



DRAFT

**Local Public Agency
Engineering Services Agreement**

Using Federal Funds? Yes No

Agreement For: Agreement Type:

LOCAL PUBLIC AGENCY

Local Public Agency	County	Section Number	Job Number
Lake	Lake	02-00065-01-FP	
Project Number	Contact Name	Phone Number	Email
	Chuck Gleason	(847) 377-7447	cgleason@lakecountyl.gov

SECTION PROVISIONS

Local Street/Road Name	Key Route	Length	Structure Number
Cedar Lake Road	0192	0.7 mi	
Location Termini			<input type="button" value="Add Location"/>
South of Nippersink Road to North of Hart Road			<input type="button" value="Remove Location"/>

Project Description
 Realignment of Cedar Lake Road from Nippersink Road to Hart Road. Includes a relocation of an at-grade railroad crossing with the Metra MD-N Railroad, reconfiguration of the Metra Round Lake Station, and relocation of a Metra maintenance siding. Also includes streetscape improvements for the Village of Round Lake.

Engineering Funding: MFT/TBP State Other

Anticipated Construction Funding: Federal MFT/TBP State Other

AGREEMENT FOR

Phase I - Preliminary Engineering Phase II - Design Engineering

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

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

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

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

AGREEMENT EXHIBITS

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

- EXHIBIT A: Scope of Services
- EXHIBIT B: Project Schedule
- EXHIBIT C: Qualification Based Selection (QBS) Checklist
- EXHIBIT D: Cost Estimate of Consultant Services (BLR 05513 or BLR 05514)
- EXHIBIT ___ : Direct Costs Check Sheet (attach BDE 436 when using Lump Sum on Specific Rate Compensation)
- _____
- _____
- _____

I. THE ENGINEER AGREES,

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

II. THE LPA AGREES,

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

shall be due and payable to the ENGINEER.

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

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

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

Method of Compensation:

Percent

Lump Sum

Specific Rate

Cost plus Fixed Fee: Fixed

Total Compensation = DL + DC + OH + FF

Where:

DL is the total Direct Labor,

DC is the total Direct Cost,

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.

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

III. IT IS MUTUALLY AGREED,

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

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

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

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

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

9. This certification is required by the Drug Free Workplace Act (30 ILCS 580). The Drug Free Workplace Act requires that no grantee or contractor shall receive a grant or be considered for the purpose of being awarded a contract for the procurement of any property or service from the DEPARTMENT unless that grantee or contractor will provide a drug free workplace. False certification or violation of the certification may result in sanctions including, but not limited to suspension of contract on grant payments, termination of a contract or grant and debarment of the contracting or grant opportunities with the DEPARTMENT for at least one (1) year but not more than (5) years.

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

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

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

- (2) The grantee's or contractor's policy to maintain a drug free workplace;
 - (3) Any available drug counseling, rehabilitation and employee assistance program; and
 - (4) The penalties that may be imposed upon an employee for drug violations.
- (c) Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.
- (d) Notifying the contracting, or granting agency within ten (10) days after receiving notice under part (b) of paragraph (3) of subsection (a) above from an employee or otherwise, receiving actual notice of such conviction.
- (e) Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program.
- (f) Assisting employees in selecting a course of action in the event drug counseling, treatment and rehabilitation is required and indicating that a trained referral team is in place.

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

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

AGREEMENT SUMMARY

Prime Consultant (Firm) Name	TIN/FEIN/SS Number	Agreement Amount
Crawford, Murphy & Tilly, Inc.	37-0844662	\$3,689,762.00

Subconsultants	TIN/FEIN/SS Number	Agreement Amount
Alfred Benesch & Company	36-2407363	\$799,089.00
American Surveying & Engineering, LTD	36-3307274	\$341,773.00
Legat Architects	36-3003268	\$124,094.00
Chicago Testing Laboratory, Inc.	36-4199051	\$213,255.00
Hitchcock Design Group	36-3059328	\$114,702.00
Fehr Graham	36-2780335	\$134,879.00
Subconsultant Total		\$1,727,792.00
Prime Consultant Total		\$3,689,762.00
Total for all work		\$5,417,554.00

AGREEMENT SIGNATURES

Executed by the LPA:

Attest: The Local Public Agency Type of Local Public Agency

By (Signature & Date)

By (Signature & Date)

Local Public Agency Local Public Agency Type Clerk

Title

(SEAL)

Executed by the ENGINEER:

Attest: Prime Consultant (Firm) Name

By (Signature & Date)

By (Signature & Date)

Title

Title

APPROVED:

Regional Engineer, Department of Transportation (Signature & Date)

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	Crawford, Murphy & Tilly, Inc.	Lake	02-00065-01-FP

**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

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	Crawford, Murphy & Tilly, Inc.	Lake	02-00065-01-FP

**EXHIBIT B
PROJECT SCHEDULE**

--

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	Crawford, Murphy & Tilly, Inc.	Lake	02-00065-01-FP

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

CONTRACT EXHIBITS FOR

*Cedar Lake Road Realignment
Phase 2*
Lake County DOT

SECTION NUMBER 02-00065-01-FP

Prepared by

Crawford Murphy, & Tilly, Inc.



CONTACT INFORMATION

Charles "Tice" Cole, P.E.
Project Manager | Surface Transportation
ccole@cmtengr.com | 630.907.7059

Contents

Prime Scope of Services

Schedule

Prime Cost Estimate of Consultant Services

Subconsultant 1 – Alfred Benesch & Company

Subconsultant 2 – American Surveying & Engineering, LTD

Subconsultant 3 – Legat Architects

Subconsultant 4 – Chicago Testing Laboratory, Inc. (CTL)

Subconsultant 5 – Hitchcock Design Group

Subconsultant 6 – Fehr Graham

Subconsultant 7 – Huddleston McBride Land Drainage Services

Prime Scope of Services

EXHIBIT "A": SCOPE OF WORK

**Lake County Division of Transportation
Project Scope Description to Provide
Phase II (Design) Engineering and Land Acquisition Services for
Cedar Lake Road Realignment
Nippersink Road to Hart Road
Section Number: 02-00065-01-FP**

General Project Information

1. Tentative Project Schedule includes Phase I completion in January 2024. Phase II start in November 2023 and primary work conclude in November 2025 with a January 2026 letting. Phase III beginning in April 2026 and lasting thru the 2027 construction season. Phase II support is intended to last into the initial months of construction with tasks such as a public outreach event in advance of construction and responding to contractor requests for information (RFI's). For contract preparation purposes, this project is expected to begin in November 2023 and to be completed in June 2026. Duration of contract estimated at 31 months.
2. Roadway limits:

	Road	From	To	Length (ft)
1	Cedar Lake Rd	Park Ave	North of Hart Rd	3,692
2	Nippersink Rd	Capri Dr	Goodnow Blvd	1,258
3	Avilon Ave	Capri Ct	Goodnow Blvd	715
4	Goodnow Blvd	At	IL 134	128
5	IL 134	East of Hart Rd	East of Orchard St	3,180
6	Nippersink Rd	Lincoln Ave	IL 134	112
7	Hart Rd	West of School Exit	Pr Cedar Lake Rd	351
8	Ex Cedar Lake Rd	Hart Rd	MD-N	930
9	Ex Cedar Lake Rd	South of	IL 134	128
10	Lakewood Terrace	At	Ex Cedar Lake Rd	72
11	Village Hall RI/RO	Pr Cedar Lake Rd	village water building	181
12	Ace Entrance	At	IL 134	95
13	Church Ent Reloc	Adjacent To	Pr Cedar Lake Rd	174
14	School Ent Reloc	Adjacent To	Hart Rd	416
	Total			11,432 (2.17 mi)

3. The project is anticipated to have federal funding and will have a state letting.
4. The scope includes three (3) major Plans, Specs & Estimate (PS&E) submittals including preliminary (LCDOT-only; no specs), prefinal (IDOT) and final (IDOT).

The scope also includes three minor re-submittals of the final plans to IDOT based upon the following contingency items: 1) IDOT history of late comments on prefinal from various Bureaus at the district, 2) follow-up comments from CBLRS after the district has reviewed, and 3) updates to the IDOT forms, special provisions and pay items if the letting is delayed due to land acquisition or other reasons. Constructability Reviews will be performed at milestone submittals.

5. This project is not expected to be broken out into separate construction contracts unless it is related to the platform-related work defined herein.
6. The scope includes five submittals of station plans to Metra for their review and approval, independent of the IDOT plan submittals noted above.
7. CMT will perform land acquisition services for this project including plat of highways, appraisals, review appraisals, negotiations, and relocations. Title commitments are included with an assumed amount defined herein. This project is estimated to impact 94 parcels and is estimated to have 70 takes based upon the use and their proximity to each other.
8. The project will only include eight structural elements including three retaining walls, two locations for overhead entry sign streetscape foundations (2 foundations at each location), and three locations for major entry sign streetscape foundations (1 foundation at each location). The walls include a retaining wall along the west side of proposed Cedar Lake Road between Nippersink Road and Aviron Avenue, a retaining wall replacement on the north side of Nippersink Road, west of Cedar Lake Road, and a possible retaining wall on the south side of Nippersink Road, west of Cedar Lake Road. Only the second wall mentioned above may be taller than 7-feet in height. Overhead entry signs (downtown gateway) are planned at Proposed Cedar Lake Road at Aviron Avenue (east leg) and Existing Cedar Lake Road at IL 134 (south leg). Major Entry signs are planned at the southeast corner of Proposed Cedar Lake Road at Nippersink Road, the southeast quadrant of Proposed Cedar Lake Road at IL 134, and the southeast quadrant of Proposed Cedar Lake Road at Hart Road/Existing Cedar Lake Road.
9. This contract will include the removal of the existing at-grade railroad crossing of Existing Cedar Lake Road at the Metra Milwaukee District North Line (MD-N). This contract includes the construction of a new at-grade railroad crossing of Proposed Cedar Lake Road at the MD-N.

10. Signalized intersections:

- a. Proposed Cedar Lake Road at Nippersink Road
- b. Proposed Cedar Lake Road at IL 134 (Railroad Avenue)
- c. Proposed Cedar Lake Road at Hart Road / Existing Cedar Lake Road

11. Unsignalized intersections:

- a. Proposed Cedar Lake Road at Aylon Avenue
- b. Proposed Cedar Lake Road at Village Hall (Right-In/ Right-Out)
- c. IL 134 (Railroad Avenue) at Ace Hardware Entrance
- d. IL 134 (Railroad Avenue) at Goodnow Boulevard
- e. IL 134 (Railroad Avenue) at Existing Cedar Lake Road
- f. IL 134 (Railroad Avenue) at Nippersink Road
- g. Existing Cedar Lake Road at Lakewood Terrace

12. Drainage Detention Ponds:

- a. northwest corner of Proposed Cedar Lake Road at Nippersink Road
- b. northwest corner of Proposed Cedar Lake Road at Aylon Avenue
- c. northwest corner of Proposed Cedar Lake Road at Hart Road
- d. northeast corner of Proposed Cedar Lake Road at Hart Road

13. This contract does not include the following train station or at-grade crossing items that Metra will be designing and contracting/constructing independently: vehicular gates, pedestrian gates, railroad signals, circuitry, crossing surface, removal of existing crossing surface and equipment, new maintenance siding, and existing maintenance siding removal, railroad signal equipment relocation/reconstruction.

14. This contract includes the following train station design items that will be included in the state-let contract by LCDOT: existing station building and utility demolition, existing parking and entrance demolition, guardrail replacement with fence, kiss-n-rides, new parking, existing parking lot resurfacing, new entrances, architectural monument relocation, lighting (platform, shelter, and parking), warming shelters and associated utilities (2), streetscape, and general landscaping. Most of this design work will be performed by Benesch with some being performed by CMT and Hitchcock Design Group.

15. This contract includes the following train station design items that will be taken by Metra and administered independently for contracting/construction: platform demolition, new platform, and mid-platform pedestrian crossings (2). This design work will be performed by Benesch.

16. Scope includes Wetland Permitting through the USACE Nationwide Permit program and Lake County SMC.
17. Scope includes local PESA validation due to 6-month report expiration and/or PESA update due to 3-year report expiration. If the PESA validation identifies land use changes or new releases are identified, the entire local PESA will be updated.
18. Scope includes Subsurface Utility Engineering (SUE) performed by American Survey & Engineering.
19. Scope includes Roadway Geotechnical Report which will also cover the train station site improvements. Geotechnical Report to performed by CTL.
20. Scope includes Roadway Lighting at select intersections and segments as requested by Round Lake. Some existing lighting will be relocated.

Preliminary Index of Sheets

#	Sheet Section
1	Cover Sheet
2	Signature Sheet
3	Index of Sheets
4	General Notes, Commitments, Highway Standards
5	Utility Plan Relocation Matrix
6	General Site Plan
7	Summary of Quantities
8	Typical Sections / Pavement Design / Mix Requirements
9	Schedule of Quantities
10	Alignments, Ties & Benchmarks
11	Removal Plans – Roadway and Station
12	Roadway Plan and Profiles
13	Roadway Plan and Profiles – Station
14	Geometric Plans - Station
15	Grading Plan – Roadways, Detention, Station
16	Suggested Sequence of Construction
17	Platform Staging Plans
18	Soil Erosion and Sediment Control Plans
19	Drainage Plan and Profiles – Roadways
20	Existing and Proposed Drainage Plans - Station
21	Drainage Schedules – Roadway and Station
22	Watermain (new) Plans
23	Water and Sanitary Utility Relocations and Adjustments
24	Utility Plan - New Warming Shelters
25	Plat of Highways Sheets
26	Intersection Detail Plans (Grades and Contours)
27	ADA and Corner Island Details
28	Driveway Detail Plans
29	Pavement Marking and Signing Plans
30	Landscaping Plans
31	Traffic Signal and Interconnect Plans
32	Temporary Lighting Plans & BOE Details
33	Lighting Plans – Roadway, Parking, Shelter, Platform
34	Retaining Wall Plans
35	Miscellaneous Details
36	Warming Shelters Detail Sheets
37	Proposed Bicycle Parking Plan
38	Cross Sections – Roadway and Station

List of Impacted Parcels

#	Pin	Address	Taxpayer (Lake County GIS)
1	0629101023	325 Aviron Ct	Agustin & Ramona Arteaga
2	0629102004	448 N Cedar Lake Rd	Alejandro Pizarro
3	0629100029	106 N Cedar Lake Rd	Amy Block
4	0629100064	0 Cedar Lake Rd	Anthony & Kelly Rodkey
5	0620300011	500 N Cedar Lake Rd	Board of Education District 116
6	0620300029	510 N Cedar Lake Rd	Board of Education District 116
7	0629100030	104 N Cedar Lake Rd	Brian J & Mary K Kristan
8	0629112017	114 Lincoln Ave	Catholic Bishop of Chicago
9	0629112018	101 Cedar Lake Rd	Catholic Charities of the Archdiocese
10	0629100028	108 N Cedar Lake Rd	Christopher S & Deanna M Larkin
11	0629100063	0 Cedar Lake Rd	Daly Limited Partnership
12	0629114009	604 W Nippersink Rd	David G Thornborough
13	0629100022	200 N Cedar Lake Rd	Edwin Vazquez & Betsy Diaz
14	0629100021	200 N Cedar Lake Rd	Edwin Vazquez & Betsy Diaz
15	0629100085	665 W Nippersink Rd	Esteban Montes Deoca
16	0629102003	460 N Cedar Lake Rd	Gary & Delores Milem
17	0629102002	458 N Cedar Lake Rd	Gary & Delores Milem
18	0629104001	401 N Cedar Lake Rd	German Lopez Santiago & Janet Torrez
19	0629103009	405 N Cedar Lake Rd	German Lopez Santiago & Janet Torrez
20	0629100003	0 IL Route 134	Greater Round Lake Fire Protection Dist.
21	0629106018	417 Railroad Ave	H & R Holdings, Inc.
22	0629114005	660 W Nippersink Rd	Jacob W & Sanddra M Woodward
23	0629102005	444 N Cedar Lake Rd	James T Magee TTEEUTD 3/16/20
24	0629100026	114 N Cedar Lake Rd	Jisela & Gustavo Ruiz
25	0629106011	302 N Cedar Lake Rd	E Oca C Hernandez and Y Hernandez
26	0629106010	304 N Cedar Lake Rd	Jose A & Maria Hernandez Sr
27	0629106009	306 N Cedar Lake Rd	Joseph A. Inserra
28	0629106008	413 Railroad Ave	Joseph A. Inserra
29	0629104002	387 N Cedar Lake Rd	Joseph Goetzinger
30	0629113001	649 W Nippersink Rd	Joyce Lawson
31	0629101003	0 IL Route 134	LBP Properties LLC
32	0629100006	601 Railroad Ave	LBP Properties LLC
33	0629104006	363 N Cedar Lake Rd	M & D Kohlmeyer Trust
34	0629104005	369 N Cedar Lake Rd	M & D Kohlmeyer Trust
35	0629217004	313 Nippersink Ave	Mark & Jeanne Amann
36	0629114018	603 W Aviron Ave	Martin Mancera
37	0629100025	118 N Cedar Lake Rd	Mary R Sosinski-Fuller
38	0629105011	374 Goodnow Blvd	Michelle L Larnison
39	0629100065	423 W Nippersink Rd	Mr. & Mrs. Anthony L Rodkey

40	0629100024	120 N Cedar Lake Rd	Phillip Hermano
41	0629101001	707 Railroad Ave	PPG Partners LLC
42	0629114008	620 W Nippersink Rd	Randall G & Tami T Bevis
43	0629217006	309 Nippersink Ave	Richard & Paula Capparelli
44	0629217005	311 Nippersink Ave	Richard J Capparelli
45	0629113002	641 W Nippersink Rd	Robert S Sr. & Lesley W Magna, TTEES
46	0629301001	19 N Cedar Lake Rd	Robert Watts
47	0629100027	110 N Cedar Lake Rd	Roberto & Maria C Ortiz
48	0629213002	314 Railroad Ave	Ronald Jahns
49	0629103008	407 N Cedar Lake Rd	Saul D. Vivero
50	0629114007	0 W Nippersink Rd	Sergio Rodriguez
51	0629100038	421 W Nippersink Rd	Silverio Morales
52	0629104004	375 N Cedar Lake Rd	Stevenn Frangos Revocable Trust
53	0629107014	322 Nippersink Rd	Stone Enterprises Round Lake LLC
54	0629107013	320 W Nippersink Rd	Stone Enterprises Round Lake LLC
55	0629107012	318 Nippersink Rd	Stone Enterprises Round Lake LLC
56	0629107011	320 Nippersink Rd	Stone Enterprises Round Lake LLC
57	0629100031	100 N Cedar Lake Rd	Theresa Seibert
58	0629100023	122 N Cedar Lake Rd	Thomas J Weldt
59	0629218001	0 Nippersink Ave	Trust 60120904
60	0629218002	303 Nippersink Ave	Trust 60120904
61	0629218003	0 Nippersink Ave	Trust 60120904
62	0629217001	319 Nippersink Ave	V I P Holding Co.
63	0629217002	317 Nippersink Ave	V I P Holding Co.
64	0629217003	315 Nippersink Ave	V I P Holding Co.
65	0629104003	0 Cedar Lake Rd	Wayne Hummer #85-120
66	0629113003	633 W Nippersink Rd	William A & Kimberly A Magna
67	0629105010	499 Railroad Ave	Yannis Lazariotis
68	0629100047	0 IL Route 134	Metra
69	0629100040	314 N Cedar Lake Rd	Regional Transportation Authority
70	0629200004	357 N Cedar Lake Rd	Regional Transportation Authority
71	0629100061	0 Nippersink Ave	Village of Round Lake
72	0629100013	0 Railroad Ave	Village of Round Lake
73	0629100088	501 Railroad Ave	Village of Round Lake
74	0629105008	0 Goodnow Ave	Village of Round Lake
75	0629100089	545 Railroad Ave	Village of Round Lake
76	0629101029	0 Railroad Ave	Village of Round Lake
77	0629101028	701 W Railroad Ave	Village of Round Lake
78	0629100074	0 Railroad Ave	Village of Round Lake
79	0629100073	0 Hart Rd	Village of Round Lake
80	0629100069	0 Cedar Lake Rd	Village of Round Lake

81	0629100070	0 Cedar Lake Rd	Village of Round Lake
82	0629102015	0 Cedar Lake Rd	Village of Round Lake
83	0629102014	380 N Cedar Lake Rd	Village of Round Lake
84	0629102013	386 N Cedar Lake Rd	Village of Round Lake
85	0629102012	0 Cedar Lake Rd	Village of Round Lake
86	0629102011	0 Cedar Lake Rd	Village of Round Lake
87	0629102010	418 N Cedar Lake Rd	Village of Round Lake
88	0629102009	424 N Cedar Lake Rd	Village of Round Lake
89	0629102008	428 N Cedar Lake Rd	Village of Round Lake
90	0629102007	430 N Cedar Lake Rd	Village of Round Lake
91	0629102006	442 N Cedar Lake Rd	Village of Round Lake
92	0629102001	0 Cedar Lake Rd	Village of Round Lake
93	0629103010	0 Cedar Lake Rd	Village of Round Lake
94	0620300020	0 Cedar Lake Rd	Village of Round Lake

Phase II Engineering – Detailed Scope of Services

Contents

1. Data Collection	1
2. Downtown Streetscape Improvements	1
3. Field Investigations and Land Surveys	1
4. Plats & Legals.....	2
5. Land Acquisition Services.....	4
6. Environmental and Permitting.....	4
7. Geotechnical Investigations and Reports	5
8. Preliminary Design Studies.....	5
9. Roadway Plans.....	6
10. Train Station Plans	10
11. Specifications	11
12. Quantities and Cost Estimates	11
13. Utility Locates and Coordination.....	12
14. Public Involvement	13
15. Meetings and Coordination.....	13
16. QA and Constructability Reviews	14
17. RAISE Grant Assistance	15
18. Construction Phase Services	15
19. Project Administration.....	15

Tasks

1. Data Collection

- a. Drone Video
 - 1. Video along each roadway (each direction) for reference during design and use in before/after presentations.
- b. Updated Aerial Imagery from Lake County
- c. Distribute Phase I studies to subconsultants
- d. Site Visits – nominal 10 trips

2. Downtown Streetscape Improvements

- a. Hitchcock Design Group is a subconsultant and will integrate select elements of the Downtown Streetscape Plan developed by Teska for the Village of Round Lake.
- b. Obtain and Review information and files from Teska
- c. Coordination of elements to be incorporated into Lake County plans
- d. Incorporate Hitchcock CADD files and sheets into Microstation Contract Drawings
- e. Incorporate Streetscape Specifications into Project Specifications
- f. Incorporate Streetscape Pay Items and Quantities into Project SOQ
- g. Incorporate Streetscape Cost Estimate into Project Cost Estimate
- h. Coordinate Streetscape costs with Village of Round Lake

