



Agreement Type  
Original

LOCAL PUBLIC AGENCY

Local Public Agency		County	Section Number	Job Number
County of McHenry		McHenry	18-00491-00-ES	N/A
Project Number	Contact Name	Phone Number	Email	
N/A	Joyce J. DeLong	(815) 482-0358	jjdelong@mchenrycountyil.gov	

SECTION PROVISIONS

Local Street/Road Name	Key Route	Length	Structure Number
Lakewood Road	FAU 3870	2.0	056-3068, 056-3069
Location Termini			
Algonquin Road to Ackman Road			
Project Description			
Construction of multi-use paths along Lakewood Road, two new pedestrian structures over Kishwaukee Creek, and roundabout at the Lakewood Road and Miller Road intersection.			

Engineering/Right-of-Way Services Funding  Local

Anticipated Construction Funding  Federal  MFT/TBP  State  Other

AGREEMENT FOR

Phase I - Preliminary Eng  Phase II - Design Eng  Phase III - Construction Eng  Right-of-Way Services

CONSULTANT

Prime Consultant (Firm) Name	Contact Name	Phone Number	Email
Crawford, Murphy & Tilly, Inc.	Charles "Tice" Cole	630.907.7059	ccole@cmtengr.com
Address	City	State	Zip Code
550 N. Commons Drive, Suite 116	Aurora	IL	60504

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 roadway section. Local funding allotted to the LPA will be used entirely to finance ENGINEERING SERVICES (as defined in Exhibit A) for the PROJECT (as defined in the above Project Description).

Since the services contemplated under THIS 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. The LPA acknowledges the professional and ethical status of the ENGINEER by entering into THIS 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:

Resident Construction Supervisor Authorized representative of the LPA in immediate charge of the engineering details of the construction of the PROJECT.  
 In Responsible Charge Contractor A full time LPA employee authorized to administer inherently governmental PROJECT activities, Company or Companies to which the construction contract was awarded.

AGREEMENT EXHIBITS

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

- EXHIBIT A: Scope of Services
- EXHIBIT B: Project Schedule
- EXHIBIT C: Qualification Based Selection (QBS) Checklist
- EXHIBIT D: Cost Estimate of Consultant Services (CECS) Worksheets (BLR 05513 or BLR 05514)
- EXHIBIT E: Workhour Summary
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**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 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 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:
  - (a) For Preliminary and/or Design Engineering: The ENGINEER shall submit all invoices to the LPA within three months of the completion of the work called for in THIS AGREEMENT or any subsequent Amendment or Supplement.
  - (b) For Construction Engineering: The ENGINEER shall submit invoices, based on the ENGINEER's progress reports, to the LPA employee In Responsible Charge, no more than once a month for partial payment on account for the ENGINEER's work to date. Such invoices shall represent the value, to the LPA of the partially completed work, based on the sum of the actual costs incurred, plus a percentage (equal to the percentage of the construction engineering completed) of the fixed fee for the fully completed work.
7. 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 not 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, as defined in Exhibit A (Scope of Services).
  - (b) That all plans and other documents furnished by the ENGINEER pursuant to THIS 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 State Department of Transportation, hereinafter called 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. For Construction Engineering Contracts:
  - (a) For Quality Assurance services, provide personnel who have completed the appropriate DEPARTMENT's Bureau of Materials QC/QA trained technical classes.
  - (b) For all projects where testing is required, the ENGINEER shall obtain samples according to the DEPARTMENT's Bureau of Materials "Manual of Test Procedures for Materials," submit DEPARTMENT's Bureau of Materials inspection reports; and verify compliance with contract specifications.
11. That the engineering services shall include all equipment, instruments, supplies, transportation and personnel required to perform the duties of the ENGINEER in connection with THIS AGREEMENT (See DIRECT COSTS 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. For Construction Engineering Contracts:
  - (a) To furnish a full time LPA employee to be In Responsible Charge authorized to administer inherently governmental PROJECT activities.
  - (b) To prepare and approve forms BC 775 and BC 776 as necessary.
4. 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, 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 as required), 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.
5. To pay the ENGINEER as compensation for all services rendered in accordance with THIS AGREEMENT on the basis of the following compensation method as discussed in 5-5.10 of the BLR Manual.

Method of Compensation

Percent

Lump Sum

Specific Rate

Cost plus Fixed Fee:      Fixed

Total Compensation = DL + DC + OH + FF

Where:

DL is the total Direct Labor,

DC is the total Direct Cost,

OH is the firm's overhead rate applied to their DL and

FF is the Fixed Fee.

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

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

**Field Office Overhead Rates:** Field rates must be used for construction engineering projects expected to exceed one year in duration or if the construction engineering contract exceeds \$1,000,000 for any project duration.
6. 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 LPA may impose sanctions as provided for under part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31 U.S.C 3801 et seq.).

## III. IT IS MUTUALLY AGREED,

1. No work shall be commenced by the ENGINEER prior to issuance by the LPA of a written Notice to Proceed.
2. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amount, recipients and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records and supporting documents related to the contract shall be available for review and audit by the LPA or its

authorized representative, 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 LPA for the recovery of any funds paid by the LPA under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.

3. That the ENGINEER shall be responsible for any and all damages to property or persons arising out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and save harmless the LPA 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.
4. THIS AGREEMENT may be terminated by the LPA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LPA all drawings, plats, surveys, reports, permits, agreements, soils and foundation analysis, provisions, specifications, partial and completed estimates and data, if any from soil survey and subsurface investigation with the understanding that all such materials become the property of the LPA. The LPA will be responsible for reimbursement of all eligible expenses incurred under the terms of THIS AGREEMENT up to the date of the written notice of termination.
5. 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.
6. THIS AGREEMENT shall continue as an open contract and the obligations created herein shall remain in full force and effect until the completion of construction of any phase of professional services performed by others based upon the service provided herein. All obligations of the ENGINEER accepted under THIS AGREEMENT shall cease if construction or subsequent professional services are not commenced within 5 years after final payment by the LPA.
7. 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 THIS 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 THIS 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 THIS AGREEMENT been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property.
  - (f) are not presently indicated for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (e) and
  - (g) has not within a three-year period preceding THIS AGREEMENT had one or more public transaction (Federal, State, local) terminated for cause or default.
8. 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.
9. In the event of delays due to unforeseeable causes beyond the control of and without fault or negligence of the ENGINEER no claim for damages shall be made by either party. Termination of THIS 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, as defined in Exhibit B, the ENGINEER shall apply in writing to the LPA for an extension of time. If approved, the PROJECT SCHEDULE shall be revised accordingly.

10. The LPA elects to enforce the certification and requirements of the Drug Free Workplace Act (30 ILCS 580) in THIS AGREEMENT, as modified herein. 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 LPA unless that grantee or contractor will provide a drug free workplace.

False certification or violation of the certification may result in sanctions including, but not limited to suspension of contract or grant payments, termination of a contract or grant and debarment of the contracting or grant opportunities with the LPA 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 those 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 LPA.

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

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

11. Due to the physical location of the project, certain work classifications may be subject to the Prevailing Wage Act (820 ILCS 130/0.01 et seq.).
12. For Preliminary Engineering Contracts:
- (a) That tracing, plans, specifications, estimates, maps and other documents prepared by the ENGINEER in accordance with THIS AGREEMENT shall be delivered to and become the property of the LPA and that basic survey notes, sketches, charts, CADD files, related electronic files, and other data prepared or obtained in accordance with THIS AGREEMENT shall be made available upon request to the LPA 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 DEPARTMENT's current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Manual or any other applicable requirements of the LPA, it being understood that all such furnished documents shall be approved by the LPA 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.

For Construction Engineering Contracts:

- (a) That all services are to be furnished as required by construction progress and as determined by the LPA employee In Responsible Charge. The ENGINEER shall complete all services herein within a time considered reasonable to the LPA, after the CONTRACTOR has completed the construction contract.
- (b) That all field notes, test records and reports shall be turned over to and become the property of the LPA and that during the performance of the engineering services herein provide 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 SIGNATURES**

Executed by the LPA:

Attest: The  of

By (Signature & Date)

By (Signature & Date)

(SEAL)

Executed by the ENGINEER:

Prime Consultant (Firm) Name  
Attest:

By (Signature & Date)

By (Signature & Date)

Title

Title

Local Public Agency

Prime Consultant (Firm) Name

County

Section Number

County of McHenry

Crawford, Murphy & Tilly, Inc.

McHenry

18-00491-00-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.

Route	FAU 3870 (Lakewood Road)
Local Agency	County of McHenry
Section No.	18-00491-00-ES
Job No.	N/A
Project No.	N/A
Type of Funding	Local

## PHASE II ENGINEERING FOR THE LAKEWOOD ROAD CORRIDOR PROJECT

### McHENRY COUNTY DIVISION OF TRANSPORTATION

#### EXHIBIT A - SCOPE OF SERVICES

The McHenry County Division of Transportation, hereafter referred to as Local Public Agency (**LPA**), has initiated a project requiring professional engineering services by Crawford, Murphy & Tilly, Inc. (**ENGINEER**) for Phase II - Design Engineering of the subject project.

#### UNDERSTANDING OF THE PROJECT

**Project Scope and Limits.** The scope of services is based on the approved Project Development Report (PDR) which includes construction of a multi-use path along both the east and west sides of Lakewood Road from Algonquin Road to Ackman Road in the Village of Lake in the Hills, widening of Lakewood Road to provide median refuge islands at multiple intersections, constructing two new pedestrian structures over Kishwaukee Creek located just north of the Miller Road intersection, and the construction of a roundabout at the Lakewood Road and Miller Road intersection. The improvement limits are Station 980+07 to Station 1084+77, a distance of 2.0 miles.

**Schedule.** Phase II design is anticipated to begin in May 2026 and be completed for submission to the Illinois Department of Transportation (**DEPARTMENT**) to be eligible for the March 2028 letting. This project has a date commitment that trees three (3) inches or greater in diameter at breast height shall not be cleared from April 1st through September 30th of any given year.

**Submittals.** All project submittals shall be submitted to the **LPA** for review and comment prior to being submitted to the **DEPARTMENT** and other agencies. The **LPA** may elect to perform concurrent reviews for pre-final and final submittals if previous comments are addressed to **LPA's** satisfaction. An electronic copy of all deliverables shall be provided to the **LPA**. The **ENGINEER** shall copy the **LPA** on all submittals to the **DEPARTMENT** and other agencies.

**Accessibility of Web Content.** All digital and printed public-facing materials and engagement events produced for this project must meet the requirements of Title II of the Americans with Disabilities Act and the Web Content Accessibility Guide (WCAG) 2.1, Level AA.

**Collaboration.** Microsoft Teams should be the primary means of electronic communication with the **LPA**. The **LPA** will host the team and setup various channels to organize project discussions. The **LPA** will provide the **ENGINEER** a file transfer location on Bentley ProjectWise to exchange data.

**Correspondence.** The **ENGINEER** shall maintain for a minimum of three (3) years after acceptance of Affidavit of Completion and the last action on the contract all project correspondence to the **LPA** and other outside agencies.

**Subconsultants.** The following subconsultants are anticipated to be used for the following services:

- Peralte-Clark
  - Drainage design and storm water permitting including the following task numbers:
  - Task 1 – Early Coordination and Data Review
  - Task 3 – Utility Coordination
  - Task 5 – Roadway Plans
  - Task 7 – Quantity Calculations
  - Task 8 – Specs and Special Provisions
  - Task 10 – PS&E Submittals
  - Task 11 – Permitting & Environmental Coordination
  - Task 12 – Phase III Activities
  - Task 13 – Meetings & Coordination
  - Task 14 – Project Admin and Management
  - Task 15 – QA/QC
  - Task 17 – Design Modifications
  
- American Survey & Engineering
  - Task 3 - Utility Conflict Analysis, Coordination, and SUE
  
- Fehr Graham
  - Task 4 - Special Waste Evaluation - Local PSI and CCDD
  
- Rubino
  - Task 18 – Supplemental Geotechnical Studies – Additional Bridge Borings

**Summary.** The *Scope of Services* for Phase II engineering involves the preparation of contract plans and documents to be let for construction by the **DEPARTMENT**. Included in this scope are the following tasks:

1. Early Coordination and Data Review
2. Supplemental Surveys
3. Utility Coordination
4. Special Waste Evaluation
5. Roadway Plans
6. Structural Plans
7. Quantity Calculations
8. Specifications and Special Provisions
9. Construction Estimate of Cost and Estimate of Time
10. PS&E Submittals
11. Permitting and Environmental Coordination
12. Phase III Activities
13. Meetings and Coordination
14. Project Administration and Management
15. Quality Assurance/Quality Control
16. Right-of-Way and Easement Plats
17. Design Modifications
18. Supplemental Geotechnical Studies
19. Lighting Analysis

**TASK 1 – EARLY COORDINATION AND DATA REVIEW**

**Review Existing Data.** The following Phase I documents and existing data will be reviewed:

- Project Development Report and associated technical reports
- Utility atlases and base drawings
- Preliminary Environmental Site Assessment (PESA)
- Additional information acquired post-Phase I through coordination with stakeholders

**Site Visit.** A field check of the Phase I drawings will be performed with **LPA's** project manager and Maintenance Section to review existing conditions.

**TASK 2 - SUPPLEMENTAL SURVEYS**

**Horizontal and Vertical Control.** Re-establish vertical and horizontal control points for supplemental surveys and for reference on Alignment, Ties and Benchmark sheet. Relocation of utilities will be considered when re-establishing control points for use during construction.

- Horizontal control will be based on McHenry County Geodetic Monuments jointly established by the **LPA** and the **DEPARTMENT**. These coordinates are referenced to NAD 83.
- Vertical control will be based on McHenry County Benchmarks and orthometric elevations derived from GPS observations, based on NAVD 88. The correlation of the nearest Elevation Reference Marks that have been established in the Federal Emergency Management Agency (FEMA) Flood Insurance Study (FIS) and Flood Insurance Rate Maps with NGVD 88 datum will be referenced.

**Topographic Survey.** A new topographic survey will be performed since the Phase I survey is outdated. This survey will include benchmarks with references, visible utilities, driveways and field entrances, drainage structures, landscaping elements including trees (per tree inventory requirements), fences, pavement location and type.

- Roadway cross sections will be taken at 50-foot intervals and critical locations beyond anticipated proposed right-of-way or easements. These cross sections shall identify the right-of-way, centerline of the roadway, edges of pavement, edges of shoulders, visible structures and the slope of the embankment on each side. Additional survey will be taken as determined in the field.
- Wetland and water delineations performed as part of this study will be surveyed.
- A JULIE field locate will be called in before the survey so that existing in-ground and aerial utility locations can be surveyed.
- Geotechnical soil boring locations and elevations will be located and surveyed.

**Preliminary Right-of-Way Staking.** Temporary field staking of right-of-way, permanent easement, and temporary easement on an as-needed/requested basis by property owners during negotiations. Includes mobilization, site setup and preparation, staking calculations and coordination with land acquisition staff. Assume half of the properties impacted (17 parcels).

**Right-of-Way Staking.** Stake right-of-way per approved plats. Existing right-of-way may need to be re-established in areas where there are temporary easements and no proposed right-of-way.

**TASK 3 - UTILITY COORDINATION**

**Conflict Identification.** Contact JULIE to assess whether utilities have changed since Phase I. Prepare an exhibit showing the location of potential conflicts (based on best available information provided by local agencies and utility companies during Phase I), plot existing utilities in cross sections, summarize in a spreadsheet, prepare a photo log of the utilities, and submit with a **LPA** template cover letter to utility companies.

**Relocation Assistance.** Coordinate with local agencies and utility companies for resolution of conflicts through project completion. Review utility relocation plans and permits for compatibility with proposed improvement. Permit authorization will come from **LPA**. Show proposed utilities on plans and cross sections. Preliminary, pre-final, and final plans will be sent to the utility companies.

**Subsurface Utility Engineering (SUE) Investigation.** Provide reliable underground utility information for plan preparation and conflict mitigation.

- Traffic control will be required for safety and protection of personnel and the public. Any required local agency permit(s) related to this task will be obtained by the **ENGINEER** or their subconsultant(s). Ten days of traffic control assumed.
- SUE Quality Level A – Test holes and 3D modelling. Assumed 20 locations. Perform SUE Quality Level B in support of SUE Quality Level A test holes. Assume 500 feet per hole.
- SUE Report including plan sheets in accordance with ASCE 38-22 requirements as well as 3D georeferenced CAD file, raw survey data, and field book

**TASK 4 – SPECIAL WASTE EVALUATION**

A Preliminary Site Investigation (PSI) is required based on the Preliminary Environmental Site Assessment (PESA) performed in the Phase I study. The PSI shall be performed in accordance with **DEPARTMENT/BLRS** Manual Section 20-12.05.

**Investigation.** An updated database search will be performed to identify potentially impacted properties. Up to 30 soil borings will be completed to a depth up to 10 feet below ground surface for analytical testing.

**Traffic Control.** Traffic control will be required for safety and protection of the drilling personnel and the public. Any required local agency permit(s) for performing field sampling related to this task will be obtained by the **ENGINEER** or their subconsultant(s).

**PESA Update.** Prepare an updated PESA to be valid for letting including a site visit and records review.

**PSI Report.** The results of the PSI will be documented in a report and will include conclusions and recommendations.

**LPC-663 Documentation.** An LPC-663 form will be prepared and will include a project area map of regulated substance and clean zones. The database search and soil sampling results will be attached for documentation.

**TASK 5 - ROADWAY PLANS**

The roadway plans will be developed and included in the submittals outlined in Task 10. The roadway plans will be prepared under the supervision of a Professional Engineer and will consist of the following drawings. See workhour summary for additional information.

- Cover Sheet
- Index of Sheets, Highway Standards and Commitments
- General Notes
- Summary of Quantities
- Schedule of Quantities
- Typical Sections
- Alignment, Ties and Benchmarks
- Roundabout Baselines
- Removal Plan
- Plan and Profile
- Roundabout Curb Profiles
- Drainage Related General Notes
- Drainage Removal Plans
- Drainage Plan and Profile
- Miscellaneous Drainage Details
- Temporary Drainage for MOT Staging
- Drainage Schedules
- Maintenance of Traffic
- Detour Plan and Notes
- Stormwater Pollution Prevention Plan and Notes
- Soil Erosion and Sediment Control Plan and Details
- Grading Plans
- Plat of Highways
- Pavement Marking and Signing Plans
- Traffic Signal Plans
- Lighting Plans
- Landscaping Plans
- Detail Sheets
- District One Details
- Cross Sections – Roadway
- Cross Sections – Kishwaukee Creek (Compensatory Storage)

**Pavement Design.** Develop a pavement design for full-depth HMA pavement in accordance with **DEPARTMENT/BLRS** procedures.

**Compensatory Storage Design.** Perform drainage and compensatory storage calculations to satisfy the McHenry County Stormwater Management Ordinance requirements.

**Transportation Management Plan.** Not applicable.

**Phase II Drainage Calculations.** IDOT Drainage Manual and the April 2024 ACEC IL and IDOT District 1 Drainage Seminary will be consulted to determine approved drainage software packages and methods for hydraulic calculations. A Preliminary Waterway Structure Design and Hydraulic Report, dated July 2021 and a Location Drainage Technical Memorandum dated July 13, 2021 were prepared in Phase I for this project. The following calculations will be provided.

- Culvert Analysis of minor culverts less than 36 inches in diameter per the LDTM
- Inlet Spacing
- Detention Volume Sizing and Layout
- Water Quality Basin Design
- 3D Model Development Coordination
- Provide alignments and inverts of proposed storm sewers and ditches
- Drainage constructability review for MOT staging

### **TASK 6 – STRUCTURAL PLANS**

The structural plans will be developed and included in the submittals outlined in Task 10. The structural plans will be prepared by, or under the supervision of, an Illinois Licensed Structural Engineer and will consist of the following drawings. See workhour summary for additional information.

Prefabricated Bridges as follows:

- General Plan and Elevation
- General Data
- Abutment Details
- Pile Details
- Soil Borings

Retaining Walls as follows:

- Low Height (<3')
  - Standard Detail
  - Plan and Elevation
- Retaining Walls (3' to 7')
  - General Plan and Elevation
  - General Data
  - Reinforcement Plan and Elevation Details
  - Wall Details
  - Soil Borings

**Load Rating Analysis** | Not applicable.

**TASK 7 - QUANTITY CALCULATIONS**

Quantity calculations will be prepared and included in the submittals outlined in Task 10. Calculations shall be independently reviewed and understandable. The computed quantities will serve as the basis for the Summary of Quantities plan sheets and the **ENGINEER's** Estimate of Cost. Final calculations will be printed and organized in a binder for **LPA** reference

- Earthwork computations, pavement computations and other quantity calculations will conform to the requirements of Section 11-5 of the *BLRS Manual* and *Chapter 64* of the **DEPARTMENT Bureau of Design and Environment (BDE) Manual**.
- The *Standard Specifications for Road and Bridge Construction, Supplemental Specifications* and the *Recurring Special Provisions* will be cross checked to ensure that the appropriate pay items, methods of measurement and basis of payment are used. For each quantity, the IDOT coded pay item number will be used. These coded pay items will be determined from the *IDOT Coded Pay Items* on the **DEPARTMENT** website.

**TASK 8 - SPECIFICATIONS AND SPECIAL PROVISIONS**

The specifications and special provisions will be developed and included in the submittals outlined in Task 10.

- The *IDOT Standard Specifications* and *Supplemental Specifications* are included by reference in the first paragraph of the project Special Provisions. Applicable *IDOT Recurring Special Provisions, Recurring Local Roads and Streets Special Provisions, and Guide Bridge Special Provisions* will be included by reference by use of **DEPARTMENT** check sheets.
- Where a project item contains work, material, unique sequence of operations or any other requirements that are not included in the *Standard Specifications, Supplemental Specifications, Recurring Special Provisions, BDE Special Provisions, Guide Bridge Special Provisions or MCDOT Special Provisions*, a project specific Special Provision will be written. These Special Provisions will conform to the requirements of Section 11-3 of the *BLRS Manual* and *Chapter 66* of the *BDE Manual*.

