and invoicing.

**Task 4: Project Coordination/Meetings – (16 hours)**

- Prepare for and attend project meetings. Eight (8) meetings included in this scope.
- Review of comments received from Civiltech Engineering and Lake County Division of Transportation and provide responses to the comments.

**Task 5: QA/QC Plan & Reviews – (10 hours)**

Provide project Quality Assurance / Quality Control review for all major submittals.



<b>Local Public Agency</b> Lake County Division of Transportation	<b>County</b> Lake	<b>Section Number</b> 25-00256-04-DR
<b>Prime Consultant (Firm) Name</b> Civiltech Engineering, Inc.	<b>Prepared By</b> Jesus Escobar	<b>Date</b> 11/14/2025
<b>Consultant / Subconsultant Name</b> GFT Infrastructure, Inc.	<b>Job Number</b> 	

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

<b>CONTRACT TERM</b>	12	MONTHS	<b>OVERHEAD RATE</b>	145.43%
<b>START DATE</b>	1/1/2026		<b>COMPLEXITY FACTOR</b>	
<b>RAISE DATE</b>	4/6/2026		<b>% OF RAISE</b>	3.00%
<b>END DATE</b>	12/31/2026			

### ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	1/1/2026	4/6/2026	3	25.00%
1	4/7/2026	1/6/2027	9	77.25%

The total escalation = 2.25%

**Local Public Agency**

**County**

**Section Number**

Lake County Division of Transportation

Lake

25-00256-04-DR

**Consultant / Subconsultant Name**

**Job Number**

GFT Infrastructure, Inc.

**PAYROLL RATES**

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

<b>MAXIMUM PAYROLL RATE</b>	<b>90.00</b>
<b>ESCALATION FACTOR</b>	<b>2.25%</b>

**JOB SPECIFIC - Classifications and Average Payrates need to match current payrolls submitted to the Department.**

<b>CLASSIFICATION</b>	<b>IDOT AVG PAYROLL RATES ON FILE</b>	<b>CALCULATED RATE</b>
Engineer VII	\$90.00	\$90.00
Engineer VI	\$90.00	\$90.00
Engineer V	\$85.64	\$87.57
Engineer IV	\$72.72	\$74.36
Engineer III	\$60.71	\$62.08
Engineer II	\$47.49	\$48.56
Engineer I	\$36.83	\$37.66
Planner V	\$84.28	\$86.18
Planner IV	\$71.70	\$73.31
Planner III	\$63.52	\$64.95
Planner II	\$46.45	\$47.50
Planner I	\$32.74	\$33.48
Analyst II	\$37.32	\$38.16
Industry Specialist VII	\$90.00	\$90.00
Industry Specialist IV	\$72.86	\$74.50
Surveyor VII	\$90.00	\$90.00
Construction Services VII	\$90.00	\$90.00
Construction Services VI	\$90.00	\$90.00
Construction Services V	\$85.58	\$87.51
Construction Services IV	\$70.50	\$72.09
Construction Services III	\$59.67	\$61.01
Construction Services II	\$49.42	\$50.53
Construction Services I	\$37.01	\$37.84
Designer IV	\$67.75	\$69.27
Designer II	\$46.24	\$47.28
Administrative III	\$43.33	\$44.30
Administrative II	\$35.31	\$36.10

**Local Public Agency**

Lake County Division of Transportation

**County**

Lake

**Section Number**

25-00256-04-DR

**Consultant / Subconsultant Name**

GFT Infrastructure, Inc.

**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
Per Diem (per Federal GSA)	Up to federal maximum			\$0.00
Lodging (per Federal GSA)	Actual Cost (Up to Federal rate maximum)			\$0.00
Lodging Taxes and Fees (per Federal GSA)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per Federal GSA)	Up to Federal rate maximum	100	\$0.66	\$65.50
Vehicle Owned or Leased (no mileage charge allowed)	\$32.50/half day (4 hours or less) or \$65/full day			\$0.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost			\$0.00
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utlility 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
<b>TOTAL DIRECT COSTS:</b>				<b>\$65.50</b>



**Local Public Agency**

Lake County Division of Transportation

**County**

Lake

**Section Number**

25-00256-04-DR

**Consultant / Subconsultant Name**

GFT Infrastructure, Inc.

**Job Number**

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

SHEET  1  OF  1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Data Collection			Culvert and Junction Chamber Replacement			Project Management and Administration			Project Coordination/Meetings			QA/QC Plan & Reviews		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Engineer VII	90.00	0.0																	
Engineer VI	90.00	10.0	2.07%	1.87													10	100.00%	90.00
Engineer V	87.57	76.0	15.77%	13.81	4	40.00%	35.03	45	10.82%	9.47	15	50.00%	43.78	12	75.00%	65.68			
Engineer IV	74.36	92.0	19.09%	14.19	3	30.00%	22.31	75	18.03%	13.41	10	33.33%	24.79	4	25.00%	18.59			
Engineer III	62.08	0.0																	
Engineer II	48.56	123.0	25.52%	12.39	3	30.00%	14.57	115	27.64%	13.42	5	16.67%	8.09						
Engineer I	37.66	181.0	37.55%	14.14				181	43.51%	16.39									
Planner V	86.18	0.0																	
Planner IV	73.31	0.0																	
Planner III	64.95	0.0																	
Planner II	47.50	0.0																	
Planner I	33.48	0.0																	
Analyst II	38.16	0.0																	
Industry Specialist VII	90.00	0.0																	
Industry Specialist IV	74.50	0.0																	
Surveyor VII	90.00	0.0																	
Construction Services VII	90.00	0.0																	
Construction Services VI	90.00	0.0																	
Construction Services V	87.51	0.0																	
Construction Services IV	72.09	0.0																	
Construction Services III	61.01	0.0																	
Construction Services II	50.53	0.0																	
Construction Services I	37.84	0.0																	
Designer IV	69.27	0.0																	
Designer II	47.28	0.0																	
Administrative III	44.30	0.0																	
Administrative II	36.10	0.0																	
<b>TOTALS</b>		482.0	100%	\$56.40	10.0	100.00%	\$71.90	416.0	100%	\$52.69	30.0	100%	\$76.66	16.0	100%	\$84.26	10.0	100%	\$90.00