3. Field Investigations and Land Surveys

- a. Update DTM to ORD compatible terrain
- b. Pickup Surveys as needed
 - 1. Topographic Survey and Drainage Surveys performed Phase I
 - 2. Provide time for additional survey if any site conditions have changed since the Phase I survey.
 - 3. Provide time for additional more-detailed survey in newly added downtown streetscape areas
- c. Plot of any updates to topography
 - 1. Download survey data/points
 - 2. Create existing conditions plan view
 - 3. Update existing Digital Terrain Model (DTM)
- d. Plan in hand walkthrough by engineer and QA review of base mapping and existing contours/DTM
- e. QA updates based upon walkthrough (ASE)
- f. Field Tile Investigations – Huddleston McBride
 - 1. Perform field tile investigations on the undeveloped Village of Round Lake property to establish any unknown outlets or field tiles that should be maintained or removed during construction
 - 2. Bring found field tiles into basemapping

- g. Geotechnical – soil boring and pavement core layout and pickup survey
- h. Update base-mapping based upon detailed Tree Survey by biologist

4. Plats & Legals

- a. Work prior to Field Activities for Land Survey
 - 1. Preparation, planning and coordination for scoping field surveys/research
 - 2. Courthouse/record research for deeds, plats, easements, etc. (prior to Title)
 - 3. Assemble vesting deeds and record plats (prior to Title)
 - 4. Coordinate ROW documentation from state/county/municipal jurisdictions
 - 5. Ownership spreadsheet with tax parcel numbers
 - 6. Monument record research for PLSS
 - 7. Draft existing recorded documents prior to field survey
 - 8. Create staking list with coordinates for boundary search parameters
 - 9. Project Management & Coordination/communication/scheduling
 - 10. Mobilization if required
- b. Land Survey Field Work Boundary/Property/ROW lines
 - 1. Mobilization
 - 2. Traffic control setup each day at site
 - 3. Special Considerations – Railroad coordination for surveys
 - 4. Locate, establish and confirm project horizontal datum
 - 5. Field search and recovery of Boundary/Property/ROW/Section Corners
 - 6. Coordinate ROE and Flaggers with Metra for work near MD-N
 - 7. Set primary control points for collection of corners
 - 8. Field locate Boundary/Property/ROW/Section corners with equipment
 - 9. Field locate evidence of fences, structures and lines of possession
 - 10. Field notes, sketches and ties for record
 - 11. Additional pickup surveys for calculates/missing corners
 - 12. Project Management & Coordination/communication/scheduling
- c. Land Survey Office Work for establishment of Boundary/Property/ROW lines
 - 1. Process Survey data
 - 2. Review of field notes and raw data files
 - 3. Electronic drawing creation and update design file references
 - 4. Detail limits of out of scope areas by incorporating GIS linework and aerials
 - 5. PLS review of A2 information of deeds, plats, easements, etc. (prior to Title)

6. Analysis and evaluation by PLS of record documents with field survey results
7. Special Considerations – Railroad work
8. Boundary Drawing preparation and finalize linework by PLS
9. QA/QC of survey deliverables
- d. Finalize Parcel Documentation and Calculate Acquisition Limits
 1. Review proposed improvements and grading limits with land survey boundaries
 2. Confirm impacted parcels
 3. Analysis of title report/commitment
 4. Plot encumbrances of record per commitment
 5. PLS QA/QC review of title analysis and encumbrances
 6. Confirm right of way and easement acquisitions with client
 7. COGO preliminary total holdings, takes and/or easements
 8. Create report areas for each acquisition
 9. PLS QA/QC review of area report and COGO
 10. Create preliminary legal description from COGO report
 11. Project management & coordination/communication/scheduling
- e. Plat of Highways
 1. POH Cover Sheet
 2. POH Index Sheet
 3. Preliminary Sheet layout for POH
 4. Preliminary POH ROW Preparation (labeling, tables, coordinates)
 5. Preliminary POH Easement Preparation (labeling, tables, coordinates)
 6. Preliminary Legal Description Preparation
 7. Prefinal POH Preparation – Address Comments
 8. Prefinal Legal Description Preparation – Address Comments
 9. Final POH Preparation
 10. Final Legal Description Preparation
 11. Sign, Seal and Certification of Final Documentation with Distribution
 12. Approval Process of Submittals and Correspondence
 13. Project Management and coordination / communication/ scheduling/QAQC
- f. Preliminary Staking ROW / Easements for Negotiation Purposes
 1. Field Staking during negotiations
 2. Staking calculations and land acquisition coordination
- g. Final Staking of ROW / Easement Limits
 1. 40 parcels with 4 corners per parcel assumed on average
 2. Coordinate Staking Coordinates – Office Prep
- h. Plats & Legals for Split Excess Property to Different Jurisdictions
 1. Preliminary Submittal – assume 10 parcels being split
 2. Internal Coordination Time

3. Final Submittal – assume 10 parcels being split

5. Land Acquisition Services

- a. Data Collection and Review – 94 Parcels
- b. Construction plan & ROW document coordination
- c. Update Conceptual Land Acquisition Costs for budgeting (after ROW model updates) before appraisals
- d. Bi-weekly Coordination Meetings with LCDOT Staff
- e. IDOT Bureau of Land Acquisition Coordination
- f. Parcel Appraisal Services (70 takes) – this work to be performed by multiple IDOT-certified appraisers TBD, direct costs assumed
- g. Parcel Review Appraisal Services (70 Takes)
- h. Negotiation Services (70 takes)
- i. Relocation Services
 - 1. Village Hall Annex Building – 442 N Cedar Lake Rd
 - 2. Commercial Address – 444 N Cedar Lake Rd
 - a. Assume 1 business
 - 3. Commercial Address – 448 N Cedar Lake Rd
 - a. Assume 3 businesses (2 tenants and 1 owner business)
 - 4. Commercial Address – 460 N Cedar Lake Rd
 - a. Assume 2 businesses (1 tenant and 1 owner business)
 - b. Factor in 6 relocations for individual chairs (tenant)
 - 5. Lumberyard Property – 314 Railroad Avenue
 - 6. Residential Address – 604 W Nippersink Rd

6. Environmental and Permitting

- a. Tree Survey and Mitigation Plan
- b. Update Wetland Delineations (if necessary; 3-year expiration)
- c. Local PESA validation
- d. Update Local PESA (if necessary; 3-year expiration)
- e. State PESA validation and PSI Coordination
- f. Local PSI (Fehr Graham)
- g. Storm Water Permitting (LCSSMC)
- h. Jurisdictional Wetland Permitting (LCSSMC/USACE)
- i. Isolated Wetland Permitting (LCSSMC)
- j. Storm Water Pollution Prevention Plan (SWPPP)
 - 1. Plan Sheets included with roadway and train station plans task
 - 2. IDOT BDE Form 2342
 - 3. Submit NPDES (IEPA NOI Form)
- k. Erosion Control Permitting (LCSSMC)
- l. IEPA Watermain Permitting – For any relocations or new watermain

- m. Coordinate Update of Environmental Clearances with IDOT (Biological, Cultural, Wetlands, Special Waste)
7. Geotechnical Investigations and Reports
- a. Advance Geotechnical Field Work Meeting with LCDOT
 - b. Soil Borings, Pavement Cores, and Roadway Geotechnical Report, including site work at the Metra Station and retaining wall design considerations, to be performed by CTL. Permeability of soils at proposed detention ponds shall also be evaluated.
 - c. Review Report and Provide Comments
 - d. Coordinate results with LCDOT
 - e. Incorporate Recommendations into PS&E
8. Preliminary Design Studies
- a. Finalize horizontal alignment based upon existing ROW as developed by Land Surveyors
 - b. Finalize vertical alignments (profiles)
 - c. Model all the roadways, including retaining walls using Open Roads
 - d. Model all the detention ponds using Open Roads
 - e. Prepare a subsurface 3D model of existing pavements, sidewalks, and top soil based upon available as-built and geotechnical information
 - f. Prepare a DTM model of proposed improvements using Open Roads and create proposed contours
 - g. Finalize the project construction limits (footprint) to move forward with proposed ROW and easement linework for plats & legals
 - h. Transportation Management Plan
 - 1. Executive Summary
 - 2. Request for Exception to Compliance (If Needed)
 - 3. Project Description:
 - a. Background
 - b. Project Description
 - c. Location Map
 - d. Construction Staging/Phasing
 - e. Construction Schedule/Timeline
 - f. Interaction with other projects
 - 4. Existing Conditions
 - a. Existing traffic data, counts and queues
 - b. Incident, crash data and analysis
 - c. Local community and business concerns
 - d. Traffic growth rates (anticipate future construction dates)
 - 5. Traffic Control Plan (TCP)
 - a. Describe Traffic Control Plan (and alternatives, if considered)

- a. Safety impacts of TCP alternatives
 - b. Mobility – Predicted queues and delays, method used
 - c. Costs associated with TCP alternatives
 - b. Evaluation and Selection of TCP alternative
 - c. Traffic Control Plan Sheets for selected alternative
 - 6. PIP (Public Information Plan)
 - a. Strategies to inform the public of construction activities
 - b. Strategies to inform motorists on and around the project
 - c. Promotion of alternative transportation nodes
 - 7. TOP (Transportation Operations Plan)
 - a. Work zone safety management strategies
 - b. Traffic and incident management, enforcement strategies
 - 8. TMP Implementation and Monitoring
 - a. Monitoring plan
 - b. Contingency plans for incidents, excessive queue or delay
 - i. Pavement Design
 - 1. Proposed Cedar Lake Road
 - 2. Nippersink Rd
 - 3. Aylon Avenue
 - 4. IL 134
 - 5. Hart Road (assume match recent reconstruction)
 - 6. Existing Cedar Lake Road
 - 7. School and Church Entrance Relocations
9. Roadway Plans
 - a. Upfront Sheets
 - 1. Cover Sheet
 - a. Prepare for multiple volumes
 - 2. Signature Sheet
 - 3. Index of Sheets
 - a. Prepare for multiple volumes
 - 4. General Notes and Commitments
 - 5. Mix Requirements & Highway Standards
 - 6. Utility Plan Relocation Matrix
 - 7. General Site Plan – Overall layout of project
 - b. Summary of Quantities
 - c. Typical Sections / Pavement Design
 - 1. Proposed Cedar Lake Road
 - 2. Nippersink Rd
 - 3. Aylon Avenue
 - 4. IL 134
 - 5. Hart Road
 - 6. Existing Cedar Lake Road

- 7. School and Church Entrance Relocations
- d. Schedules of Quantities
 - 1. Schedules will be prepared per LCDOT Plan Preparation Guidelines which includes all pay items excluding lump sum, contingency, signals, and structural items.
- e. Alignments, Ties & Benchmarks
- f. Removal Plans
 - 1. Buildings
 - 2. Cedar Lake Road (South)
 - 3. Nippersink Road
 - 4. Aylon Avenue
 - 5. IL 134
 - 6. Hart Road
 - 7. Existing Cedar Lake Road (North)
- g. Roadway Plan and Profiles
 - 1. Proposed Cedar Lake Road
 - 2. Nippersink Road
 - 3. Aylon Avenue
 - 4. IL 134 (Railroad Avenue)
 - 5. Hart Road
 - 6. Existing Cedar Lake Road
 - 7. Church Entrance Relocation
 - 8. School Exit Relocation
- h. Grading Plans
 - 1. Roadways
 - 2. Detention Ponds
 - 3. Intersection
- i. Suggested Sequence of Construction
 - 1. Pre-Stage
 - a. MOT IL 134
 - b. Off Roadway Building Demolition (Highway Standards)
 - 2. Stage 1
 - a. MOT IL 134
 - b. MOT Cedar Lake Road (South)
 - c. MOT Cedar Lake Road (North)
 - d. MOT Hart Road
 - e. MOT Magee Middle School Drive Relocation
 - f. Closure and Detour – Nippersink Road (West)
 - g. Closure and Reassign Parking – Metra Parking SE
 - 3. Stage 2
 - a. MOT IL 134
 - b. MOT Cedar Lake Road (South)
 - c. MOT Cedar Lake Road (North)

- d. MOT Hart Road
 - e. MOT Existing Cedar Lake Road (North)
 - f. MOT Nippersink Road
 - g. MOT Church Entrance Reconstruction
 - h. Closure and Detour – Aylon Avenue
 - i. Turn restriction Detour – IL 134
 - j. Closure and Reassign Parking – Metra Parking SW
- 4. Stage 3
 - a. MOT IL 134
 - b. MOT Cedar Lake Road (South)
 - c. MOT Cedar Lake Road (North)
 - d. MOT Hart Road
 - e. MOT Existing Cedar Lake Road (North)
 - f. Closure and Detour – Goodnow Boulevard
- 5. Stage 4
 - a. MOT IL 134
 - b. MOT Cedar Lake Road (South)
 - c. MOT Cedar Lake Road (North)
 - d. MOT Nippersink Road
 - e. MOT Hart Road
 - f. MOT Existing Cedar Lake Road (North)
 - g. Closure and Detour – Nippersink Road (Middle)
 - h. Closure and Detour – Nippersink Road (East)
 - i. Closure and Detour – Orchard Street
- 6. Stage 5
 - a. MOT IL 134
 - b. MOT Hart Road
 - c. Closure and Detour - Existing Cedar Lake Road (North)
- j. Soil Erosion and Sediment Control Plans
 - 1. Pre-Stage
 - 2. Stage 1
 - 3. Stage 2
 - 4. Stage 3
 - 5. Stage 4
 - 6. Stage 5
- k. Drainage Plans
 - 1. Table/Schedule
 - 2. Drainage Schedules
 - 3. Drainage Plan and Profiles
 - a. Proposed Cedar Lake Road
 - b. Nippersink Road
 - c. Aylon Avenue
 - d. IL 134 (Railroad Avenue)

- e. Hart Road
- f. Existing Cedar Lake Road
- I. Utility Plans
 - 1. Watermain Plans (New - Village Request)
 - 2. Water and Sanitary Utility Relocations and Adjustments
- m. Plat of Highways - Insert Only, covered by Plats & Legals task
- n. Pavement Jointing and Intersection Plans
- o. ADA and Corner Island Details
- p. Driveway Details (55 Driveways)
- q. Pavement Marking and Signing Plans
- r. Landscaping Plans (Hitchcock Design, CMT integration)
- s. Traffic Signal and Interconnect Plans
 - 1. Traffic Signal Plan Index, Notes, Standards, Special Details
 - 2. IDOT D1 Traffic Signal Detail Sheets
 - 3. Traffic Signal Summary of Quantities
 - 4. Temporary Signal at Ex Cedar Lake Rd at Hart Rd
 - 5. Temporary Signal at Pr Cedar Lake Rd at Hart Rd
 - 6. Permanent Signal at Pr Cedar Lake Rd at Nippersink Rd
 - 7. Permanent Signal at Pr Cedar Lake Rd at IL 134
 - 8. Permanent Signal at Pr Cedar Lake Rd at Hart Rd
 - 9. Interconnect Plans – Nippersink Rd to Washington St
- t. Lighting Plans
 - 1. Intersection Approach Lighting (all approaches) at Cedar Lake Road at Nippersink Road
 - 2. Proposed Cedar Lake Road from Nippersink Road to Hart Road
 - a. Segment Lighting per Round Lake request
 - b. Decorative Poles per Round Lake request
 - 3. Intersection Approach Lighting at Cedar Lake Road at Hart Road
 - 4. Avilon Avenue from Proposed Cedar Lake Road to Goodnow Boulevard
 - a. Segment Lighting per Round Lake request
 - b. Decorative Poles per Round Lake request
 - 5. Intersection Approach Lighting at Proposed Cedar Lake Road at IL 134 (Railroad Avenue)
 - 6. IL 134 from Proposed Cedar Lake Road to Nippersink Road
 - a. Segment Lighting per Round Lake request
 - b. Decorative Poles per Round Lake request
 - c. Relocate some existing lighting
 - 7. Existing Cedar Lake Road from Proposed Cedar Lake Road to Metra Station
 - a. Segment Lighting per Round Lake request
 - b. Decorative Poles per Round Lake request
 - c. Relocate some existing lighting

8. School Entrance lighting relocation
9. Various Intersection Beacon Lighting Relocations and Adjustments
10. Temporary Lighting at Intersection – Hart Rd at Cedar Lake Road
11. Temporary Pedestrian Lighting in Round Lake Downtown
12. Temporary Segment Lighting along IL-134

u. Structural

1. Wall 1 – New, West Side of Cedar Lake Road
2. Wall 2 – Replace, North Side of Nippersink Road
3. Wall 3 – New, South Side of Nippersink Road
4. Overhead Sign Foundation Location 1 (2)
5. Overhead Sign Foundation Location 2 (2)
6. Major Entry Sign Foundation Location 1 (1)
7. Major Entry Sign Foundation Location 2 (1)
8. Major Entry Sign Foundation Location 3 (1)

v. Cross Sections

1. Cross Sections – Proposed Cedar Lake Road
2. Cross Sections – Nippersink Road
3. Cross Sections – Aylon Avenue
4. Cross Sections – IL 134 (Railroad Avenue)
5. Cross Sections – Hart Road
6. Cross Sections – Existing Cedar Lake Road
7. Cross Sections – Church Entrance Relocation
8. Cross Sections – School Exit Relocation
9. Cross Sections – Metra Maintenance Access Drive
10. Cross Sections – Northern Parking
11. Cross Sections – Southern Parking
12. Cross Sections – Detention Pond 1
13. Cross Sections – Detention Pond 2
14. Cross Sections – Detention Pond 3
15. Cross Sections – Detention Pond 4

w. Streetscape Design

10. Train Station Plans

- a. Coordinate Station Plans with Roadway Plans
- b. Electric Charging Stations
- c. Proposed Lighting
 1. Platform
 2. Shelter (external)
 3. Parking
- d. Temporary Lighting
 1. Platform
 2. Shelter
 3. Parking

11. Specifications

- a. Check Sheet for Recurring Special Provisions
- b. Index of Special Provisions
- c. BDE Check Sheet
- d. Project Special Provisions
 - 1. Includes adding LCDOT Special Provisions
- e. Local Roads Special Provisions
- f. SWPPP BDE 2342
- g. Permits
- h. BDE Special Provisions
- i. Submittals
 - 1. Prefinal
 - 2. Final v1
 - 3. Final v2
 - 4. Final v3
 - 5. Final v4

12. Quantities and Cost Estimates

- a. Estimates of Time
 - 1. Preliminary
 - 2. Prefinal
 - 3. Final
- b. Cost Estimate Updates for RAISE Applications
 - 1. 2024
 - 2. 2025
 - 3. 2026
- c. Metra Train Station Improvements (Benesch)
 - 1. CMT Integrate Benesch Estimates into Master Contract
- d. LCDOT Submittals
 - 1. Preliminary
 - 2. Village IGA Estimates – assume 2
 - 3. Metra IGA Estimates – assume 2
 - a. Station
 - b. Crossing
- e. IDOT Submittals
 - 1. Prefinal
 - 2. Final v1
 - 3. Final v2
 - 4. Final v3
 - 5. Final v4

13. Utility Locates and Coordination

- a. JULIE Design Stage Ticket Update (covered by ASE)
- b. American Surveying & Engineering (ASE) to perform SUE – see scope
 - 1. Provide past information and base-mapping
 - 2. Kickoff Meeting with ASE
 - 3. Coordination with ASE
- c. Field Meetings as necessary, assume 5
- d. Update the 2d model of existing utilities based upon SUE
- e. Prepare a subsurface 3D model of all existing utilities, all proposed drainage structures, and all existing drainage structures to remain.
- f. ComEd
 - 1. Conflict Identification
 - 2. Coordination of Conflicts
 - 3. Relocation Plan Review
 - 4. Lighting, Traffic Signal, and Charging Station Service Coordination
- g. Nicor
 - 1. Conflict Identification
 - 2. Coordination of Conflicts
 - 3. Relocation Plan Review
- h. Village of Round Lake (Existing Watermain and Sanitary)
 - 1. Conflict Identification
 - 2. Coordination of Conflicts (covered in meetings & coordination task)
 - 3. Adjustment and Relocation Plans (covered in roadway plan task)
- i. Wide Open West
 - 1. Conflict Identification
 - 2. Coordination of Conflicts
 - 3. Relocation Plan Review
- j. AT&T
 - 1. Conflict Identification
 - 2. Coordination of Conflicts
 - 3. Relocation Plan Review
- k. Comcast
 - 1. Conflict Identification
 - 2. Coordination of Conflicts
 - 3. Relocation Plan Review
- l. CLCJAWA
 - 1. No-Conflict Verification
 - 2. Coordination
 - 3. Assume no conflicts or relocation
- m. New Utility Company 1
 - 1. Conflict Identification
 - 2. Coordination of Conflicts
 - 3. Relocation Plan Review

- n. New Utility Company 2
 - 1. Conflict Identification
 - 2. Coordination of Conflicts
 - 3. Relocation Plan Review

14. Public Involvement

- a. Magee School Coordination of Improvements (Entrance Relocation)
- b. Church Coordination of Improvements (Entrance Relocation)
- c. Downtown Business Coordination of Improvements
- d. BP Access and Site Reconfiguration Coordination
- e. Police and Fire Coordination
- f. Public Information Meeting
 - 1. Notifications
 - a. Notifications in Spanish
 - 2. Presentation
 - a. Presentation in Spanish
 - 3. Boards
 - a. Boards in Spanish
 - 4. Brochures
 - a. Brochures in Spanish
- g. Maintain and Update Project Website
 - 1. Shall have multi-language capabilities built into system

15. Meetings and Coordination

- a. LCDOT
 - 1. LCDOT Kickoff Meeting
 - 2. LCDOT Coordination
 - 3. LCDOT Bi-weekly Coordination Meetings (Land Acquisition and Engineering)
- b. IDOT/FHWA
 - 1. IDOT D1 Phase II Kickoff Meeting
 - 2. IDOT Coordination
 - 3. Plan Submittals
 - 4. Disposition of Comments
 - 5. Transportation Management Plan Coordination
 - 6. Detour Committee
 - 7. Preempted Signal Design Review & Coordination
- c. Round Lake Coordination
 - 1. IGA Coordination
 - 2. Disposition of Village Comments on Plans & Specs
 - 3. Proprietary Item Coordination
 - 4. Watermain (new) Coordination
 - 5. Utility Adjustment Coordination