**TASK 9 - CONSTRUCTION ESTIMATE OF COST AND ESTIMATE OF TIME**

**Estimate of Cost.** Utilizing the pay items and quantities, the Estimate of Cost will be generated. Itemized costs will be determined using available guides and bid tabulations from similar projects. In addition, the pay item reports with awarded prices from the **DEPARTMENT's** website will be used to approximate current unit costs. BDE Form 213 will be used to prepare the cost estimate. A detailed breakdown of lump sum costs will be provided.

**Schedule.** Prepare a bar schedule of the anticipated construction timeline.

**Estimate of Time.** BDE Form 220A will be used to prepare the estimate of time. Itemized production rates will be determined using established guideline shown in the Chapter 66 of the *BDE Manual*.

**TASK 10 – PS&E SUBMITTALS**

The services under this task include time associated with preparing plot files, coordination of printing and distribution of plans. Submittals will be prepared and assembled in accordance with **DEPARTMENT/BLRS Phase 2 Plans and Specifications Guidelines**. The final number of copies will be as directed by the **DEPARTMENT**.

**Preliminary.** This submittal will be considered 85% complete and will include plans, specifications, cost estimate, estimate of time and quantity calculations. PDF’s of these documents will be submitted to the **LPA**, local agencies and utility companies.

**Pre-final.** This submittal will be considered 95% complete and will include plans, specifications, cost estimate, estimate of time, and quantity calculations. PDFs of these documents will be submitted to the **LPA, DEPARTMENT**, local agencies, permitting agencies and utility companies.

**Final.** This submittal will be considered 100% complete and will include plans, specifications, cost estimate, estimate of time, and quantity calculations. These documents will be submitted to the **LPA, DEPARTMENT**, local agencies, permitting agencies and utility companies.

**Central Office.** This is the bid set submittal and will include plans, specifications, cost estimate, estimate of time, and final documents/calculations.

Electronic files including (dgn, pdf, word and excel files) will be included in submittal to **LPA** for the preliminary, pre-final, final and Central Office submittals. The following printed sets are estimated.

<u>Agency</u>	<u>Plans</u>	<u>Documents</u>
<b>LPA</b>	4 copies (11"x17"), 2 copies (22"x34")	4 copies
<b>DEPARTMENT/BLRS</b>	PDF	PDF
Local agencies	2 copies (11"x17")	2 copies
MCP&D	2 copies (11"x17")	2 copies
MLSWCD	1 copy (22"x34")	PDF
USACE	PDF	N/A
Utilities	PDF	N/A

**Disposition of Comments.** Each submittal will include a formal disposition of comments that addresses all review comments from the **DEPARTMENT** and any other agencies. Dispositions to **LPA** comments will be through Bluebeam.

**Grading Surface Models.** Provide existing surface, and proposed subgrade and final surface 3D models for use in earthwork calculations and construction layout. Models will be identified as “Optional Information” for bidding and construction.

**Advance Tree Removal Plan.** Prepare a separate tree removal plan with quantity schedule for a contract to be let by the **LPA** in advance of project construction.

**TASK 11 - PERMITTING AND ENVIRONMENTAL COORDINATION**

**Wetland and Stream Mitigation.** Wetland mitigation is anticipated. **LPA** has credits held at School Springs Wetland and Stream Mitigation Bank for this project. Coordinate final mitigation ratio and required credits with McHenry County Conservation District (MCCD) to complete mitigation agreement and payment. Fees will be paid by the **LPA**.

**Section 404 Permit.** Prepare and submit the joint application. This application packet is designed to simplify the approval process from the (USACE), Illinois Department of Natural Resources/Office of Water Resources (IDNR/OWR) and the Illinois Environmental Protection Agency (IEPA). It is assumed that the project will be permitted as Nationwide Permit 14 for Linear Transportation Projects.

**McHenry County Stormwater Management Permit Application.** Prepare the necessary documentation to submit a permit application to McHenry County Planning and Development (MCP&D) or certified community for the McHenry County Stormwater Management Ordinance. Provide revisions as necessary until permit application has been approved.

**McHenry County Stormwater Management Permit Certification.** Prepare as-built plans (record drawings) by a licensed land surveyor or licensed professional engineer. Submit to MCP&D at the completion of construction. Provide revisions as necessary until approved.

- Preliminary as-built compensatory storage verification during construction using contractor/**LPA** finished grade survey.
- Topographic survey of the final construction project. The topographic survey will include the project limits with roadway cross sections taken at 50-foot intervals. Cross sections shall identify the right-of-way, centerline of roadway, edge of pavement, edge of shoulder, visible structures and the slope of the embankments. An as-built digital terrain model (DTM) will be used for preparing the cross sections. Drainage structures will also be surveyed and annotated.
- A certificate stating that compensatory storage areas/stormwater management facilities were constructed in substantial conformance with the approved development plans. Submittal shall include:
  - A tabular summary of fill and excavation volumes between 0 and 10-year, 10-year and 100-year.
  - As-built cross sections showing the areas of fill and excavation (noted above) overlaid on the existing and Phase II cross sections.
  - As-built plan with the location of cross sections, contours, and drainage structures with inverts, rims and sizes labeled.

**McHenry-Lake County Soil and Water Conservation District (MLSWCD) Review.** Prepare the necessary submittals required for MLSWCD's soil erosion and sediment control review and approval. Fees, if required, will be paid by the **LPA**.

**IDNR-OWR Floodway Construction Permit.** Complete and submit a floodway construction permit for the Illinois Department of Natural Resources – Office of Water Resources (IDNR-OWR). The review fee will be paid by the **ENGINEER**.

**NPDES Permit.** Complete and submit the National Pollutant Discharge Elimination System (NPDES) Permit, Stormwater Pollution Prevention Plan (SWPPP), Notice of Intent (NOI) and Erosion and Sediment Control Plans to IEPA. Complete BDE Forms 2342 and 2342A for inclusion into the Special Provisions. A review fee is not required since the **LPA** is an MS4 community.

**Environmental Survey Request Addendum/Update.** Prepare ESR addendum or request updates from **DEPARTMENT** to ensure environmental clearances are valid.

**Bridge Bat Assessment.** Conduct bat assessment according to **DEPARTMENT** procedures. The Bridge/Structure Bat Assessment form, with photographs, will be submitted to the **DEPARTMENT**.

**Aquatic Resource Delineation Update.** Aquatic delineations are valid for five years. A delineation update will be completed due to the age of the original delineation according to USACE and McHenry County standards. An Aquatic Resource Delineation Report will be prepared.

**Tree Survey.** Trees three inches DHB and greater within project limits will be assessed according to **DEPARTMENT** procedures. A Tree Survey Report will be prepared.

- Trees will be tagged, surveyed, identified, and evaluated for condition and form.
- The data should be in table format and the table headings should include tag number, tree species, size (DBH), station, offset, health, structure, impact status, and suitability for preservation.

**TASK 12 - PHASE III ACTIVITIES**

**Request for Information.** Provide direction and clarification on Request for Information (RFI's) from contractor questions during the bidding process and respond to RFI's, which may include plan revisions during construction.

**Shop Drawing Review.** Provide shop drawing review on all items where review is required by the contract specifications and **DEPARTMENT** documentation procedures. Assumed reviews include, but are not limited to, the following:

- Prefabricated bridge plans
- Traffic signal equipment
- Lighting equipment

**TASK 13 - MEETINGS AND COORDINATION**

**Meetings.** Meetings will serve to discuss and resolve issues in the design engineering process. Agendas and exhibits will be prepared and distributed prior to meetings. Draft minutes will be prepared and distributed no later than five working days after the meeting. Final minutes will be distributed no later than five working days after the review period. A list of action items will be maintained and updated at each meeting. The following meetings are anticipated:

- One (1) project initiation meeting with the **LPA**
- One (1) project initiation meeting with the **DEPARTMENT**
- One (1) plan-in-hand field meeting with the **LPA**
- One (1) meeting with McHenry County P&D
- One (1) meeting with U.S. Army Corps of Engineers
- One (1) pre-construction meeting with the MLSWCD
- One (1) meeting with IDOT District One Detour Committee

- One (1) pre-construction meeting with the **DEPARTMENT**
- Three (3) meetings with McHenry County Conservation District and/or Lake in the Hills
- Three (3) property owner meetings and exhibits |

**TASK 14 - PROJECT ADMINISTRATION AND MANAGEMENT**

**Project Setup.** Provide tasks including contract administration, budget control, internal project team meetings, and project close out.

**Monthly Invoices and Progress Reports.** Prepare and submit monthly invoices and progress reports during months when engineering activities occur, and invoices are due. Progress reports are due by the first of the month.

**Project Coordination.** Provide phone and email updates and general project coordination with the **LPA** as necessary to advance the progress of the project.

**Project Schedule Monitoring.** Prepare and monitor a project schedule and update quarterly as tasks or project scheduling change, as well as perform scope of services reviews, resource planning, internal team coordination and contract administration and invoicing. The schedule assumes 23 months for Phase II services and 18 months for Phase III activities.

**TASK 15 – QUALITY ASSURANCE/QUALITY CONTROL**

**QA/QC.** Establish and adhere to an approved project QA/QC plan. Submit certification of QA/QC for each submittal attesting the QA/QC plan has been implemented on the contract documents. Perform an independent peer review and constructability review of the preliminary, pre-final and final plans and documents.

**TASK 16 – RIGHT-OF-WAY AND EASEMENT PLATS**

Plat of Highways and legal descriptions will be prepared in accordance with **DEPARTMENT** and **LPA** standards. Right-of-way acquisition and/or easements will potentially impact 35 parcels.

**Title Commitments.** Title commitments for impacted parcels will be provided by the **LPA**.

**ROW Document Research.** Necessary courthouse research will be performed that will include all the plats, deeds, and right-of-way documents for each parcel within the project limits and adjoining the project.

**Boundary Survey and Analysis.** Perform a boundary survey and analysis to determine property lines and property corners of impacted parcels.

**Legal Descriptions.** Legal descriptions will be prepared for the right-of-way acquisitions and easements, as determined by ownership.

**Plat of Highway.** A plat of highway will be prepared according to **DEPARTMENT** requirements for the right-of-way acquisitions and easements, as determined by ownership. The proposed right-of-way will consider proposed improvement and utility relocation.

**Individual Plats.** [ Not applicable. ]

**Plat of Resolution.** [Not applicable.]

Plat of Highways and legal descriptions will be submitted to the **DEPARTMENT** for approval.

### **TASK 17 – PHASE 1 DESIGN MODIFICATIONS**

Re-evaluation and design of the following Phase I elements will be performed.

**Existing Phase I Design Review and ORD Modeling (Subtask 1).** Model the approved Phase I design in OpenRoads Designer (ORD) to establish a baseline understanding of the currently approved concept. Modeling will focus on the proposed finished ground line and key geometric elements, including the following. This effort will be limited to reproducing the approved Phase I concept and will not include redesign or optimization at this stage.

- Verify the extent of approved Phase I right-of-way (ROW) and easement impacts
- Confirm typical section limits, curb locations, median widths, and drainage footprints
- Identify locations where the approved design is driving significant ROW impacts or constructability constraints

**Identification of Phase I Constraints and Parameters (Subtask 2).** Based on review of the approved Phase I, identify and document design constraints that will guide all subsequent design refinement efforts, including the following. This task will establish the design parameters within which refinement alternatives will be developed and evaluated.

- Limits on vertical profile modification to maintain 3R classification and avoid reconstruction
- Constraints on horizontal geometry, intersection type, and channelization consistent with the approved Phase I
- Environmental, drainage, and ROW assumptions embedded in the approved Phase I design

**Drainage Concept Evaluation Within Phase I Framework (Subtask 3).** Evaluate drainage concepts within the established Phase I constraints with the objective of reducing ROW impacts while maintaining or improving system performance. This will include the following. Drainage concepts will remain conceptual and will not include detailed hydraulic design at this stage.

- Assessment of open drainage versus closed drainage opportunities where profile allows
- Identification of locations where closed drainage systems could reduce ditch widths and associated ROW needs
- Evaluation of detention requirements based on refined impervious area assumptions for up to three alternatives
- Preliminary evaluation of detention reduction strategies, including median type, median width, and surface treatment adjustments
- Evaluate changes to the proposed Phase I storm sewer design to minimize ROW impacts for up to three alternatives. Changes to the design will be evaluated conceptually. The development of updated sewer sizing calculations, profiles and details will be deferred to Subtask 10, once a preferred alternative has been identified.
- Prepare preliminary detention basin grading designs to accommodate required detention volumes and identify ROW needs for a single preferred "reduced impact" alternative. Updates to five proposed detention basins identified in Phase I anticipated.
- Update ditch sizing and ditch slopes for a single preferred "reduced impact" alternative for updated ROW needs analysis.

- Prepare concept drainage exhibits for **LPA** review.
- Concept drainage analysis will be summarized in a white paper memorandum for LPA review.
- No updates to the Phase I documentation including LDS or Hydraulic Study included and/or anticipated for this task.
- Hydrologic calculations from Phase I will be utilized in updated analysis.
- No roadway reconstruction alternatives will be evaluated.
- Estimated hours do not include the analysis of additional sub-alternatives or design variations of the same alternative. Ditch sizing and detention basin grading tasks noted above will only occur after the selection of a single preferred “reduced impact” alternative.

**Typical Section Refinement Concepts (Subtask 4).** Typical section concepts will be evaluated for feasibility, ROW impacts, and compatibility with the approved Phase I design. Develop and evaluate hybrid typical section concepts that remain consistent with the approved Phase I profile and alignment while advancing project goals. This may include:

- Evaluation of curb and gutter sections in select locations to reduce ROW impacts
- Evaluation of flush versus curbed medians, including turf medians, to reduce impervious area
- Consideration of operational needs such as disabled vehicle bypass areas where median modifications are proposed

The Drainage Concepts (Subtask 3) and Typical Section Concepts (Subtask 4) will be developed in conjunction and evaluated as integrated corridor concepts. It is anticipated that up to three overall concepts may be developed for evaluation, including the following. It is anticipated that one or more of these concepts may ultimately be applied at different segments of the corridor, depending on local conditions, constraints, and design objectives.

- Combination concrete curb and gutter at the edge of pavement (EOP) with a closed drainage system (storm sewer) in locations where the roadway profile exceeds 0.5 percent
- Shoulders with an open drainage system (ditches) in locations where the roadway profile is flatter than 0.5 percent
- A hybrid option, such as shoulders with a wide, traversable concrete gutter between the shoulder and pedestrian accommodations.

**Pedestrian and Bicycle Safety Refinement Concepts (Subtask 5).** Evaluate pedestrian and bicycle safety enhancements along Lakewood Road that address identified safety concerns while minimizing Phase I risk, including the following. All concepts will be developed to remain consistent with the approved Phase I roadway geometry to the greatest extent practicable.

- Evaluation of relocating pedestrian crossings at two-way stop-controlled intersections
- Evaluation of RRFB and HAWK signal applications
- Evaluation of pedestrian crossing consolidation or reduction at intersections where crossings remain
- Evaluation of refuge island modifications to address negative offset and sight-distance concerns for left-turning vehicles

**Roundabout Concept Confirmation (Subtask 6).** Confirm the roundabout concept consistent with the approved Phase I, including the following. This task will focus on confirming compatibility with adjacent design refinements rather than introducing new roundabout geometry

- Maintaining the previously approved location and inscribed circle diameter
- Excluding bypass lanes as part of the current scope
- Refinement of pedestrian and bicycle accommodations at the roundabout

**Preliminary ROW and Easement Impact Reassessment (Subtask 7).** Based on the refined concepts developed in previous subtasks, the following will be performed. This task will remain conceptual and is intended to inform decision-making, not finalize ROW limits.

- Reassess anticipated ROW and easement impacts
- Identify locations where impacts may be reduced compared to the approved Phase I
- Prepare a high-level comparison of anticipated ROW impacts relative to the approved Phase I design

**Concept Screening and Recommendation (Subtask 8).** Prepare a consolidated design refinement concept that best balances the following. The recommended concept will be documented at a level sufficient to support **LPA** review and direction.

- ROW impact reduction
- Pedestrian and bicycle safety improvements
- Drainage performance
- Consistency with the approved Phase I design and minimization of Phase I reevaluation risk

**LPA Coordination and Decision Support (Subtask 9).** Support County review of the refined concept, including:

- One round of review comments
- Targeted supplemental analysis to support **LPA** decision-making
- Incorporation of **LPA** direction into the preferred concept

**Phase II Readiness Documentation (Subtask 10).** Document the final preferred concept in a manner suitable to serve as the basis for Phase II design, including:

- Update Phase I hydrologic calculations for the Preferred Alternative.
  - Update Subarea delineation
  - Update Time of Concentration calculations
  - Update Composite "C"
  - Update Rational Method Runoff calculations using Bulletin 75 rainfall intensities
- Prepare Kishwaukee Creek updated cross sections
- Update the Kishwaukee Creek compensatory storage analysis using the updated creek cross sections and average end area calculations

- Kishwaukee Creek Hydraulic Study update
  - Recreate Natural and Existing HEC-RAS Models
  - Update Proposed HEC-RAS Permit Model and Proposed HEC-RAS Design Model
  - Update the Permit and Design Waterway Information Table (WITs)
  - No scour analysis is anticipated per the original Location Drainage Technical Memorandum (LDTM)
- Re-evaluate BMP requirements due to design adjustments
- Identify water quality treatment basins / ditch locations & concepts (Phase I design)
- The design of rain gardens or bioswales for water quality is not anticipated
- No update to EDP is anticipated
- Prepare 30% D&U sheets for Preferred Alternative, including storm sewer plan and profile
- No updates to the existing PDP sheets are anticipated
- Update Phase I LDTM

**Phase I Re-Evaluation (Subtask 11).** The Village has requested the scope of bicycle and pedestrian accommodations change from dual multi-use paths to a single multi-use path and a single sidewalk. In anticipation of **DEPARTMENT** comments the following tasks have been scoped:

- **DEPARTMENT** Form – Re-evaluation of Environmental Decisions for Local Public Agency Projects
- Prepare Exhibits for the **DEPARTMENT** Form
- Public Information Meeting – Prepare a handout, preferred improvement roll plots (2), boards (5), attendance (2 staff members), documentation of meeting. **LPA** shall handle notifications, newspaper advertisement and venue.
- FHWA Coordination Meeting – Prepare forms and content in advance of the meeting, attendance (2 staff members).

#### **TASK 18 – SUPPLEMENTAL GEOTECHNICAL STUDIES**

Supplemental geotechnical studies will be performed for bridge design. Geotechnical services and report will conform to the requirements of the **DEPARTMENT Geotechnical Manual**.

**Facility Installation Permit.** Prior to performing borings, a no cost **LPA Facility Installation Permit** is required. Exhibits showing boring locations, proposed improvements and ROW will be provided on aerial and soil map backgrounds and will be submitted to the **LPA** for review.

**Structure Borings.** Provide three structure borings to depth required for design each at the proposed bridges over Kishwaukee Creek.

**Laboratory Testing.** The scope will include laboratory testing per AASHTO/ASTM guidelines testing for soil index, particle size distribution, Atterberg limits, soil settlement and collapse potential, shear strength of soil and soil classification.

**Geotechnical Memorandum.** A memorandum report will be prepared to document the findings and recommendations including topsoil depths, undercut locations, and design recommendations. These will be used as the basis for contract plan pay items and quantities.