**GSG CONSULTANTS, INC.**

**Scope of Services**  
**SUE Level B Study**  
**Martin Luther King Jr. Drive from Commonwealth Ave to IL 137**  
**Lake County, IL**

GSG understands that the project involves resurfacing MLK Drive and replacing a 6' x 6' box culvert under the road. The SUE study will be conducted in accordance with ASCE standard 38-22. GSG will provide the following:

- Contact JULIE and request utility data. We will obtain atlases and incorporate them into SUE (Level D)
- Prepare a SUE Map that shows the locations of utilities and indicates the identification source (i.e., Level B vs. SUE Level D). Each level will be identified using a different line type in the map.
- Conduct site reconnaissance of the project area to verify existing utilities and identify any unlocated facilities.
- Conduct a utility coordination meeting with utility companies to review the located facilities/SUE plan. We will produce a list of potential "data gaps," and if further investigation is needed.
- Conduct *Quality Level A* if deemed necessary based on the collected data and the project design plan. We will use dry excavation / Air Knife to expose utilities safely. We will measure and map the utilities and establish accurate horizontal and vertical location data.



<b>Local Public Agency</b> Lake County	<b>County</b> Cook	<b>Section Number</b> 
<b>Prime Consultant (Firm) Name</b> Civiltech Engineering	<b>Prepared By</b> AES	<b>Date</b> 12/18/2025
<b>Consultant / Subconsultant Name</b> GSG Consultants, Inc.	<b>Job Number</b> 	

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

<b>CONTRACT TERM</b>	6	MONTHS	<b>OVERHEAD RATE</b>	128.57%
<b>START DATE</b>	1/1/2026		<b>COMPLEXITY FACTOR</b>	0
<b>RAISE DATE</b>	12/31/2026		<b>% OF RAISE</b>	3.00%
<b>END DATE</b>	6/30/2026			

### ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	1/1/2026	6/30/2026	6	100.00%





## Local Public Agency

Lake County

## County

Cook

## Section Number

## Consultant / Subconsultant Name

GSG Consultants, Inc.

## 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 (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			\$0.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day	3	\$90.00	\$270.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost			\$0.00
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)	1	\$1,300.00	\$1,300.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utility 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
Dry Excavation - Daily Rate	Actual Cost	1	\$5,900.00	\$5,900.00
				\$0.00
				\$0.00
				\$0.00
<b>TOTAL DIRECT COSTS:</b>				<b>\$7,470.00</b>



**Local Public Agency**

Lake County

**County**

Cook

**Section Number**

**Consultant / Subconsultant Name**

GSG Consultants, Inc.

**Job Number**

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

SHEET  1  OF  1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			SUE Study			Meeting and Coordination			Project Management								
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal	90.00	0.0																	
Senior Project Manager	88.63	10.0	9.09%	8.06	4	4.17%	3.69	2	20.00%	17.73	4	100.00%	88.63						
Project Manager	70.70	16.0	14.55%	10.28	8	8.33%	5.89	8	80.00%	56.56									
Assistant Project Manager	54.62	0.0																	
Senior Engineer II	64.00	0.0																	
Senior Engineer I	57.20	0.0																	
Project Engineer II	52.79	16.0	14.55%	7.68	16	16.67%	8.80												
Project Engineer I	46.03	0.0																	
Staff Engineer II	40.05	16.0	14.55%	5.83	16	16.67%	6.68												
Staff Engineer I	33.77	0.0																	
Senior Inspector	63.06	0.0																	
Inspector II	42.63	0.0																	
Inspector I	35.25	0.0																	
Senior Environmental Scie	53.32	0.0																	
Environmental Scientist II	38.55	0.0																	
Environmental Scientist I	31.55	0.0																	
CAD Designer	32.58	16.0	14.55%	4.74	16	16.67%	5.43												
Project Control	56.16	0.0																	
Document Control	40.15	0.0																	
Field Technician	28.50	20.0	18.18%	5.18	20	20.83%	5.94												
Laboratory Technician	27.33	0.0																	
Land Surveyor	41.00	16.0	14.55%	5.96	16	16.67%	6.83												
Administrative Support	29.61	0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
<b>TOTALS</b>		110.0	100%	\$47.73	96.0	100.00%	\$43.26	10.0	100%	\$74.29	4.0	100%	\$88.63	0.0	0%	\$0.00	0.0	0%	\$0.00