- 6. Way-finding Signage Coordination
- 7. Tree Replacement Coordination
- 8. Shared Use Path and Sidewalk Coordination
- 9. Warming Shelter and Utility Coordination (Benesch)
- 10. Casing Pipe underneath railroad design
 - a. New Watermain
 - b. Future Utilities
- 11. Streetscape Coordination
- 12. Lighting Design Coordination
- 13. Other Various Coordination with Village
- 14. Construction Staging, Roadway Closures and Detours, Parking Staging
- d. Metra Coordination
 - 1. IGA Coordination
 - a. Construction and Maintenance Agreement
 - b. Land Acquisition
 - c. Cost Sharing (Phase II and Construction)
 - 2. Metra Phase II Kickoff Meeting
 - 3. Coordination and Review of
 - a. Grade Crossing Design
 - b. Warning Device Placement
 - c. PED crossing safety
 - 4. Disposition of Metra Comments (Benesch)
 - 5. Proprietary Item Coordination with Metra Engineering Department (Benesch)
 - 6. Construction Staging, Parking Staging
- e. ICC/FRA Coordination
 - 1. Field Diagnostic Meeting (ICC, Metra, IDOT, FRA)
 - 2. Grade Crossing Safety Design Review & Coordination (1 meeting)
 - 3. Dispositions of Comments
 - 4. Preempted Signal Design Review & Coordination
- f. Pace
 - 1. Pace Coordination for Bus Stops
- g. Lake County Forest Preserve District
 - 1. Coordination of Millennium Trail

16. QA and Constructability Reviews

- a. QA Plan Document
- b. QA Reviews
 - 1. Preliminary Plans and Estimate
 - 2. Prefinal PS&E
 - 3. Final PS&E

17. RAISE Grant Assistance

- a. Coordination of exhibits, data, and cost estimates in 2024
- b. Coordination of exhibits, data, and cost estimates in 2025

18. Construction Phase Services

- a. Respond to contractor questions during bid process
- b. Prepare Addenda – as needed
- c. Respond to contractor requests for information
- d. Shop Drawings Reviews for Retaining Walls Only – 3 total
- e. Initial Coordination with LCDOT and Construction Management Team
 - 1. Assume 24 hours nominal to respond to questions, provide additional information, and help with Round Lake and Metra coordination
- f. **No Field Visits Included**

19. Project Administration

- a. Project startup
- b. Project manual for team members
- c. Create and maintain progress schedule
- d. STP Quarterly Status Updates
- e. Internal Project Team Kickoff Meeting
- f. Budget control
- g. BDE 430 monthly progress report
- h. Review of subconsultant invoices
- i. BDE 430 monthly invoice
- j. Personnel planning, scheduling
- k. Internal project team meetings
- l. Project closeout

Schedule

ID	Task Name	Duration	Start	Finish	2024				2025				2026				2027							
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4		
1	Phase I Study	1875 days	Wed 11/16/16	Tue 1/23/24																				
75	Phase II and Land Acq Procurement	434 days	Fri 3/11/22	Wed 11/8/23																				
88	Phase II Design	681 days	Thu 11/9/23	Thu 6/18/26																				
89	NTP	0 days	Thu 11/9/23	Thu 11/9/23																				
90	Prefinal PS&E	0 days	Fri 8/8/25	Fri 8/8/25																				
91	Final PS&E	0 days	Mon 9/29/25	Mon 9/29/25																				
92	Letting	0 days	Fri 1/16/26	Fri 1/16/26																				
93	Construction Phase Assistance	110 days	Fri 1/16/26	Thu 6/18/26																				
94	Land Acquisition	534 days	Thu 11/9/23	Wed 11/26/25																				
95	NTP	0 days	Thu 11/9/23	Thu 11/9/23																				
96	Plats, Appraisals, Negotiations, Relocations	520 days	Thu 11/9/23	Wed 11/5/25																				
97	ROW Certification	0 days	Wed 11/5/25	Wed 11/5/25																				
98	ROW Certification Deadline	0 days	Wed 11/26/25	Wed 11/26/25																				
99	Phase III Construction	484 days	Fri 1/16/26	Wed 11/24/27																				
100	Agreements	66 days	Fri 1/16/26	Fri 4/17/26																				
101	NTP	0 days	Fri 4/17/26	Fri 4/17/26																				
102	Construction	418 days	Mon 4/20/26	Wed 11/24/27																				

Project: 2023-03-17 Schedule Date: Tue 10/10/23	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			

Prime Cost Estimate of Consultant Services

Local Public Agency Lake County DOT	County Lake	Section Number 02-00065-01-FP
Prime Consultant (Firm) Name Crawford, Murphy & Tilly, Inc.	Prepared By Charles "Tice" Cole	Date 7/28/2023
Consultant / Subconsultant Name Crawford, Murphy & Tilly, Inc.	Job Number 	

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

Remarks

Phase II for the realignment of Cedar Lake Road in downtown Round Lake from Nippersink Road to Hart Road. Includes Metra Train Station Improvements.

PAYROLL ESCALATION TABLE

CONTRACT TERM	31	MONTHS	OVERHEAD RATE	170.76%
START DATE	11/9/2023		COMPLEXITY FACTOR	0
RAISE DATE	1/1/2024		% OF RAISE	2.00%
END DATE	6/8/2026			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	11/9/2023	1/1/2024	2	6.45%
1	1/2/2024	1/1/2025	12	39.48%
2	1/2/2025	1/1/2026	12	40.27%
3	1/2/2026	6/1/2026	5	17.12%

The total escalation = 3.33%

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

Lake County DOT

Lake

02-00065-01-FP

Consultant / Subconsultant Name**Job Number**

Crawford, Murphy & Tilly, Inc.

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	3.33%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal	\$86.00	\$86.00
Project Engineer II	\$78.33	\$80.93
Project Manager II	\$72.77	\$75.19
Project Env Scientist II	\$74.85	\$77.34
Project Struct Engr II	\$81.67	\$84.39
Project Engineer I	\$62.88	\$64.97
Project Manager I	\$60.91	\$62.94
Project Env Scientist I	\$64.78	\$66.93
Project Structural Engr I	\$62.98	\$65.07
Sr. Engineer I	\$46.52	\$48.07
Technical Manager II	\$53.60	\$55.38
Sr. Planner I	\$44.97	\$46.47
Env Scientist III	\$49.30	\$50.94
Sr. Structural Engr II	\$61.73	\$63.78
Sr. Structural Engr I	\$46.79	\$48.35
Engineer I	\$35.31	\$36.48
Env Scientist II	\$43.08	\$44.51
Structural Engineer I	\$35.30	\$36.47
Planner I	\$35.45	\$36.63
Env Scientist I	\$29.55	\$30.53
Technical Manager I	\$31.73	\$32.79
Land Surveyor	\$48.49	\$50.10
Sr. Technician I	\$44.40	\$45.88
Sr. Technician II	\$54.16	\$55.96
Technician II	\$36.67	\$37.89
Technician I	\$29.39	\$30.37
Proj Admin Assistant	\$28.99	\$29.95

Local Public Agency

Lake County DOT

County

Lake

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Crawford, Murphy & Tilly, Inc.

Job Number

DIRECT COSTS WORKSHEET

List ALL direct costs required for this project. Those not listed on the form will not be eligible for reimbursement by the LPA on this project.

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	74992	\$0.66	\$49,119.76
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day			\$0.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost			\$0.00
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
Project Specific Insurance	Actual Cost	1	\$1,500.00	\$1,500.00
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)	2	\$120.00	\$240.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)	1	\$1,486.00	\$1,486.00
Recording Fees	Actual Cost	140	\$70.00	\$9,800.00
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)	5	\$1,500.00	\$7,500.00
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
Field Tile Investigation	Actual Cost	1	\$19,160.00	\$19,160.00
Mailing	Actual Cost	1	\$1,604.00	\$1,604.00
Title Commitments and Updates	Actual Cost	1	\$93,600.00	\$93,600.00
Appraisals	Actual Cost	1	\$223,800.00	\$223,800.00
TOTAL DIRECT COSTS:				\$407,809.76

**Cedar Lake Road Realignment from Nippersink Road to Hart Road
Lake County Division of Transportation**

Estimate of Direct Costs

Crawford, Murphy, and Tilly, Inc.

1	Data Collection			
a	Site Visits			
		miles	\$/mi	total
	10 trips x 116 miles round trip x \$0.655	1160	\$ 0.655	\$ 759.80
	Sub - total			\$759.80
2	Downtown Streetscape Improvements			
a	None			
	Sub - total			\$0.00
3	Field Investigations and Land Surveys			
a	Pickup Surveys			
		miles	\$/mi	total
	15 trips x 116 miles round trip x \$0.655	1740	\$ 0.655	\$ 1,139.70
b	Field Tile Investigation			
	See attached detailed scope and fee by Huddleston McBride			\$ 19,160.00
	Sub - total			\$20,299.70
4	Plats & Legals			
a	Land Survey Field Work Boundary / Property / ROW Lines (Existing)			
		miles	\$/mi	total
	20 trips x 116 miles round trip x \$0.655	2320	\$ 0.655	\$ 1,519.60
b	Field Staking of ROW/PE/TE during Negotiations (Proposed)			
		miles	\$/mi	total
	25 trips x 116 miles round trip x \$0.655	2900	\$ 0.655	\$ 1,899.50
c	Final Staking of ROW Limits (Proposed)			
		miles	\$/mi	total
	32 trips x 116 miles round trip x \$0.655	3712	\$ 0.655	\$ 2,431.36
d	Metra Railroad Right of Entry Permit			
		permits	\$/permit	total
	1 ROE permit for boundary work at MD-N	1	\$ 1,500.000	\$ 1,500.00
e	Railroad Flaggers			
		days	\$/day	total
	Railroad Flaggers for boundary work	5	\$ 1,500.000	\$ 7,500.00
	Sub - total			\$14,850.46

**Cedar Lake Road Realignment from Nippersink Road to Hart Road
Lake County Division of Transportation**

Estimate of Direct Costs

Crawford, Murphy, and Tilly, Inc.

5 Land Acquisition Services

a Parcel Appraisal Services

	#	Rate	Total
Residential Temporary Easements	17	\$ 2,700.00	\$45,900.00
Residential Permanent Impacts and Temp Ea	14	\$ 3,000.00	\$42,000.00
Commercial Temp Ease	17	\$ 3,300.00	\$56,100.00
Commercial Permanent Impacts	12	\$ 3,500.00	\$42,000.00
Commercial Displacements	9	\$ 3,700.00	\$33,300.00
Round Lake Village Hall	1	\$ 4,500.00	\$4,500.00
<i>Total</i>	<i>70</i>		<i>\$223,800.00</i>

b Mileage - Parcel Review Appraisals

10 trips, 500 miles per trip at 0.655 \$ per mile	5000	\$	0.655	\$3,275.00
---	------	----	-------	------------

c Mileage - Negotiations

	miles	\$/mi	total
70 Trips from Aurora Office, 100 mi	7000	\$ 0.655	\$4,585.00
70 Trips from Springfield Office, 500 mi	35000	\$ 0.655	\$22,925.00
<i>Total</i>			<i>\$27,510.00</i>

d Certified Mail

	mailings	\$/mailing	total
70 takes x 2 mailings x \$10 per mailing	140	\$ 10.00	\$1,400.00

e Recording Fees

	docs	\$/doc	total
70 takes x 2 docs average x \$70 each	140	\$ 70.00	\$9,800.00

f Mileage - Relocations (2 trips each from SPI, 500 miles round trip)

	miles	\$/mi	total
Village Hall Annex Building (1 tenant)	1000	\$ 0.655	\$655.00
444 N Cedar Lake (1 business)	1000	\$ 0.655	\$655.00
448 N Cedar Lake (1 owner & 2 tenants)	3000	\$ 0.655	\$1,965.00
460 N Cedar Lake (1 owner & 1 tenant)	2000	\$ 0.655	\$1,310.00
6 relocations for individual chairs	6000	\$ 0.655	\$3,930.00
Lumberyard Property	1000	\$ 0.655	\$655.00
604 W Nippersink Rd	1000	\$ 0.655	\$655.00
<i>Total</i>			<i>\$9,825.00</i>

g Title Commitments

	PINs	\$/each	total
Original (\$750)	96	\$ 750.00	\$72,000.00
Updates (3 at \$75)	96	\$ 225.00	\$21,600.00
<i>Total</i>			<i>\$93,600.00</i>

**Note: Two Extra Parcels may need title commitments*

Sub - total

\$369,210.00

**Cedar Lake Road Realignment from Nippersink Road to Hart Road
Lake County Division of Transportation**

Estimate of Direct Costs

Crawford, Murphy, and Tilly, Inc.

6	Environmental and Permitting		
a	IEPA - Watermain - No fee because for Round Lake this was confirmed by Round Lake	\$0.00	
b	LCSMC - Erosion Control, Storm Water, Wetlands assume fees would be taken care of by inter-county transfer	\$0.00	
	Sub - total		\$0.00
7	Geotechnical Investigations and Reports		
a	None		
	Sub - total		\$0.00
8	Preliminary Design Studies		
a	None		
	Sub - total		\$0.00
9	Roadway Plans		
a	None - no printed copies anticipated (.pdf only)		
	Sub - total		\$0.00
10	Train Station Plans		
a	None - no printed copies anticipated (.pdf only)		
	Sub - total		\$0.00
11	Specifications		
a	None - no printed copies anticipated (.pdf only)		
	Sub - total		\$0.00
12	Quantities and Cost Estimates		
a	None - no printed copies anticipated (.pdf only)		
	Sub - total		\$0.00

**Cedar Lake Road Realignment from Nippersink Road to Hart Road
Lake County Division of Transportation**

Estimate of Direct Costs

Crawford, Murphy, and Tilly, Inc.

13 Utility Locates & Coordination

a None

Sub - total

\$0.00

14 Public Outreach

a Boards

	boards	\$/board		total
assume 10	10	\$ 105.00		\$1,050.00

b Notifications - Mailing

	postcards	\$/postcard		total
	400	\$ 0.51		\$204.00

c Notifications - Newspaper Legal

	runs	\$/issue		total
	2	120		\$240.00

d Printed Color Strip Maps - 1 copy

	sq ft	\$/sq ft		total
Cedar Lake 1	17	\$ 4.00	\$	68.00
Cedar Lake 2	22	\$ 4.00	\$	88.00
Hart Road	15	\$ 4.00	\$	60.00
IL 134	33	\$ 4.00	\$	132.00
Nippersink	22	\$ 4.00	\$	88.00

subtotal

\$436.00

Sub - total

\$1,930.00

15 Meetings and Coordination

a General Project Travel:

	miles	\$/mi		total
10 trips x 116 miles round trip x \$0.655	1160	\$ 0.655	\$	759.80
Assume most meetings are virtual				

Sub - total

\$759.80

16 QA and Constructability Reviews

a None

\$0.00

Sub - total

\$0.00

**Cedar Lake Road Realignment from Nippersink Road to Hart Road
Lake County Division of Transportation**

Estimate of Direct Costs

Crawford, Murphy, and Tilly, Inc.

17	RAISE Grant Assistance		
a	None		
		Sub - total	\$0.00
18	Construction Phase Services		
a	None		
		Sub - total	\$0.00
19	Project Administration		
a	None		
		Sub - total	\$0.00

**Sullivan Road
CMT Estimate of Hours**

Cedar Lake Road Realignment Phase II Engineering																	
Task No.	Task Description	Project Engineer II	Project Engineer I	Project Manager I	Project Structural Engineer I	Sr. Engineer I	Technical Manager II	Sr. Planner I	Sr Structural Engineer I	Engineer I	Environmental Scientist II	Technical Manager I	Land Surveyor	Sr. Technician I	Technician I	Project Administrative Assistant	Total Hours
1	Data Collection	-	12	-	8	22	-	-	-	12	-	-	-	-	-	-	54
	a. Drone Video				8												8
	b. Updated Aerial Imagery from Lake County					2											2
	c. Distribute Phase 1 studies to subconsultants		4														4
	d. Site Visits - nominal 10 trips		8			20				12							40
2	Downtown Streetscape Improvements	-	28	-	-	100	-	-	-	56	-	-	-	-	-	-	184
	a. N/A																0
	b. Obtain and Review information and files from Teska		4			4											8
	c. Coordination of elements to be incorporated into plans		8			8											16
	d. Incorporate Hitchcock CADD files into Microstation Plan Sheets					16				56							72
	e. Incorporate Streetscape Specs into Project Specs					40											40
	f. Incorporate Streetscape Pay Items and Quantities into Project SOQ					24											24
	g. Incorporate Streetscape Cost Estimate into Project Cost Estimate					8											8
	h. Coordinate Streetscape costs with Village of Round Lake		16														16
3	Field Investigation and Land Survey	-	-	-	-	46	-	-	-	108	-	-	-	-	152	-	306
	a. Update DTM to ORD compatible terrain					4				4							8
	b. Pickup Surveys as needed														120		120
	c. Plot of any updates to topography																0
	1. Download survey data/points									16					8		24
	2. Create existing conditions plan view					1				16							17
	3. Update existing DTM					1				16							17
	d. Plan in hand walkthrough and QA review of basemapping					16				16							32
	e. QA updates based upon walkthrough					8				16							24
	f. Field Tile Investigations - put CADD from sub into basemapping					8				8							16
	g. Geotechnical soil boring and core layout and pickup survey									8					24		32
	h. Update base-mapping based upon detailed Tree Survey by biologist					8				8							16
4	Plats & Legals	-	20	118	-	-	-	-	-	752	-	-	927	1100	541	-	3458
	a. Work prior to Field activities for Land Survey																
	1. Preparation, planning and coordination for scoping field surveys/research												8				8
	2. Courthouse/record research for deeds, plats, easements, etc. (prior to Title)									32							32
	3. Assemble vesting deeds and record plats (prior to title)									40							40
	4. Coordinate ROW documentation from state/county/municipality jurisdictions			10									10				20
	5. Ownership spreadsheet with tax parcel numbers			10						10							20
	6. Monument record research for PLSS												8				8
	7. Draft existing recorded documents prior to field surveys									40							40
	8. Assemble and compile applicable documentation for field survey												4				4
	9. Create staking list with coordinates for boundary search parameters									10							10
	10. Project management & coordination/communication/scheduling																0
	11. Mobilization if required			10									5				15

**Sullivan Road
CMT Estimate of Hours**

Cedar Lake Road Realignment Phase II Engineering																	
Task No.	Task Description	Project Engineer II	Project Engineer I	Project Manager I	Project Structural Engineer I	Sr. Engineer I	Technical Manager II	Sr. Planner I	Sr Structural Engineer I	Engineer I	Environmental Scientist II	Technical Manager I	Land Surveyor	Sr. Technician I	Technician I	Project Administrative Assistant	Total Hours
	b. Land Survey Field Work Boundary/Property/ROW lines																
	1. Mobilization									5					5		10
	2. Traffic control setup each day at site									5					5		10
	3. Special Considerations - Railroad coordination for surveys																0
	4. Locate, establish and confirm project horizontal datum									4					4		8
	5. Field search and recovery of Boundary/Property/ROW/Section Corners									48					48		96
	6. Coordinate ROE and Flaggers with Metra for work near MD-N												4		4		8
	7. Set primary control points for collection of corners									10					10		20
	8. Field locate Boundary/Property/ROW/Section corners with equipment									10					10		20
	9. Field locate evidence of fences, structures and lines of possession									10					10		20
	10. Field notes, sketches and ties for records									5					5		10
	11. Additional pickup surveys for calculated/missing corners (assume 5 days)									40					40		80
	12. Project management & coordination/communication/scheduling												25				25
	c. Land Survey Office Work for establishment of Boundary/Property/ROW lines																
	1. Process Survey Data													8			8
	2. Review of field notes and raw data files												4	4			8
	3. Electronic drawing creation and update design file references													8			8
	4. Detail limits of out of scope areas by incorporating GIS linework and aerials													8			8
	5. PLS review of A2 information of deeds, plats, easements, etc. (prior to Title)												72				72
	6. Analysis and evaluation by PLS of record documents with field survey results												96				96
	7. Special Considerations - Railroad work																0
	8. Boundary drawing preparation and finalize linework by PLS												24	48			72
	9. QA/QC of survey deliverables			10									10				20
	d. Finalize Parcel Documentation and Calculate Acquisition Limits																
	1. Review proposed improvements & grading limits with land survey boundaries												10	10			20
	2. Confirm impacted parcels									10				10			20
	3. Analysis of title report/commitment									93			93				186
	4. Plot encumbrances of record per commitment									93							93
	5. PLS QA/QC review of title analysis and encumbrances												93				93
	6. Confirm right-of-way and easement acquisitions with client			8													8
	7. Cogo preliminary total holdings, takes and/or easements									93							93
	8. Create report areas for each acquisition									54							54
	9. PLS QA/QC review of area report and cogo												54				54
	10. Create preliminary legal description from cogo report													54			54
	11. Project management & coordination/communication/scheduling			35									40				75

**Sullivan Road
CMT Estimate of Hours**

Cedar Lake Road Realignment Phase II Engineering																	
Task No.	Task Description	Project Engineer II	Project Engineer I	Project Manager I	Project Structural Engineer I	Sr. Engineer I	Technical Manager II	Sr. Planner I	Sr Structural Engineer I	Engineer I	Environmental Scientist II	Technical Manager I	Land Surveyor	Sr. Technician I	Technician I	Project Administrative Assistant	Total Hours
	e. Plat of Highways																
	1. Plat of Highways Cover Sheet (assume 1 sheet)													8			8
	2. Plat of Highways Index Sheet (assume 2-3 sheets)													20			20
	3. Preliminary sheet layout for Plat of Highways (assume 15-20 sheets)													20			20
	4. Preliminary Plat of Highways ROW Preparation (labeling, table preparation, coordinates)													160			160
	5. Preliminary Plat of Highways Easement Preparation (labeling, table preparation, coordinates)													402			402
	6. Preliminary Legal Description Preparation									80			27				107
	7. Pre-Final Plat of Highways Preparation - Address Comments									20			20	40			80
	8. Pre-Final Legal Description Preparation - Address Comments									20			20				40
	9. Final Plat of Highways Preparation									10			10	20			40
	10. Final Legal Description Preparation												20				20
	11. Sign, seal and certification of final documentation with distribution												10				10
	12. Approval process of submittals and correspondence									10			10	20			40
	13. Project management & coordination/communication/scheduling/QAQC			35									40				75
	f. Preliminary Staking Right-of-Way / Easement Limits for Negotiation Purposes																
	1. Field Staking of ROW/PE/TE during negotiations (Assume 25 impacts to be staked)														80		80
	2. Staking calculations and land acquisition coordination												50				50
	g. Final Staking of ROW / Easement Limits																
	1. Assume 4 corners per parcel and only fee simple ROW monumentation (40 parcels)														320		320
	2. Coordinate Staking Coordinates (office)												80				80
	h. Plats & Legals for split excess property to different jurisdictions																
	1. Preliminary Submittal - assume 10 parcels												40	160			200
	2. Internal Coordination Time		20										20	20			60
	3. Final Submittal - assume 10 parcels												20	80			100
																	0