**TASK 19– LIGHTING ANALYSIS**

Provide intersection lighting plans for the proposed roundabout. Photometric calculations will be submitted with the initial 25% lighting layout, followed by preliminary plans, pre-final and final plan submittals. The work will include the following items:

- Photometric Calculations
- Voltage Drop Calculations
- Coordination with ComEd |

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**EXCLUSIONS TO THE SCOPE OF SERVICES**

The following tasks or items were deemed unnecessary and would be considered as additional services if required:

- Public hearing
- Public notices
- Wetland and stream mitigation fee
- Title commitments (By **LPA**) |
- Land acquisition services (appraisals, negotiations, closings, and certification) (By **LPA**)
- Conditional Letter of Map Revision (CLOMR) or Letter of Map Revision (LOMR)
- Building Information Modeling (BIM), excluding grading surface models

Local Public Agency

Prime Consultant (Firm) Name

County

Section Number

County of McHenry

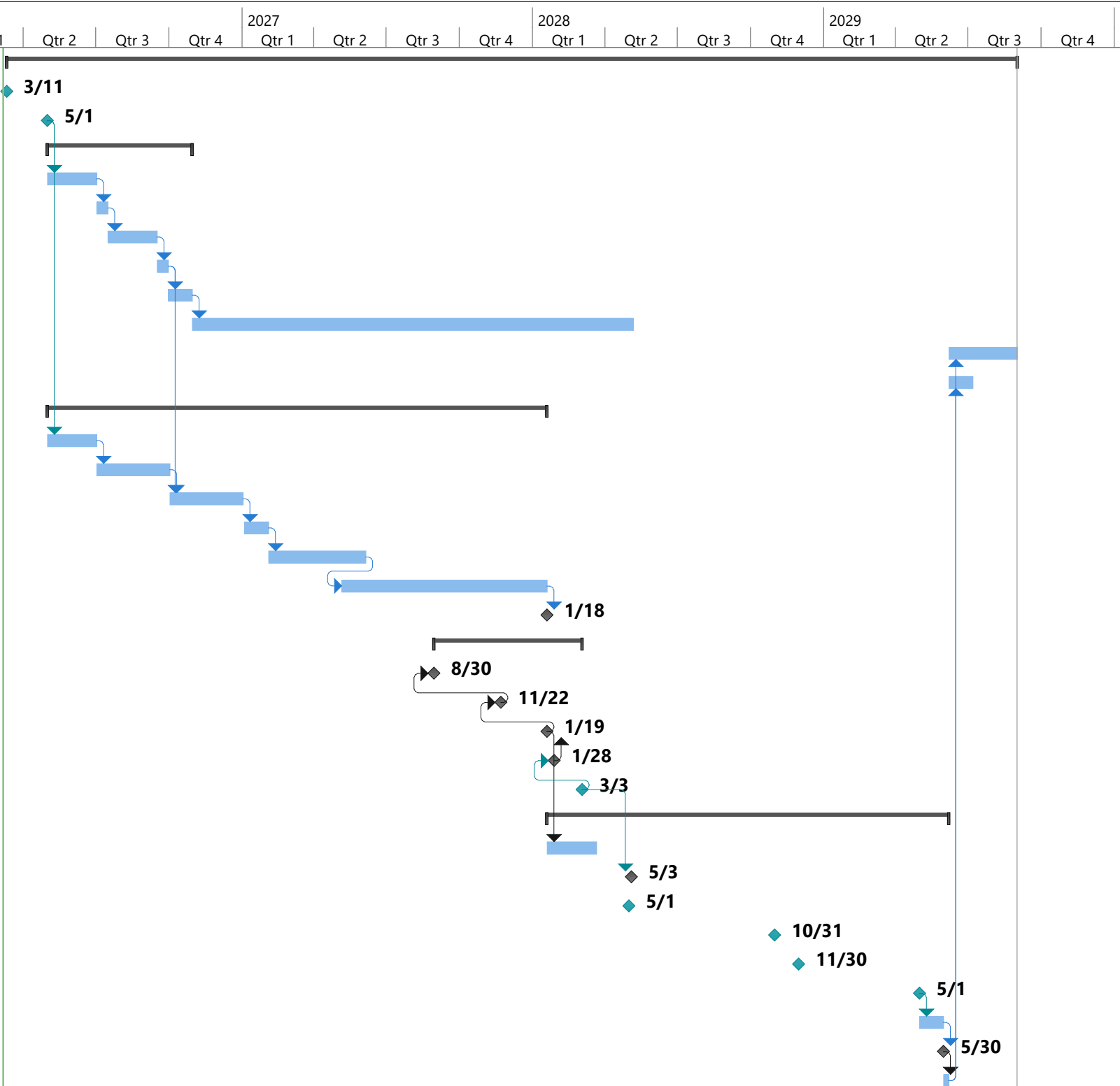
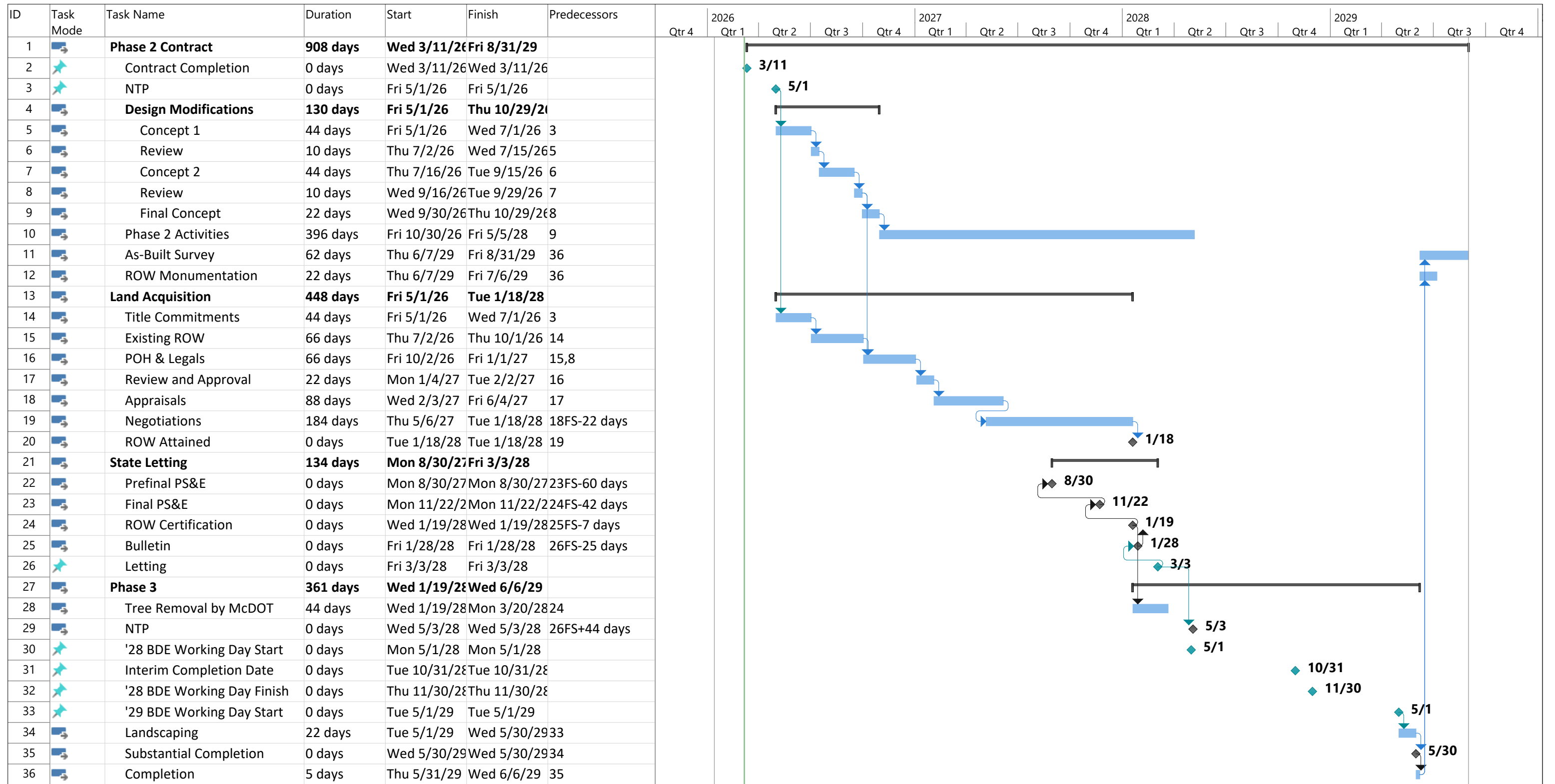
Crawford, Murphy & Tilly, Inc.

McHenry

18-00491-00-ES

**EXHIBIT B  
PROJECT SCHEDULE**

See attached.



Project: 2026-01-13 Schedule C  
Date: Sat 3/7/26

Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
County of McHenry	Crawford, Murphy & Tilly, Inc.	McHenry	18-00491-00-ES

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

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

Form Not Applicable (engineering services less than the threshold)

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

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

If yes due date of submittal 11/12/25

Method(s) and dates: McHenry County Purchasing website (10/28/25 to 11/12/25 Daily Herald Classified (10/29/25)

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

Project Criteria	Weighting
Technical Approach	30%
Firm Experience	20%
Specialized Expertise	20%
Staff Capabilities	10%
Workload Capacity	10%
Past Performance	10%

8	Do the written QBS policies and procedures discuss the method of selection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Selection committee (titles) for this project

Design Manager, Design Engineer IV, Design Engineer II

Top three consultants ranked for this project in order	
1	Crawford, Murphy & Tilly, Inc.
2	RS&H, Inc.
3	Patrick Engineering Inc.

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

<b>Local Public Agency</b> County of McHenry	<b>County</b> McHenry	<b>Section Number</b> 18-00491-00-ES
<b>Prime Consultant (Firm) Name</b> Crawford, Murphy & Tilly, Inc.	<b>Prepared By</b> Charles "Tice" Cole	<b>Date</b> 3/11/2026
<b>Consultant / Subconsultant Name</b> Crawford, Murphy & Tilly, Inc.	<b>Job Number</b> N/A	

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

**Remarks**

Phase 2 for the Lakewood Road Corridor between Algonquin Road and Ackman Road

**PAYROLL ESCALATION TABLE**

<b>CONTRACT TERM</b>	40	MONTHS	<b>OVERHEAD RATE</b>	165.15%
<b>START DATE</b>	5/1/2026		<b>COMPLEXITY FACTOR</b>	0
<b>RAISE DATE</b>	1/1/2027		<b>% OF RAISE</b>	3.00%
<b>END DATE</b>	8/31/2029			

**ESCALATION PER YEAR**

Year	First Date	Last Date	Months	% of Contract
0	5/1/2026	1/1/2027	8	20.00%
1	1/2/2027	1/1/2028	12	30.90%
2	1/2/2028	1/1/2029	12	31.83%
3	1/2/2029	9/1/2029	8	21.85%

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

County of McHenry

McHenry

18-00491-00-ES

**Consultant / Subconsultant Name****Job Number**

Crawford, Murphy &amp; Tilly, Inc.

N/A

**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>4.58%</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>
Principal	\$85.76	\$89.69
Project Manager	\$58.66	\$61.35
Civil Engineer	\$38.80	\$40.58
Project Civil Engineer	\$47.76	\$49.95
Senior Civil Engineer	\$59.28	\$62.00
Structural Engineer	\$40.89	\$42.76
Project Structural Engr	\$50.10	\$52.40
Senior Structural Engr	\$65.13	\$68.11
Senior Structural Engr 2	\$75.31	\$78.76
Specialty Engineer	\$39.73	\$41.55
Senior Specialty Engr 2	\$81.68	\$85.42
Specialty Professional	\$38.16	\$39.91
Project Specialty Prof	\$48.53	\$50.75
Senior Specialty Prof	\$53.40	\$55.85
Senior Specialty Prof 2	\$70.58	\$73.81
Planner	\$38.18	\$39.93
Project Planner	\$49.21	\$51.46
Senior Planner	\$60.22	\$62.98
Senior Planner 2	\$81.00	\$84.71
Environmental Scientist	\$33.49	\$35.02
Project Env Scientist	\$49.50	\$51.77
Senior Env Scientist	\$58.37	\$61.04
Senior Env Scientist 2	\$74.42	\$77.83
Admin	\$32.07	\$33.54
Project Technician	\$39.99	\$41.82
Senior Technician	\$52.16	\$54.55
Admin Specialist	\$41.13	\$43.01



**Local Public Agency**  
County of McHenry

**County**  
McHenry

**Section Number**  
18-00491-00-ES

**Consultant / Subconsultant Name**  
Crawford, Murphy & Tilly, Inc.

**Job Number**  
N/A

**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	8900	\$0.73	\$6,452.50
Vehicle Owned or Leased (no mileage charge allowed)	\$45.00/half day (4 hours or less) or \$90/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)	1	\$30.00	\$30.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)	3072	\$0.17	\$522.24
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)	5	\$100.00	\$500.00
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
Roll Plots (sq ft)	Actual Cost	50	\$1.10	\$55.00
Copies of Specs (page)	Actual Cost	1200	\$0.15	\$180.00
Binding (per set)	Actual Cost	6	\$9.50	\$57.00
<b>TOTAL DIRECT COSTS:</b>				<b>\$7,796.74</b>

**Lakewood Corridor from Algonquin Rd to Ackman Rd  
McHenry County Division of Transportation**

**Estimate of Direct Costs**

**Crawford, Murphy, and Tilly, Inc.**

**1 Early Coordination and Data Review**

**a Site Visits**

	miles	\$/mi		total	
1 trip x 100 miles round trip x \$0.725	100	\$	0.725	\$	72.50

**Sub - total**

**\$72.50**

**2 Supplemental Surveys**

**Mileage**

**a Topographic Surveys for Base Mapping**

	miles	\$/mi		total	
43 trips x 100 miles round trip x \$0.725	4300	\$	0.725	\$	3,117.50

**b Geotechnical Layout and Survey**

	miles	\$/mi		total	
1 trip x 100 miles round trip x \$0.725	100	\$	0.725	\$	72.50

**d Preliminary Staking Right-of-Way / Easement Limits for Negotiation Purposes**

	miles	\$/mi		total	
4 trips x 100 miles round trip x \$0.725	400	\$	0.725	\$	290.00

**e Final Staking of ROW / Permanent Easement Limits**

	miles	\$/mi		total	
7 trips x 100 miles round trip x \$0.725	700	\$	0.725	\$	507.50

**Sub - total**

**\$3,987.50**

**3 Utility Coordination**

**a None**

**Sub - total**

**\$0.00**

**4 Special Waste Evaluation**

**a None**

**Sub - total**

**\$0.00**

**Lakewood Corridor from Algonquin Rd to Ackman Rd  
McHenry County Division of Transportation**

**Estimate of Direct Costs**

**Crawford, Murphy, and Tilly, Inc.**

<b>5</b>	<b>Roadway Plans</b>					
a	None - See Task 10					
	<b>Sub - total</b>					<b>\$0.00</b>
<b>6</b>	<b>Structural Plans</b>					
a	None - See Task 10					
	<b>Sub - total</b>					<b>\$0.00</b>
<b>7</b>	<b>Quantity Calculations</b>					
a	None - no printed copies anticipated (.pdf only)					
	<b>Sub - total</b>					<b>\$0.00</b>
<b>8</b>	<b>Specifications and Special Provisions</b>					
a	None - no printed copies anticipated (.pdf only)					
	<b>Sub - total</b>					<b>\$0.00</b>
<b>9</b>	<b>Construction Estimate and Estimate of Time</b>					
a	None - no printed copies anticipated (.pdf only)					
	<b>Sub - total</b>					<b>\$0.00</b>
<b>10</b>	<b>PS&amp;E Submittals</b>					
a	Printing					
		pages	sets	\$/page	total	
	512 sheets (11x17) x 6 sets	512		6	\$0.17	\$522.24
	200 pages (8.5x11) x 6 sets	200		6	\$0.15	\$180.00
		each	\$/each	total		
	spec GBC binding	6	\$4.00	\$24.00		
	spec clear cover	6	\$1.00	\$6.00		
	binding screw post	18	\$1.50	\$27.00		
b	Mailing					
	UPS or Fed Ex package for IDNR permit					\$30.00
	<b>Sub - total</b>					<b>\$789.24</b>

**Lakewood Corridor from Algonquin Rd to Ackman Rd  
McHenry County Division of Transportation**

**Estimate of Direct Costs**

**Crawford, Murphy, and Tilly, Inc.**

<b>11</b>	<b>Permitting and Environmental Coordination</b>					
d	As-Built Field Surveys					
	10 trips x 100 miles round trip x \$0.725	miles	\$/mi	total		
		1000	\$	0.725	\$	725.00
i	Bridge Bat Assessment - Site Visit					
	1 trip x 100 miles round trip x \$0.725	miles	\$/mi	total		
		100	\$	0.725	\$	72.50
j	Wetland Delineation Update - Site Visit					
	1 trip x 100 miles round trip x \$0.725	miles	\$/mi	total		
		100	\$	0.725	\$	72.50
k	Tree Survey and Mitigation Plan - Site Visit					
	1 trip x 100 miles round trip x \$0.725	miles	\$/mi	total		
		100	\$	0.725	\$	72.50
	<b>Sub - total</b>					<b>\$942.50</b>
<b>12</b>	<b>Phase III Activities</b>					
a	None					
	<b>Sub - total</b>					<b>\$0.00</b>
<b>13</b>	<b>Meetings and Coordination</b>					
a	General Project Travel:					
	5 trips x 100 miles round trip x \$0.725	miles	\$/mi	total		
	Assume most meetings are virtual	500	\$	0.725	\$	362.50
	<b>Sub - total</b>					<b>\$362.50</b>
<b>14</b>	<b>Project Administration and Management</b>					
a	None					
	<b>Sub - total</b>					<b>\$0.00</b>
<b>15</b>	<b>Quality Assurance/Quality Control</b>					
a	None					
	<b>Sub - total</b>					<b>\$0.00</b>

**Lakewood Corridor from Algonquin Rd to Ackman Rd  
McHenry County Division of Transportation**

**Estimate of Direct Costs**

**Crawford, Murphy, and Tilly, Inc.**

**16 Right-of-Way and Easement Plats**

**Mileage**

b	Land Survey Field Work Boundary/Property/ROW lines					
		miles	\$/mi		total	
	15 trips x 100 miles round trip x \$0.725	1500	\$	0.725	\$	1,087.50

**Sub - total** **\$1,087.50**

**17 Design Modifications**

a	Printing	each	sqft each	\$/sqft		total
	Roll Plots		2	25	\$1.10	\$55.00
	Boards	each	5	\$/each	\$100.00	\$500.00

**Sub - total** **\$555.00**

**18 Supplemental Geotechnical Studies**

a None

**Sub - total** **\$0.00**

**19 Lighting Analysis**

a None

**Sub - total** **\$0.00**

**TOTAL** **\$7,796.74**

**Local Public Agency**

County of McHenry

**County**

McHenry

**Section Number**

18-00491-00-ES

**Consultant / Subconsultant Name**

Crawford, Murphy & Tilly, Inc.

**Job Number**

N/A

**COST ESTIMATE WORKSHEET**

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE **165.15%**

COMPLEXITY FACTOR **0**

TASK	DIRECT COSTS (not included in row totals)	MANHOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
1. Early Coord. and Data Review	73	76	4,906	8,103	1,619	4,147	18,848	0.74%
2. Supplemental Surveys	3,988	1371	65,527	108,218	21,624		199,357	7.81%
3. Utility Coordination		16	992	1,638	327	98,314	101,271	3.97%
4. Special Waste Evaluation		18	1,077	1,778	355	44,072	47,282	1.85%
5. Roadway Plans		3675	189,413	312,816	62,506	223,575	788,310	30.89%
6. Structural Plans		944	44,596	73,650	14,717		132,963	5.21%
7. Quantity Calculations		408	18,198	30,054	6,005	20,919	75,176	2.95%
8. Specs and Special Provisions		148	8,840	14,600	2,917	4,873	31,230	1.22%
9. Construction Estimate and EOT		112	6,578	10,863	2,171		19,612	0.77%
10. PS&E Submittals	789	432	21,224	35,052	7,004	4,605	68,674	2.69%
11. Permitting and Env Coord.	943	643	33,598	55,487	11,087	45,503	146,618	5.74%
12. Phase III Activities		152	8,125	13,419	2,681	3,333	27,558	1.08%
13. Meetings and Coordination	363	106	6,853	11,318	2,262	18,681	39,477	1.55%
14. Project Admin and Management		167	13,614	22,483	4,493	44,713	85,303	3.34%
15. QA/QC		439	28,024	46,281	9,248	35,669	119,222	4.67%
16. ROW and Easement Plats	1,088	1173	56,456	93,238	18,631		169,413	6.64%
17. Design Modifications	555	991	51,939	85,777	17,140	263,345	418,756	16.41%
18. Supplemental Geotech Studies		25	1,647	2,720	544	25,558	30,469	1.19%
19. Lighting Analysis		48	2,345	3,873	774		6,992	0.27%
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<b>Subconsultant DL</b>					25,598.80		25,599	1.00%
<b>TOTALS</b>	7,797	10944	563,952	931,368	211,704	837,307	2,552,128	100.00%

**Local Public Agency**

County of McHenry

**County**

McHenry

**Section Number**

18-00491-00-ES

**Consultant / Subconsultant Name**

Crawford, Murphy & Tilly, Inc.

**Job Number**

N/A

**AVERAGE HOURLY PROJECT RATES**

**EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET**

SHEET 1 OF 4

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			1. Early Coord. and Data Review			2. Supplemental Surveys			3. Utility Coordination			4. Special Waste Evaluation			5. Roadway Plans		
		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	89.69	400.0	3.65%	3.28	16	21.05%	18.88	5	0.36%	0.33							40	1.09%	0.98
Project Manager	61.35	785.0	7.17%	4.40	32	42.11%	25.83										160	4.35%	2.67
Civil Engineer	40.58	2,228.0	20.36%	8.26				10	0.73%	0.30							1067	29.03%	11.78
Project Civil Engineer	49.95	1,543.0	14.10%	7.04	16	21.05%	10.52	44	3.21%	1.60				2	11.11%	5.55	1014	27.59%	13.78
Senior Civil Engineer	62.00	1,406.0	12.85%	7.96							16	100.00%	62.00				926	25.20%	15.62
Structural Engineer	42.76	586.0	5.35%	2.29															
Project Structural Engr	52.40	121.0	1.11%	0.58															
Senior Structural Engr	68.11	100.0	0.91%	0.62	4	5.26%	3.58												
Senior Structural Engr 2	78.76	0.0																	
Specialty Engineer	41.55	188.0	1.72%	0.71													124	3.37%	1.40
Senior Specialty Engr 2	85.42	245.0	2.24%	1.91				60	4.38%	3.74							24	0.65%	0.56
Specialty Professional	39.91	571.0	5.22%	2.08				44	3.21%	1.28									
Project Specialty Prof	50.75	2.0	0.02%	0.01				2	0.15%	0.07									
Senior Specialty Prof	55.85	0.0																	
Senior Specialty Prof 2	73.81	214.0	1.96%	1.44				158	11.52%	8.51									
Planner	39.93	0.0																	
Project Planner	51.46	0.0																	
Senior Planner	62.98	0.0																	
Senior Planner 2	84.71	0.0																	
Environmental Scientist	35.02	0.0																	
Project Env Scientist	51.77	217.0	1.98%	1.03															
Senior Env Scientist	61.04	16.0	0.15%	0.09										16	88.89%	54.26			
Senior Env Scientist 2	77.83	0.0																	
Admin	33.54	0.0																	
Project Technician	41.82	1,504.0	13.74%	5.75				1048	76.44%	31.97									
Senior Technician	54.55	810.0	7.40%	4.04	8	10.53%	5.74										320	8.71%	4.75
Admin Specialist	43.01	8.0	0.07%	0.03															
<b>TOTALS</b>		10944.0	100%	\$51.53	76.0	100.00%	\$64.55	1371.0	100%	\$47.79	16.0	100%	\$62.00	18.0	100%	\$59.81	3675.0	100%	\$51.54

**Local Public Agency**

County of McHenry

**County**

McHenry

**Section Number**

18-00491-00-ES

**Consultant / Subconsultant Name**

Crawford, Murphy & Tilly, Inc.

**Job Number**

N/A

**AVERAGE HOURLY PROJECT RATES**

**EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET**

SHEET 2 OF 4

PAYROLL CLASSIFICATION	AVG HOURLY RATES	6. Structural Plans			7. Quantity Calculations			8. Specs and Special Provisions			9. Construction Estimate and EOT			10. PS&E Submittals			11. Permitting and Env Coord.		
		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	89.69	28	2.97%	2.66							7	6.25%	5.61						
Project Manager	61.35	7	0.74%	0.45				12	8.11%	4.97	7	6.25%	3.83				110	17.11%	10.49
Civil Engineer	40.58	110	11.65%	4.73	260	63.73%	25.86							192	44.44%	18.03			
Project Civil Engineer	49.95	100	10.59%	5.29	120	29.41%	14.69				16	14.29%	7.14	120	27.78%	13.87			
Senior Civil Engineer	62.00	8	0.85%	0.53	24	5.88%	3.65	120	81.08%	50.27	32	28.57%	17.71	120	27.78%	17.22	8	1.24%	0.77
Structural Engineer	42.76	546	57.84%	24.73															
Project Structural Engr	52.40	97	10.28%	5.38															
Senior Structural Engr	68.11	48	5.08%	3.46															
Senior Structural Engr 2	78.76																		
Specialty Engineer	41.55				4	0.98%	0.41	16	10.81%	4.49	4	3.57%	1.48						
Senior Specialty Engr 2	85.42										2	1.79%	1.53				28	4.35%	3.72
Specialty Professional	39.91																		
Project Specialty Prof	50.75																		
Senior Specialty Prof	55.85																		
Senior Specialty Prof 2	73.81																		
Planner	39.93																		
Project Planner	51.46																		
Senior Planner	62.98																		
Senior Planner 2	84.71																		
Environmental Scientist	35.02																		
Project Env Scientist	51.77																217	33.75%	17.47
Senior Env Scientist	61.04																		
Senior Env Scientist 2	77.83																		
Admin	33.54																		
Project Technician	41.82																200	31.10%	13.01
Senior Technician	54.55										44	39.29%	21.43				80	12.44%	6.79
Admin Specialist	43.01																		
<b>TOTALS</b>		944.0	100%	\$47.24	408.0	100%	\$44.60	148.0	100%	\$59.73	112.0	100%	\$58.73	432.0	100%	\$49.13	643.0	100%	\$52.25

**Local Public Agency**

County of McHenry

**County**

McHenry

**Section Number**

18-00491-00-ES

**Consultant / Subconsultant Name**

Crawford, Murphy & Tilly, Inc.

**Job Number**

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

SHEET  3  OF  4

PAYROLL CLASSIFICATION	AVG HOURLY RATES	12. Phase III Activities			13. Meetings and Coordination			14. Project Admin and Management			15. QA/QC			16. ROW and Easement Plats			17. Design Modifications		
		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
Principal	89.69				34	32.08%	28.77	120	71.86%	64.45	56	12.76%	11.44	14	1.19%	1.07	80	8.07%	7.24
Project Manager	61.35				30	28.30%	17.36	41	24.55%	15.06	20	4.56%	2.79				365	36.83%	22.60
Civil Engineer	40.58				26	24.53%	9.95				16	3.64%	1.48	30	2.56%	1.04	517	52.17%	21.17
Project Civil Engineer	49.95	32	21.05%	10.52	10	9.43%	4.71	4	2.40%	1.20	16	3.64%	1.82	28	2.39%	1.19	21	2.12%	1.06
Senior Civil Engineer	62.00	24	15.79%	9.79							120	27.33%	16.95						
Structural Engineer	42.76	40	26.32%	11.25															
Project Structural Engr	52.40	24	15.79%	8.27															
Senior Structural Engr	68.11	24	15.79%	10.75	6	5.66%	3.86	2	1.20%	0.82									
Senior Structural Engr 2	78.76																		
Specialty Engineer	41.55																		
Senior Specialty Engr 2	85.42										14	3.19%	2.72	109	9.29%	7.94			
Specialty Professional	39.91													527	44.93%	17.93			
Project Specialty Prof	50.75																		
Senior Specialty Prof	55.85																		
Senior Specialty Prof 2	73.81										49	11.16%	8.24	7	0.60%	0.44			
Planner	39.93																		
Project Planner	51.46																		
Senior Planner	62.98																		
Senior Planner 2	84.71																		
Environmental Scientist	35.02																		
Project Env Scientist	51.77																		
Senior Env Scientist	61.04																		
Senior Env Scientist 2	77.83																		
Admin	33.54																		
Project Technician	41.82													256	21.82%	9.13			
Senior Technician	54.55	8	5.26%	2.87							148	33.71%	18.39	202	17.22%	9.39			
Admin Specialist	43.01																8	0.81%	0.35
<b>TOTALS</b>		152.0	100%	\$53.46	106.0	100%	\$64.65	167.0	100%	\$81.52	439.0	100%	\$63.84	1173.0	100%	\$48.13	991.0	100%	\$52.41

**Local Public Agency**

County of McHenry

**County**

McHenry

**Section Number**

18-00491-00-ES

**Consultant / Subconsultant Name**

Crawford, Murphy & Tilly, Inc.

**Job Number**

**AVERAGE HOURLY PROJECT RATES**

**EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET**

SHEET 4 OF 4

PAYROLL CLASSIFICATION	AVG HOURLY RATES	18. Supplemental Geotech Studies			19. Lighting Analysis														
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
Principal	89.69																		
Project Manager	61.35	1	4.00%	2.45															
Civil Engineer	40.58																		
Project Civil Engineer	49.95																		
Senior Civil Engineer	62.00	8	32.00%	19.84															
Structural Engineer	42.76																		
Project Structural Engr	52.40																		
Senior Structural Engr	68.11	16	64.00%	43.59															
Senior Structural Engr 2	78.76																		
Specialty Engineer	41.55				40	83.33%	34.63												
Senior Specialty Engr 2	85.42				8	16.67%	14.24												
Specialty Professional	39.91																		
Project Specialty Prof	50.75																		
Senior Specialty Prof	55.85																		
Senior Specialty Prof 2	73.81																		
Planner	39.93																		
Project Planner	51.46																		
Senior Planner	62.98																		
Senior Planner 2	84.71																		
Environmental Scientist	35.02																		
Project Env Scientist	51.77																		
Senior Env Scientist	61.04																		
Senior Env Scientist 2	77.83																		
Admin	33.54																		
Project Technician	41.82																		
Senior Technician	54.55																		
Admin Specialist	43.01																		
<b>TOTALS</b>		25.0	100%	\$65.89	48.0	100%	\$48.86	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00



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

<b>Local Public Agency</b> McHenry County DOT	<b>County</b> McHenry County	<b>Section Number</b> 18-00491-00-ES
<b>Prime Consultant (Firm) Name</b> CMT	<b>Prepared By</b> John A. Clark	<b>Date</b> 3/9/2026
<b>Consultant / Subconsultant Name</b> Peralte-Clark, LLC	<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**

CONTRACT TERM	24	MONTHS		OVERHEAD RATE	167.25%
START DATE	4/1/2026			COMPLEXITY FACTOR	0
RAISE DATE	1/1/2027			% OF RAISE	3.00%
END DATE	3/31/2028				

**ESCALATION PER YEAR**

Year	First Date	Last Date	Months	% of Contract
0	4/1/2026	1/1/2027	9	37.50%
1	1/2/2027	1/1/2028	12	51.50%
2	1/2/2028	4/1/2028	3	13.26%

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The total escalation = 2.26%



<b>Local Public Agency</b>	<b>County</b>	<b>Section Number</b>
McHenry County DOT	McHenry County	18-00491-00-ES
<b>Consultant / Subconsultant Name</b>		<b>Job Number</b>
Peralte-Clark, LLC		

**SUBCONSULTANTS**

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

<b>NAME</b>	<b>Direct Labor Total</b> <i>(Payroll Only)</i>	<b>Contribution to Prime Consultant</b>
<b>Total</b>	<b>0.00</b>	<b>0.00</b>

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

**Local Public Agency**

McHenry County DOT

**County**

McHenry County

**Section Number**

18-00491-00-ES

**Consultant / Subconsultant Name**

Peralte-Clark, LLC

**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	750	\$0.73	\$543.75
Vehicle Owned or Leased (no mileage charge allowed)	\$45.00/half day (4 hours or less) or \$90/full day			\$0.00
Vehicle Rental	Actual Cost (Up to \$55/day)	2	\$55.00	\$110.00
Tolls	Actual Cost	1	\$50.00	\$50.00
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)	4	\$30.00	\$120.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)	1	\$500.00	\$500.00
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
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
IDNR-OWR Fee	Actual Cost	1	\$5,000.00	\$5,000.00
				\$0.00
				\$0.00
<b>TOTAL DIRECT COSTS:</b>				<b>\$6,323.75</b>



July 1, 2025 thru June 30, 2026

## OFFICE OF WATER RESOURCES PERMIT APPLICATION FEE NOTICE

**Effective July 1, 2025, the IDNR Office of Water Resources base principal review fees have been adjusted to account for inflation.** The U.S. Bureau of Labor Statistics' Consumer Price Index Table for all urban consumers (CPI-U), U.S. city average, all items, base period 1982-1984=100 (Series ID: CUUR0000SA0) has been used to calculate the adjustment factor. The adjustment factor for fiscal year 2026 (July 1, 2025 – June 30, 2026) is:  $[\text{CPI for May 2025 (321.465)} \div \text{CPI for June 2013 (233.504)}] = 1.377$ . In accordance with the Part 3700 Floodway Construction, Part 3702 Dam Safety, Part 3704 Public Waters, and Part 3708 Floodway Construction in Northeastern Illinois administrative rules, the base fee amounts in those rules have been multiplied by this factor and rounded to the nearest \$10 to compute the fiscal year 2025 review fees. **A summary of the July 1, 2025, through June 30, 2026, application review fees follows:**

### 1) PERMIT REQUIRED DETERMINATION: \$0

All applications and written inquiries received will be reviewed free of charge to determine whether or not the dam and/or floodway work proposed requires authorization by the Department, so long as sufficient information is provided for the Department to make that determination. If a permit authorization is not required for the activity proposed, or is already covered by Statewide Permit authorization, the applicant will be notified of such determination. If a permit is required for the activity proposed and is not already permitted by Statewide Permit authorization, permit applicants must pay a non-refundable permit application review fee determined by the Department to allow review of the permit application to continue. The applicant shall be notified of that determination in writing, immediately after this initial review of the application. Applications will be deemed withdrawn if the review fee is not received within 90 days after the applicant is notified of the amount of the fee.

### 2) REVIEW FEE: \$ varies

Application processing shall not be initiated until the review fee is received.

**\$280** for Department documentation of construction activities that occur within the floodway boundaries of an approved delegated community. This fee must be provided to the Department prior to delegation of the application for review;

**\$280** for previously permitted appropriate uses or floodway construction activities requiring new permit authorization in accordance with provisions in the rules preventing the transfer of permits, and not involving any changes from the previously permitted activity;

**\$690** for construction activities that meet the terms and conditions of a general permit;

**\$1,380** for construction activities that the Department determines would not require review of a hydrologic and/or hydraulic analysis to demonstrate compliance with the rules;

**\$2,070** for operating authorization for an existing dam (Class I, II, and III);

**\$3,440** for construction activities such as levees, certain bridge/culvert crossings, and major floodway filling that the Department determines will require review of a hydrologic and/or hydraulic analysis to demonstrate compliance with the **Part 3700 rules**. The review fee will be **capped at \$5,000 for applications requiring public notice**;

**\$3,440** for **Public Water** construction activities that the Department determines would not likely cause any of the impacts listed in Section 3704.80(a);

**\$3,440** for removal of a dam (Class I, II, and III);

**\$3,440** for major modification of an existing Class III Dam;

**\$4,130** for construction activities in Northeastern Illinois (**3708 rules area**) such as levees, bridges, culverts, channel modifications, and public flood control projects that the Department determines will require review of a hydrologic and/or hydraulic analysis to demonstrate compliance with departmental standards. The review fee will be **capped at \$5,000 for applications requiring public notice**;

**\$4,820** for major modification of an existing Class I or Class II Dam;

**\$5,000** for **Public Water** construction activities such as new barge terminals, marinas and water level management structures that would likely cause one or more of the impacts listed in Section 3704.80(a);

**\$5,000** for construction of a new Class I, Class II, or Class III Dam;

**If the construction activity being applied for also requires authorization under other IDNR/OWR regulations, the review fee for each authorization shall be added to calculate the total review fee. The total review fee shall continue to be capped at \$5,000.**

In accordance with the Rivers, Lakes and Streams Act, the collected fees will be deposited into the State Boating Act Fund for use by the IDNR alone to help defray a portion of the ordinary and contingent expenses of the IDNR.

Thank you for your cooperation in this matter.



**Local Public Agency**

McHenry County DOT

**County**

McHenry County

**Section Number**

18-00491-00-ES

**Consultant / Subconsultant Name**

Peralte-Clark, LLC

**Job Number**

**AVERAGE HOURLY PROJECT RATES**

**EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET**

SHEET 1 OF 3

PAYROLL  CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Task 1 – Early Coord.& Data Review			Task 3 - Utility Coord.			Task 5 - Roadway Plans			Task 7 - Quantity Calculations			Task 8 - Specs. & Special Provisions		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Business Unit Leader	90.00	0.0																	
Engineering Chief - 4	90.00	132.0	3.84%	3.46															
Engineering Operations Sr. Manager	90.00	0.0																	
Engineering Director - 3	90.00	0.0																	
Senior Project Manager - 4	86.39	428.0	12.46%	10.76							120	9.98%	8.62						
Assistant Project Manager - 1	68.10	0.0																	
Senior Project Engineer - 6	85.42	786.0	22.88%	19.55	8	36.36%	31.06	4	33.33%	28.47	220	18.29%	15.62	30	25.00%	21.35	12	50.00%	42.71
Project Engineer - 5	66.78	183.0	5.33%	3.56							183	15.21%	10.16						
Senior Design Engineer - 4	64.83	4.0	0.12%	0.08															
Design Engineer - 3	53.87	802.0	23.35%	12.58							200	16.63%	8.96	30	25.00%	13.47			
Design Engineer - 2	49.83	366.0	10.66%	5.31	14	63.64%	31.71	8	66.67%	33.22	240	19.95%	9.94	30	25.00%	12.46	12	50.00%	24.92
Design Engineer - 1	43.12	734.0	21.37%	9.21							240	19.95%	8.60	30	25.00%	10.78			
Construction Engineer - 4	62.85	0.0																	
Construction Engineer - 3	57.77	0.0																	
Administrative Coordinator	47.94	0.0																	
Engineering Co-op	23.52	0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
<b>TOTALS</b>		3435.0	100%	\$64.50	22.0	100.00%	\$62.77	12.0	100%	\$61.69	1203.0	100%	\$61.90	120.0	100%	\$58.06	24.0	100%	\$67.63

**Local Public Agency**

McHenry County DOT

**Consultant / Subconsultant Name**

Peralte-Clark, LLC

**County**

McHenry County

**Section Number**

18-00491-00-ES

**Job Number**

**AVERAGE HOURLY PROJECT RATES**

**EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET**

**SHEET 2 OF 3**

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Task 10 - PS&E Submittals			Task 11 - Permitting & Env. Coord.			Task 12 - Phase III Activities			Task 13 - Meetings & Coord.			Task 14 - Project Admin. & Mgmt.			Task 15 - QA/QC		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Business Unit Leader	90.00																		
Engineering Chief - 4	90.00																132	100.00%	90.00
Engineering Operations Sr. M	90.00																		
Engineering Director - 3	90.00																		
Senior Project Manager - 4	86.39	4	16.67%	14.40	16	6.90%	5.96							148	100.00%	86.39			
Assistant Project Manager - 1	68.10																		
Senior Project Engineer - 6	85.42	4	16.67%	14.24	80	34.48%	29.45	6	33.33%	28.47	46	50.00%	42.71						
Project Engineer - 5	66.78																		
Senior Design Engineer - 4	64.83	4	16.67%	10.81															
Design Engineer - 3	53.87	4	16.67%	8.98	100	43.10%	23.22												
Design Engineer - 2	49.83	4	16.67%	8.31				12	66.67%	33.22	46	50.00%	24.92						
Design Engineer - 1	43.12	4	16.67%	7.19	36	15.52%	6.69												
Construction Engineer - 4	62.85																		
Construction Engineer - 3	57.77																		
Administrative Coordinator	47.94																		
Engineering Co-op	23.52																		
<b>TOTALS</b>		24.0	100%	\$63.91	232.0	100%	\$65.32	18.0	100%	\$61.69	92.0	100%	\$67.63	148.0	100%	\$86.39	132.0	100%	\$90.00

**Local Public Agency**

McHenry County DOT

**Consultant / Subconsultant Name**

Peralte-Clark, LLC

**County**

McHenry County

**Section Number**

18-00491-00-ES

**Job Number**

**AVERAGE HOURLY PROJECT RATES**

**EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET**

SHEET  3  OF  3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Task 17-03 - Drainage Concept Eval.			Task 17-10 - Phase II Readiness Doc.														
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
Business Unit Leader	90.00																		
Engineering Chief - 4	90.00																		
Engineering Operations Sr. M	90.00																		
Engineering Director - 3	90.00																		
Senior Project Manager - 4	86.39	80	10.05%	8.68	60	9.80%	8.47												
Assistant Project Manager - 1	68.10																		
Senior Project Engineer - 6	85.42	212	26.63%	22.75	164	26.80%	22.89												
Project Engineer - 5	66.78																		
Senior Design Engineer - 4	64.83																		
Design Engineer - 3	53.87	280	35.18%	18.95	188	30.72%	16.55												
Design Engineer - 2	49.83																		
Design Engineer - 1	43.12	224	28.14%	12.14	200	32.68%	14.09												
Construction Engineer - 4	62.85																		
Construction Engineer - 3	57.77																		
Administrative Coordinator	47.94																		
Engineering Co-op	23.52																		
<b>TOTALS</b>		796.0	100%	\$62.52	612.0	100%	\$62.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

<b>Local Public Agency</b> County of McHenry	<b>County</b> McHenry	<b>Section Number</b> 18-00491-00-ES
<b>Prime Consultant (Firm) Name</b> CMT	<b>Prepared By</b> Dan Woessner	<b>Date</b> 3/2/2026
<b>Consultant / Subconsultant Name</b> American Surveying & Engineering, Ltd.	<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>	24	MONTHS	<b>OVERHEAD RATE</b>	183.30%
<b>START DATE</b>	4/1/2026		<b>COMPLEXITY FACTOR</b>	
<b>RAISE DATE</b>	1/1/2027		<b>% OF RAISE</b>	3.00%
<b>END DATE</b>	3/31/2028			

### ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	4/1/2026	1/1/2027	9	37.50%
1	1/2/2027	1/1/2028	12	51.50%
2	1/2/2028	4/1/2028	3	13.26%

---

**The total escalation = 2.26%**

<b>Local Public Agency</b>	<b>County</b>	<b>Section Number</b>
County of McHenry	McHenry	18-00491-00-ES
<b>Consultant / Subconsultant Name</b>		<b>Job Number</b>
American Surveying & Engineering, Ltd.		

**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>2.26%</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>
PRINCIPAL IN CHARGE	\$90.00	\$90.00
PROJECT MANAGER	\$87.80	\$89.79
PROJECT SURVEYOR/ENGINEER 4	\$87.67	\$89.65
PROJECT SURVEYOR/ENGINEER 3	\$72.64	\$74.28
PROJECT SURVEYOR/ENGINEER 2	\$53.85	\$55.07
PROJECT SURVEYOR/ENGINEER 1	\$42.05	\$43.00
CADD TECHNICIANS	\$48.53	\$49.63
ENGINEERING/SURVEY TECHNICIAN 4	\$70.17	\$71.76
ENGINEERING/SURVEY TECHNICIAN 3	\$45.44	\$46.47
ENGINEERING/SURVEY TECHNICIAN 2	\$33.58	\$34.34
ENGINEERING/SURVEY TECHNICIAN 1	\$24.71	\$25.27
RIGHT-OF-WAY SPECIALIST 4	\$64.82	\$66.29
RIGHT-OF-WAY SPECIALIST 3	\$50.00	\$51.13
RIGHT-OF-WAY SPECIALIST 2	\$37.82	\$38.68
RIGHT-OF-WAY SPECIALIST 1	\$23.95	\$24.49
SUBSURFACE UTILITY ENGINEER 4	\$54.34	\$55.57
SUBSURFACE UTILITY ENGINEER 3	\$48.02	\$49.11
SUBSURFACE UTILITY ENGINEER 2	\$34.43	\$35.21
SUBSURFACE UTILITY ENGINEER 1	\$25.97	\$26.56
ADMINISTRATIVE/CLERICAL 3	\$36.00	\$36.81
ADMINISTRATIVE/CLERICAL 2	\$26.60	\$27.20

**Local Public Agency**

County of McHenry

**County**

McHenry

**Section Number**

18-00491-00-ES

**Consultant / Subconsultant Name**

American Surveying & Engineering, Ltd.

**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			\$0.00
Vehicle Owned or Leased (no mileage charge allowed)	\$45.00/half day (4 hours or less) or \$90/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)	10	\$1,760.00	\$17,600.00
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
				\$0.00
				\$0.00
				\$0.00

**TOTAL DIRECT COSTS: \$17,600.00**

**Local Public Agency**

County of McHenry

**County**

McHenry

**Section Number**

18-00491-00-ES

**Consultant / Subconsultant Name**

American Surveying & Engineering, Ltd.

**Job Number**

**COST ESTIMATE WORKSHEET**

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE **183.30%**

COMPLEXITY FACTOR **0**

TASK	DIRECT COSTS (not included in row totals)	MANHOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
1.0 Administration		20	1,504	2,756	496		4,756	4.95%
2.0 Data Compilation		6	398	730	131		1,259	1.31%
3.0 Horizontal & Vertical Control		20	897	1,644	296		2,837	2.95%
4.0 Subsurface Utility Engineering	17,600	366	15,480	28,375	5,108		66,563	69.27%
5.0 Utility Company Coordination		58	3,027	5,548	999		9,574	9.96%
6.0 Conflict Analysis		32	1,714	3,142	566		5,422	5.64%
7.0 QA/QC		20	1,796	3,292	593		5,681	5.91%
8			-	-	-		-	0.00%
9			-	-	-		-	0.00%
10			-	-	-		-	0.00%
11			-	-	-		-	0.00%
12			-	-	-		-	0.00%
13			-	-	-		-	0.00%
14			-	-	-		-	0.00%
15			-	-	-		-	0.00%
16			-	-	-		-	0.00%
17			-	-	-		-	0.00%
18			-	-	-		-	0.00%
19			-	-	-		-	0.00%
20			-	-	-		-	0.00%
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
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			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
<b>Subconsultant DL</b>					0.00			
<b>TOTALS</b>	17,600	522	24,816	45,487	8,189	-	96,092	100.00%

**Local Public Agency**

County of McHenry

**County**

McHenry

**Section Number**

18-00491-00-ES

**Consultant / Subconsultant Name**

American Surveying & Engineering, Ltd.