**Sullivan Road
CMT Estimate of Hours**

Cedar Lake Road Realignment Phase II Engineering																	
Task No.	Task Description	Project Engineer II	Project Engineer I	Project Manager I	Project Structural Engineer I	Sr. Engineer I	Technical Manager II	Sr. Planner I	Sr Structural Engineer I	Engineer I	Environmental Scientist II	Technical Manager I	Land Surveyor	Sr. Technician I	Technician I	Project Administrative Assistant	Total Hours
5	Land Acquisition Services	-	-	662	-	-	1208	2686	-	-	-	-	-	-	-	280	4836
	a. Data Collection - 94 PIN Numbers							24									24
	b. Construction and ROW Document Coordination			16													16
	c. Update Conceptual Land Acquisition Cost for Budgeting before Appraisals			8			8										16
	d. Bi-weekly Coordination Meetings with LCDOT Staff (2 staff x 1.5 hr x 36 mo)			54				54									108
	e. IDOT BLA Coordination			8				32									40
	f. Parcel Appraisal Services (70) Manage Sub			16													16
	g. Parcel Review Appraisal Services																
	1. Review Appraisal 70x16 hrs						1120										1120
	2. 10 Trips x 8 hrs						80										80
	h. Negotiation Services																
	1. Negotiations 70 x 24 hrs							1656									1656
	2. Package Prep 70 x 4 hrs															280	280
	3. IDOT Parcel Compliance 70 x 4 hrs							280									280
	i. Relocation Services																
	1. Village Hall Annex Building (1 tenant)			40				40									80
	2. Commercial Property 444 N. Cedar Lake (1 business)			40				40									80
	3. Commercial Property 448 N. Cedar Lake (1 owner, 2 tenants)			120				120									240
	4. Commercial Property 460 N. Cedar Lake (1 owner, 1 tenant)			80				80									160
	5. 6 independent beauty chairs for 460 N. Cedar Lake above			240				240									480
	6. Lumberyard Property			40				40									80
	7. Residential Property 604 W. Nippersink							80									80
6	Environmental / Permitting	-	80	-	-	72	-	-	-	-	404	-	-	-	-	-	556
	a. Tree Survey and Mitigation Plan										120						120
	b. Update Wetland Delineations										40						40
	c. Local PESA validation										8						8
	d. Update Local PESA										24						24
	e. State PESA validation and PSI Coordination										4						4
	f. Local PSI (CMT Review)										8						8
	g. Storm Water Permitting (LCSMC)		80														80
	h. Jurisdictional Wetland Permitting (LCSMC/USACE)										80						80
	i. Isolated Wetland Permitting (LCSMC)										80						80
	j. Storm Water Pollution Prevention Plan (SWPPP)					16											16
	k. Erosion Control Permitting (LCSMC)					16											16
	l. IEPA Watermain Permitting					40											40
	m. Coordinate update of environmental clearances with IDOT										40						40
7	Geotechnical Investigations & Reports	-	24	-	18	40	-	-	-	16	-	-	-	-	-	-	98
	a. Advance Geotechnical Field Work Meeting with LCDOT		8		2	8											18
	b. Coordinate with CTL for field work and report		8			8											16
	d. Review Report and Provide Comments				8	8											16
	d. Coordinate results with LCDOT		8			8											16
	e. Incorporate Recommendations into PS&E				8	8				16							32

**Sullivan Road
CMT Estimate of Hours**

Cedar Lake Road Realignment Phase II Engineering																	
Task No.	Task Description	Project Engineer II	Project Engineer I	Project Manager I	Project Structural Engineer I	Sr. Engineer I	Technical Manager II	Sr. Planner I	Sr Structural Engineer I	Engineer I	Environmental Scientist II	Technical Manager I	Land Surveyor	Sr. Technician I	Technician I	Project Administrative Assistant	Total Hours
8	Preliminary Design Studies	-	12	-	-	960	-	-	-	16	-	-	-	-	-	-	988
	a. Finalize horizontal alignment		4			16											20
	b. Finalize vertical alignments					24											24
	c. Model all roadways in ORD (see scope for lengths of roadways)																0
	1. Cedar Lake Rd					200											200
	2. Nippersink Rd					80											80
	3. Aylon Ave					40											40
	4. Goodnow Blvd					8											8
	5. IL 134					160											160
	6. Nippersink Rd at IL 134					8											8
	7. Hart Rd					24											24
	8. Ex Cedar Lake Rd					40											40
	9. Lakewood Terrace					8											8
	10. Village Hall RI/RO					8											8
	11. Ace Entrance					8											8
	12. Church Entrance Relocation					8											8
	13. School Entrance Relocation					16											16
	d. Model all detention ponds in ORD (4 total)					64											64
	e. Prepare subsurface model of existing terrain					120											120
	f. Prepare proposed DTM (merge surfaces) and generate proposed contours					40											40
	g. Finalize construction limits for Proposed ROW		8			8											16
	h. Transportation Management Plan																0
	1. Executive Summary					4											4
	2. Request for Exception to Compliance					2											2
	3. Project Description					16											16
	4. Existing Conditions					16											16
	5. Traffic Control Plan					16											16
	6. Public Information Plan					8											8
	7. Transportation Operations Plan					8											8
	8. TMP Implementation and Monitoring					8											8
	i. Pavement Design (7 roadways)					2				16							18
9	Roadway Plans	-	707	-	80	2826	-	-	215	3237	-	-	-	-	-	-	7065
	a. See Sheet Detail Table of Hours by Submittal		707		80	2826			215	3237							7065
10	Train Station Plans	10	48	-	-	88	-	-	-	264	-	-	-	-	-	-	410
	a. Coordinate Station Plans with Roadway Plans		40			80				80							200
	b. Electric Charging Stations	4	2			2				80							88
	c. Lighting																0
	1. Platform	2	2			2				40							46
	2. Warming Shelters	2	2			2				24							30
	3. Parking	2	2			2				40							46
11	Specifications	-	-	-	-	97	-	-	-	97	-	-	-	-	-	-	194
	a. See Spec Detail Table of Hours by Submittal					97				97							194

**Sullivan Road
CMT Estimate of Hours**

Cedar Lake Road Realignment Phase II Engineering																	
Task No.	Task Description	Project Engineer II	Project Engineer I	Project Manager I	Project Structural Engineer I	Sr. Engineer I	Technical Manager II	Sr. Planner I	Sr Structural Engineer I	Engineer I	Environmental Scientist II	Technical Manager I	Land Surveyor	Sr. Technician I	Technician I	Project Administrative Assistant	Total Hours
12	Quantities and Cost Estimates	-	38	-	-	317	-	-	-	322	-	-	-	-	-	-	677
	a. Estimate of Time																0
	1. Preliminary		1			8				16							25
	2. Prefinal					4				4							8
	3. Final					1				2							3
	b. Updates for RAISE Applications																0
	1. 2024		2			24				8							34
	2. 2025		2			24				8							34
	3. 2026		2			24				8							34
	c. Integrate Metra Train Station Improvements Cost Estimates (by Benesch)		5			40				20							65
	d. LCDOT Submittals																0
	1. Preliminary		4			40				80							124
	2. Village IGA Estimates (2)		4			32				16							52
	3. Metra IGA Estimates (2)		4			32				16							52
	e. IDOT Submittals																0
	1. Prefinal		4			40				80							124
	2. Final v1		4			24				40							68
	3. Final v2		2			8				8							18
	4. Final v3		2			8				8							18
	5. Final v4		2			8				8							18
13	Utility Locates and Coordination	-	8	-	-	130	-	-	-	234	-	-	-	-	-	-	372
	a. N/A																
	b. Coordinate with ASE for SUE		8			16											24
	c. Field Meetings as necessary, assume 5					15				45							60
	d. Update 2d model of existing utilities					8				40							48
	e. 3d model of existing utilities and drainage					16				80							96
	f. ComEd					24				16							40
	g. Nicor					8				8							16
	h. Village of Round Lake (watermain and sanitary)					2				4							6
	i. Wide Open West					8				8							16
	j. AT&T					8				8							16
	k. Comcast					8				8							16
	l. CLCJAWA					1				1							2
	m. New Utility Company 1					8				8							16
	n. New Utility Company 2					8				8							16

**Sullivan Road
CMT Estimate of Hours**

Cedar Lake Road Realignment Phase II Engineering																	
Task No.	Task Description	Project Engineer II	Project Engineer I	Project Manager I	Project Structural Engineer I	Sr. Engineer I	Technical Manager II	Sr. Planner I	Sr Structural Engineer I	Engineer I	Environmental Scientist II	Technical Manager I	Land Surveyor	Sr. Technician I	Technician I	Project Administrative Assistant	Total Hours
14	Public Involvement	-	118	-	-	88	-	-	-	-	-	112	-	-	-	40	358
	a. Magee School Coordination		8			8											16
	b. Church Coordination		8			8											16
	c. Downtown Business Coordination		8			8											16
	d. BP Access and Site Reconfiguration Coordination		8			8											16
	e. Police and Fire Coordination		8			8											16
	f. Public Information Meeting (all with Spanish Translation)																0
	1. Notifications		4			8										16	28
	2. Presentation		40			16						16				8	80
	3. Boards		16			16						40				8	80
	4. Brochures / Handouts		8			8						16				8	40
	g. Maintain and Update Project Website		10									40					50
15	Meetings and Coordination	-	632	376	-	692	-	-	-	-	40	-	-	-	-	-	1740
	a. LCDOT																0
	1. LCDOT Kickoff Meeting		4	4		4											12
	2. LCDOT Coordination		248	248		96											592
	3. LCDOT Bi-weekly Coordination Meetings (Land Acq and Engr)		124	124		124											372
	b. IDOT/FHWA																0
	1. IDOT D1 Phase II Kickoff Meeting		2			2											4
	2. IDOT Coordination		16			40											56
	3. Plan Submittals					10											10
	4. Disposition of Comments		4			40											44
	5. TMP Coordination		2			4											6
	6. Detour Committee		2			8											10
	7. Preempted Signal Design Review & Coordination		8			40											48
	c. Round Lake																0
	1. IGA Coordination		40			16											56
	2. Disposition of Round Lake Comments		8			16											24
	3. Proprietary Item Coordination					4											4
	4. Watermain (new) Coordination		2			16											18
	5. Utility Adjustment Coordination		2			16											18
	6. Way-finding Signage Coordination		4			16											20
	7. Tree Replacement Coordination		8			8					40						56
	8. Shared Use Path and Sidewalk Coordination		4			8											12
	9. Warming Shelter and Utility Coordination (Benesch)																0
	10. Casing Pipe underneath railroad design		2			16											18
	11. Streetscape Coordination		8			16											24
	12. Lighting Design Coordination		8			16											24
	13. Other Various Coordination with Village		8			8											16
	14. Construction Staging, Closures and Detours, Parking Staging		8			8											16
	d. Metra																0
	1. IGA Coordination		40			16											56
	2. Metra Phase II Kickoff Meeting		4			8											12
	3. Coordination and Review Meetings		40			40											80
	4. Disposition of Metra Comments (Benesch)																0
	5. Proprietary Item Coordination with Metra Engr. Dept (Benesch)																0
	6. Construction Staging, Parking Staging Coordination		16			16											32

**Sullivan Road
CMT Estimate of Hours**

Cedar Lake Road Realignment Phase II Engineering																	
Task No.	Task Description	Project Engineer II	Project Engineer I	Project Manager I	Project Structural Engineer I	Sr. Engineer I	Technical Manager II	Sr. Planner I	Sr Structural Engineer I	Engineer I	Environmental Scientist II	Technical Manager I	Land Surveyor	Sr. Technician I	Technician I	Project Administrative Assistant	Total Hours
	e. ICC/FRA																0
	1. Field Diagnostic Meeting		4			8											12
	2. Grade Crossing Safety Design Review & Coordination (1 Mtg)		4			8											12
	3. Dispositions of Comments					8											8
	4. Preempted Signal Design Review & Coordination		4			40											44
	f. Pace		4			8											12
	g. Lake County Forest Preserve District		4			8											12
16	QA and Constructability Reviews	12	248	-	-	-	-	-	-	-	-	-	-	-	-	-	260
	a. QA Plan Document		8														8
	b. QA Reviews																0
	1. Preliminary Plans and Estimate	4	80														84
	2. Prefinal PS&E	4	80														84
	3. Final PS&E	4	80														84
17	RAISE Grant Assistance	-	16	-	-	64	-	-	-	-	-	-	-	-	-	-	80
	a. Coordination of exhibits, data, and cost estimates in 2024		8			32											40
	b. Coordination of exhibits, data, and cost estimates in 2025		8			32											40
18	Construction Phase Services	-	48	-	18	52	-	-	-	-	-	-	-	-	-	-	118
	a. Respond to Bidder Questions		16			16											32
	b. Prepare Addenda - as needed		16			16											32
	c. Respond to RFI's		4			8											12
	d. Structural Shop Drawing Reviews for 3 walls - 6 hours each				18												18
	e. Initial Coordination with LCDOT RE and Construction Management Team		12			12											24
19	Project Administration	-	264	66	2	26	2	4	-	20	2	-	2	2	-	-	390
	a. Project startup in accounting		8														8
	b. Project manual for team members		8			4											12
	c. Set-up/Update Project Schedule		48	48													96
	d. STP Quarterly Status Updates		16														16
	e. Internal Project Team Kickoff Meeting		4	2	2	6	2	4		4	2		2	2			30
	f. Budget Control		31														31
	g. Monthly Progress Report		31														31
	h. Review of Subconsultant Invoices		24														24
	i. Monthly Invoices		31														31
	j. Personnel planning, scheduling		31														31
	k. Internal project team meetings		16	16		16				16							64
	l. Project Closeout		16														16
	Total CMT Hours	22	2303	1222	126	5620	1210	2690	215	5134	446	112	929	1102	693	320	22144

Roadway Plans - Sheet Hour Detail

Submittals	Revision											Total	
	Preliminary			Final v1		Final v2		Final v3		Final v4			
	sheets	hrs/sheet	hrs	hrs/sheet	hrs	hrs/sheet	hrs	hrs/sheet	hrs	hrs/sheet	hrs		
1	Cover Sheet	5	3.2	16	0.4	2	0.2	1	0.2	1	0.2	1	21
2	Signature Sheet	2	1	2	1	2	1	2	1	2	1	2	10
3	Index of Sheets	5	1.6	8	0.2	1	0.2	1	0.2	1	0.2	1	12
4	Gen Notes, Commitments, Hwy Standards	1	16	16	2	2	1	1	1	1	1	1	21
5	General Site Plan	1	8	8	1	1	1	1	1	1	1	1	12
6	Summary of Quantities	25	1	25	0.64	16	0.32	8	0.32	8	0.32	8	65
7	Typ Sections, Pave Design, Mix Req	20	4	80	1	20	0.40	8	0.40	8	0.20	4	120
8	Schedules of Quantities												
	Earthwork Schedule	1	16	16	2.00	2	2.00	2	2.00	2	1.00	1	23
	Tree Schedule	30	2	60	0.27	8	0.13	4	0.03	1	0.00	0	73
	All Other PI (x115) (average 10 PI per sheet)	12	8	96	4.00	48	1.00	12	1.00	12	1.00	12	180
9	Alignments, Ties and Benchmarkes	5	16	80	1.6	8	0.20	1	0.00	0	0.00	0	89
10	Removal Plans	33	8	264	1	33	0.24	8	0.00	0	0.00	0	305
11	Roadway PnPs	28	8	224	1	28	0.29	8	0.00	0	0.00	0	260
12	Grading Plans	33	4	132	1	33	0.24	8	0.00	0	0.00	0	173
13	Suggested Sequence of Construction	75	8	600	1	75	0.21	16	0.00	0	0.00	0	691
14	SESC Plans	90	8	720	1	90	0.18	16	0.00	0	0.00	0	826
15	Drainage PnPs	35	16	560	2	70	0.46	16	0.23	8	0.11	4	658
16	Drainage Schedules	18	4	72	0.44	8	0.22	4	0.22	4	0.06	1	89
17	Water and Sanitary Adjustments & Reloc	19	4	76	1	19	0.42	8	0.21	4	0.00	0	107
18	Plat of Highways (Insert)	20	0.4	8	0.05	1	0.05	1	0.00	0	0.00	0	10
19	Intersection Details	10	8	80	1.6	16	0.80	8	0.00	0	0.00	0	104
20	ADA Details	24	8	192	1	24	0.33	8	0.00	0	0.00	0	224
21	Driveway Details (5 per sht)	11	12	132	2	22	1.00	11	0.00	0	0.00	0	165
22	Pavement Marking & Signing Plan	28	8	224	1	28	0.29	8	0.00	0	0.00	0	260
23	Landscaping / Streetscape Plans	33	8	264	2	66	0.73	24	0.73	24	0.73	24	402
24	Traffic Signal and Interconnect Plan												
25	index/standards	1	2	2	1	1	1	1	1	1	1	1	6
26	D1 signal details	8	1	8	0.125	1	0	0	0	0	0	0	9
27	temp signal and cable plan	2	24	48	4	8	2.00	4	1.00	2	0.50	1	63
28	permanent plan and cable plan	9	24	216	4	36	2.00	18	1.00	9	0.44	4	283
29	interconnect plan	4	8	32	2	8	0.25	1	0	0	0	0	41
30	interconnect schematic	1	16	16	4	4	1	1	0	0	0	0	21
31	Lighting Plan												
32	temp lighting plans (Road and Metra)	16	4	64	2	32	1	16	1	16	0	0	128
33	plan view	8	32	256	2	24	1	8	1	8	0.5	4	300
34	schematic	2	24	48	2	18	4	8	2	4	1	2	80
35	details	8	8	64	2	16	0	0	0	0	0	0	80
36	Retaining Wall Plans	9	18	162	5	45	0.33	3	0.00	0	0.00	0	210
37	Sign Foundations	3	24	72	4	12	0.33	1	0.00	0	0.00	0	85
38	Miscellaneous Details	10	4	40	1	10	0.1	1	0	0	0	0	51
39	Cross Sections	260	2	520	1	260	0.06	16	0.03	8	0.02	4	808
	Total	905		5503		1098		263		125		76	7065

Specification - Hour Detail by Submittal

a. Submittals	Prefinal	Final v1	Final v2	Final v3	Final v4	Total
1. Recurring and Local Roads Check Sheets	1	1	1	1	1	5
2. Index of Supp. Specs & Recurring SPs	1	0	0	0	0	1
3. BDE Check Sheet	4	1	1	1	1	8
4. Project Special Provisions	140	16	4	4	4	168
5. Local Roads Special Provisions	2	0	0	0	0	2
6. SWPPP BDE 2342	1	0	0	0	0	1
7. Completed NOI	1	0	0	0	0	1
8. MLSWCD Permit Approval	1	0	0	0	0	1
9. LCSMC Storm Water Permit	1	0	0	0	0	1
10. BDE Special Provisions	2	1	1	1	1	6

Total

194

Local Public Agency

Lake County DOT

County

Lake

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Crawford, Murphy & Tilly, Inc.

Job Number

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. Data Collection			2. Downtown Streetscape Impr			3. Field Inv and Land Surveys			4. Plats & Legals			5. Land Acquisition Services		
		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	86.00	0.0																	
Project Engineer II	80.93	22.0	0.10%	0.08															
Project Manager II	75.19	0.0																	
Project Env Scientist II	77.34	0.0																	
Project Struct Engr II	84.39	0.0																	
Project Engineer I	64.97	2,327.0	10.51%	6.83	12	22.22%	14.44	28	15.22%	9.89				20	0.58%	0.38			
Project Manager I	62.94	1,222.0	5.52%	3.47										118	3.41%	2.15	662	13.69%	8.62
Project Env Scientist I	66.93	0.0																	
Project Structural Engr I	65.07	126.0	0.57%	0.37	8	14.81%	9.64												
Sr. Engineer I	48.07	4,985.0	22.51%	10.82	22	40.74%	19.58	100	54.35%	26.12	46	15.03%	7.23						
Technical Manager II	55.38	1,902.0	8.59%	4.76													1208	24.98%	13.83
Sr. Planner I	46.47	2,690.0	12.15%	5.64													2686	55.54%	25.81
Env Scientist III	50.94	0.0																	
Sr. Structural Engr II	63.78	0.0																	
Sr. Structural Engr I	48.35	215.0	0.97%	0.47															
Engineer I	36.48	5,053.0	22.82%	8.33	12	22.22%	8.11	56	30.43%	11.10	108	35.29%	12.88	752	21.75%	7.93			
Env Scientist II	44.51	446.0	2.01%	0.90															
Structural Engineer I	36.47	0.0																	
Planner I	36.63	0.0																	
Env Scientist I	30.53	0.0																	
Technical Manager I	32.79	112.0	0.51%	0.17															
Land Surveyor	50.10	929.0	4.20%	2.10										927	26.81%	13.43			
Sr. Technician I	45.88	1,102.0	4.98%	2.28										1100	31.81%	14.59			
Sr. Technician II	55.96	0.0																	
Technician II	37.89	0.0																	
Technician I	30.37	693.0	3.13%	0.95							152	49.67%	15.08	541	15.64%	4.75			
Proj Admin Assistant	29.95	320.0	1.45%	0.43													280	5.79%	1.73
TOTALS		22144.0	100%	\$47.60	54.0	100.00%	\$51.77	184.0	100%	\$47.11	306.0	100%	\$35.19	3458.0	100%	\$43.23	4836.0	100%	\$49.99

Local Public Agency

Lake County DOT

County

Lake

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Crawford, Murphy & Tilly, Inc.