**Job Number**

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

SHEET 1 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			1.0 Administration			2.0 Data Compilation			3.0 Horizontal & Vertical Control			4.0 Subsurface Utility Engineering			5.0 Utility Company Coordination		
		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 IN CHARGE	90.00	0.0			0			0			0			0			0		
PROJECT MANAGER	89.79	43.0	8.24%	7.40	6	30.00%	26.94	3	50.00%	44.89	0			8	2.19%	1.96	2	3.45%	3.10
PROJECT SURVEYOR/ENGINEER 4	89.65	10.0	1.92%	1.72	0			0			0			10	2.73%	2.45	0		
PROJECT SURVEYOR/ENGINEER 3	74.28	36.0	6.90%	5.12	12	60.00%	44.57	0			0			18	4.92%	3.65	6	10.34%	7.68
PROJECT SURVEYOR/ENGINEER 2	55.07	0.0			0			0			0			0			0		
PROJECT SURVEYOR/ENGINEER 1	43.00	67.0	12.84%	5.52	0			3	50.00%	21.50	0			18	4.92%	2.11	30	51.72%	22.24
CADD TECHNICIANS	49.63	0.0			0			0			0			0			0		
ENGINEERING/SURVEY TECHNICIAN 4	71.76	0.0			0			0			0			0			0		
ENGINEERING/SURVEY TECHNICIAN 3	46.47	0.0			0			0			0			0			0		
ENGINEERING/SURVEY TECHNICIAN 2	34.34	0.0			0			0			0			0			0		
ENGINEERING/SURVEY TECHNICIAN 1	25.27	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIST 4	66.29	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIST 3	51.13	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIST 2	38.68	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIST 1	24.49	0.0			0			0			0			0			0		
SUBSURFACE UTILITY ENGINEER 4	55.57	48.0	9.20%	5.11	0			0			4	20.00%	11.11	12	3.28%	1.82	20	34.48%	19.16
SUBSURFACE UTILITY ENGINEER 3	49.11	108.0	20.69%	10.16	0			0			8	40.00%	19.64	100	27.32%	13.42	0		
SUBSURFACE UTILITY ENGINEER 2	35.21	108.0	20.69%	7.28	0			0			8	40.00%	14.08	100	27.32%	9.62	0		
SUBSURFACE UTILITY ENGINEER 1	26.56	100.0	19.16%	5.09	0			0			0			100	27.32%	7.26	0		
ADMINISTRATIVE/CLERICAL 3	36.81	2.0	0.38%	0.14	2	10.00%	3.68	0			0			0			0		
ADMINISTRATIVE/CLERICAL 2	27.20	0.0			0			0			0			0			0		
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
<b>TOTALS</b>		522.0	100%	\$47.54	20.0	100.00%	\$75.19	6.0	100%	\$66.39	20.0	100%	\$44.84	366.0	100%	\$42.29	58.0	100%	\$52.18

**Local Public Agency**

County of McHenry

**County**

McHenry

**Section Number**

18-00491-00-ES

**Consultant / Subconsultant Name**

American Surveying & Engineering, Ltd.

**Job Number**

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

SHEET  2  OF  2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	6.0 Conflict Analysis			7.0 QA/QC			8			9			10			11		
		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 IN CHARGE	90.00	0			0			0			0			0			0		
PROJECT MANAGER	89.79	4	12.50%	11.22	20	100.00%	89.79	0			0			0			0		
PROJECT SURVEYOR/ENGINEER 4	89.65	0			0			0			0			0			0		
PROJECT SURVEYOR/ENGINEER 3	74.28	0			0			0			0			0			0		
PROJECT SURVEYOR/ENGINEER 2	55.07	0			0			0			0			0			0		
PROJECT SURVEYOR/ENGINEER 1	43.00	16	50.00%	21.50	0			0			0			0			0		
CADD TECHNICIANS	49.63	0			0			0			0			0			0		
ENGINEERING/SURVEY TECHNICIAN 4	71.76	0			0			0			0			0			0		
ENGINEERING/SURVEY TECHNICIAN 3	46.47	0			0			0			0			0			0		
ENGINEERING/SURVEY TECHNICIAN 2	34.34	0			0			0			0			0			0		
ENGINEERING/SURVEY TECHNICIAN 1	25.27	0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIST 4	66.29	0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIST 3	51.13	0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIST 2	38.68	0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIST 1	24.49	0			0			0			0			0			0		
SUBSURFACE UTILITY ENGINEER 4	55.57	12	37.50%	20.84	0			0			0			0			0		
SUBSURFACE UTILITY ENGINEER 3	49.11	0			0			0			0			0			0		
SUBSURFACE UTILITY ENGINEER 2	35.21	0			0			0			0			0			0		
SUBSURFACE UTILITY ENGINEER 1	26.56	0			0			0			0			0			0		
ADMINISTRATIVE/CLERICAL 3	36.81	0			0			0			0			0			0		
ADMINISTRATIVE/CLERICAL 2	27.20	0			0			0			0			0			0		
<b>TOTALS</b>		32.0	100%	\$53.56	20.0	100%	\$89.79	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

# Scope of Work



## PROJECT SUMMARY

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Project Name: Phase II Engineering for Lakewood Road Corridor Project ASE Proposal No.: 225109

Owner: McHenry County Division of Transportation

Date: January 14, 2026

Agent: CMT

Revision Date: **January 21, 2026**

**March 2, 2026**

Project Description – ASE will provide utility coordination, conflict analysis, and Subsurface Utility Engineering Services for the Phase II Engineering for the construction of a multi-use path along both the east and west sides of Lakewood Road, widening of the road to provide median refuge islands at multiple intersections, construction of two new pedestrian structures over the Kishwaukee Creek just north of Miller Road intersection, and the construction of a roundabout at Lakewood Road and Miller Road Intersection.

For utility coordination, ASE notes the following aspects of the project.

- A. Conduct Design JULIE and collect Atlas (Level D) utility Data.
- B. Coordinate with Roadway Designers.
- C. Prepare Utility Conflict Matrix via designer coordination.
- D. Submit proposed roadway plans, by others, depicting the existing utility data to each utility entity involved.
- E. Solicit Utility company plan markups / responses.
- F. Address Utility company comments / revise existing utility plans if required.

For Subsurface Utility Engineering (SUE) notes the following aspects of the project.

- A. This proposal assumes 10 SUE Quality Level A Test Holes to be performed at locations directed by CMT and the County. We assume the test holes will not be in pavement. Each test hole will require 500 linear feet of SUE Quality Level B designating to confirm horizontal location of utility before exposure. A full SUE Quality Level B study of the project limits will not be performed.

Project Location – Lakewood Road, Lake in the Hills.

Project Limits – The Project Limits are Lakewood Road from Algonquin Road to Ackman Road. Those limits are shown in blue in the exhibit below. ASE’s SUE Study’s will be within the proposed right-of-way and temporary easements of Lakewood Road and the cross streets.



## GENERAL CONDITIONS AND SCOPE ASSUMPTIONS

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1. All previous and relevant survey information, such as Preliminary Surveys and construction plans, if available, will be provided to ASE at no cost prior to starting the work.
2. Subsurface Utility Engineering (SUE) standards referred to within this scope of work are in accordance with the CI/ASCE 38-22 Standard Guideline for Investigating and Documenting Existing Utilities.
3. American Surveying & Engineering shall not be responsible for any erroneous or missing information provided by underground utility providers.
4. Owner/Agent will provide a Letter of Introduction to facilitate field operations.
5. Hazardous Waste sites designated as requiring protective equipment of "Class D" or greater will not be entered unless provided for otherwise in the Scope of Work Tasks. ASE does not engage in the cleanup, handling, or disposal of biological waste, regulated medical waste, or sharps.
6. American Surveying & Engineering is not signatory to any organized labor agreements. We will not provide services in any capacity where labor disputes may exist. We will not be responsible for costs or delays associated with labor disputes relevant to work on this project.
7. Field work performed on this project is subject to the vagaries of weather. In the event weather impairs our ability to perform any specified professional services, we will contact the Owner/Agent to determine changes in schedule or cost. No additional work will be performed until the Owner/Agent has reviewed and approved a revised cost or schedule.
8. Manholes or other confined spaces (as defined by OSHA) will not be entered or cleaned. Invert elevation, pipe size/type were obtained from surface level and should be used as a check on plan information only. For design purposes field verification by below grade examination (SUE) should be performed.
9. This proposal assumes the flowlines of project drainage structures (culverts, manholes, inlets, etc.) will be surveyed as existing conditions by others. ASE will not clean, excavate, pump or otherwise remove debris, silt, trash or other material from project structures.
10. A no-cost Facility Installation Permit is required from MCDOT for work in ROW.
11. This proposal is based on 10 SUE Quality Level A test holes will be necessary, with zero of them being in the pavement.
12. A full SUE Quality Level B study of the project limits will not be performed.
13. ASE will commence work within 10 days of the Notice to Proceed.
14. This SOW shall become part of the contract between Owner/Agent and ASE.

## SCHEDULE

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1. This proposal assumes the contract will be executed within 6 months of the proposal date of March 3, 2026. If the contract is not approved, ASE reserves the right to adjust the proposed rates and fees to current rates before entering into a contract and beginning work.

## PROPOSED TASKS

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1. Administration

- 1.1. Meetings with Owner or Agent, including in-house meetings. Progress Reports, scheduling, invoicing and other project administrative tasks.
- 1.2. Technical direction of staff
- 1.3. Project Management, resource coordination.
  
2. Document Compilation
  - 2.1. Obtain relevant project documents from Owner/Agent and Courthouse.
  - 2.2. Compile, review and index information.
  - 2.3. Prepare compiled information for field and office tasks.
  
3. Horizontal and Vertical Control. Horizontal Control will use NAD 83 IL East Zone State Plane Coordinates – Vertical Control will be GPS derived NAVD88 values.
  - 3.1. Search and reconnaissance for record control points. Recover and verify previous control points.
  - 3.2. Traverse/GPS/level through found monuments to establish primary control.
  - 3.3. Office calculations, adjustment, tabulations of coordinates.
  
4. Subsurface Utility Engineering
  - 4.1. SUE Quality Level D
    - 4.1.1. Research and review existing utility information.
    - 4.1.2. Request Atlas information from One-Call system (JULIE). It is typically 30 days to receive all Atlases.
  - 4.2. SUE Quality Level C – **This task performed by others.**
    - 4.2.1. This task, when required, consists of the data acquisition of Sanitary Sewer, Storm Sewer, and other utility structures in order to develop surface and utility pipe locations & elevations
    - 4.2.2. A structure data sheet detailing the structure type and information will be recorded in the field and provided to the client.  
Structures that are locked, blocked, or full of debris will prevent data acquisition. Manholes or vaults filled with water will not be pumped.
    - 4.2.3. Designated SUE Quality Level C utilities are drawn up in a coordinate correct CADD model file environment for distribution to the client.
  - 4.3. SUE Quality Level A Test Holes
    - 4.3.1. Obtain Dig tickets as required for SUE Quality Level A Test Holes.
    - 4.3.2. Perform SUE Quality Level B in support of SUE Quality Level A test holes. Assume 500 feet per hole.
    - 4.3.3. Perform Hydro or Air vac excavation to expose specified utilities for accurate depiction of the utility location and subsequent backfill with excavation spoils or sand (billed as direct unit cost).
    - 4.3.4. Obtain X, Y, Z coordinates of top of utility locations and ground elevation.
    - 4.3.5. Provide a Test Hole Data Sheet for each Quality Level A Test Hole.
  
5. Utility Company Coordination
  - 5.1. ASE will submit the existing utility plan sheets prepared by others to the various utility

companies found in the project area.

5.2. ASE will solicit Utility company input on the plans submitted.

6. Conflict Analysis

6.1. Proposed Improvement will be reviewed with respect to the existing utilities found to exist.

6.2. A Conflict Analysis Matrix will be prepared. The Matrix will identify potential conflicts of the proposed design with respect to the existing utilities.

6.3. Exhibits depicting the potential conflicts will be prepared to accompany the Conflict Matrix.

6.4. The Conflict Matrix and Exhibits will be updated at the conclusion of the design process to represent those potential conflicts and design considerations needed for the Phase II designer to consider.

7. QA/QC

7.1. Review contract documents and survey requirements to verify ASE project QA/QC requirements. Create project-specific QA/QC plan.

7.2. Periodic project review to ensure compliance with policy and contract documents.

## DELIVERABLES

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- Once SUE Level A is completed, a geo-referenced .dwg CAD file in IL State Plane Coordinates containing the existing underground utilities and depth information where excavations were performed.
- PDF of any field drawings illustrating location of vacuum excavations, including any field notes.
- Raw survey data (.CVS file of all points)
- Survey field book (PDF)

## DIRECT COST ITEMS

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- A. Traffic control – assume \$1,760 per day – Assume 10 days.

## ITEMS SUPPLIED BY OTHERS

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- A. Record plans, including any previous survey information (if available).
- B. Any pertinent site information including, but not limited to, previous horizontal and vertical survey control survey information, boundary surveys, existing aerial photography, Right-of-Way plans, centerline alignment, construction plans and plats of highway will be furnished to ASE, at no cost to ASE, prior to commencement of field operations.
- C. Permission and access to closed or locked areas requiring access to complete the survey.
- D. Letter of Introduction and written authorization for access to subject property for ASE's services on subject site.



<b>Local Public Agency</b> McHenry County DOT	<b>County</b> McHenry	<b>Section Number</b> 18-00491-00-ES
<b>Prime Consultant (Firm) Name</b> CMT, Inc	<b>Prepared By</b> Melissa Kupczyk	<b>Date</b> 2/2/2026
<b>Consultant / Subconsultant Name</b> Fehr Graham Engineering & Environmental	<b>Job Number</b> N/A	

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>	20	MONTHS	<b>OVERHEAD RATE</b>	128.35%
<b>START DATE</b>	3/2/2026		<b>COMPLEXITY FACTOR</b>	0
<b>RAISE DATE</b>	1/1/2027		<b>% OF RAISE</b>	3.00%
<b>END DATE</b>	11/1/2027			

### ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	3/2/2026	1/1/2027	10	50.00%
1	1/2/2027	11/1/2027	10	51.50%

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**The total escalation = 1.50%**

**Local Public Agency**

**County**

**Section Number**

McHenry County DOT

McHenry

18-00491-00-ES

**Consultant / Subconsultant Name**

**Job Number**

Fehr Graham Engineering & Environmental

N/A

**PAYROLL RATES**

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

MAXIMUM PAYROLL RATE	90.00
ESCALATION FACTOR	1.50%

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

CLASSIFICATION	IDOT AVG PAYROLL RATES ON FILE	CALCULATED RATE
Senior Project Manager	\$71.52	\$72.59
Project Manager	\$59.64	\$60.53
EHS Scientist	\$42.55	\$43.19
Engineer	\$35.90	\$36.44
Project Administrator	\$32.76	\$33.25
Engineering Technician	\$28.24	\$28.66



## Local Public Agency

McHenry County DOT

## County

McHenry

## Section Number

18-00491-00-ES

## Consultant / Subconsultant Name

Fehr Graham Engineering &amp; Environmental

## Job Number

N/A

## 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			\$0.00
Vehicle Owned or Leased (no mileage charge allowed)	\$45.00/half day (4 hours or less) or \$90/full day	4	\$90.00	\$360.00
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)	8	\$15.00	\$120.00
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)	2	\$1,978.00	\$3,956.00
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)	35	\$467.00	\$16,345.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)	1	\$827.00	\$827.00
Environmental Database Report	Actual Cost	1	\$362.00	\$362.00
Environmental Driller	Actual Cost	2	\$3,737.00	\$7,474.00
				\$0.00
<b>TOTAL DIRECT COSTS:</b>				<b>\$29,444.00</b>



**Local Public Agency**

McHenry County DOT

**County**

McHenry

**Section Number**

18-00491-00-ES

**Consultant / Subconsultant Name**

Fehr Graham Engineering & Environmental

**Job Number**

N/A

**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			PSI - Field			PSI - Reporting			PESA Update			Project Admin/Mngmt					
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Senior Project Manager	72.59	1.0	0.80%	0.58									1	28.57%	20.74				
Project Manager	60.53	22.5	18.07%	10.94	1	3.45%	2.09	12	22.43%	13.58	7	18.18%	11.01	2.5	71.43%	43.24			
EHS Scientist	43.19	82.5	66.27%	28.62	22	75.86%	32.76	35	65.42%	28.25	25.5	66.23%	28.61						
Engineer	36.44	5.0	4.02%	1.46	5	17.24%	6.28												
Project Administrator	33.25	6.5	5.22%	1.74	1	3.45%	1.15	2.5	4.67%	1.55	3	7.79%	2.59						
Engineering Technician	28.66	7.0	5.62%	1.61				4	7.48%	2.14	3	7.79%	2.23						
		0.0																	
		0.0																	
		0.0																	
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<b>TOTALS</b>		124.5	100%	\$44.95	29.0	100.00%	\$42.28	53.5	100%	\$45.53	38.5	100%	\$44.44	3.5	100%	\$63.98	0.0	0%	\$0.00

March 5, 2026

Charles "Tice" Cole, PE  
Crawford, Murphy & Tilly, Inc. (CMT)  
550 North Commons Drive, Suite 116  
Aurora, Illinois 60504

**RE: Phase II Environmental Services  
McHenry County Lakewood Rd 3R  
Lakewood Road Multi-Use Path  
Lake in the Hills, Illinois**

Dear Tice,

Fehr Graham is pleased to provide this proposal for environmental services, including a Preliminary Environmental Site Assessment (PESA) Update and a Preliminary Site Investigation (PSI) for the project in Lake in the Hills, McHenry County, Illinois. Fehr Graham understands this project involves roadway modifications, culvert replacement, and the development of pedestrian and bicycle accommodations. The attached location map defines the Project Area. The following scope of work is proposed:

## **SCOPE OF SERVICES**

### **Updated Preliminary Environmental Site Assessment (PESA)**

PESA aims to identify, to the extent feasible, Recognized Environmental Conditions (RECs) in connection with the properties abutting the project area. A PESA was completed by HDR on January 8, 2021. As such, a PESA update is necessary to establish if site conditions have changed. The PESA update will be conducted as a reasonable and prudent investigation of the Project Area and adjacent properties to provide the client with the information necessary to base decisions concerning the environmental conditions along the right-of-way and adjacent sites within the proposed Project Area. Although the PESA follows many of the same principles and methodologies of an ASTM E1527-21 Phase I Environmental Site Assessment, it is not designed to fulfill the All-Appropriate Inquiry requirements of the Small Business Liability Relief and Revitalization Act (SBLRRA), a 2001 amendment to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The PESA, in relation to highway projects, is utilized to identify environmental risks to protect human life, health, and liability and reduce unexpected delays and construction considerations. The scope of work items that will be included in this assessment are as follows:

- » Identify the "sites" contained within the Project Area. For simpler reporting, these sites may be combined with adjoining, similar-use properties.
- » Conduct site reconnaissance to observe and evaluate exterior areas of the Subject Property. Observe surrounding properties from public right-of-way areas.
- » Evaluate physical setting sources (site geology and hydrology) to assess the impact of potential contaminant migration as related to RECs at the Property and surrounding sites.
- » Evaluate natural features and hazards that may encumber the project.
- » Review readily available historical data sources to develop a history of the previous use(s) of the Property and surrounding sites in an attempt to identify the likelihood of past uses having led to

RECs. Historical data sources include historical aerial images, available Sanborn Fire Insurance maps, and historical topographic maps.

- » Review the ASTM E1527-21 Standard Environmental Record Sources available through a database record search to identify RECs connected with the Project Area and the general vicinity. Record requests to local, state, and federal regulators are not included in the scope of the PESA, unless deemed necessary by the Environmental Professional conducting the assessment.
- » Fehr Graham will prepare a PESA report that documents RECs and other environmental concerns that may impact the Project Area.

### **PRELIMINARY SITE INVESTIGATION (PSI)**

The purpose of the PSI is to verify and investigate RECs identified in the PESA and pre-determine the appropriate handling and disposal of materials generated during right-of-way construction activities. Per the PESA completed by HDR on January 8, 2021, one (1) REC was identified in connection with the Project Area.

- » 7-Eleven/Mobil Gas Station (4500 Algonquin Road) – two (2) in-use gasoline Underground Storage Tanks (USTs) on the site.

Additionally, the following adjacent sites were identified in Fehr Graham’s review of the PESA documentation.

- » Commercial Buildings (9401 and 9441-9531 Ackman Road) – historic drycleaner on the site.
- » 4570 Algonquin Road – historic drycleaner on the site.

Based on the current Project Area, identified RECs, as well as soil management considerations, a preliminary scope of work has been prepared for the PSI.

- » Prior to any intrusive activity, a public utility clearance will be requested to identify subsurface utilities in public right-of-ways (ROWs).
- » Direct-push drilling at up to 30 soil boring locations, up to 10 feet below ground surface (bgs) to evaluate PESA sites and determine if soil meets the acceptance criteria for off-site disposal at a Clean Construction or Demolition Debris (CCDD) facility or Uncontaminated Soil Fill Operation (USFO) .
- » One (1) soil sample will be collected from each direct-push boring. Prior to collection, drilling-derived soils will be described and logged by Fehr Graham staff. Soils will also be screened with a photoionization detector (PID) to screen for volatile contaminant impacts in 1-foot intervals. The sample depth interval will be selected based on the following screening priority:
  - 1) Depth of highest PID screening result, or
  - 2) Observed visual/olfactory evidence (staining and/or odor) of contamination, or
  - 3) Directly above the observed groundwater interface, or
  - 4) From a representative depth if groundwater is not encountered.

Coarse aggregate fill will not be sampled for laboratory analysis.

- » To determine if soil contamination exists and to what magnitude, soil samples will be sent to a certified laboratory for analysis based on site history and documented operation. All samples will be analyzed for the following parameters:
  - ♦ Volatile Organic Compounds (VOCs) – *evaluated only in the four (4) samples collected adjacent to REC sites.*
  - ♦ Polynuclear Aromatic Hydrocarbons (PNAs)
  - ♦ Resource Conservation and Recovery Act (RCRA) 8 Metals
  - ♦ Soil pH
- » If groundwater is encountered, up to two (2) soil borings will be converted to temporary monitoring wells by lowering 1-inch Schedule 40 PVC well screen and riser pipe into the borings. A single groundwater sample from each well will be collected using a peristaltic pump, disposable tubing, and/or a disposable bailer.
- » To determine if groundwater contamination exists and to what magnitude, the groundwater sample will be sent to a certified laboratory for analysis of the following parameters:
  - ♦ VOCs
  - ♦ Polynuclear Aromatic Hydrocarbons (PNAs)
  - ♦ RCRA Metals
- » Soil and groundwater analytical results will be compared and tabulated with the Maximum Allowable Concentrations (MAC) set forth in 35 IAC 1100, Subpart F, and the Illinois Environmental Protection Agency Tiered Approach to Corrective Action Objectives (TACO) Tier 1 Residential Soil Remediation Objectives and Class I Groundwater Remediation Objectives per 35 IAC Part 742.
- » Fehr Graham will prepare a PSI report with field investigation results, analytical tabulation, and recommendations and conclusions for soil and groundwater handling and disposal during proposed construction activities. In addition, an LPC 663 form and certification will be provided for soils that qualify for CCDD acceptances, as defined in 35 Ill. Adm. Code 1100. The report will include figures for soil boring locations and PESA Sites. Project drawings will be required from the Client in AutoCAD format to allow for the overlay of PSI-derived information.
- » Fehr Graham will prepare Project-Specific Regulated Substances Special Provisions to include with the bid documentation. Project stationing will be required from the Client to determine the locations of Regulated Substances within the Project Area.

## EXCLUSIONS

The following items are **not** included in the proposed PSI scope of work. If these services are desired, Fehr Graham will provide a separate proposal and agreement for additional services:

- » Evaluation of asbestos-containing building materials, biological agents, cultural and historic resources, ecological resources, endangered species, health and safety, indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment, industrial hygiene, lead-based paint, lead/nitrates in drinking water, mold, radon, regulatory compliance, and wetland delineation.

- » Phase I Environmental Site Assessment (ESA) in accordance with ASTM 1527-21.
- » Geotechnical evaluation.
- » On-site construction monitoring, inspection, or survey services.
- » Landscape restoration as a result of drilling and sampling activities. Soil borings will be abandoned with cuttings and bentonite. Surfaces will be patched with similar materials.
- » Utility repairs related to unmarked or undocumented subsurface utilities/conduits.
- » Additional soil borings/monitoring wells/sampling/laboratory analysis unrelated to the proposed scope of work described above.
- » Expedited laboratory analysis.
- » Subsurface geophysical scans.

## SCHEDULE

We will work diligently to complete the PESA Update within 30 days of authorization to proceed and the PSI within 40 days of completion of PESA update. The scheduling of PSI activities will be dependent on the availability of an environmental driller.

## FEES

The following fixed fees have been established for the scope of work described above:

Preliminary Environmental Site Assessment (PESA) Update	\$5,277.00
Preliminary Site Investigation (PSI) with Traffic Control	\$38,795.00
Total	\$44,072.00

Invoicing will be generated monthly based on the percentage of completion of each task.

We trust that the information we have provided meets your expectations. If you would like us to proceed, please contact us at your convenience, and we will forward the appropriate contract documents for your signature.

If you should have any questions, please do not hesitate to contact us at (630) 897-4651.

Sincerely,



Melissa Kupczyk  
Project Manager



Ali Graczyk  
Staff Environmental Scientist

MK:kk

Enclosures – Agreement for Professional Services, Lake in the Hills Location Map, BLR 05514



Client Charles "Tice" Cole, PE  
Crawford, Murphy & Tilly, Inc.  
550 North Commons Drive, Suite 116  
Aurora, Illinois 60504

Description of Services:

**Phase II Environmental Services**  
**McHenry County Lakewood Rd 3R**  
**Lakewood Road Multi-Use Path**  
**Lake in the Hills, Illinois**

Fehr Graham will complete the scope of services as outlined in the proposal dated February 4, 2026, included herein.

COST:

The fixed fee for performing the above services is \$44,072.

The attached General Conditions are incorporated into and made a part of this Agreement.

ACCEPTED AND AGREED TO:

I/we, the undersigned, authorize Fehr Graham to provide services as outlined above, and also agree that I/we are familiar with and **ACCEPT THE TERMS OF THE ATTACHED GENERAL CONDITIONS.**

CLIENT:		CONSULTANT:	
Signature	_____	By	_____
Name	_____	Name	Chris DeSilva, PE
Title	_____	Title	Business Unit Leader
Date Accepted	_____	Date Proposed	February 4, 2026
			405.0026227.000

## GENERAL CONDITIONS TO AGREEMENT FOR PROFESSIONAL SERVICES

1. The Client requests the professional services of Fehr Graham hereinafter called "The Consultant" as described herein.
2. The Consultant agrees to furnish and perform the professional service described in this Agreement in accordance with accepted professional standards. Consultant agrees to provide said services in a timely manner, provided, however, that Consultant shall not be responsible for delays in completing said services that cannot reasonably be foreseen on date hereof or for delays which are caused by factors beyond his control or delays resulting from the actions or inaction of any governmental agency. Consultant makes no warranty, expressed or implied, as to his findings, recommendations, plans and specifications or professional advice except that they were made or prepared in accordance with the generally accepted engineering practices.
3. It is agreed that the professional services described in the Agreement shall be performed for Client's account and that Client will be billed monthly for said services. A 1½% per month service charge will be incurred by Client for any payment due herein and not paid within 30 days of such billing which is equal to an ANNUAL PERCENTAGE RATE OF 18%. Partial payments will be first credited to the accrued service charges and then to the principal.
4. The Client and the Consultant each binds himself, his partners, successors, executors, and assigns to the other party to this Agreement and to the partners, successor, executors, and assigns of such other party in respect to this Agreement.
5. The Client shall be responsible for payment of all costs and expenses incurred by the Consultant for his account, including any such monies that the Consultant may advance for Client's account for purposes consistent with this Agreement.
6. The Consultant reserves the right to withdraw this Agreement if not accepted within 30 days.
7. A claim for lien will be filed within 75 days of the date of an invoice for services (last day of services rendered) unless the account is paid in full or other prior arrangements have been made. All attorney fees incurred by the Consultant due to the filing of said lien or the foreclosure thereof shall be borne by the Client.

In the event suit must be filed by Consultant for the collection of fees for services rendered, Client will pay all reasonable attorney's fees and court costs.

If Client defaults in payment of fees or costs due under the terms of this Agreement and Consultant incurs legal expenses as a result of such failure, Client shall be responsible for payment for Consultant's reasonable attorney fees and costs so incurred.

8. The Consultant shall present, for the consideration of the Client, engineering and technical alternatives, based upon its knowledge and experience in accordance with accepted professional standards, with selection of alternatives and final decisions as requested by the client to be the sole responsibility of the Client.
9. Construction Phase Activities (When applicable) - In connection with observations of the work of the Contractor(s) while it is in progress the Consultant shall make visits to the site at intervals appropriate to the various stages of construction as the Consultant deems necessary in Agreement to observe as an experienced and qualified design professional the progress and quality of the various aspects of the Contractor(s)'s work. Based on information obtained during such visits and on such observation, the Consultant shall endeavor to determine in general if such work is proceeding in accordance with the Contract Documents and the Consultant shall keep the Client informed of the progress of the work.  
  
The purpose of the Consultant's visits to the site will be to enable the Consultant to better carry out the duties and responsibilities assigned to and undertaken by the Consultant during the Construction Phase, and, in addition, by exercise of the Consultant's efforts as an experienced and qualified design professional, to provide for the Client a greater degree of confidence that the completed work of the Contractor(s) will conform generally to the Contract Documents and that the integrity of the design concept as reflected in the Contract Documents has been implemented and preserved by the Contractor(s). The Consultant shall not, during such visits or as a result of such observations of Contractor(s)' work in progress, supervise, direct or have control over Contractor(s)' work nor shall the Consultant have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected by Contractor(s), for safety precautions and programs incident to the work of Contractor(s) or for any failure of Contractor(s) to comply with laws, rules, regulations, ordinances, codes, or orders applicable to Contractors(s) furnishing and performing their work. Accordingly, the Consultant can neither guarantee the performance of the construction contracts by Contractor(s) nor assume responsibility for Contractor(s)' failure to furnish and perform their work in accordance with the Contract Documents.
10. Estimates of Fees – When fees are on a time and material basis the estimated costs required to complete the services to be performed are made on the basis of the Consultant's experience, qualifications, and professional judgment, but are not guaranteed. If the costs appear likely to exceed the estimate in excess of 20%, the Consultant will notify the Client before proceeding. If the Client does not object to the additional costs within seven (7) days of notification, the increased costs shall be deemed approved by the Client.
11. The Consultant is responsible for the safety on site of his own employees. This provision shall not be construed to relieve the Client or the Contractor(s) from their responsibility for maintaining a safe work site. Neither the professional services of the Consultant, nor the presence of his employees or subcontractors shall be construed to imply that the Consultant has any responsibility for any activities on site performed by personnel other than the Consultant's employees or subcontractors.
12. Original survey data, field notes, maps, computations, studies, reports, drawings, specifications and other documents generated by the Consultant are instruments of service and shall remain the property of the Consultant. The Consultant shall provide copies to the Client of all documents specified in the Description of Services.

Any documents generated by the Consultant are for the exclusive use of the Client and any use by third parties or use beyond the intended purpose of the document shall be at the sole risk of the Client. To the fullest extent permitted by law, the Client shall indemnify, defend and hold harmless the Consultant for any loss or damage arising out of the unauthorized use of such documents.

13. No claim may be asserted by either party against the other party unless an action on the claim is commenced within two (2) years after the date of the Consultant's final invoice to the Client.
14. If a Client's Purchase Order form or acknowledgment or similar form is issued to identify the agreement, authorize work, open accounts for invoicing, provide notices, or document change orders, the preprinted terms and condition of said Purchase Order shall be superseded by the terms hereof.
15. Standard of Care – Services performed by Consultant under this agreement will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. No other representation expressed or implied, and no warranty or guarantee is included or intended in any report, opinion or document under this agreement.
16. Liability Insurance – Consultant will maintain such liability insurance as is appropriate for the professional services rendered as described in this Agreement. Consultant shall provide Certificates of Insurance to Client, upon Client's request, in writing.
17. Indemnification and Limitation of Liability – Client and Consultant each agree to indemnify and hold the other harmless, including their respective officers, employees, agents, members, and representatives, from and against liability for all claims, costs, losses, damages and expense, including reasonable attorney's fees, to the extent such claims, losses, damages or expenses are caused by the indemnifying party's acts, errors or omissions.

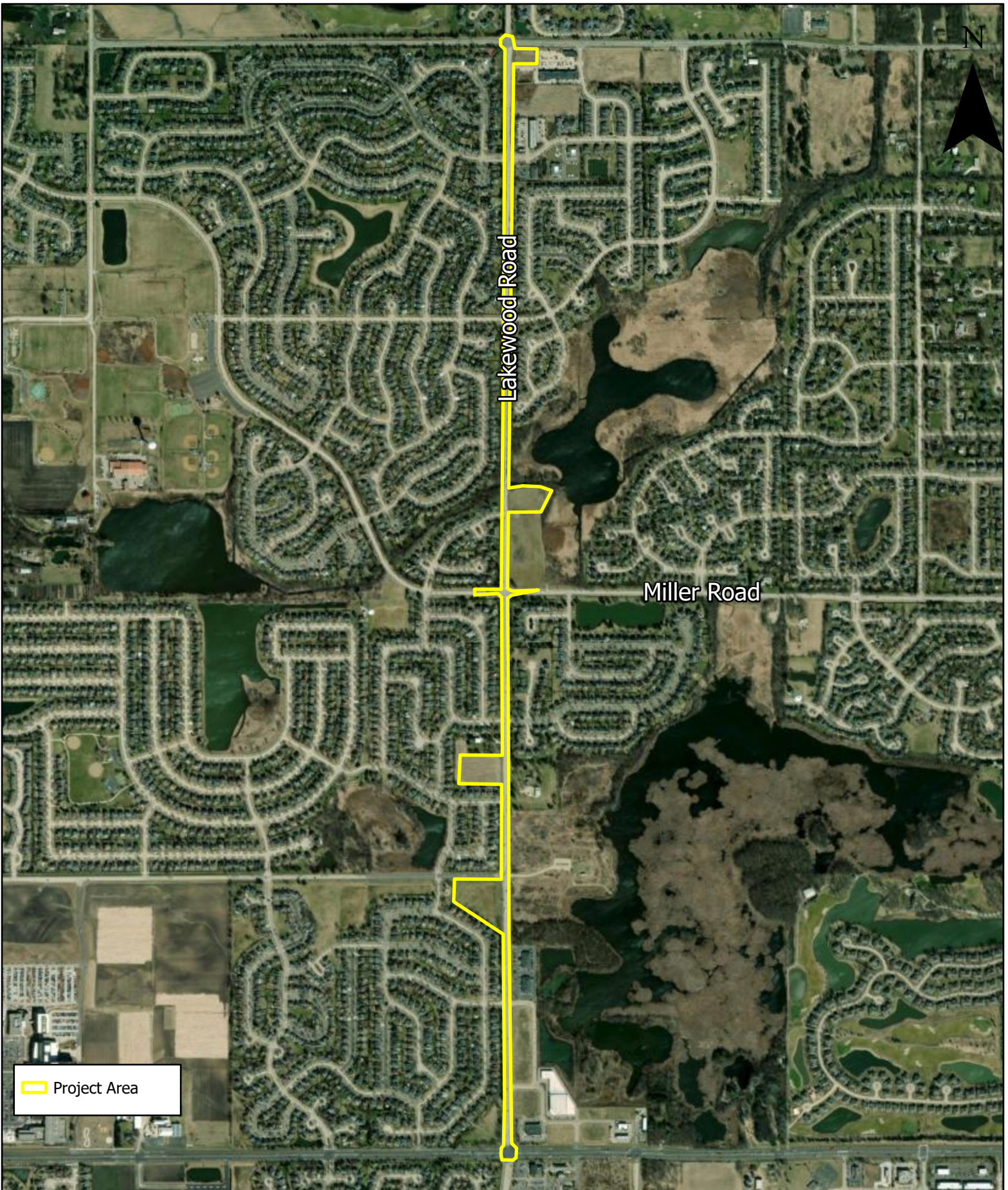
The Client understands that for the compensation herein provided Consultant cannot expose itself to liabilities disproportionate to the nature and scope hereunder. Therefore, the Client agrees to limit Consultant's liability to the Client arising from Consultant's professional acts, errors or omissions, such that the total aggregate liability of Consultant shall not exceed \$50,000 or Consultant's total fee for services rendered on this Project, whichever is less.

18. Allocation of Risk – Consultant and Client acknowledge that, prior to the start of this Agreement, Consultant has not generated, handled, stored, treated, transported, disposed of, or in any way whatsoever taken responsibility for any toxic substance or other material found, identified, or as yet unknown at the Project premises. Consultant and Client further acknowledge and understand that the evaluation, management, and other actions involving toxic or hazardous substances that may be undertaken as part of the Services to be performed by Consultant, including subsurface excavation or sampling, entails uncertainty and risk of injury or damage. Consultant and Client further acknowledge and understand that Consultant has not been retained to serve as an insurer of the safety of the Project to the Client, third parties, or the public.

Client acknowledges that the discovery of certain conditions and/or taking of preventative measures relative to these conditions may result in a reduction of the property's value. Accordingly, Client waives any claim against Consultant and agrees to indemnify, defend, and hold harmless Consultant and its subcontractors, consultants, agents, officers, directors, and employees from any claim or liability for injury or loss allegedly arising from procedures associated with environmental site assessment (ESA) activities or the discovery of actual or suspected hazardous materials or conditions. Client releases Consultant from any claim for damages resulting from or arising out of any pre-existing environmental conditions at the site where the work is being performed which was not directly or indirectly caused by and did not result from, in whole or in part, any act or omission of Consultant or subcontractor, their representatives, agents, employees, and invitees.

If, while performing the Services set forth in any Scope of Services, pollutants are discovered that pose unanticipated or extraordinary risks, it is hereby agreed that the Scope of Services, schedule, and costs will be reconsidered and that this Agreement shall immediately become subject to renegotiation or termination. Client further agrees that such discovery of unanticipated hazardous risks may require Consultant to take immediate measures to protect health and safety or report such discovery as may be required by law or regulation. Consultant shall promptly notify Client upon discovery of such risks. Client, however, hereby authorizes Consultant to take all measures Consultant believes necessary to protect Consultant and Client personnel and the public. Furthermore, Client agrees to compensate Consultant for any additional costs associated with such measures.

19. In the event of legal action to construe or enforce the provisions of this agreement, the prevailing party shall be entitled to collect reasonable attorney fees, court costs and related expenses from the losing party and the court having jurisdiction of the dispute shall be authorized to determine the amount of such fees, costs and expenses and enter judgment thereof.
20. Assignment - Neither party to this Agreement shall, without the prior written consent of the other party, which shall not be unreasonably withheld, assign the benefit or in any way transfer its obligations under this Agreement or any part hereof; provided, however, either Party may freely assign this Agreement to a parent, subsidiary or affiliate without the other party's consent. This Agreement shall inure to the benefit of and be binding upon the parties hereto, and except as otherwise provided herein, upon their executors, administrators, successors, and assigns.
21. Termination – The obligation to provide further services under this Agreement may be terminated by either party upon seven (7) days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party. In the event of any termination, Consultant will be paid for all services rendered to the date of receipt of written notice of termination, at Consultant's established chargeout rates, plus for all Reimbursable Expenses including a 15% markup.
22. Provision Severable – The unenforceability or invalidity of any provisions hereof shall not render any other provisions herein contained unenforceable or invalid.
23. Governing Law and Choice of Venue – Client and Consultant agree that this Agreement will be governed by, construed, and enforced in accordance with the laws of the State of Illinois. If there is a lawsuit, Client and Consultant agree that the dispute shall be submitted to the jurisdiction of the Illinois District Court in and for McHenry County, Illinois.



<b>Local Public Agency</b> McHenry County	<b>County</b> McHenry	<b>Section Number</b> 
<b>Prime Consultant (Firm) Name</b> Crawfor, Murphy & Tilly	<b>Prepared By</b> A. Tomaras	<b>Date</b> 3/3/2026
<b>Consultant / Subconsultant Name</b> Rubino Engineering, Inc.	<b>Job Number</b> Q26.013g_REV1	

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

**Remarks**

3 Structure Borings

### PAYROLL ESCALATION TABLE

<b>CONTRACT TERM</b>	24	MONTHS	<b>OVERHEAD RATE</b>	159.87%
<b>START DATE</b>	2/1/2026		<b>COMPLEXITY FACTOR</b>	0
<b>RAISE DATE</b>	3/1/2026		<b>% OF RAISE</b>	3.00%
<b>END DATE</b>	1/31/2028			

### ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	2/1/2026	3/1/2026	1	4.17%
1	3/2/2026	3/1/2027	12	51.50%
2	3/2/2027	2/1/2028	11	48.62%

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**The total escalation = 4.29%**





## Local Public Agency

McHenry County

## County

McHenry

## Section Number

## Consultant / Subconsultant Name

Rubino Engineering, Inc.

## Job Number

Q26.013g\_REV1

## 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			\$0.00
Vehicle Owned or Leased (no mileage charge allowed)	\$45.00/half day (4 hours or less) or \$90/full day	8	\$90.00	\$720.00
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	\$2,200.00	\$2,200.00
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)	1	\$1,317.21	\$1,317.21
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Drill Rig Mobilization	In house direct cost	2	\$550.00	\$1,100.00
Drilling (Hourly)	In house direct cost	16	\$410.00	\$6,560.00
Drilling (Overtime)	In house direct cost	4	\$483.00	\$1,932.00
<b>TOTAL DIRECT COSTS:</b>				<b>\$13,829.21</b>

<b>Lab Testing</b>	<b>Quantity</b>	<b>Rate</b>	<b>Total</b>
Moisture Content	48	\$ 8.90	\$ 427.20
Atterberg Limits	3	\$ 89.00	\$ 267.00
Hydrometer	3	\$ 178.00	\$ 534.00
Unconfined Compression Testing		\$ 95.00	\$ -
Organic Content	3	\$ 29.67	\$ 89.01
Consolidation Testing		\$ 960.00	\$ -
pH Testing		\$ 22.25	\$ -
Triaxial Testing		\$ 1,800.00	\$ -
		<b>Grand Total</b>	<b>\$ 1,317.21</b>



**Local Public Agency**

McHenry County

**County**

McHenry

**Section Number**

**Consultant / Subconsultant Name**

Rubino Engineering, Inc.

**Job Number**

Q26.013g\_REV1

**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			Drilling, Coring, Lab, and Reporting														
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Material Tester	47.61	0.0																	
Project Manager / Engineer	62.28	24.0	30.00%	18.68	24	30.00%	18.68												
Staff Engineer / Geologist /	42.01	52.0	65.00%	27.31	52	65.00%	27.31												
Laboratory Staff	34.01	0.0																	
Principal	81.35	4.0	5.00%	4.07	4	5.00%	4.07												
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<b>TOTALS</b>		80.0	100%	\$50.06	80.0	100.00%	\$50.06	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

March 3, 2026

To: Charles Cole, P.E.  
Crawford, Murphy & Tilly  
550 North Commons Drive | Suite 116  
Aurora, Illinois 60504  
P: 630.907.7059

Re: Proposal - Geotechnical Exploration  
Proposed Lakewood Road Corridor  
Phase II in Lake in the Hills, Illinois  
  
Proposal No. Q26.013g\_REV1

Via email: [ccole@cmtengr.com](mailto:ccole@cmtengr.com)

Dear Mr. Cole,

Rubino Engineering, Inc. (Rubino) is pleased to submit the following proposal to provide geotechnical engineering services for the above referenced project. Rubino received a request for proposal from Charles Cole, P.E. of Crawford, Murphy & Tilly via email on January 8th, 2026.