Job Number

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

SHEET 2 OF 4

PAYROLL CLASSIFICATION	AVG HOURLY RATES	6. Environmental & Permitting			7. Geotechnical Inv & Reports			8. Preliminary Design Studies			9. Roadway Plans			10. Train Station Plans			11. Specifications		
		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	86.00																		
Project Engineer II	80.93													10	2.44%	1.97			
Project Manager II	75.19																		
Project Env Scientist II	77.34																		
Project Struct Engr II	84.39																		
Project Engineer I	64.97	80	14.39%	9.35	24	24.49%	15.91	12	1.21%	0.79	707	10.01%	6.50	48	11.71%	7.61	24	12.37%	8.04
Project Manager I	62.94																		
Project Env Scientist I	66.93																		
Project Structural Engr I	65.07				18	18.37%	11.95				80	1.13%	0.74						
Sr. Engineer I	48.07	72	12.95%	6.22	40	40.82%	19.62	960	97.17%	46.70	2826	40.00%	19.23	88	21.46%	10.32	154	79.38%	38.16
Technical Manager II	55.38																		
Sr. Planner I	46.47																		
Env Scientist III	50.94																		
Sr. Structural Engr II	63.78																		
Sr. Structural Engr I	48.35										215	3.04%	1.47						
Engineer I	36.48				16	16.33%	5.96	16	1.62%	0.59	3237	45.82%	16.72	264	64.39%	23.49	16	8.25%	3.01
Env Scientist II	44.51	404	72.66%	32.34															
Structural Engineer I	36.47																		
Planner I	36.63																		
Env Scientist I	30.53																		
Technical Manager I	32.79																		
Land Surveyor	50.10																		
Sr. Technician I	45.88																		
Sr. Technician II	55.96																		
Technician II	37.89																		
Technician I	30.37																		
Proj Admin Assistant	29.95																		
TOTALS		556.0	100%	\$47.92	98.0	100%	\$53.44	988.0	100%	\$48.08	7065.0	100%	\$44.65	410.0	100%	\$43.39	194.0	100%	\$49.20

Local Public Agency

Lake County DOT

County

Lake

Section Number

02-00065-01-FP

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. Quantities and Cost Estimates			13. Utility Locates & Coordination			14. Public Outreach			15. Meetings & Coordination			16. QA and Constructability Reviews			17. RAISE Grant Assistance		
		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	86.00																		
Project Engineer II	80.93													12	4.62%	3.74			
Project Manager II	75.19																		
Project Env Scientist II	77.34																		
Project Struct Engr II	84.39																		
Project Engineer I	64.97	38	5.61%	3.65	8	2.15%	1.40	118	32.96%	21.42	632	36.32%	23.60	248	95.38%	61.97	16	20.00%	12.99
Project Manager I	62.94												376	21.61%	13.60				
Project Env Scientist I	66.93																		
Project Structural Engr I	65.07																		
Sr. Engineer I	48.07	317	46.82%	22.51	130	34.95%	16.80	88	24.58%	11.82							64	80.00%	38.45
Technical Manager II	55.38												692	39.77%	22.03				
Sr. Planner I	46.47																		
Env Scientist III	50.94																		
Sr. Structural Engr II	63.78																		
Sr. Structural Engr I	48.35																		
Engineer I	36.48	322	47.56%	17.35	234	62.90%	22.95												
Env Scientist II	44.51												40	2.30%	1.02				
Structural Engineer I	36.47																		
Planner I	36.63																		
Env Scientist I	30.53																		
Technical Manager I	32.79							112	31.28%	10.26									
Land Surveyor	50.10																		
Sr. Technician I	45.88																		
Sr. Technician II	55.96																		
Technician II	37.89																		
Technician I	30.37																		
Proj Admin Assistant	29.95							40	11.17%	3.35									
TOTALS		677.0	100%	\$43.51	372.0	100%	\$41.14	358.0	100%	\$46.83	1740.0	100%	\$60.25	260.0	100%	\$65.71	80.0	100%	\$51.45

Local Public Agency

Lake County DOT

County

Lake

Section Number

02-00065-01-FP

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. Construction Phase Services			19. Project Administration														
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
Principal	86.00																		
Project Engineer II	80.93																		
Project Manager II	75.19																		
Project Env Scientist II	77.34																		
Project Struct Engr II	84.39																		
Project Engineer I	64.97	48	40.68%	26.43	264	67.69%	43.98												
Project Manager I	62.94				66	16.92%	10.65												
Project Env Scientist I	66.93																		
Project Structural Engr I	65.07	18	15.25%	9.93	2	0.51%	0.33												
Sr. Engineer I	48.07	52	44.07%	21.18	26	6.67%	3.20												
Technical Manager II	55.38				2	0.51%	0.28												
Sr. Planner I	46.47				4	1.03%	0.48												
Env Scientist III	50.94																		
Sr. Structural Engr II	63.78																		
Sr. Structural Engr I	48.35																		
Engineer I	36.48				20	5.13%	1.87												
Env Scientist II	44.51				2	0.51%	0.23												
Structural Engineer I	36.47																		
Planner I	36.63																		
Env Scientist I	30.53																		
Technical Manager I	32.79																		
Land Surveyor	50.10				2	0.51%	0.26												
Sr. Technician I	45.88				2	0.51%	0.24												
Sr. Technician II	55.96																		
Technician II	37.89																		
Technician I	30.37																		
Proj Admin Assistant	29.95																		
TOTALS		118.0	100%	\$57.54	390.0	100%	\$61.52	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

Subconsultant 1 - Alfred Benesch & Company

Metra Station

EXHIBIT "A": SCOPE OF WORK

Lake County Division of Transportation Project Scope Description to Provide Phase II (Design) Engineering and Land Acquisition Services for Cedar Lake Road Realignment Nippersink Road to Hart Road Section Number: 02-00065-01-FP

Benesch Scope of Work

10. Train Station Plans

- a. Metra station, platform, kiss-n-ride, and parking lot design will utilize Metra standard drawings and details with comments and direction from Metra's Engineering Department. Design will be in accordance with applicable municipal ordinances, Illinois Commerce Commission Regulations, Metra and carrier railroad standards, and the latest edition of the AREMA specifications. (Benesch)
- b. Platform Plans for Metra Use (Benesch)
 1. Platform demolition plans
 2. Proposed platform plans
 3. Mid-platform pedestrian crossings detail sheets (2 total crossings)
- c. Parking and Warming Shelter Plans for LCDOT Use
 1. Schedules - Earthwork (Access Drive, North Parking, South Parking) (Benesch)
 2. Existing station building and utility demolition (Benesch)
 3. Warming shelters and associated utilities (2 warming shelters) (Benesch)
 4. Existing parking and entrance demolition/removal plans (Benesch)
 5. Typical Sections – Access Drive (Benesch)
 6. Roadway Plan and Profile - Metra Access Drive (Benesch)
 7. Geometric Plan - Northern parking proposed rehabilitation plan (Benesch)
 8. Geometric Plan - Southern parking reconstruction plan (Benesch)
 9. IL 134 Entrance Details
 10. Grading Plans
 11. Existing Drainage Plans – north lot, south lot
 12. Proposed Drainage Plans – north lot, south lot (Benesch)
 13. Drainage Schedule (Benesch)
 14. North kiss-n-ride plan (Benesch)
 15. South kiss-n-ride plan (Benesch)
 16. Proposed entrances to IL 134 detail sheet (Benesch)
 17. Proposed guardrail replacement with fence detail sheet (Benesch)

18. Bicycle parking removal plans
 19. Bicycle parking replacement plan (south) and proposed plan (north)
 20. Cross Sections (Station)
- d. Proposed improvements will be modeled using Bentley's MicroStation Open Roads Designer software and utilizing the current IDOT Workspace. The Digital Terrain Model (DTM) will generate the proposed contours of the improvements.

11. Quantities and Cost Estimates

- a. Metra Train Station Improvements (Benesch)
 1. Metra –10% Submittal
 2. Metra –30% Submittal
 3. Metra –60% Submittal
 4. Metra –90% Submittal
 5. Metra –Issued for Bid (IFB) Submittal

15. Meetings and Coordination

- c. Round Lake Coordination
 9. Warming Shelter and Utility Coordination
- d. Metra Coordination
 1. Disposition of Metra Comments (five submittals, see above)
 2. Proprietary Item Coordination with Metra Engineering Department

16. QA and Constructability Reviews

- b. QA Reviews
 3. IL 134 (Railroad Ave) at Proposed Cedar Lake Road Traffic Signal Plans (Benesch)
- c. Constructability Review (Benesch) Prior to the submittal milestone, the contract documents will be analyzed for constructability, compatibility of design assumptions with the specifications (special provisions) requirements, and maintenance of existing elements during construction. Construction staging, coordination with potential adjacent work, schedule, cost estimate and method of construction will be addressed.
 1. Constructability Review of Preliminary Plans (Benesch)
 2. Constructability Review of Prefinal PS&E (Benesch)

Lake County Division of Transportation
Project Scope Description to Provide
Phase II (Design) Engineering and Land Acquisition Services for
Cedar Lake Road Realignment
Nippersink Road to Hart Road
Section Number: 02-00065-01-FP

TASK	DESCRIPTION	HOURS	Direct Cost
10	Train Station Plans	Benesch	Direct Cost Estimate
	a. Metra station, platform, kiss-n-ride, and parking lot design will utilize Metra standard drawings and details with comments and direction from Metra's Engineering Department. Design will be in accordance with applicable municipal ordinances, Illinois Commerce Commission Regulations, Metra and carrier railroad standards, and the latest edition of the AREMA specifications. (Benesch)		
	b. Platform Plans for Metra Use (Benesch)		
	1. Platform demolition plans	80	
	2. Proposed platform plans	480	
	3. Mid-platform pedestrian crossings detail sheets (2 total crossings)	120	
	a. Parking and Warming Shelter Plans for LCDOT Use		\$975
	1. Schedules - Earthwork (Access Drive, North Parking, South Parking) (Benesch)	32	
	2. Existing station building and utility demolition (Benesch)	244	
	3. Warming shelters and associated utilities (2 warming shelters) (Benesch)	408	
	a. Retaining Walls as necessary (assume up to 3-100' walls for shelters and platform)	600	
	4. Existing parking and entrance demolition/removal plans (Benesch)	72	
	5. Typical Sections – Access Drive (Benesch)	16	
	6. Roadway Plan and Profile - Metra Access Drive (Benesch)	32	
	7. Geometric Plan - Northern parking proposed rehabilitation plan (Benesch)	40	
	8. Geometric Plan - Southern parking reconstruction plan (Benesch)	80	
	9. IL 134 Entrance Details	32	
	10. Grading Plans	120	
	11. Existing Drainage Plans – north lot, south lot (Benesch)	84	
	12. Proposed Drainage Plans – north lot, south lot (Benesch)	216	
	13. Drainage Schedule (Benesch)	48	
	14. North kiss-n-ride plan (Benesch)	24	
	15. South kiss-n-ride plan (Benesch)	24	
	16. Proposed entrances to IL 134 detail sheet (Benesch)	32	
	17. Proposed guardrail replacement with fence detail sheet (Benesch)	24	
	18. Bicycle parking removal plans	24	
	19. Bicycle parking replacement plan (south) and proposed plan (north)	36	

Lake County Division of Transportation
Project Scope Description to Provide
Phase II (Design) Engineering and Land Acquisition Services for
Cedar Lake Road Realignment
Nippersink Road to Hart Road
Section Number: 02-00065-01-FP

TASK	DESCRIPTION	HOURS	Direct Cost
	20. Cross Sections (Station)	240	
	d. Proposed improvements will be modeled using Bentley's MicroStation Open Roads Designer software and utilizing the current IDOT Workspace. The Digital Terrain Model (DTM) will generate the proposed contours of the improvements.	120	
	Sub-Total Task 10 =	3228	

12	Quantities and Cost Estimates	Benesch	Direct Cost ESTIMATE
	a. Metra Train Station Improvements (Benesch)		
	1. Metra –10% Submittal	120	
	2. Metra –30% Submittal	96	
	3. Metra –60% Submittal	72	
	4. Metra –90% Submittal	72	
	5. Metra –Issued for Bid (IFB) Submittal	48	
	Sub-Total Task 12 =	408	

15	Meeting and Coordination	Benesch	Direct Cost ESTIMATE
	c. Round Lake Coordination		
	9. Warming Shelter and Utility Coordination	240	
	d. Metra Coordination		
	1. Metra Coordination and Disposition of Metra Comments (five submittals, see above)	596	
	2. Proprietary Item Coordination with Metra Engineering Department	40	
	Sub-Total Task 15 =	876	

Lake County Division of Transportation
Project Scope Description to Provide
Phase II (Design) Engineering and Land Acquisition Services for
Cedar Lake Road Realignment
Nippersink Road to Hart Road
Section Number: 02-00065-01-FP

TASK	DESCRIPTION	HOURS	Direct Cost
16	16. QA and Constructability Reviews	Benesch	Direct Cost ESTIMATE
	b. QA Reviews		
	3. IL 134 (Railroad Ave) at Proposed Cedar Lake Road Traffic Signal Plans (Benesch)	40	
	c. Constructability Review (Benesch) Prior to the submittal milestone, the contract documents will be analyzed for constructability, compatibility of design assumptions with the specifications (special provisions) requirements, and maintenance of existing elements during construction. Construction staging, coordination with potential adjacent work, schedule, cost estimate and method of construction will be addressed.		
	1. Constructability Review of Preliminary Plans (Benesch)	80	
	2. Constructability Review of Prefinal PS&E (Benesch)	80	
	Sub-Total Task 16 =	200	
	Totals	4712	



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

Local Public Agency Lake County DOT	County Lake	Section Number 02-00065-01-FP
Prime Consultant (Firm) Name CMT	Prepared By Travis Kluegel	Date 9/11/2023
Consultant / Subconsultant Name Alfred Benesch & Company	Job Number 	

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

Remarks

Cedar Lake Road Realignment-Nippersink Road to Hart Road

PAYROLL ESCALATION TABLE

CONTRACT TERM	24	MONTHS	OVERHEAD RATE	169.97%
START DATE	11/1/2023		COMPLEXITY FACTOR	
RAISE DATE	1/1/2024		% OF RAISE	2.00%
END DATE	10/31/2025			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	11/1/2023	1/1/2024	2	8.33%
1	1/2/2024	1/1/2025	12	51.00%
2	1/2/2025	11/1/2025	10	43.35%

The total escalation = 2.68%

Local Public Agency

County

Section Number

Lake County DOT

Lake

02-00065-01-FP

Consultant / Subconsultant Name

Job Number

Alfred Benesch & Company

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	2.68%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Project Principal	\$86.00	\$86.00
Sr Technical Manager	\$86.00	\$86.00
Sr. Project Manager	\$75.00	\$77.01
Project Manager II	\$70.00	\$71.88
Project Manager I	\$58.50	\$60.07
Sr. Project Engineer	\$60.00	\$61.61
Project Engineer II	\$55.00	\$56.48
Project Engineer I	\$43.50	\$44.67
Sr. Designer	\$50.00	\$51.34
Designer II	\$43.00	\$44.15
Designer I	\$36.50	\$37.48
Sr. Surveyor	\$60.10	\$61.71
Sr. Party Chief	\$49.20	\$50.52
Sr. Technical Specialist	\$53.00	\$54.42
Technical Manager II	\$65.00	\$66.74
Technical Manager I	\$65.00	\$66.74
Sr. Technologist	\$53.43	\$54.86
Technologist II	\$44.00	\$45.18
Project Assistant II	\$34.00	\$34.91
Project Assistant I	\$35.00	\$35.94
Intern	\$25.00	\$25.67

Local Public Agency

Lake County DOT

County

Lake

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Alfred Benesch & Company

Job Number

DIRECT COSTS WORKSHEET

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

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			\$0.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day	15	\$65.00	\$975.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost			\$0.00
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
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
Title Commitments	Actual Cost			\$0.00
Traffic Count Collection Services - Miovision	Actual Cost			\$0.00
FEMA Hydraulic Model	Actual Cost			\$0.00
Spanish Translation Services	Actual Cost			\$0.00
TOTAL DIRECT COSTS:				\$975.00

Local Public Agency

Lake County DOT

County

Lake

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Alfred Benesch & Company

Job Number

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

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			10. Train Station Plans			12. Quantities and Cost Estimates			15. Meetings and Coordination			16. QA and Constructability Reviews			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			
Project Principal	86.00	104.0	2.21%	1.90	80	2.48%	2.13	4	0.98%	0.84	16	1.83%	1.57	4	2.00%	1.72			
Sr Technical Manager	86.00	0.0																	
Sr. Project Manager	77.01	232.0	4.92%	3.79	160	4.96%	3.82	16	3.92%	3.02	40	4.57%	3.52	16	8.00%	6.16			
Project Manager II	71.88	808.0	17.15%	12.33	608	18.84%	13.54	16	3.92%	2.82	120	13.70%	9.85	64	32.00%	23.00			
Project Manager I	60.07	728.0	15.45%	9.28	280	8.67%	5.21	64	15.69%	9.42	320	36.53%	21.94	64	32.00%	19.22			
Sr. Project Engineer	61.61	0.0																	
Project Engineer II	56.48	1,052.0	22.33%	12.61	680	21.07%	11.90	148	36.27%	20.49	200	22.83%	12.89	24	12.00%	6.78			
Project Engineer I	44.67	368.0	7.81%	3.49				160	39.22%	17.52	180	20.55%	9.18	28	14.00%	6.25			
Sr. Designer	51.34	0.0																	
Designer II	44.15	860.0	18.25%	8.06	860	26.64%	11.76												
Designer I	37.48	560.0	11.88%	4.45	560	17.35%	6.50												
Sr. Surveyor	61.71	0.0																	
Sr. Party Chief	50.52	0.0																	
Sr. Technical Specialist	54.42	0.0																	
Technical Manager II	66.74	0.0																	
Technical Manager I	66.74	0.0																	
Sr. Technologist	54.86	0.0																	
Technologist II	45.18	0.0																	
Project Assistant II	34.91	0.0																	
Project Assistant I	35.94	0.0																	
Intern	25.67	0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
TOTALS		4712.0	100%	\$55.91	3228.0	100.00%	\$54.86	408.0	100%	\$54.11	876.0	100%	\$58.95	200.0	100%	\$63.13	0.0	0%	\$0.00

Subconsultant 2 - American Surveying & Engineering, LTD

Subsurface Utility Exploration (SUE)

Scope of Work



AMERICAN
SURVEYING & ENGINEERING, LTD.

PROJECT SUMMARY

Project Name: Cedar Lake Road Realignment Phase II

ASE Proposal No.: 222024

Owner: Lake County

Date: May 10, 2022

Agent: Crawford, Murphy & Tilly (CMT)

Revision Date: July 27, 2023

Project Description – ASE will provide professional services to provide a Subsurface Utility Engineering study for the Phase II Realignment of Cedar Lake Road.

Project Location – Cedar Lake Road in Round Lake.

Project Limits – The proposed realignment is attached this scope with an exhibit provided by CMT.

GENERAL CONDITIONS AND SCOPE ASSUMPTIONS

1. All previous and relevant survey information such as Preliminary Surveys and construction plans if available and 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 38-02 Standard Guideline for the Collection & Depiction of Existing Subsurface Utility Data.
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 “Class D” or greater will not be entered unless provided for otherwise in the Scope of Work Tasks.
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. If additional permit fees are required for access, we will contact the agent before proceeding.
10. This proposal is based on 50 SUE Level A exposures will be necessary, with eight (8) of them being in the pavement.
11. SUE QL A exposures will be billed at the following rates.
 - a. Location holes 0-3.00 feet in depth will be billed at \$1,466.00 per hole.

- b. Location holes 3.01-6.00 feet in depth will be billed at \$2,013.00 per hole.
 - c. Location holes 6.01-12.00 feet in depth will be billed at \$2,979.00 per hole.
 - d. Location holes 12.01-18.00 feet in depth will be billed at \$3,846.00 per hole.
 - e. Location holes 18.01 feet and over will be billed on an hourly rate.
12. This proposal assumes 54,364 linear feet (includes 51,864 LF plus 50 LF per hole) of SUE QL B. The cost of designating, surveying, and mapping SUE QL B is \$2.09 per linear foot.
13. The SUE QL B and SUE QL A rates do not include professional service support hours. Those are included in the CECS form.
14. ASE assume that the conflict analysis (to determine where the Level A exposures will occur upon Level B and C completion) shall be performed by the Client. ASE can perform this task for a fee if the client requests.
15. ASE will commence work within 10 days of the Notice to Proceed.
16. This SOW shall become part of the contract between Owner/Agent and ASE.

PROPOSED TASKS

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 GPS derived NAVD88 values.
 - 3.1. Search and reconnaissance for record control points. Recover and verify previous control points.
 - 3.2. Set additional control points for Data Collection.
 - 3.3. Traverse/GPS/level through found monuments to establish primary control.
 - 3.4. Office calculations, adjustment, tabulations of coordinates.
4. SUE Quality Level D
 - 4.1. Research and review existing utility information.
 - 4.2. Request Atlas information from One-Call system (JULIE). It is typically 30 days to receive all Atlases.
5. SUE Quality Level C
 - 5.1. This task, when required, consists of the data acquisition of Sanitary Sewer, Storm Sewer, and other utility structures to develop surface and utility pipe locations & elevations
 - 5.2. 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

- 5.3. Designated Quality level SUE C utilities drawn in a coordinate correct CADD model file environment for distribution to the client.

6. SUE Quality Level B

- 6.1. SUE level B information will be collected via applicable Radio Frequency (RF) geophysical techniques. When requested, and applicable, Ground Penetrating RADAR (GPR) technology is employed.

Ground conditions, utility type and depth may prevent the acquisition of the accurate utility information. This may result in inaccurate utility locates. Utilities will be located to the best extent via the locating methods available. SUE Level B information does not provide elevation information.

- 6.2. Designated Quality Level SUE B utilities drawn in a coordinate correct CADD model file environment for distribution to the client.
- 6.3. Level B approximate depth via RF methodology will be captured (where possible. This aids in the conflict analysis process.

7. SUE Quality Level A Exposures (Test Holes)

- 7.1. Obtain Dig tickets as required for QLA Test Holes.
- 7.2. 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).
- 7.3. Obtain X, Y, Z coordinates of top of utility locations and ground elevation.
- 7.4. Provide a Test Hole Data Sheet for each QLA Test Hole.

8. QA/QC

- 8.1. Review contract documents and survey requirements to verify ASE project QA/QC requirements.
- 8.2. Periodic project review to assure compliance with policy and contract documents.

DELIVERABLES

- Once SUE Level A 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

- A. Railroad Protective Liability Insurance - \$900.
 - a. Assume 1 = \$900.
- B. Railroad Entry Application Fee - \$1,045.
 - a. Assume 1 = \$1,045.
- C. Railroad Entry Agreement fees - \$5,000.
 - a. Assume 1 = \$5,000.
- D. Railroad Flaggers – \$1,250 per day.
 - a. Assume 5 days = \$6,250.
- E. Traffic control – \$1,760 per day.
 - a. Assume 10 days = \$17,600.
- F. SUE QL A Test Hole 0-3.00 feet in depth billed at \$1,466 per hole.
 - a. Assume 5 holes = \$7,330.
- G. SUE QL A Test Hole 3.01-6.00 feet in depth bill at \$2,013 per hole.
 - a. Assume 20 holes = \$40,260.
- H. SUE QL A Test Hole 6.01-12.00 feet in depth billed at \$2,979 per hole.
 - a. Assume 20 holes = \$59,580.
- I. SUE QL A Test Hole 12.01-18.00 feet in depth billed at \$3,846 per hole.
 - a. Assume 5 holes = \$19,230.
- J. SUE QL A Test Hole 18.01 feet and over will be billed on an hourly rate.
- K. Coring – Less than 6” of pavement - \$346 per core.
- L. Coring – 6-18” in pavement - \$520 per core.
 - a. Assume 8 cores = \$4,160.
- M. IDOT Permit Bond - \$100.
 - a. Assume 1 = \$100.
- N. Lake County ROW Minor Access Permit - \$450.
 - a. Assume 1 = \$450.
- O. SUE QL B Designating bill at \$2.09 per linear foot.
 - a. Assume 54,364 linear feet. QL B Fee = \$113,620.76
 - b. Capture Approximate Level B depths at \$0.25 a foot = \$13,591
- P. SUE QL C Manhole Detailing at \$276 per structure.
- Q. Ground Penetrating Radar at \$445 per hour.

SUE QL B:	\$113,620.76
Capture Approximate Level B depths	\$13,501.00
SUE QLA:	\$126,400.00
Coring:	\$4,160.00
Railroad Fees:	\$14,445.00
Traffic Control:	\$17,600.00
IDOT Permit:	\$100.00
Lake County ROW Minor Access Permit:	\$450.00
Total for Unit Costs & Direct Costs	\$290,366.76

ITEMS SUPPLIED BY OTHERS

- A. Record plans, including any previous survey information (if available).
- B. Any and all 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.
- E. Conflict Analysis



PROJECT: Cedar Lake Road Realignment

LOCATION: Round Lake
CLIENT: CMT

PROPOSAL No.: 222024
DATE: 7/27/2023

TASK 1.0 Administration		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
1.1	Meetings, reports, scheduling, etc.		4		8																10	22
1.2	Technical Direction of Staff		4		8																	12
1.3	Project management & coord.		4		8																	12
1.4																						0
1.5																						0
1.6																						0
1.7																						0
1.8																						0
1.9																						0
TOTAL HOURS		0	12	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	46

TASK 2.0 Data Compilation		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
2.1	Courthouse & Data Research		2		4		8				10											24
2.2	Compile & Review data		2		4		8				10											24
2.3	Catalog and transfer to field		1		4		8				10											23
2.4																						0
2.5																						0
2.6																						0
2.7																						0
2.8																						0
2.9																						0
TOTAL HOURS		0	5	0	12	0	24	0	0	0	30	0	0	0	0	0	0	0	0	0	0	71

TASK 3.0 Horizontal & Vertical Control		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
3.1	Recon. & locate existing mon's.									8	8											16
3.2	Set Additional Points									4	4											8
3.3	Traverse/GPS/Level									4	4											8
3.4	Office Calcs		2		8																	10
3.5																						0
3.6																						0
3.7																						0
3.8																						0
3.9																						0
TOTAL HOURS		0	2	0	8	0	0	0	0	16	16	0	0	0	0	0	0	0	0	0	0	42

TASK 4.0 SUE QL D		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
4.1	Research/Review Utility Information				4		8				10											22
4.2	Request Altas Info				4		8				10											22
4.3																						0
4.4																						0
4.5																						0
4.6																						0
4.7																						0
4.8																						0
4.9																						0
TOTAL HOURS		0	0	0	8	0	16	0	0	0	20	0	0	0	0	0	0	0	0	0	0	44



PROJECT: Cedar Lake Road Realignment
 LOCATION: Round Lake
 CLIENT: CMT

PROPOSAL No. 222024
 DATE: 7/27/2023

TASK 5.0 SUE QL C		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
5.1	Data acquisition of utilities		1		4		10			12												27
5.2	Structure data sheet prepared		1		4		10			12												27
5.3	SUE QL C Drawn in CADD Model		1		4		10			12												27
5.4																						0
5.5																						0
5.6																						0
5.7																						0
5.8																						0
5.9																						0
TOTAL HOURS		0	3	0	12	0	30	0	0	36	0	0	0	0	0	0	0	0	0	0	0	81

TASK 6.0 SUE QL B		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
6.1	SUE QL B Collected																					0
6.2	CADD		1		2		4			8												15
6.3																						0
6.4																						0
6.5																						0
6.6																						0
6.7																						0
6.8																						0
6.9																						0
TOTAL HOURS		0	1	0	2	0	4	0	0	8	0	0	0	0	0	0	0	0	0	0	0	15

TASK 7.0 SUE QL A		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
7.1	Obtain Dig Tickets																					0
7.2	Perform SUE QL A test holes																					0
7.3	Obtain X, Y, Z Coordinates																					0
7.4	Provide Test Hole Data Sheet		1		2		4			8												15
7.5																						0
7.6																						0
7.7																						0
7.8																						0
7.9																						0
TOTAL HOURS		0	1	0	2	0	4	0	0	8	0	0	0	0	0	0	0	0	0	0	0	15

TASK 8.0 QA/QC		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
8.1	Review QA/QC Plan		6		14																	20
8.2	Periodic review and final QA/QC		6		14																	20
8.3																						0
8.4																						0
8.5																						0
8.6																						0
8.7																						0
8.8																						0
8.9																						0
TOTAL HOURS		0	12	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40



PROJECT: Cedar Lake Road Realignment

LOCATION: Round Lake

CLIENT: CMT

PROPOSAL No. :222024

DATE: 7/27/2023

SUMMARY OF TASKS	MANHOURS																					
TASK	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL	
1.0 Administration	0	12	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	46
2.0 Data Compilation	0	5	0	12	0	24	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	71
3.0 Horizontal & Vertical Contrc	0	2	0	8	0	0	0	0	16	16	0	0	0	0	0	0	0	0	0	0	0	42
4.0 SUE QL D	0	0	0	8	0	16	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	44
5.0 SUE QL C	0	3	0	12	0	30	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	81
6.0 SUE QL B	0	1	0	2	0	4	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	15
7.0 SUE QL A	0	1	0	2	0	4	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	15
8.0 QA/QC	0	12	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hours	0	36	0	96	0	78	0	0	68	66	0	0	0	0	0	0	0	0	0	10	0	354



Local Public Agency Lake County DOT	County Lake County	Section Number
Prime Consultant (Firm) Name Crawford, Murphy, Tilly	Prepared By Dan Woessner	Date 7/25/2023
Consultant / Subconsultant Name American Surveying & Engineering, LTD.	Job Number 	

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

Remarks

PAYROLL ESCALATION TABLE

CONTRACT TERM	6	MONTHS	OVERHEAD RATE	160.06%
START DATE	8/1/2023		COMPLEXITY FACTOR	2.00%
RAISE DATE	1/1/2024		% OF RAISE	2.00%
END DATE	1/31/2024			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	8/1/2023	1/1/2024	5	83.33%
1	1/2/2024	2/1/2024	1	17.00%

The total escalation = 0.33%

Local Public Agency

County

Section Number

Lake County DOT

Lake County

Consultant / Subconsultant Name

Job Number

American Surveying & Engineering, LTD.

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	78.00
ESCALATION FACTOR	0.33%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
PRINCIPAL IN CHARGE	\$86.00	\$78.00
PROJECT MANAGER	\$81.20	\$78.00
PROJECT SURVEYOR/ENGINEER 4	\$77.17	\$77.43
PROJECT SURVEYOR/ENGINEER 3	\$65.92	\$66.14
PROJECT SURVEYOR/ENGINEER 2	\$48.28	\$48.44
PROJECT SURVEYOR/ENGINEER 1	\$40.00	\$40.13
CADD TECHNICIANS	\$43.83	\$43.98
ENGINEERING/SURVEY TECHNICIAN 4	\$64.66	\$64.88
ENGINEERING/SURVEY TECHNICIAN 3	\$42.04	\$42.18
ENGINEERING/SURVEY TECHNICIAN 2	\$31.47	\$31.57
ENGINEERING/SURVEY TECHNICIAN 1	\$18.97	\$19.03
RIGHT-OF-WAY SPECIALIST 4	\$63.17	\$63.38
RIGHT-OF-WAY SPECIALIST 3	\$43.83	\$43.98
RIGHT-OF-WAY SPECIALIST 2	\$33.82	\$33.93
RIGHT-OF-WAY SPECIALIST 1	\$24.60	\$24.68
SUBSURFACE UTILITY SPECIALIST 3	\$44.00	\$44.15
SUBSURFACE UTILITY SPECIALIST 2	\$29.50	\$29.60
SUBSURFACE UTILITY SPECIALIST 1	\$24.55	\$24.63
ADMINISTRATIVE/CLERICAL 3	\$30.00	\$30.10
ADMINISTRATIVE/CLERICAL 2	\$22.75	\$22.83
ADMINISTRATIVE/CLERICAL 1	\$16.60	\$16.66

Local Public Agency

Lake County DOT

County

Lake County

Section Number

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
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			\$0.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day			\$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
SUE Level B	Per Foot plus the \$0.25 per foot for depths	54,364	\$2.34	\$127,211.76
SUE Level A including coring	Per hole by depth (see scope for details)	1	\$130,560.00	\$130,560.00
Permits (IDOT and Lake County)	Per Permit (See scope fo details)	1	\$550.00	\$550.00
Railroad fees	See Scope for details	1	\$14,445.00	\$14,445.00

TOTAL DIRECT COSTS: \$290,368.76

Local Public Agency

Lake County DOT

County

Lake County

Section Number

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 SUE QL D			5.0 SUE QL C		
		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	78.00	0.0			0			0			0			0			0		
PROJECT MANAGER	78.00	36.0	10.17%	7.93	12	26.09%	20.35	5	7.04%	5.49	2	4.76%	3.71	0			3	3.70%	2.89
PROJECT SURVEYOR/EN	77.43	0.0			0			0			0			0			0		
PROJECT SURVEYOR/EN	66.14	96.0	27.12%	17.94	24	52.17%	34.51	12	16.90%	11.18	8	19.05%	12.60	8	18.18%	12.03	12	14.81%	9.80
PROJECT SURVEYOR/EN	48.44	0.0			0			0			0			0			0		
PROJECT SURVEYOR/EN	40.13	78.0	22.03%	8.84	0			24	33.80%	13.57	0			16	36.36%	14.59	30	37.04%	14.86
CADD TECHNICIANS	43.98	0.0			0			0			0			0			0		
ENGINEERING/SURVEY	64.88	0.0			0			0			0			0			0		
ENGINEERING/SURVEY	42.18	68.0	19.21%	8.10	0			0			16	38.10%	16.07	0			36	44.44%	18.75
ENGINEERING/SURVEY	31.57	66.0	18.64%	5.89	0			30	42.25%	13.34	16	38.10%	12.03	20	45.45%	14.35	0		
ENGINEERING/SURVEY	19.03	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIAL	63.38	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIAL	43.98	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIAL	33.93	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIAL	24.68	0.0			0			0			0			0			0		
SUBSURFACE UTILITY S	44.15	0.0			0			0			0			0			0		
SUBSURFACE UTILITY S	29.60	0.0			0			0			0			0			0		
SUBSURFACE UTILITY S	24.63	0.0			0			0			0			0			0		
ADMINISTRATIVE/CLERIC	30.10	10.0	2.82%	0.85	10	21.74%	6.54	0			0			0			0		
ADMINISTRATIVE/CLERIC	22.83	0.0			0			0			0			0			0		
ADMINISTRATIVE/CLERIC	16.66	0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
TOTALS		354.0	100%	\$49.55	46.0	100.00%	\$61.40	71.0	100%	\$43.58	42.0	100%	\$44.41	44.0	100%	\$40.97	81.0	100%	\$46.30

Local Public Agency

Lake County DOT

County

Lake County

Section Number

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 SUE QL B			7.0 SUE QL A			8.0 QA/QC											
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
PRINCIPAL IN CHARGE	78.00	0			0			0			0			0			0		
PROJECT MANAGER	78.00	1	6.67%	5.20	1	6.67%	5.20	12	30.00%	23.40	0			0			0		
PROJECT SURVEYOR/ENG	77.43	0			0			0			0			0			0		
PROJECT SURVEYOR/ENG	66.14	2	13.33%	8.82	2	13.33%	8.82	28	70.00%	46.30	0			0			0		
PROJECT SURVEYOR/ENG	48.44	0			0			0			0			0			0		
PROJECT SURVEYOR/ENG	40.13	4	26.67%	10.70	4	26.67%	10.70	0			0			0			0		
CADD TECHNICIANS	43.98	0			0			0			0			0			0		
ENGINEERING/SURVEY TE	64.88	0			0			0			0			0			0		
ENGINEERING/SURVEY TE	42.18	8	53.33%	22.50	8	53.33%	22.50	0			0			0			0		
ENGINEERING/SURVEY TE	31.57	0			0			0			0			0			0		
ENGINEERING/SURVEY TE	19.03	0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIS	63.38	0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIS	43.98	0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIS	33.93	0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIS	24.68	0			0			0			0			0			0		
SUBSURFACE UTILITY SPE	44.15	0			0			0			0			0			0		
SUBSURFACE UTILITY SPE	29.60	0			0			0			0			0			0		
SUBSURFACE UTILITY SPE	24.63	0			0			0			0			0			0		
ADMINISTRATIVE/CLERICA	30.10	0			0			0			0			0			0		
ADMINISTRATIVE/CLERICA	22.83	0			0			0			0			0			0		
ADMINISTRATIVE/CLERICA	16.66																		
TOTALS		15.0	100%	\$47.22	15.0	100%	\$47.22	40.0	100%	\$69.70	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

Subconsultant 3 - Legat Architects

Architectural – Train Station and Village Hall

August 5, 2023

VIA EMAIL

Tice "Charles" Cole
Project Manager
Crawford, Murphy & Tilly
125 S. Wacker Dr.
Suite 2880
Chicago, IL 60606

RE Village of Round Lake Metra Warming Shelters
Architect's Project Number: IN23_XXXXXX
Proposal to Provide Professional Architectural Services

Dear Tice:

Thank you again for giving Legat Architects the opportunity to become Architect of Record for the proposed Metra Warming Shelters at the Village of Round Lake. Pursuant to your request, Legat Architects ("Architect") is pleased to submit this proposal to provide professional architectural services to Crawford, Murphy & Tilly ("Client"). As defined in this proposal, there will be three primary "Owner" entities on the project – Lake County, Metra, and the Village of Round Lake. "Stakeholders" are defined as any entity that is involved or impacted by the comprehensive design. The "Focus Group" will include individuals from all the entities listed above and will be the primary group guiding design decisions. The purpose of this Proposal is to provide an overview of the overall design process by phase, to summarize the professional services to be provided and to outline the related fees.

1.0 Project Parameters

1.1 Project Objective:

- 1.1.1 To provide Architectural, Structural, Mechanical, Plumbing, and Electrical Consulting services for the design of the Round Lake Metra warming Shelters. It is understood that the station design will utilize the design of a previously constructed warming shelter with minor modifications to the finishes palette.
- 1.1.2 To provide Architectural, Structural, Mechanical, Plumbing, and Electrical Consulting services for the demolition of the existing Village Hall Annex.

1.2 Locations:

- 1.2.1 Metra Warming Houses - 412 Railroad Ave, Round Lake, IL 60073
- 1.2.2 Village Hall Annex – 442 N Cedar Lake Rd, Round Lake, IL 60073

1.3 Physical Parameters

- 1.3.1 The Village of Round Lake and Lake County will be realigning South Cedar Lake Rd. around the Village of Round Lake. The result of this realignment is that this main thoroughfare will no longer bisect the downtown area allowing for the abandonment of the current rail crossing. This change will require the reconfiguration of the current Metra parking lot and the location of the Metra

warming shelters and the demolition of the annex building adjacent to the Village Hall.

1.4 Budget Parameters:

1.4.1 \$2.2 million excluding site work.

1.5 Project Delivery Method: It is the Architect's understanding that this project will be completed through multiple public entities (Lake County, Metra forces) and multiple prime contracts through a design– bid – build delivery method.

2.0 Architect's Scope of Services

2.1 Project Inception Phase (Schematic Design – 30% submittal)

2.1.1 The Architect will review the scope of work line items as proposed by the Client; and

2.1.2 The Architect will develop a comprehensive work plan for the entire project duration; and

2.1.3 The Architect will attend comprehensive project meetings not directly related to the design of the station. These meetings would be with CMT to review the road realignment and with Teska Associates regarding the Urban planning study. These may include community engagement meetings; and

2.1.4 The Architect will develop a preliminary estimate of probable costs based on the established project program; and

2.1.5 The Architect will assist the Client in prioritizing the scope of work line items to match the available funds as identified by the Client; and

2.1.6 The Architect will meet with the project stakeholders to discuss finishes revisions to the selected prototype Metra warming shelter design; and

2.1.7 The Architects will meet with the Village to delineate the extent of building addition proposed for the Village Hall.

2.1.8 The Architect will complete and submit 30% design documents for review by the project stakeholders.

2.1.9 The Architect will attend a designated number of meetings (6) to complete this phase and receive initial approval of the Schematic Design from the Village, Lake County, and Metra.

2.2 Project Formulation Phase (Design Development):

2.2.1 This phase will no longer be necessary since the proposed building was a design previously approved by Metra.

2.3 Construction Documents Phase:

2.3.1 The Architect will complete drawings and specifications suitable for bidding; and

2.3.2 The Architect will schedule and attend one consultant review meetings; and

2.3.3 The Architect will provide an updated estimate of probable cost; and

- 2.3.4 The Architect will develop a 100% design submittal package following Metra's design standards for review by all the client groups (Village of Round Lake, Metra, Lake County); and
- 2.3.5 The Architect will provide 3D photorealistic renderings at an additional cost of \$1,200 per rendering.
- 2.3.6 The Architect will attend a designated number of meetings (4) to complete this phase and receive initial approval of the Design Development package from the Village, Lake County, and Metra.

2.4 Bidding & Negotiations Phase:

- 2.4.1 The Architect will assist the Client in bidding the project and in the selection of the most responsive and responsible, lowest bidder; and
- 2.4.2 The Architect will prepare and submit necessary building permit paperwork to authorities having jurisdiction over scope of work line items(s) associated with the design of architectural, structural, mechanical, electrical, and plumbing disciplines; and
- 2.4.3 The Architect will attend a reasonable number of meetings as required to complete this phase and assist the client with the approval of construction contract(s) by the Village, Lake County, and Metra.

2.5 Construction Phase:

- 2.5.1 The Architect will assist CMT in administering the Contract for Construction; and
- 2.5.2 The Architect will provide "issued for Construction" drawings and specifications for the construction phase incorporating all addenda and permit comments; and
- 2.5.3 The Architect will perform shop drawing review and will respond to any contractor "Request for Information" during the construction phase; and
- 2.5.4 The Architect will attend Pre-Construction Meetings, Mobilization Meetings, Preinstallation Meetings, bi-monthly Owner-Architect-General Contractor meetings while construction operations are in progress, and Closeout Coordination Meetings; and
- 2.5.5 All construction services field observations will be provided under separate contract (phase III) and are not included in this proposal.

3.0 Deliverables

- 3.1 Construction Documents will consist of drawings and specifications setting forth in detail the quality levels of materials and systems and other requirements for the construction of the Work. We will also provide a final cost estimate of the final design.

4.0 Project Schedule

- 4.1 The project schedule as previously discussed is as follows:
 - 4.1.1 Notice to proceed – Autumn 2023
 - 4.1.2 Design, development of documents – 2023 / 2024
 - 4.1.3 Bidding – late 2024

4.1.4 Construction – 2025, 2026.

4.2 Once established, the project schedule is subject to decisions made in timely manner pertaining to the documents submitted by the Architect for review in order to avoid unreasonable delay in the orderly and sequential progress of the Architect's services.

5.0 Compensation

5.1 The Client will compensate the Architect on a Time and Material basis using the Schedule of Billable Rates attached as "Exhibit A".

5.1.1 The Client and Architect may agree to convert the Architect's compensation from Time-and-Material to a Lump Sum amount. Should the Scope of Work as defined by the Lump Sum amount be reasonably altered, Legat Architects reserves the right to renegotiate the lump sum amount.

5.2 Reimbursable Expenses will be in addition to the Architect's compensation and shall be invoiced using the multipliers indicated below times the expenses incurred by Legat Architects.

5.2.1 Reproduction costs for drawings, specifications, addenda, reports, etc. required to be submitted at the end of each contractual phase and for bidding purposes shall be invoiced at 1.10 times.

5.2.2 Postage and delivery charges for bid documents and materials requested by the Client or required by authorities having jurisdiction shall be invoiced at 1.10 times.

5.2.3 Necessary consultants not listed in this proposal (geotechnical services, survey, acoustical, etc.) as approved by the Client will be invoiced at 1.25 times.

5.2.4 Specialty consultants to provide boundary and topographic surveys and construction materials testing will be invoiced at 1.10 times.

5.2.5 Other specialty consultants as approved by the Client will be invoiced at 1.25 times.

5.2.6 3D photorealist renderings outlined under item 2.3.5 of this proposal for an additional cost of \$1,200 per rendering.

6.0 Client's Responsibilities

6.1 The Client will provide access to the Project Locations and facilities and to all original construction drawings, as-built documents, etc. that document the existing conditions.

6.2 The Client will provide civil and landscaping consulting services and any other specialty consulting services deemed necessary.

- 6.3 The Client will designate a representative authorized to act on the Client's behalf with respect to the projects. The authorized representative will render decisions in a timely manner pertaining to documents submitted by the Architect in order to avoid unreasonable delay in the orderly and sequential progress of the Architect's services.

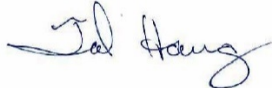
7.0 Miscellaneous Provisions

- 7.1 Unless otherwise provided in this Agreement, Legat Architects and Legat Architects' consultants will have no responsibility for the discovery, presence, handling, removal or disposal of or exposure of persons to hazardous materials in any form at the Project site, including but not limited to asbestos, asbestos products, polychlorinated biphenyl (PCB) or other toxic substances.
- 7.2 Estimates of Probable Cost will be completed by referencing several sources, including active construction projects involving Legat Architects, R.S. Means Construction Cost Data, and historical construction information.