### PROJECT UNDERSTANDING

Rubino understands that Crawford, Murphy & Tilly is planning to aid McHenry County in Phase 2 of the Lakewood Road Corridor from Algonquin Road to Ackman Road in Lake in the Hills, Illinois. Rubino previously completed an Structure Geotechnical Report and a bike path report for HDR under Rubino project number G21.070 in 2021 and that the loads referenced in that report have not changed. Rubino understands that the County is willing to clear trees if necessary for access.

The Lakewood Road Corridor Improvements include the construction of a multi-use path along both the east and west sides of Lakewood Road from Algonquin Road to Ackman Road in the Village of Lake in the Hills, widening of Lakewood Road to provide median refuge islands at multiple intersections, constructing two new pedestrian structures over Kishwaukee Creek located just north of the Miller Road intersection, and the construction of a roundabout at the Lakewood Road and Miller Road intersection. The improvement limits are Station 980+07 to Station 1084+77, a distance of 2.0 miles

#### Information received:

- RFP email from Charles Cole, P.E. of Crawford, Murphy & Tilly on January 8th, 2026.
- Included in RFP email
  - Scope Document – “lakewood-rd-scope-20251222”
  - “lakewood-rd-hours-20251222”
  - Survey Boundary - “Lakewood Survey Boundary v1.kmz” (Shown Below)
- Revision comments from McHenry County via email from Charles Cole on February 26, 2026



**Rubino understands that the TSL referenced in Rubino Report G21.070 has not been updated.**

<b>Field Services Scope of Services Summary</b>	
Additional Scope discussion can be found in subsequent pages of this proposal	
<b>Client Notification Needed prior to mobilization</b>	Please notify Rubino if this is needed upon project authorization
<b>Site Access</b>	Tree clearance by county for pedestrian bridge borings
<b>Drilling Permit Needs</b>	County
<b>Field Equipment Proposed</b>	Track-mounted Geoprobe Drill Rig
<b>Traffic Control Needs</b>	Flaggers
<b>Boring Location Plan</b>	See below for aerial / KMZ
<b>Pavement and Soil Sampling and Purpose</b>	<b>Structure Borings:</b> <ul style="list-style-type: none"> <li>• Drilling/SPT: 1 ft to 50 feet                             <ul style="list-style-type: none"> <li>○ 2 ½ to 30 ft; 5 ft thereafter</li> <li>○ Moisture content on each sample</li> </ul> </li> </ul>
<b>Backfill Needs</b>	Cuttings, excess spoils remain on site
<b>Patching</b>	Concrete or cold patch asphalt
<b>Site Protection or Restoration included</b>	None
<b>Groundwater Readings</b>	During drilling and upon auger removal
<b>Additional Field Equipment needed</b>	Rimac – for AASHTO

**Boring Depths**

To obtain data to evaluate subsurface conditions within the proposed development/construction areas. Rubino proposes the drilling scope of work as detailed below:

<b>NUMBER OF BORINGS</b>	<b>DEPTH (FEET BEG*)</b>	<b>LOCATION ON SITE</b>	<b>SPT SAMPLING INTERVALS</b>	<b>SOIL CLASSIFICATION METHOD</b>
3	50	Pedestrian Bridge Structures	2 ½ ft to 30 ft, 5 ft intervals thereafter	AASHTO(Rimac)

**3 Total Borings      150 Total Lineal Feet**

Should any of the information on which this proposal has been based, including as described above, be inconsistent with the planned construction, Rubino requests to be contacted immediately in order to make any necessary changes to this proposal and scope of work.

**SCOPE OF SERVICES DISCUSSION**

The following sections outline the scope of services developed based on the information provided by the client and the information listed above in order to provide a geotechnical exploration the planned project. The exploration will be performed in general accordance with both the requested proposal information and Rubino’s current understanding of the project.

### Site Access

Based on current site topography, surface conditions, and project discussions, Rubino anticipates that the project site will be accessible to track-mounted Geoprobe drilling equipment.

Rubino understands that the pedestrian bridge borings will require tree clearance that the county will provide prior to mobilization.

### Traffic Control

Rubino anticipates that traffic control will be necessary along N Lakewood Road. Rubino will subcontract a traffic control company to provide flaggers.

### Boring Locations

Rubino recommends that the borings be located and surveyed for elevation by others prior to drilling. If the borings cannot be surveyed, Rubino will locate the borings in the field by measuring distances from known, fixed site features.

### SPT - Soil Sampling

Soil sampling will include split-barrel samples (ASTM D 1586) or thin-walled tube samples on cohesive soils (ASTM D 1587) at 2 ½ - foot intervals to a depth of 30 feet and 5 - foot intervals thereafter, as applicable.

### Completion of Borings

Upon completion of drilling, the borings will be backfilled with soil cuttings and capped with asphalt cold patch. Some damage to ground surface may result from the drilling operations near the work areas and along ingress/egress pathways. Rubino will attempt to minimize such damage, but no restoration other than backfilling the soil test borings is included.

It should be noted that over time, some settlement may occur in the bore hole. If Rubino is requested to return to the site for the purpose of filling any bore holes that may have settled, additional time and material charges may apply.

### Geotechnical Laboratory Testing

The soil samples obtained during the field exploration program will be transported to the laboratory for classification and a limited number of laboratory tests. The nature and extent of the laboratory testing program is at the discretion of Rubino Engineering, Inc. and will depend upon the subsurface conditions encountered during drilling.

Laboratory testing will be performed in accordance with AASHTO procedures and may include examination of selected samples to evaluate the soils' index properties and relative strength characteristics.

Based on the proposed quantity of soil borings, anticipated depths, and project type, a list of the anticipated laboratory tests are summarized below.

Laboratory Test	Estimated Quantity	Sample Type
Natural Moisture Content	48	Split spoon
Atterberg Limits	3	Split spoon
Hydrometer	3	Split spoon
Organic Content	3	Split spoon

### PEDESTRIAN BRIDGE ADDENDUM LETTER

Upon completion of field and laboratory work, Rubino will prepare an addendum letter to Rubino Report No. G21.070 using the collected supplemental geotechnical data. The addendum letter will reference the loads from G21.070 and will also include the following:

#### G21.070 STRUCTURAL GEOTECHNICAL REPORT (SGR) ADDENDUM LETTER

- Project Description and Scope
- Field Exploration
- Foundation Recommendations as applicable
- Construction Considerations
- Appendices (Supporting Documentation): location map, boring plan and soil profile, boring logs, laboratory test results

An electronic copy of the report will be provided. The report will be addressed to Crawford, Murphy & Tilly.

### PROJECT SCHEDULE

Rubino proposes to initiate work on this project within 5 working days after receiving written authorization to proceed and we will follow the schedule below in order to complete the project:

Task	Number of Working Days
Utility clearance and rig mobilization	5 – 10
Field work including site layout and drilling	2
Geo Laboratory Testing	5 – 10
Geo Reporting	5 - 15

Project schedules can be affected by weather conditions and changes in scope. If the report needs to be delivered by a specific day, please notify us as soon as possible. Preliminary verbal recommendations can be made to appropriate parties upon completion of the field investigation and laboratory testing. Rubino will need to receive a signed copy of this proposal intact prior to mobilizing the drill rig.

### UTILITY LOCATE AND OUTSIDE SERVICES

Rubino will coordinate contacting the Utility “One-Call” for public utility clearance prior to the start of drilling activities. It is Rubino’s experience that this service does not mark the locations of privately owned utilities. This proposal is based on privately owned utility locates being coordinated by the owner prior to drill rig mobilization.

## FEES

Rubino proposes to charge the fee for performance of the outlined scope of services on a cost plus fixed fee basis per the attached CECS. Based on the scope of services outlined above, the fee will be **\$25,558**

Please see the attached fee schedule for additional unit rates for services requested after issuing the geotechnical report (drawing / spec review, scope or site layout change, etc.).

### Scope Limitations

Project services do not include a site evaluation to determine the presence or absence of wetlands, hazardous substances, or toxic materials.

Rock coring is not included in the scope of this exploration, therefore, the character and continuity of refusal materials, if encountered, can be determined only with a more comprehensive scope of services. Therefore, the borings will be advanced to the depths referenced above, or to refusal, whichever is shallower.

Boring, sampling and testing requirements are a function of the subsurface conditions encountered. Should conditions be encountered which require a deepening of borings or additional investigation, Rubino will notify you to discuss modifying the outlined scope of services. Additional work beyond the fee will not be performed without your prior authorization.

## AUTHORIZATION

If this proposal is acceptable to you, Rubino will perform the work in accordance with the attached General Conditions that are incorporated into and made a part of this proposal. Please sign below as notice to proceed and return one copy of this proposal intact to our office. Rubino will proceed with the work upon receipt of authorization.

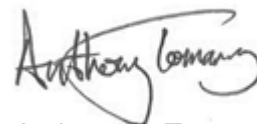
Rubino appreciates the opportunity to offer our services for this project and we look forward to working with your company. Please contact Rubino with questions pertaining to this proposal or requests for additional services.

Respectfully submitted,

### **RUBINO ENGINEERING, INC.**



Michelle A. Lipinski, PE  
President  
[michelle.lipinski@rubinoeng.com](mailto:michelle.lipinski@rubinoeng.com)



Anthony T. Tomaras, PG  
Project Manager  
[anthony@rubinoeng.com](mailto:anthony@rubinoeng.com)

Prepared By: Jonathan Ignarski [jonathan@rubinoeng.com](mailto:jonathan@rubinoeng.com)

Attachments: Fees, Sample COI, & General Conditions

\*\*This is an electronic copy. Hard Copies of this proposal are available upon request.

**FEE REMARKS**

- 1) All fees and services are provided in accordance with the attached Rubino General Conditions.
- 2) Unit prices/rates are in effect for 12 months from the date of this proposal and are subject to change without notice thereafter.
- 3) Overtime rates are applicable for services performed in excess of 8 hours per day Monday through Friday, before 8:00 AM or after 5:00 PM, and for all hours worked on Saturdays, Sundays and holidays. The overtime rate is 1.5 times the applicable hourly rate.
- 4) All rates are billed on a portal-to-portal basis.
- 5) Standby time due to delays beyond Rubino's control will be charged at the applicable hourly rate.
- 6) Transportation and per diem are charged at the applicable rates.
- 7) Rates involving mileage (including transportation, mobilization, vehicle and trip charges) are subject to change based upon increases in the national average gasoline price.
- 8) A minimum charge of 4 hours applies to field testing and observation services.
- 9) Scheduling or cancellation of field testing and observation services is required no less than the working day prior to the date the services are to be performed. Services cancelled without advance and/or inadequate notice will be assessed a minimum charge of 4 hours.
- 10) For all Rubino services, a project management/engineering review charge will be billed for all reports issued for the scheduling/supervision of personnel and the evaluation/review of data and reports.
- 11) The minimum billing increment for time is a half hour.
- 12) A project set-up charge of a minimum of two hours applies to all projects.
- 13) Professional services rates are exclusive of expert deposition or testimony time.
- 14) Drilling and field service rates are based on OSHA Level D personnel protection.
- 15) For sites where drilling is to occur that are not readily accessible to a truck mounted drill rig, rates for rig mobility, site clearing, crew stand-by time, etc. will be charged as applicable.
- 16) If applicable the prevailing wage fees charged under this agreement will be adjusted if there is any change in the applicable prevailing wage rate established by the Illinois Department of Labor.
- 17) Services and fees not listed on this schedule may be quoted on request.

Client#: 1171577

RUBINENG

**ACORD CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY)  
 10/02/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

PRODUCER <b>USI Insurance Services LLC</b> 2001 Spring Road, Ste 200 Oak Brook, IL 60523 312 442-7200	CONTACT NAME <b>Laurie Cloninger</b>
	PHONE (A/C, No, Ext): <b>630 625-5219</b> FAX (A/C, No): <b>610 537-4939</b> E-MAIL ADDRESS: <b>AEcertificates@usi.com</b>
INSURED <b>Rubino Engineering, Inc.</b> 425 Shepard Dr Elgin, IL 60123	INSURER(S) AFFORDING COVERAGE <b>INSURER A : RLI Insurance Company</b> NAIC # <b>13056</b>
	<b>INSURER B : Pacific Insurance Company, Limited</b> <b>10046</b>
	INSURER C :
	INSURER D :
	INSURER E :
	INSURER F :

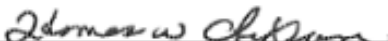
COVERAGES      CERTIFICATE NUMBER:      REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSUR LTR	TYPE OF INSURANCE	ADDITIONAL INSURER	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:		PSB0003777	09/01/2025	09/01/2026	EACH OCCURRENCE      ≤1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence)      ≤1,000,000 MED EXP (Any one person)      ≤10,000 PERSONAL & ADV INJURY      ≤1,000,000 GENERAL AGGREGATE      ≤2,000,000 PRODUCTS - COMP/OP AGG      ≤2,000,000 OTHER:      \$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/>		PSA0001881	09/01/2025	09/01/2026	COMBINED SINGLE LIMIT (Ea accident)      ≤1,000,000 BODILY INJURY (Per person)      \$ BODILY INJURY (Per accident)      \$ PROPERTY DAMAGE (Per accident)      \$ OTHER:      \$
A	<input type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED      RETENTION \$		PSE0002142	09/01/2025	09/01/2026	EACH OCCURRENCE      ≤5,000,000 AGGREGATE      ≤5,000,000 OTHER:      \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N Y N/A	PSW0002789	09/01/2025	09/01/2026	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT      ≤1,000,000 E.L. DISEASE - EA EMPLOYEE      ≤1,000,000 E.L. DISEASE - POLICY LIMIT      ≤1,000,000
B	Professional Liability		83OH056719925	09/01/2025	09/01/2026	\$2,000,000 each claim / \$4,000,000 annual aggr.

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
 Professional Liability is written on a 'claims made' policy form.  
 Some or all officers are excluded from Workers Compensation coverage.

THIS CERTIFICATE OF INSURANCE IS INTENDED AS A SPECIMEN COPY ONLY.

CERTIFICATE HOLDER <b>Rubino Engineering, Inc.</b>	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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 #S51133355/M50716566

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## GENERAL CONDITIONS

**1. PARTIES AND SCOPE OF SERVICES:** Rubino Engineering, Inc. shall include said company or its particular division, subsidiary or affiliate performing the services. "Services" means the specific geotechnical, analytical, testing or other service to be performed by Rubino Engineering, Inc. as set forth in Rubino Engineering, Inc.'s proposal, Client's acceptance thereof and these General Conditions. Additional services ordered by Client shall also be subject to these General Conditions. "Client" refers to the person or business entity ordering the services to be done by Rubino Engineering, Inc. If Client is ordering the services on behalf of another, Client represents and warrants that it is the duly authorized agent of said party for the purpose of ordering and directing said services. Unless otherwise stated in writing, Client assumes sole responsibility for determining whether the quantity and the nature of the services ordered by the client is adequate and sufficient for Client's intended purpose. Client shall communicate these General Conditions to each and every third party to whom Client transmits any part of Rubino Engineering, Inc.'s services. Rubino Engineering, Inc. shall have no duty or obligation to any third party greater than that set forth in Rubino Engineering, Inc.'s proposal, Client's acceptance thereof and these General Conditions. The ordering of services from Rubino Engineering, Inc., or the reliance on any of Rubino Engineering, Inc.'s work, shall constitute acceptance of the terms of Rubino Engineering, Inc.'s proposal and these General Conditions, regardless of the terms of any subsequently issued document.

**2. TESTS AND INSPECTIONS:** Client shall cause all tests and inspection of the site, materials and work performed by Rubino Engineering, Inc. or others to be timely and properly performed in accordance with the plans, specifications and contract documents and Rubino Engineering, Inc.'s recommendations. No claims for loss, damage or injury shall be brought against Rubino Engineering, Inc. by Client or any third party unless all tests and inspections have been so performed and unless Rubino Engineering, Inc.'s recommendations have been followed. Client agrees to indemnify, defend and hold Rubino Engineering, Inc., its officers, employees and agents harmless from any and all claims, suits, losses, costs and expenses, including, but not limited to, court costs and reasonable attorney's fees in the event that all such tests and inspections are not so performed or Rubino Engineering, Inc.'s recommendations are not so followed except to the extent that such failure is the result of the negligence, willful or wanton act of omission of Rubino Engineering, Inc., its officers, agents or employees, subject to the limitation contained in paragraph 9.

**3. SCHEDULING OF SERVICES:** The services set forth in Rubino Engineering, Inc.'s proposal and Client's acceptance will be accomplished in a timely, workmanlike and professional manner by RUBINO ENGINEERING, INC. personnel at the prices quoted. If Rubino Engineering, Inc. is required to delay commencement of the services or if, upon embarking upon its services, Rubino Engineering, Inc. is required to stop or interrupt the progress of its services as a result of changes in the scope of the services requested by Client, to fulfill the requirements of third parties, interruptions in the progress of construction, or other causes beyond the direct reasonable control of Rubino Engineering, Inc., additional charges will be applicable and payable by Client.

**4. ACCESS TO SITE:** Client will arrange and provide such access to the site as is necessary for Rubino Engineering, Inc. to perform the services. Rubino Engineering, Inc. shall take reasonable measures and precautions to minimize damage to the site and any improvements located thereon as the result of its services or the use of its equipment; however, Rubino Engineering, Inc. has not included in its fee the cost of restoration of damage which may occur. If Client desires or requires Rubino Engineering, Inc. to restore the site to its former condition, upon written request Rubino Engineering, Inc. will perform such additional services as is necessary to do so and Client agrees to pay Rubino Engineering, Inc. for the cost.

**5. CLIENT'S DUTY TO NOTIFY ENGINEER:** Client represents and warrants that it has advised Rubino Engineering, Inc. of any known or suspected hazardous materials, utility lines and pollutants at any site at which Rubino Engineering, Inc. is to perform services hereunder, and unless Rubino Engineering, Inc. has assumed in writing the responsibility of locating subsurface objects, structures, lines or conduits. Rubino Engineering, Inc. may use such information in performing its services and is entitled to rely upon the accuracy and completeness thereof. Client agrees to defend, indemnify and save Rubino Engineering, Inc. harmless from all claims, suits, losses costs and expenses, including reasonable attorney's fees as a result of personal injury, death or property damage occurring with respect to Rubino Engineering, Inc.'s performance of its work and resulting to or caused by contact with subsurface of latent objects, structures, lines or conduits where the actual or potential presence and location thereof were not revealed to Rubino Engineering, Inc. by Client and/or by any of Client's subcontractors or sub consultants

**6. RESPONSIBILITY:** Rubino Engineering, Inc.'s services shall not include determining, supervising or implementing the means, methods, techniques, sequences or procedures of construction. Rubino Engineering, Inc. shall not be responsible for evaluating, reporting or affecting job conditions concerning health, safety or welfare. Rubino Engineering, Inc.'s services or failure to perform same shall not in any way excuse any contractor, subcontractor or supplier from performance of its work in accordance with the contract documents. Rubino Engineering, Inc. has no right or duty to stop the contractor's work.

**7. SAMPLE DISPOSAL:** Unless otherwise agreed in writing, test specimens or samples will be disposed immediately upon completion of the test. All drilling samples or specimens will be disposed sixty (60) days after submission of Rubino Engineering, Inc.'s report.

**8. PAYMENT:** Client shall be invoiced once each month for services performed during the preceding period. Client agrees to pay each invoice within thirty (30) days of its receipt. Client further agrees to pay interest on all amounts invoiced and not paid or objected to for valid cause in writing with said thirty (30) day period at the rate of eighteen (18) percent per annum (or the maximum interest rate permitted under applicable law), until paid. Client agrees to pay Rubino Engineering, Inc.'s cost of collection of all amounts due and unpaid after sixty (60) days, including court costs and reasonable attorney's fees. Rubino Engineering, Inc. shall not be bound by any provision or agreement requiring or providing for arbitration or disputes or controversies arising out of this agreement, any provision wherein Rubino Engineering, Inc. waives any rights to a mechanics' lien, or any provision conditioning Rubino Engineering, Inc.'s right to receive payment for its services upon payment to Client by any third party. These General Conditions are notice, where required, that Rubino Engineering, Inc. shall file a lien whenever necessary to collect past due amounts. Release of such lien shall be given only when payment in full has been received for services duly rendered. Failure to make payment within thirty (30) days of invoice shall constitute a release of Rubino Engineering, Inc. from any and all claims which Client may have, whether in tort, contract or otherwise and whether known or unknown at the time.

**9. STANDARD OF CARE:** RUBINO ENGINEERING, INC.'S SERVICES WILL BE PERFORMED, ITS FINDINGS OBTAINED AND ITS REPORTS PREPARED IN ACCORDANCE WITH ITS PROPOSAL, CLIENT'S ACCEPTANCE THEREOF, THESE GENERAL CONDITIONS AND WITH GENERALLY ACCEPTED PRINCIPLES AND PRACTICES. IN PERFORMING ITS PROFESSIONAL SERVICES, RUBINO ENGINEERING, INC. WILL USE THAT DEGREE OF CARE AND SKILL ORDINARILY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY MEMBERS OF ITS PROFESSION. RUBINO ENGINEERING, INC. MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, IN CONNECTION WITH ITS SERVICES PROVIDED AS SET FORTH IN ITS PROPOSAL, CLIENT'S ACCEPTANCE THEREOF, AND THESE GENERAL CONDITIONS. STATEMENTS MADE IN RUBINO ENGINEERING, INC. REPORTS ARE OPINIONS BASED UPON ENGINEERING JUDGMENT AND ARE NOT TO BE CONSTRUED AS REPRESENTATIONS OF FACT.

SHOULD RUBINO ENGINEERING, INC. OR ANY OF ITS PROFESSIONAL EMPLOYEES BE FOUND TO HAVE BEEN NEGLIGENT IN THE PERFORMANCE OF ITS WORK, OR TO HAVE MADE AND BREACHED ANY EXPRESSED OR IMPLIED WARRANTY, REPRESENTATION OR CONTRACT, CLIENT, ALL PARTIES CLAIMING THROUGH CLIENT AND ALL PARTIES CLAIMING TO HAVE IN ANY WAY RELIED UPON RUBINO ENGINEERING, INC.'S WORK, AGREE THAT THE MAXIMUM AGGREGATE AMOUNT OF THE LIABILITY OF RUBINO ENGINEERING, INC., ITS OFFICERS, EMPLOYEES AND AGENTS SHALL BE LIMITED TO \$10,000.00 OR THE TOTAL AMOUNT OF THE FEE PAID TO RUBINO ENGINEERING, INC. FOR ITS WORK PERFORMED WITH RESPECT TO THE PROJECT, WHICHEVER AMOUNT IS GREATER.

NO ACTION OR CLAIM, WHETHER IN TORT, CONTRACT OR OTHERWISE, MAY BE BROUGHT AGAINST RUBINO ENGINEERING, INC., ARISING FROM OR RELATED TO RUBINO ENGINEERING, INC.'S WORK, MORE THAN TWO (2) YEARS AFTER THE CESSATION OF RUBINO ENGINEERING, INC.'S WORK HEREUNDER.

**10. INDEMNITY:** To the fullest extent permitted by law, Client and Rubino Engineering, Inc. each agree to indemnify the other party and the other party's officers, directors, partners, employees, and representatives, from and against losses, damages, and judgments arising from claims by third parties, including reasonable attorneys' fees and expenses recoverable under applicable law, but only to the extent they are found to be caused by a negligent act, error, or omission of the indemnifying party or any of the indemnifying party's officers, directors, members, partners, agents, employees, subcontractors, or subconsultants in the performance of services under this Agreement. If claims, losses, damages, and judgments are found to be caused by the joint or concurrent negligence of Client and Rubino Engineering, Inc., they shall be borne by each party in proportion to its negligence.

**11. TERMINATION:** This Agreement may be terminated by either party upon seven (7) days' prior written notice. In the event of termination, Rubino Engineering, Inc. shall be compensated by Client for all services performed up to and including the termination date, including reimbursable expenses and for the completion of such services and records as are necessary to place Rubino Engineering, Inc.'s files in order and/or protect its professional reputation. Failure of Client to make payments when due shall be cause for suspension of services or, ultimately, termination, unless and until Rubino Engineering Inc. has been paid in full all amounts due for services, expenses and other related changes.

**12. DISPUTE RESOLUTION:** In the event of a dispute arising out of or relating to this Agreement or the services to be rendered hereunder, the Client and Rubino Engineering, Inc. agree to attempt to resolve such disputes in the following manner: 1) The parties agree to attempt to resolve any and all unsettled claims, counterclaims, disputes and other matters in question through direct negotiations between the appropriate representatives of each party; 2) If such negotiations are not fully successful, the parties agree to submit any and all remaining unsettled claims, counterclaims, disputes and other matters in question to mediation in accordance with the Construction Industry Mediation Rules of the American Arbitration Association, effective as of the date of this Agreement.

**13. WITNESS FEES:** Rubino Engineering, Inc.'s employees shall not be retained as expert witnesses except by separate written agreement. Client agrees to pay Rubino Engineering, Inc.'s legal expenses, administrative costs and fees pursuant to Rubino Engineering, Inc.'s then current fee schedule for Rubino Engineering, Inc. to respond to any subpoena.

**14. NO HIRE:** Client agrees not to hire Rubino Engineering, Inc.'s employees except through Rubino Engineering, Inc. In the event Client hires a Rubino Engineering, Inc. employee, Client shall pay Rubino Engineering, Inc. an amount equal to one-half of the employee's annualized salary, with Rubino Engineering, Inc. waiving other remedies it may have.

**15. HAZARDOUS MATERIALS:** Nothing contained within this agreement shall be construed or interpreted as requiring Rubino Engineering, Inc. to assume the status of an owner, operator, generator, storer, transporter, treater or disposal facility as those terms appear within RCRA, CERCLA, or within any Federal or State statute or regulation governing the generation, transportation, treatment, storage and disposal of pollutants. Client assumes full responsibility for compliance with the provisions of RCRA, CERCLA, and any other Federal or State statute or regulation governing the handling, treatment, storage and disposal of pollutants.

**16. PROVISIONS SEVERABLE:** The parties have entered into this agreement in good faith and it is the specific intent of the parties that the terms of the General Conditions be enforced as written. In the event any of the provisions of these General Conditions should be found to be unenforceable, it shall be stricken and the remaining provisions shall be enforceable.

**17. ENTIRE AGREEMENT:** This agreement constitutes the entire understanding of the parties, and there are no representations, warranties or undertakings made other than as set forth herein. This agreement may be amended, modified or terminated only in writing, signed by each of the parties hereto.

**Rubino Engineering, Inc.**

**Lakewood Road Corridor Project  
EXHIBIT E - Workhour Summary**

<u>Task and Description</u>	<u>Total</u>	<u>Prime - CMT</u>	<u>Peralte Clark</u>	<u>ASE</u>	<u>Fehr Graham</u>	<u>Rubino</u>
<b>Task 1 Early Coordination and Data Review</b>						
Review Existing Data	62	44	12	6	0	0
Site Visit	42	32	10	0	0	0
<b>Subtotal:</b>	<b>104</b>	<b>76</b>	<b>22</b>	<b>6</b>	<b>0</b>	<b>0</b>
<b>Task 2 Supplemental Surveys</b>						
Horizontal and Vertical Control	94	94	0	0	0	0
Topographic Survey	1,021	1,021	0	0	0	0
Preliminary Right-of-Way Staking	69	69	0	0	0	0
Right-of-Way Staking	187	187	0	0	0	0
<b>Subtotal:</b>	<b>1,371</b>	<b>1,371</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Task 3 Utility Coordination</b>						
Conflict Identification	48	4	12	32	0	0
Relocation Assistance	66	8	0	58	0	0
SUE Investigation	390	4	0	386	0	0
<b>Subtotal:</b>	<b>504</b>	<b>16</b>	<b>12</b>	<b>476</b>	<b>0</b>	<b>0</b>
<b>Task 4 Special Waste Evaluation</b>						
Investigation	29	0	0	0	29.0	0
Traffic Control	0	0	0	0	0.0	0
PESA Update	47	8	0	0	38.5	0
PSI Report	62	8	0	0	53.5	0
LPC 662 or 663 Documentation	6	2	0	0	3.5	0
<b>Subtotal:</b>	<b>143</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>125</b>	<b>0</b>
<b>Task 5 Roadway Plans</b>						
Sheets (See Sheet Summary)	4,420	3,659	762	0	0	0
Pavement Design	16	16	0	0	0	0
Compensatory Storage Design	20	0	20	0	0	0
Transportation Management Plan	0	0	0	0	0	0
Phase II Drainage Calculations	-	-	-	-	-	-
Culvert Analysis (minor culverts)	162	0	162	0	0	0
Inlet Spacing	69	0	69	0	0	0
Detention Volume Sizing and Layout	66	0	66	0	0	0
Water Quality Analysis and Evaluation	36	0	36	0	0	0
Temporary Drainage Design for MOT staging	80	0	80	0	0	0
Drainage constructability review for MOT staging	8	0	8	0	0	0
<b>Subtotal:</b>	<b>4,877</b>	<b>3,675</b>	<b>1,203</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Task 6 Structural Plans</b>						
Sheets (See Sheet Summary)	944	944	0	0	0	0
Load Rating Analysis	0	0	0	0	0	0
<b>Subtotal:</b>	<b>944</b>	<b>944</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Task 7 Quantity Calculations</b>						
Quantity Calculations	528	408	120	0	0	0
<b>Subtotal:</b>	<b>528</b>	<b>408</b>	<b>120</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Task 8 Specifications and Special Provisions</b>						
Specifications and Special Provisions	172	148	24	0	0	0
<b>Subtotal:</b>	<b>172</b>	<b>148</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Task 9 Construction Estimate of Cost and Estimate of Time</b>						
Estimate of Cost	52	52	0	0	0	0
Schedule	18	18	0	0	0	0
Estimate of Time	42	42	0	0	0	0
<b>Subtotal:</b>	<b>112</b>	<b>112</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Lakewood Road Corridor Project  
EXHIBIT E - Workhour Summary**

<b>Task and Description</b>	<b>Total</b>	<b>Prime - CMT</b>	<b>Peralte Clark</b>	<b>ASE</b>	<b>Fehr Graham</b>	<b>Rubino</b>
<b>Task 10 PS&amp;E Submittals</b>						
<i>Preliminary</i>	72	72	0	0	0	0
<i>Pre-final</i>	48	48	0	0	0	0
<i>Final</i>	96	96	0	0	0	0
<i>Central Office</i>	24	24	0	0	0	0
<i>Disposition of Comments</i>	132	120	12	0	0	0
<i>Grading Surface Models</i>	20	16	4	0	0	0
<i>Advance Tree Removal Plan</i>	64	56	8	0	0	0
<b>Subtotal:</b>	<b>456</b>	<b>432</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Task 11 Permitting and Environmental Coordination</b>						
<i>Wetland and Stream Mitigation</i>	4	4	0	0	0	0
<i>Section 404 Permit</i>	60	60	0	0	0	0
<i>MCP&amp;D Stormwater Management Permit Application</i>	128	80	48	0	0	0
<i>MCP&amp;D Stormwater Management Permit Certification</i>						
<i>Preliminary Compensatory Storage Review</i>	12	0	12	0	0	0
<i>As-Built Topographic Survey</i>	308	308	0	0	0	0
<i>Compensatory Storage Evaluation and Submittal</i>	48	0	48	0	0	0
<i>MLSWCD Review</i>	24	0	24	0	0	0
<i>IDNR-OWR Floodway Construction Permit</i>	80	20	60	0	0	0
<i>NPDES Permit</i>	40	0	40	0	0	0
<i>ESR Addendum/Update</i>	20	20	0	0	0	0
<i>Bridge Bat Assessment</i>	3	3	0	0	0	0
<i>Aquatic Resource Delineation Update</i>	40	40	0	0	0	0
<i>Tree Survey</i>	108	108	0	0	0	0
<b>Subtotal:</b>	<b>875</b>	<b>643</b>	<b>232</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Task 12 Phase III Activities</b>						
<i>Request for Information</i>	52	40	12	0	0	0
<i>Shop Drawing Review</i>	118	112	6	0	0	0
<b>Subtotal:</b>	<b>170</b>	<b>152</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Task 13 Meetings and Coordination</b>						
<i>LPA Initiation Meeting</i>	28	24	4	0	0	0
<i>IDOT Initiation Meeting</i>	18	14	4	0	0	0
<i>LPA Plan-in-Hand Field Meeting</i>	36	24	12	0	0	0
<i>McHenry County P&amp;D Meeting</i>	16	12	4	0	0	0
<i>USACE Meeting</i>	12	8	4	0	0	0
<i>MLSWCD Meeting</i>	8	4	4	0	0	0
<i>IDOT Detour Committee Meeting</i>	0	0	0	0	0	0
<i>IDOT Pre-construction Meeting</i>	14	8	6	0	0	0
<i>MCCD/LITH Meetings</i>	12	6	6	0	0	0
<i>Property Owner Meetings</i>	54	6	48	0	0	0
<b>Subtotal:</b>	<b>198</b>	<b>106</b>	<b>92</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Task 14 Project Administration and Management</b>						
<i>Project Setup</i>	51	14	32	5	0	0
<i>Monthly Invoices and Progress Reports</i>	82	41	36	5	0	0
<i>Project Coordination</i>	147	82	60	5	0	0
<i>Project Schedule Monitoring</i>	55	30	20	5	0	0
<b>Subtotal:</b>	<b>335</b>	<b>167</b>	<b>148</b>	<b>20</b>	<b>0</b>	<b>0</b>
<b>Task 15 Quality Assurance/Quality Control</b>						
<i>QA/QC</i>	591	439	132	20	0	0
<b>Subtotal:</b>	<b>591</b>	<b>439</b>	<b>132</b>	<b>20</b>	<b>0</b>	<b>0</b>

**Lakewood Road Corridor Project  
EXHIBIT E - Workhour Summary**

<u>Task and Description</u>	<u>Total</u>	<u>Prime - CMT</u>	<u>Peralte Clark</u>	<u>ASE</u>	<u>Fehr Graham</u>	<u>Rubino</u>
<b>Task 16 Right-of-Way and Easement Plats</b>						
<i>Title Commitments</i>	84	84	0	0	0	0
<i>ROW Document Research</i>	122	122	0	0	0	0
<i>Boundary Survey and Analysis</i>	564	564	0	0	0	0
<i>Legal Descriptions</i>	53	53	0	0	0	0
<i>Plat of Highways</i>	350	350	0	0	0	0
<i>Individual Plats</i>	0	0	0	0	0	0
<i>Plat of Resolution</i>	0	0	0	0	0	0
<b>Subtotal:</b>	<b>1,173</b>	<b>1,173</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Task 17 Design Modifications</b>						
<i>Ex PH1 Design Review &amp; ORD Modeling</i>	100	100	0	0	0	0
<i>Ident. of PH1 Constraints &amp; Parameters</i>	70	70	0	0	0	0
<i>Drainage Concept Eval. W/in PH1 Frame</i>	20	20	-	0	0	0
<i>Assessment of open drainage vs. closed drainage</i>	48	-	48	0	0	0
<i>Evaluate closed systems to eliminate ditches</i>	48	-	48	0	0	0
<i>Evaluate detention reduction strategies</i>	32	-	32	0	0	0
<i>Calculate detention requirements</i>	96	-	96	0	0	0
<i>Assess concept changes to Phase I storm sewer</i>	432	-	432	0	0	0
<i>Preliminary detention grading plans for Preferred alt.</i>	20	-	20	0	0	0
<i>Prepare ditch sizing calculations for Preferred Alt.</i>	80	-	80	0	0	0
<i>Prepare concept drainage exhibits for LPA review</i>	16	-	16	0	0	0
<i>Prepare summary memo for LPA review</i>	24	-	24	0	0	0
<i>Typical Section Refinement Concepts</i>	200	200	0	0	0	0
<i>Ped and Bike Safety Refine. Concepts</i>	175	175	0	0	0	0
<i>Roundabout Concept Confirmation</i>	100	100	0	0	0	0
<i>Prelim. ROW &amp; Ease. Impact Reassess.</i>	30	30	0	0	0	0
<i>Concept Screening &amp; Recommendation</i>	170	170	0	0	0	0
<i>County Coordination &amp; Decision Support</i>	30	30	0	0	0	0
<i>Phase II Readiness Documentation</i>	-	-	-	0	0	0
<i>Prepare a Summary of key assumptions and constraints</i>	2	0	2	0	0	0
<i>Update Phase I hydrologic calculations for Preferred Alt.</i>	108	0	108	0	0	0
<i>Prepare Kishwaukee Creek updated cross sections</i>	72	0	72	0	0	0
<i>Kishwaukee Creek compensatory storage analysis</i>	20	0	20	0	0	0
<i>Kishwaukee Creek Hydraulic Study update</i>	0	0	-	0	0	0
<i>Natural HEC-RAS Model</i>	8	0	8	0	0	0
<i>Existing HEC-RAS Model</i>	8	0	8	0	0	0
<i>Proposed HEC-RAS Permit Model</i>	8	0	8	0	0	0
<i>Proposed HEC-RAS Design Model</i>	8	0	8	0	0	0
<i>Permit Waterway Information Table (WIT)</i>	4	0	4	0	0	0
<i>Design Waterway Information Table (WIT)</i>	4	0	4	0	0	0
<i>Scour analysis</i>	0	0	0	0	0	0
<i>Re-evaluate BMP requirements due to ditch reduction</i>	16	0	16	0	0	0
<i>Design water quality treatment basins/ditches</i>	120	0	120	0	0	0
<i>Prepare updated EDP sheets for study area</i>	0	0	0	0	0	0
<i>Prepare 30% D&amp;U sheets for Preferred Alt.</i>	210	0	210	0	0	0
<i>Update Phase I Location Drainage Tech Memo (LDTM)</i>	24	0	24	0	0	0
<i>Phase 1 Reevaluation</i>	-	-	-	-	-	-
<i>IDOT Form</i>	8	8	0	0	0	0
<i>Exhibits for IDOT Form</i>	16	16	0	0	0	0
<i>PIM</i>	60	60	0	0	0	0
<i>FHWA Coordination Meeting</i>	12	12	0	0	0	0
<b>Subtotal:</b>	<b>2,399</b>	<b>991</b>	<b>1,408</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Task 18 Supplemental Geotechnical Studies</b>						
<i>Facility Installation Permit</i>	2	0	0	0	0	2
<i>Structure Borings</i>	26	8	0	0	0	18
<i>Laboratory Testing</i>	20	0	0	0	0	20
<i>Geotechnical Memorandum</i>	57	17	0	0	0	40
<b>Subtotal:</b>	<b>105</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80</b>

Lakewood Road Corridor Project  
 EXHIBIT E - Workhour Summary

Task 19	<u>Task and Description</u>	<u>Total</u>	<u>Prime -</u>	<u>Peralte</u>	<u>ASE</u>	<u>Fehr</u>	<u>Rubino</u>
			<u>CMT</u>	<u>Clark</u>		<u>Graham</u>	
	<i>Lighting Analysis</i>						
	<i>Photometric Calculations</i>	28	28	0	0	0	0
	<i>Voltage Drop Calculations</i>	8	8	0	0	0	0
	<i>Coordination with ComEd</i>	12	12	0	0	0	0
	<b>Subtotal:</b>	<b>48</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Total:</b>	<b>15,105</b>	<b>10,944</b>	<b>3,435</b>	<b>522</b>	<b>125</b>	<b>80</b>

**Lakewood Road Corridor Project**  
**EXHIBIT E - Roadway and Structural Sheet Summary**

<b>Task 5 - Roadway Plans</b>	<b># Shts</b>	<b>Hrs/Sht</b>	<b>Total Hrs</b>
Cover Sheet	1	8	8
Index of Sheets, Highway Standards and Commitments	1	10	10
General Notes	2	12	24
Summary of Quantities	12	2	24
Schedule of Quantities	9	8	72
Typical Sections	8	16	128
Alignment, Ties and Benchmarks (100 Scale)	5	16	80
Roundabout Baselines	2	16	32
Removal Plan (20 Scale - Dual Pane)	11	20	220
Plan and Profile (20 Scale - Plan Pane / Profile Pane)	21	28	588
Roundabout Curb Profiles	7	16	112
Drainage General Notes	1	6	6
Drainage Removal Plans	21	2	42
Drainage Plan and Profile (20 Scale - Plan Pane / Profile Pane)	21	12	252
Drainage Details	3	10	30
Temporary Drainage Plans for MOT Staging	42	2	84
Drainage Schedules	4	4	16
Water Relocation Plan and Profile (assume Village relocations by Village)	-	-	-
Sanitary Relocation Plan and Profile (assume Village relocations by Village)	-	-	-
Maintenance of Traffic Plans (20 Scale - Dual Pane) + Typ Sections + Notes	55	10	550
Detour Plan and Notes	3	8	24
Stormwater Pollution Prevention Plan and Notes	1	12	12
Soil Erosion and Sediment Control Plan	22	12	264
Soil Erosion and Sediment Control Details	6	3	18
Grading Plan – Bridge and Channel	4	16	64
Grading Plan - Detention Ponds	4	20	80
Grading Plan - Intersection Pavement	9	16	144
Grading Plan - ADA Ramps	11	16	176
Grading Plan - Driveways	2	16	32
Plat of Highways	20	0.25	5
Pavement Marking and Signing Plan (20 scale dual pane)	11	16	176
District One Signal Details	8	1	8
Temp Signal Plans (1 Intersection Reed Rd)	8	16	128
Signal Plans (1 Intersection Reed Rd)	2	24	48
* Miller Road Existing Temp Signal will be removed as part of detour for roundabout	-	-	-
Lighting Plan (2 Intersections; Miller with Approach, Reed with Combo)	7	18	126
Lighting Details	5	1	5
Landscaping Plan (50 scale dual pane)	6	16	96
Landscaping Details (Drainage Features: 4 ponds, 1 creek (2 sheets))	6	20	120
Detail Sheets (Insert Standard Details by Others)	8	1	8
District One Details	8	1	8
Cross Sections - Roadway and Channel (Includes building ORD model)	75	8	600
<b>Subtotal:</b>	<b>452</b>	<b>-</b>	<b>4,420</b>

**Task 6 - Structural Plans - for 2 structures and 16 retaining walls**

	<b>Bridge 1</b>		<b>Bridge 2</b>		<b>Total Hrs</b>
	<b># Shts</b>	<b>Hrs/Sht</b>	<b># Shts</b>	<b>Hrs/Sht</b>	
<i>General Plan and Elevation</i>	1	32	1	40	72
<i>General Data</i>	1	20	1	32	52
<i>Abutment Details</i>	1	70	1	120	190
<i>Pile Details</i>	1	2	1	4	6
<i>Soil Borings</i>	2	1	2	1	4
<b>Subtotal:</b>	<b>6</b>	<b>-</b>	<b>6</b>	<b>-</b>	<b>324</b>

	<b># Shts</b>	<b>Hrs/Sht</b>	<b>Total Hrs</b>
<i>Low Height (3' or Less) Retaining Walls (13 total)</i>	-	-	-
<i>Standard Detail</i>	1	1	1
<i>Plan and Elevation</i>	14	16	224
<i>Retaining Walls (between 3' and 7' high) (3 total)</i>	-	-	-
<i>General Plan and Elevation</i>	4	24	96
<i>General Data</i>	3	16	48
<i>Reinforcement Plan and Elevation Details</i>	12	16	192
<i>Wall Details</i>	3	16	48
<i>Soil Borings</i>	11	1	11
<b>Subtotal:</b>	<b>48</b>	<b>-</b>	<b>620</b>
<b>Total</b>	<b>60</b>	<b>-</b>	<b>944</b>