We understand that a CMT Subconsultant agreement will be sent to us once our scope of services is approved. Until the Agreement is executed, you can authorize Legat Architects to proceed by signing below. Please note that Legat Architects will not begin work until written authorization to proceed is received.

If you have any questions regarding this proposal, please contact me at your earliest convenience.

Sincerely,



Ted Haug
Principal

Legat Architects, Inc.
1125 Tri-State Parkway
Suite 730
Gurnee, IL 60031

TOH

ATTACHMENTS Exhibit A - Schedule of Billable Rates
 Proposed Site Plan

FILENAME IN22xxxx VRL Metra Proposal-Architectural Services 080523

ACCEPTANCE We accept the terms of this Proposal:

OWNER
CMT
125 S. Wacker Dr. Suite 2880
Chicago, IL 60606

ARCHITECT
Legat Architects, Inc.
1125 Tri-State Parkway, Suite 720
Gurnee, IL 60031

SIGNATURE

SIGNATURE

PRINT NAME

PRINT NAME

TITLE

TITLE

DATE

DATE



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

Local Public Agency Lake County Department of Transportation	County Lake County	Section Number 02-00065-01-FP
Prime Consultant (Firm) Name CMT Engineering	Prepared By Ted Haug	Date 9/6/2023
Consultant / Subconsultant Name Legat Architects	Job Number 	

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

Remarks

PAYROLL ESCALATION TABLE

CONTRACT TERM	24	MONTHS			OVERHEAD RATE	226.76%
START DATE	11/9/2023				COMPLEXITY FACTOR	0
RAISE DATE	1/1/2024				% OF RAISE	2.00%
END DATE	11/8/2025					

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	11/9/2023	1/1/2024	2	8.33%
1	1/2/2024	1/1/2025	12	51.00%
2	1/2/2025	11/1/2025	10	43.35%

The total escalation = 2.68%

Local Public Agency	County	Section Number
Lake County Department of Transportation	Lake County	02-00065-01-FP
Consultant / Subconsultant Name	Job Number	
Legat Architects		

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	2.68%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal in Charge	\$88.00	\$86.00
Project Manager	\$72.00	\$73.93
Project Architect	\$50.00	\$51.34
Project Associate	\$31.00	\$31.83
Administrative Support	\$29.00	\$29.78

Local Public Agency	County	Section Number
Lake County Department of Transportation	Lake County	02-00065-01-FP
Consultant / Subconsultant Name		Job Number
Legat Architects		

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant
David Mason Associates - Structural Engineer	19,200.00	1,920.00
20/10 Engineering Group - MEPFP Engineer	10,000.00	1,000.00
Total	29,200.00	2,920.00

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

Local Public Agency

Lake County Department of Transportation

County

Lake County

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Legat Architects

Job Number

DIRECT COSTS WORKSHEET

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

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)	0		\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost	0		\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval	0		\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	20	\$30.00	\$600.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day	0		\$0.00
Vehicle Rental	Actual Cost (Up to \$55/day)	0		\$0.00
Tolls	Actual Cost	0		\$0.00
Parking	Actual Cost	0		\$0.00
Overtime	Premium portion (Submit supporting documentation)	0		\$0.00
Shift Differential	Actual Cost (Based on firm's policy)	0		\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)	5	\$30.00	\$150.00
Project Specific Insurance	Actual Cost	0		\$0.00
Monuments (Permanent)	Actual Cost	0		\$0.00
Photo Processing	Actual Cost	0		\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost	0		\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost	0		\$0.00
CADD	Actual Cost (Max \$15/hour)	0		\$0.00
Web Site	Actual Cost (Submit supporting documentation)	0		\$0.00
Advertisements	Actual Cost (Submit supporting documentation)	0		\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)	0		\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)	1	\$300.00	\$300.00
Recording Fees	Actual Cost	0		\$0.00
Transcriptions (specific to project)	Actual Cost	0		\$0.00
Courthouse Fees	Actual Cost	0		\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)	0		\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)	0		\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)	0		\$0.00
Utlility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)	0		\$0.00
Testing of Soil Samples	Actual Cost	0		\$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)	0		\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)	0		\$0.00
3 D Photorealistic Renderings	Actual Cost (Submit supporting documentation)	2	\$1,200.00	\$2,400.00
				\$0.00
				\$0.00
				\$0.00
TOTAL DIRECT COSTS:				\$3,450.00

Local Public Agency

Lake County Department of Transportation

County

Lake County

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Legat Architects

Job Number

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE **226.76%**

COMPLEXITY FACTOR **0**

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Review project scope with CMT		6	423	958	139		1,520	1.22%
Develop Comprehensive Work Palm		2	148	335	49		532	0.43%
Project Meetings not related to the station design		12	752	1,704	248		2,704	2.18%
SD Cost Estimate Development		6	272	617	90		979	0.79%
Owner review of costs		4	296	671	98		1,065	0.86%
Project materials / finishes meeting		9	634	1,437	209		2,280	1.84%
Meet with owner to review Village Hall revisions		14	616	1,396	203		2,215	1.78%
SD Owner Design Review Meeting		5	337	763	111		1,211	0.98%
Format prototype station drawings / Village Hall demo drwgs		42	1,848	4,190	610		6,648	5.36%
Submit SD (30%) Drawings to Metra & Village		6	226	512	75		813	0.66%
Attend SD (30%) Review Meeting		8	501	1,136	165		1,802	1.45%
SD Project Meetings related to station (6 total)		26	1,675	3,799	553		6,027	4.86%
Develop 100% bid documents		114	5,047	11,444	1,665		18,156	14.63%
Consultant coordination / review meeting		8	501	1,136	165		1,802	1.45%
CD cost estimate development		4	296	671	98		1,065	0.86%
Coordinate rendering development		4	296	671	98		1,065	0.86%
Attend CD (100%) Review Meeting		8	501	1,136	165		1,802	1.45%
CD Project Meetings related to station (4 total)		16	1,002	2,273	331		3,606	2.91%
Addenda development		16	665	1,509	220		2,394	1.93%
Permit paperwork		10	431	978	142		1,551	1.25%
Meet with Authorities having jurisdiction		8	501	1,136	165		1,802	1.45%
Bid Phase Project Meeting (1 total)		4	251	568	83		902	0.73%
Develop Issued For Construction drawings		34	1,323	2,999	436		4,758	3.83%
Respond to RFIs		32	2,004	4,545	661		7,210	5.81%
Review Shop Drawings		32	1,643	3,726	542		5,911	4.76%
Construction observation services - not included			-	-	-		-	0.00%
Structural Engineering Services - All Tasks - DMA		24	1,210	2,743	399	19,200	23,552	18.98%
MEPFP Engineering Services - All Tasks - 20/10 Engineers		24	1,210	2,743	399	10,000	14,352	11.57%
			-	-	-		-	
Subconsultant DL							\$2,920.00	2.35%
Direct Costs Total ==>	\$0.00						\$3,450.00	2.78%
TOTALS		478	24,609	55,796	8,119	29,200	124,094	100.00%

80,405

Local Public Agency

Lake County Department of Transportation

County

Lake County

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Legat Architects

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Review project scope with CMT			Develop Comprehensive Work Pain			Project Meetings not related to the station design			SD Cost Estimate Development			Owner review of costs		
		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	86.00	15.0	3.14%	2.70	2	33.33%	28.67												
Project Manager	73.93	115.0	24.06%	17.79	2	33.33%	24.64	2	100.00%	73.93	6	50.00%	36.97	1	16.67%	12.32	4	100.00%	73.93
Project Architect	51.34	193.0	40.38%	20.73	2	33.33%	17.11				6	50.00%	25.67	2	33.33%	17.11			
Project Associate	31.83	141.0	29.50%	9.39										3	50.00%	15.92			
Administrative Support	29.78	14.0	2.93%	0.87															
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
TOTALS		478.0	100%	\$51.48	6.0	100.00%	\$70.42	2.0	100%	\$73.93	12.0	100%	\$62.64	6.0	100%	\$45.35	4.0	100%	\$73.93

Local Public Agency

Lake County Department of Transportation

County

Lake County

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Legat Architects

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 2 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Project materials / finishes meeting			Meet with owner to review Village Hall revisions			SD Owner Design Review Meeting			Format prototype station drawings / Village Hall demo drwgs			Submit SD (30%) Drawings to Metra & Village			Attend SD (30%) Review Meeting		
		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 in Charge	86.00	3	33.33%	28.67	1	7.14%	6.14	1	20.00%	17.20	2	4.76%	4.10						
Project Manager	73.93	3	33.33%	24.64	1	7.14%	5.28	2	40.00%	29.57	4	9.52%	7.04				4	50.00%	36.97
Project Architect	51.34	3	33.33%	17.11	4	28.57%	14.67	2	40.00%	20.54	12	28.57%	14.67	2	33.33%	17.11	4	50.00%	25.67
Project Associate	31.83				6	42.86%	13.64				24	57.14%	18.19	2	33.33%	10.61			
Administrative Support	29.78				2	14.29%	4.25							2	33.33%	9.93			
TOTALS		9.0	100%	\$70.42	14.0	100%	\$43.99	5.0	100%	\$67.31	42.0	100%	\$44.00	6.0	100%	\$37.65	8.0	100%	\$62.64

Local Public Agency

Lake County Department of Transportation

County

Lake County

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Legat Architects

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 3 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	SD Project Meetings related to station (6 total)			Develop 100% bid documents			Consultant coordination / review meeting			CD cost estimate development			Coordinate rendering development			Attend CD (100%) Review Meeting		
		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 in Charge	86.00	2	7.69%	6.62	4	3.51%	3.02												
Project Manager	73.93	12	46.15%	34.12	10	8.77%	6.49	4	50.00%	36.97	4	100.00%	73.93	4	100.00%	73.93	4	50.00%	36.97
Project Architect	51.34	12	46.15%	23.70	40	35.09%	18.01	4	50.00%	25.67							4	50.00%	25.67
Project Associate	31.83				60	52.63%	16.75												
Administrative Support	29.78																		
TOTALS		26.0	100%	\$64.43	114.0	100%	\$44.27	8.0	100%	\$62.64	4.0	100%	\$73.93	4.0	100%	\$73.93	8.0	100%	\$62.64

Local Public Agency

Lake County Department of Transportation

County

Lake County

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Legat Architects

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 4 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	CD Project Meetings related to station (4 total)			Addenda development			Permit paperwork			Meet with Authorities having jurisdiction			Bid Phase Project Meeting (1 total)			Develop Issued For Construction drawings		
		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 in Charge	86.00																		
Project Manager	73.93	8	50.00%	36.97	8	50.00%	25.67	6	60.00%	30.81	4	50.00%	36.97	2	50.00%	36.97	2	5.88%	4.35
Project Architect	51.34	8	50.00%	25.67	8	50.00%	25.67	6	60.00%	30.81	4	50.00%	25.67	2	50.00%	25.67	8	23.53%	12.08
Project Associate	31.83				8	50.00%	15.92	2	20.00%	6.37							24	70.59%	22.47
Administrative Support	29.78							2	20.00%	5.96									
TOTALS		16.0	100%	\$62.64	16.0	100%	\$41.59	10.0	100%	\$43.13	8.0	100%	\$62.64	4.0	100%	\$62.64	34.0	100%	\$38.90

Local Public Agency

Lake County Department of Transportation

County

Lake County

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Legat Architects

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 5 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Respond to RFIs			Review Shop Drawings			Construction observation services - not included			Structural Engineering Services - All Tasks - DMA			MEPFP Engineering Services - All Tasks - 20/10 Engineers					
		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	86.00																		
Project Manager	73.93	16	50.00%	36.97							8	33.33%	24.64	8	33.33%	24.64			
Project Architect	51.34	16	50.00%	25.67	32	100.00%	51.34				6	25.00%	12.84	6	25.00%	12.84			
Project Associate	31.83										6	25.00%	7.96	6	25.00%	7.96			
Administrative Support	29.78										4	16.67%	4.96	4	16.67%	4.96			
TOTALS		32.0	100%	\$62.64	32.0	100%	\$51.34	0.0	0%	\$0.00	24.0	100%	\$50.40	24.0	100%	\$50.40	0.0	0%	\$0.00

***Subconsultant 4 - Chicago Testing Laboratory, Inc.
(CTL)***

Geotechnical



Chicago Testing Laboratory, Inc.

30W114 Butterfield Road, Warrenville, IL 60555 p 630.393.2851 f 630.393.2857
w chicagotestinglab.com e info@chicagotestinglab.com

Testing • Inspection • Training • Consulting • Research • Geotechnical

Lake County DOT
Section No. 02-00065-01-FP
Geotechnical Services – Scope of Work
Cedar Lake Road Realignment

Based on the information provided, the proposed improvements will consist of the realignment of Cedar Lake Road from Park Avenue to Washington Street in Round Lake, IL. The proposed improvements will also affect Nippersink Road, Aylon Avenue, IL-134, Hart Road, Old Cedar Lake Road, Lakewood Terrace and the Metra Station. Chicago Testing Laboratory will provide the Geotechnical Services for the proposed improvements.

Chicago Testing Laboratory will provide the following Professional Services:

1. Coordinate and lay out boring locations and coordinate utility clearance with the State of Illinois One call system (aka JULIE).
2. Coordinate the drilling program using a subcontractor drilling firm and coordinate traffic control using a subcontracting firm. Coordinate traffic control with a subcontractor MOT firm, where applicable.
3. Perform a total of eighty-five (85) soil borings of a total linear footage of 1,295 feet broken down into the following categories below:
 - a. Perform a total of thirty (30) roadway soil borings throughout the project limits as shown to a depth of 10 feet each below ground surface (bgs) for a total linear footage of 300 feet. A detailed breakdown of the roadway borings is included at the end of this document. Borings will be located approximately 500 feet apart in opposite lanes of the proposed improvements. Soil sampling will be completed at 2.5-foot intervals to the boring termination depths in accordance with the most recent addition of the IDOT and ASTM standards including D1586, D1587 and D2113. After completion, the borings will be backfilled with soil cuttings and surface patched with non-shrink grout, where applicable.
 - b. Perform a total of thirty (31) structure soil borings throughout the project limits for the overhead and entry signs, traffic signals, and retaining walls for a total linear footage of 755 feet. A detailed breakdown of the structure borings is included at the end of this document. Soil sampling will be completed at 2.5-foot intervals to a depth of 30 feet bgs and 5-foot intervals thereafter to the boring termination depths in accordance with the most recent addition of the IDOT and ASTM standards including D1586, D1587 and D2113. After completion, the borings will be backfilled with soil cuttings and surface patched with non-shrink grout, where applicable.
 - c. Perform a total of fourteen (14) roadway soil borings within the existing and propose Metra parking lots to a depth of 10 feet each below ground surface (bgs) for a total linear footage of 140 feet. A detailed breakdown of the Metra borings is

included at the end of this document. Soil sampling will be completed at 2.5-foot intervals to the boring termination depths in accordance with the most recent addition of the IDOT and ASTM standards including D1586, D1587 and D2113. After completion, the borings will be backfilled with soil cuttings and surface patched with non-shrink grout, where applicable.

- d. Perform a total of ten (10) mitigation and delineation soil borings throughout the project limits in areas of possible organic and unsuitable soils for a total linear footage of 100 feet. Soil sampling will be completed at 2.5-foot intervals to the boring termination depths in accordance with the most recent addition of the IDOT and ASTM standards including D1586, D1587 and D2113. After completion, the borings will be backfilled with soil cuttings and surface patched with non-shrink grout, where applicable.
- 4. Prepare field logs with the results of field testing and visual descriptions of the soils encountered and retain representative soil samples of the subsurface materials from each boring for geotechnical analysis. CTL will perform IDOT Rimac testing to determine the compressive strength of all cohesive soils, and pocket penetrometer tests to provide a first-hand estimate of the soil strength when Rimac cannot be performed due to sample disturbance. Soil samples will be placed in airtight jars and delivered to CTL's laboratory for additional testing.
- 5. Perform a laboratory investigation to determine the physical characteristics of the soils encountered. Scope of laboratory testing is dependent on the soils encountered during the investigation. Laboratory testing will include, but not limited to, moisture contents, Atterberg limits, gradations, organic contents, and dry unit weights.
- 6. Prepare a Roadway Geotechnical Report (RGR) for the proposed roadway improvements. The RGR will meet IDOT requirements and will include, but not limited to, a synopsis of the conditions encountered, geotechnical design parameters, recommendations for the proposed roadway, traffic signals and retaining walls, anticipated undercut and settlement, if applicable, and any other geotechnical and construction recommendations pertinent to the project.

Roadway Soil Boring Breakdown (10' Each)

Cedar Lake Road – 13 borings

Nippersink Road – 3 borings

Avilon Avenue – 2 borings

IL 134 – 6 borings

Hart Road – 3 borings

Contingency Borings (10%) – 3 borings

Total Roadway Borings – 30 borings

Total Linear Footage – 300 feet

Structure Soil Boring Breakdown

Sign Borings

- Overhead Signs – 6 borings @ 25' each
- Major Entry Signs – 3 borings @ 25' each

Traffic Signal Borings

- Cedar Lake and Nippersink – 4 borings @ 25' each
- Cedar Lake and IL 134 – 4 borings @ 25' each
- Cedar Lake and Hart – 4 borings @ 25' each

Retaining Wall Borings

- Existing Wall N of Nippersink – 3 borings @ 30' each
- Proposed Walls along S side of Nippersink – 4 borings @ 20' each
- Proposed Wall along Cedar Lake Road – 3 borings @ 20' each

Total Structure Borings – 31 borings

Total Linear Footage – 755 feet



Metra Parking Lot Borings (10' Each)

South Parking Lot – 8 borings

North Parking Lot – 3 borings

Metra Access Road – 3 borings

Total Metra Borings – 14 borings

Total Linear Footage – 140 feet

Manhours Breakdown

Field Investigation

Field Geologist/Technician	148 hours
Project Manager	40 hours
Sr. Geotechnical Engineer	20 hours

Laboratory Testing

Project Manager	20 hours
-----------------	----------

Report Preparation and Submittal

Field Geologist	124 hours
Project Manager	200 hours
Sr. Geotechnical Engineer	68 hours

Administration

Principal	12 hours
-----------	----------

<u>Total Hours</u>	632 hours
---------------------------	------------------

**PAYROLL ESCALATION TABLE
ANNIVERSARY RAISES
COST PLUS FIXED FEE**

FIRM NAME
PRIME/SUPPLEMENT

Chicago Testing Laboratory, Inc.
Crawford, Murphy & Tilly

DATE 09/14/23
PTB NO. 209

CONTRACT TERM 24 MONTHS
START DATE 11/9/2023
RAISE DATE ANNIVERSARY

OVERHEAD RATE 168.78%
COMPLEXITY FACTOR 0
% OF RAISE 2.00%

ESCALATION PER YEAR

DETERMINE THE MID POINT OF THE AGREEMENT

12

CALCULATE THE ESCALATION FACTOR TO THE MIDPOINT OF THE CONTRACT

2.00%

The total escalation for this project would be: **2.00%**

PAYROLL RATES

FIRM NAME
PRIME/SUPPLEMENT
PTB NO.

Chicago Testing Laborator DATE
Crawford, Murphy & Tilly
209

09/14/23

ESCALATION FACTOR 2.00%

CLASSIFICATION	CURRENT RATE	CALCULATED RATE
Project Manager	\$51.36	\$52.39
Senior Geotechnical Engineer	\$68.25	\$69.62
Geotech Field Technician I	\$35.00	\$35.70
Geotech Field Technician II	\$44.54	\$45.43
Principal	\$85.00	\$86.70
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00

COST PLUS FIXED FEE COST ESTIMATE OF CONSULTANT SERVICES

FIRM
PTB
PRIME/SUPPLEMENT

Chicago Testing Laboratory, Inc.
209
Crawford, Murphy & Tilly

OVERHEAD RATE
COMPLEXITY FACTOR

1.6878
0

DATE 09/14/23

DBE DROP BOX	ITEM	MANHOURS (A)	PAYROLL (B)	OVERHEAD & FRINGE BENF (C)	IN-HOUSE DIRECT COSTS (D)	FIXED FEE (E)	Outside Direct Costs (F)	SERVICES BY OTHERS (G)	DBE TOTAL (H)	TOTAL (B-G)	% OF GRAND TOTAL
	Field Investigation	208	10,016.93	16,906.58	1,300.00	3,706.26	90,000.00			121,929.77	57.18%
	Laboratory Testing	20	1,047.74	1,768.38	24,891.00	387.67				28,094.79	13.17%
	Analysis and Reporting	392	19,638.06	33,145.12		7,266.08				60,049.26	28.16%
	Administration	12	1,040.40	1,755.99		384.95				3,181.34	1.49%
	Subconsultant DL					0.00				0.00	0.00%
	TOTALS	632	31,743.13	53,576.06	26,191.00	11,744.96	90,000.00	0.00	0.00	213,255.16	100.00%

DBE 0.00%

DBE

AVERAGE HOURLY PROJECT RATES

FIRM
PTB
PRIME/SUPPLEMENT

Chicago Testing Laboratory, Inc.
209
Crawford, Murphy & Tilly

DATE 09/14/23

SHEET 1 OF 5

12

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES			Field Investigation			Laboratory Testing			Analysis and Reporting			Administration					
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Project Manager	52.39	260	41.14%	21.55	40	19.23%	10.07	20	100.00%	52.39	200	51.02%	26.73						
Senior Geotechnical Engineer	69.62	88	13.92%	9.69	20	9.62%	6.69				68	17.35%	12.08						
Geotech Field Technician I	35.70	144	22.78%	8.13	20	9.62%	3.43				124	31.63%	11.29						
Geotech Field Technician II	45.43	128	20.25%	9.20	128	61.54%	27.96												
Principal	86.70	12	1.90%	1.65										12	100.00%	86.70			
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
TOTALS		632	100%	\$50.23	208	100%	\$48.16	20	100%	\$52.39	392	100%	\$50.10	12	100%	\$86.70	0	0%	\$0.00

COMPANY NAME: Chicago Testing Laboratory, Inc.
PTB NUMBER: Cedar Lake Road Realignment
TODAY'S DATE: 9/14/2023

ITEM	ALLOWABLE	UTILIZE W.O. ONLY	QUANTITY J.S. ONLY	CONTRACT RATE	TOTAL
Per Diem (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			\$0.00	\$0.00
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost (Up to state rate maximum)			\$0.00	\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost			\$0.00	\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00	\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			\$0.000	\$0.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day	X	20.0	\$65.00	\$1,300.00
Vehicle Rental	Actual cost (Up to \$55/day)			\$0.00	\$0.00
Tolls	Actual cost			\$0.00	\$0.00
Parking	Actual cost			\$0.00	\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00	\$0.00
Shift Differential	Actual cost (Based on firm's policy)			\$0.00	\$0.00
Overnight Delivery/Postage/Courier Service	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Copies of Deliverables/Mylars (In-house)	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Copies of Deliverables/Mylars (Outside)	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Project Specific Insurance	Actual cost			\$0.00	\$0.00
Monuments (Permanent)	Actual cost			\$0.00	\$0.00
Photo Processing	Actual cost			\$0.00	\$0.00
2-Way Radio (Survey or Phase III Only)	Actual cost			\$0.00	\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual cost			\$0.00	\$0.00
CADD	Actual cost (Max \$15/hour)			\$0.00	\$0.00
Web Site	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Advertisements	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Public Meeting Facility Rental	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual cost (Submit supporting documentation)			\$0.00	\$0.00
Recording Fees	Actual cost			\$0.00	\$0.00
Transcriptions (specific to project)	Actual cost			\$0.00	\$0.00
Courthouse Fees	Actual cost			\$0.00	\$0.00
Storm Sewer Cleaning and Televising	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Traffic Control and Protection	Actual cost (Requires 2-3 quotes with IDOT approval)	X	1	\$26,000.00	\$26,000.00
Aerial Photography and Mapping	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Utility Exploratory Trenching	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Testing of Soil Samples*	Actual cost			\$0.00	\$0.00
Lab Services*	Actual cost (Provide breakdown of each cost)	X	1	\$24,891.00	\$24,891.00
Equipment and/or Specialized Equipment Rental*	Actual cost (Requires 2-3 quotes with IDOT approval)			\$0.00	\$0.00
Drilling Services		X	1	\$64,000.00	\$64,000.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
TOTAL DIRECT COST					\$116,191.00

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

COMPANY NAME: Chicago Testing Laboratory, Inc.
PTB NUMBER: Cedar Lake Road Realignment
TODAY'S DATE: 9/14/2023

ITEM	ALLOWABLE	UTILIZE W.O. ONLY	QUANTITY J.S. ONLY	CONTRACT RATE	TOTAL
------	-----------	----------------------	-----------------------	------------------	-------

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



Chicago Testing Laboratory, Inc.

30W114 Butterfield Road, Warrenville, IL 60555 p 630.393.2851 f 630.393.2857
w chicagotestinglab.com e info@chicagotestinglab.com

Testing • Inspection • Training • Consulting • Research • Geotechnical

Tyrrell Road - Raymond/Kildare and Mason Intersections
Laboratory Testing Services
CTL Proposal No. CTL23097

Laboratory Services	Quantity	Unit Rate	Cost
Moisture Content - AASHTO T265	518	\$12.00	\$6,216.00
Atterberg Limits - AASHTO T89/T90	45	\$115.00	\$5,175.00
Grain Size Analysis - AASHTO T27	15	\$155.00	\$2,325.00
Hydrometer - AASHTO T88	45	\$195.00	\$8,775.00
Organic Content - AASHTO T267	30	\$80.00	\$2,400.00
		Total	\$24,891.00

Subconsultant 5 - Hitchcock Design Group

Downtown Streetscape



Scope of Services

Phase II – Final Design and Engineering

The goal is to finalize the Plans, Specifications, and Estimates (PS&E) and submit the documents as required by IDOT for final approval and bid letting.

A. Project Initiation, Coordination, Data Collection

Objective: Coordinate with the Consultant Team, County, IDOT, and Village to clearly identify the project requirements, IDOT submittal, review, and approval processes, and completed Phase 1 information as necessary to initiate the project.

Process: Hitchcock Design Group will:

1. Identify jurisdictional interests, operational practices, development plans and construction procedures required by the applicable regulatory groups including:
 - a. Village
 - b. County
 - c. State
 - d. Federal
2. Collect and review data and background information for the project area and the immediate surroundings including:
 - a. Aerial photography
 - b. GIS information
 - c. Environmental reports
 - d. Geo-technical reports
 - e. Topographic surveys
 - f. Boundaries, property ownership and easements
 - g. Utility atlases
 - h. Power and communication utility information
 - i. Preliminary engineering plans
 - j. Zoning ordinances
 - k. Village comprehensive plan
 - l. Village streetscape plan
3. Review the previously completed Phase I documents to become familiar with the project and scope of work.
4. Utilizing the data and background information and Phase I documents, prepare **Base Maps** suitable for preparation of the streetscape and landscape plans.
5. Observe and photograph the project area and immediate surroundings to identify readily apparent physical conditions and patterns of use, including:
 - a. Cedar Lake Road
 - b. Nippersink Road
 - c. IL 134/Railroad Avenue
 - d. Hart Road/Old Cedar Lake Road
 - e. Aylon Avenue
 - f. Metra Station Area
 - g. Four detention ponds
 - h. Goodnow Boulevard (downtown) - Excluded
 - i. Existing Cedar Lake Road (downtown) – Excluded
 - j. Downtown Plaza - Excluded
6. Prepare a **Streetscape and Landscape Improvement Program** that summarizes the background information as a basis for further development.



B. Preliminary Streetscape Design

Objective: Reach consensus on the type, location, organization, scale, character, and potential cost of specific streetscape improvements.

Process: Based on the Streetscape Design plan and components provided by the Village, Hitchcock Design Group will:

1. Prepare an **Overall Streetscape Plan** identifying the application and limits of the proposed streetscape improvements.
2. Prepare **Streetscape Prototype Drawings** for each unique application, including appropriate plan views, sections, elevations and other graphic images to illustrate the organization, scale and character of the improvements including:
 - a. Sidewalks and multi-use paths
 - b. Accent paving
 - c. High visibility crosswalks
 - d. Relocated Veterans Memorial and pathways (relocation in-kind, fountain component not included)
 - e. Site furnishings
 - f. Decorative lighting and traffic signals (locations only, electrical engineering by others)
 - g. Gateways and signage (locations only, final design and detailing by others)
 - h. Retaining walls (aesthetics only, engineering by others)
3. Prepare **Streetscape Materials Plans** including products and materials based on the prototype drawings for each application.
4. Prepare an **Overall Landscape Plan** identifying the application and limits of the proposed landscape improvements.
5. Prepare **Landscape Prototype Drawings** for each unique application, including appropriate plan views, sections, elevations and other graphic images to illustrate the organization, scale and character of the improvements including:
 - a. Shade, ornamental, and evergreen trees
 - b. Shrubs
 - c. Perennials
 - d. Naturalized areas
 - e. Turn and grasses
6. Prepare **Landscape Material Lists** including the types of plant materials, seeding, and accessories based on the prototype drawings for each application.
7. Prepare a **Preliminary Construction Cost Estimate** using recognized systems costs for each prototype application.

Deliverables: **Overall Streetscape Plan; Streetscape Prototype Drawings; Streetscape Materials Plans; Overall Landscape Plan; Landscape Prototype Drawings; Landscape Materials Plans; Preliminary Construction Cost Estimate**

C. Plan Development

Objective: Produce the Streetscape and Landscape Plans, Special Provisions, and Estimates to be incorporated into the overall project plans, for County, Metra, IDOT, and Village review and approval to bid and construct the improvements.

Process: Hitchcock Design Group will prepare the **Streetscape and Landscape Plans** based on IDOT standards including:



1. **Streetscape Layout and Materials Plans** (aligned with Roadway plan and profiles and Metra Station geometric plans)
 - a. Sidewalks and multi-use paths
 - b. Accent paving
 - c. High visibility crosswalks
 - d. Relocated Veterans Memorial and pathways (relocation in-kind, fountain component not included)
 - e. Site furnishings
 - f. Decorative lighting and traffic signals (locations only, electrical engineering by others)
 - g. Gateways and signage (locations only, final design and detailing by others)
 - h. Retaining walls (aesthetics only, engineering by others)
2. **Streetscape Detailed Grading Plans** (supplemental to Roadway and Metra Station grading plans)
3. **Streetscape Construction Details** including:
 - a. Sidewalks and multi-use paths
 - b. Accent paving
 - c. High visibility crosswalks
 - d. Relocated Veterans Memorial and pathways (relocation in-kind, fountain component not included)
 - e. Site furnishings
 - f. Decorative lighting and traffic signals (locations only, electrical engineering by others)
 - g. Gateways and signage (locations only, final design and detailing by others)
 - h. Retaining walls (aesthetics only, engineering by others)
4. **Landscape plans** (aligned with Roadway plan and profiles, Station geometric plans, intersection detail plans, detention basin plans)
5. Prepare the **Streetscape and Landscape Special Provisions** based on IDOT standards.
6. Prepare the **Streetscape and Landscape Quantities, Pay Items, and Construction Cost Estimate**.

Deliverables: Streetscape Layout and Materials Plans; Streetscape Detailed Grading Plans; Streetscape Construction Details; Landscape Plans; Special Provisions; Quantities, Pay Items and Construction Cost Estimate.

D. Public Involvement

Objective: Provide information to the project stakeholders and general public to communicate the proposed improvements and receive feedback.

Process: Hitchcock Design Group will:

1. Prepare for and participate in a Downtown Business Coordination meeting.
2. Prepare for and participate in a Public Information Meeting.
3. Provide information to be used by others to prepare and update a Project Website.

E. Coordination, Submittals, and Reviews

Objective: Review the Plans, Special Provisions, and Estimates with the appropriate stakeholders throughout the process, as necessary to facilitate approvals and finalize the documents to bid and construct the improvements.



Process: Hitchcock Design Group will:

1. Participate in **Reviews and Coordination** throughout the duration of the project. HDG will participate in meetings upon request when relevant scope items are on the Agenda for discussion, including:
 - a. Weekly coordination with consultant team
 - b. Bi-weekly coordination with LCDOT
 - c. Periodic IDOT coordination
 - d. Periodic Metra coordination
 - e. Periodic Village coordination
2. Coordinate with the consultant team to provide **Submittals** to be included in the overall project documents, including:
 - a. LCDOT Preliminary Submittal (PS&E)
 - b. Pre-Final IDOT Submittal
 - c. Final IDOT Submittal
3. Coordinate with the consultant team to address comments and provide **Minor Resubmittals** to be included in the overall project documents, including:
 - a. Address late IDOT comments
 - b. Address follow-up comments from CBLRS after district reviews
 - c. Update IDOT forms, special provisions, pay items if the letting is delayed
4. Coordinate with the consultant team to provide **Station Area Metra Submittals** to be included in the overall project documents, including:
 - a. Five submittals of station area plans to Metra independent from IDOT submittals

Deliverables: **Plan, Special Provisions, and Estimate submittals to be included into overall Project Documents**

F. Bidding and Negotiation

Objective: Help select and engage a qualified Contractor to construct the improvements.

Process: During the bidding period, HDG will:

1. Review bidder's questions and provide clarifications as required.
2. Review bids received and provide award recommendations.

Deliverables: **Clarifications; Supplemental Instructions; Recommendations as required**

General Project Administration

In addition to the services outlined above, HDG will administer the performance of its own work throughout the term of the contract by providing the following services:

Communications

1. Participate in the preparation of schedules, agendas, and summaries of periodic meetings.
2. Rehearse, attend, and present at public forums identified.
3. Coordinate with the project team, collect, and disseminate communications from other parties.
4. Periodically inform your representative about our progress.



Schedules

1. Participate in the creation, and updates to the project schedule.
2. Coordinate the activities of our staff with other consultants.

Staffing

1. Select and assign staff members to appropriate tasks and services.

File Maintenance

1. Establish and maintain appropriate correspondence, financial, drawing and data files.
2. Obtain appropriate insurance certificates from consultants Maintain appropriate time and expense records.

Optional, Additional Services

Services or meetings not specified in this scope of services will be considered additional services. If circumstances arise during our performance of the outlined services that we believe require additional services, we will promptly notify you about the nature, extent and probable additional cost of the additional services, and perform only such additional services following your written authorization.



Local Public Agency Lake County Department of Transportation	County Lake	Section Number 02-00065-01-FP
Prime Consultant (Firm) Name CMT	Prepared By Tim King	Date 8/29/2023
Consultant / Subconsultant Name Hitchcock Design Group	Job Number 	

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

Remarks

PAYROLL ESCALATION TABLE

CONTRACT TERM	24	MONTHS			
START DATE	11/8/2023			OVERHEAD RATE	191.53%
RAISE DATE	11/8/2024			COMPLEXITY FACTOR	
				% OF RAISE	2.00%
END DATE	11/7/2025				

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	11/8/2023	11/8/2024	12	50.00%
1	11/9/2024	11/8/2025	12	51.00%

Local Public Agency	County	Section Number
Lake County Department of Transportati	Lake	02-00065-01-FP
Consultant / Subconsultant Name		Job Number
Hitchcock Design Group		

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	1.00%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal	\$61.20	\$61.81
Sr Associate	\$41.04	\$41.45
Associate	\$32.26	\$32.58
Jr Associate	\$28.73	\$29.02

Local Public Agency	County	Section Number
Lake County Department of Transportatio	Lake	02-00065-01-FP
Consultant / Subconsultant Name		Job Number
Hitchcock Design Group		

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant
Total	0.00	0.00

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

Local Public Agency

Lake County Department of Transportation

County

Lake

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Hitchcock Design Group

Job Number

DIRECT COSTS WORKSHEET

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

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	500	\$0.66	\$327.50
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day			\$0.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost			\$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)	10	\$15.00	\$150.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)	150	\$0.50	\$75.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)	150	\$1.50	\$225.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utlility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost			\$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
TOTAL DIRECT COSTS:				\$777.50

Local Public Agency

Lake County Department of Transportation

County

Lake

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Hitchcock Design Group

Job Number

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE **191.53%**

COMPLEXITY FACTOR **0**

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
A.1. Jurisdictional requirements		8	413	791	136		1,340	1.17%
A.2. Review project data		8	413	791	136		1,340	1.17%
A.3. Review Phase 1 documents		8	413	791	136		1,340	1.17%
A.4. Prepare base maps		20	630	1,207	208		2,045	1.78%
A.5. Observe and photograph site		12	529	1,013	175		1,717	1.50%
A.6. Prepare program		12	579	1,109	191		1,879	1.64%
B.1. Overall streetscape plan		24	796	1,524	263		2,583	2.25%
B.2. Streetscape prototype drawings		34	1,180	2,260	389		3,829	3.34%
B.3. Streetscape materials plans		26	948	1,816	313		3,077	2.68%
B.4. Overall landscape plan		18	687	1,317	227		2,231	1.95%
B.5. Landscape prototype drawings		17	590	1,130	195		1,915	1.67%
B.6. Landscape material lists		6	289	554	96		939	0.82%
B.7. Preliminary cost estimate		14	522	999	172		1,693	1.48%
C.1. Layout and materials plans		88	3,161	6,054	1,043		10,258	8.94%
C.2. Grading detail plans		68	2,389	4,575	788		7,752	6.76%
C.3. Construction details		96	3,421	6,553	1,129		11,103	9.68%
C.4. Landscape plans		108	3,848	7,370	1,270		12,488	10.89%
C.5. Special provisions		32	1,489	2,852	491		4,832	4.21%
C.6. Pay items, quant, cost estimate		60	2,199	4,212	726		7,137	6.22%
D.1. Downtown business meeting		16	645	1,236	213		2,094	1.83%
D.2. Public information meeting		16	645	1,236	213		2,094	1.83%
D.3. Provide website information		20	811	1,553	268		2,632	2.29%
E.1. Reviews and coordination		80	4,130	7,911	1,363		13,404	11.69%
E.2. Submittals		44	1,607	3,078	530		5,215	4.55%
E.3. Resubmittals		28	1,043	1,998	344		3,385	2.95%
E.4. Station area submittals		20	811	1,553	268		2,632	2.29%
F.1. Questions clarifications		18	687	1,317	227		2,231	1.95%
F.2. Review and recommendations		5	228	436	75		739	0.64%
			-	-	-		-	
Subconsultant DL							\$0.00	
Direct Costs Total ==>	\$0.00						\$777.50	0.68%
TOTALS		906	35,103	67,236	11,585	-	114,702	100.00%

Local Public Agency

Lake County Department of Transportation

County

Lake

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Hitchcock Design Group

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			A.1. Jurisdictional requirements			A.2. Review project data			A.3. Review Phase 1 documents			A.4. Prepare base maps			A.5. Observe and photograph site		
		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	61.81	126.0	13.91%	8.60	4	50.00%	30.91	4	50.00%	30.91	4	50.00%	30.91				4	33.33%	20.60
Sr Associate	41.45	348.0	38.41%	15.92	4	50.00%	20.73	4	50.00%	20.73	4	50.00%	20.73	4	20.00%	8.29	4	33.33%	13.82
Associate	32.58	100.0	11.04%	3.60															
Jr Associate	29.02	332.0	36.64%	10.63										16	80.00%	23.21	4	33.33%	9.67
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
TOTALS		906.0	100%	\$38.75	8.0	100.00%	\$51.63	8.0	100%	\$51.63	8.0	100%	\$51.63	20.0	100%	\$31.50	12.0	100%	\$44.09

Local Public Agency

Lake County Department of Transportation

County

Lake

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Hitchcock Design Group

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 2 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	A.6. Prepare program			B.1. Overall streetscape plan			B.2. Streetscape prototype drawings			B.3. Streetscape materials plans			B.4. Overall landscape plan			B.5. Landscape prototype drawings		
		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	61.81	4	33.33%	20.60				2	5.88%	3.64	2	7.69%	4.75	2	11.11%	6.87	1	5.88%	3.64
Sr Associate	41.45	8	66.67%	27.63	8	33.33%	13.82	8	23.53%	9.75	8	30.77%	12.75	8	44.44%	18.42	4	23.53%	9.75
Associate	32.58							8	23.53%	7.67	8	30.77%	10.03				4	23.53%	7.67
Jr Associate	29.02				16	66.67%	19.34	16	47.06%	13.66	8	30.77%	8.93	8	44.44%	12.90	8	47.06%	13.66
TOTALS		12.0	100%	\$48.24	24.0	100%	\$33.16	34.0	100%	\$34.71	26.0	100%	\$36.46	18.0	100%	\$38.19	17.0	100%	\$34.71

Local Public Agency

Lake County Department of Transportation

County

Lake

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Hitchcock Design Group

Job Number

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

SHEET 3 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	B.6. Landscape material lists			B.7. Preliminary cost estimate			C.1. Layout and materials plans			C.2. Grading detail plans			C.3. Construction details			C.4. Landscape 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	61.81	2	33.33%	20.60	2	14.29%	8.83	4	4.55%	2.81	4	5.88%	3.64	4	4.17%	2.58	4	3.70%	2.29
Sr Associate	41.45	4	66.67%	27.63	4	28.57%	11.84	36	40.91%	16.96	16	23.53%	9.75	36	37.50%	15.54	40	37.04%	15.35
Associate	32.58							8	9.09%	2.96	24	35.29%	11.50	16	16.67%	5.43	24	22.22%	7.24
Jr Associate	29.02				8	57.14%	16.58	40	45.45%	13.19	24	35.29%	10.24	40	41.67%	12.09	40	37.04%	10.75
TOTALS		6.0	100%	\$48.24	14.0	100%	\$37.25	88.0	100%	\$35.92	68.0	100%	\$35.13	96.0	100%	\$35.64	108.0	100%	\$35.63

Local Public Agency

Lake County Department of Transportation

County

Lake

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Hitchcock Design Group

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 4 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	C.5. Special provisions			C.6. Pay items, quant, cost estimate			D.1. Downtown business meeting			D.2. Public information meeting			D.3. Provide website information			E.1. Reviews and 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	61.81	8	25.00%	15.45	4	6.67%	4.12	4	25.00%	15.45	4	25.00%	15.45	4	20.00%	12.36	40	50.00%	30.91
Sr Associate	41.45	24	75.00%	31.09	24	40.00%	16.58	4	25.00%	10.36	4	25.00%	10.36	8	40.00%	16.58	40	50.00%	20.73
Associate	32.58				8	13.33%	4.34												
Jr Associate	29.02				24	40.00%	11.61	8	50.00%	14.51	8	50.00%	14.51	8	40.00%	11.61			
TOTALS		32.0	100%	\$46.54	60.0	100%	\$36.65	16.0	100%	\$40.32	16.0	100%	\$40.32	20.0	100%	\$40.55	80.0	100%	\$51.63

Local Public Agency

Lake County Department of Transportation

County

Lake

Section Number

02-00065-01-FP

Consultant / Subconsultant Name

Hitchcock Design Group

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 5 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	E.2. Submittals			E.3. Resubmittals			E.4. Station area submittals			F.1. Questions clarifications			F.2. Review and recommendations			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	61.81	4	9.09%	5.62	4	14.29%	8.83	4	20.00%	12.36	2	11.11%	6.87	1	20.00%	12.36			
Sr Associate	41.45	16	36.36%	15.07	8	28.57%	11.84	8	40.00%	16.58	8	44.44%	18.42	4	80.00%	33.16			
Associate	32.58																		
Jr Associate	29.02	24	54.55%	15.83	16	57.14%	16.58	8	40.00%	11.61	8	44.44%	12.90						
TOTALS		44.0	100%	\$36.52	28.0	100%	\$37.25	20.0	100%	\$40.55	18.0	100%	\$38.19	5.0	100%	\$45.52	0.0	0%	\$0.00

Subconsultant 6 – Fehr Graham

Special Waste – Preliminary Site Investigation (PSI) – Non-State Areas

September 29, 2023

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

**RE: Environmental Services
Cedar Lake Road Alignment Project
Round Lake, Illinois**

Dear Mr. Cole:

Fehr Graham is pleased to provide this Scope of Work for a Local Preliminary Site Investigation (PSI) on the Cedar Lake Road Alignment project in Round Lake, Illinois. The PSI is proposed based on the PESA (May 17, 2022) completed by Crawford, Murphy, & Tilly, Inc. (CMT) and additional drawings, markups and documents provided by CMT regarding the project.

PROJECT BACKGROUND

Based on information provided by CMT, Fehr Graham understands the project involves approximately 0.7 miles of 5-lane arterial roadway realignment of Cedar Lake Road, extending from approximately 850 feet north of Hart Road to approximately 1,100 feet south of Nippersink Road.

The roadway realignment intersects with and includes a relocated at-grade railroad crossing of the Metra Milwaukee District North Line (MD-N). The realignment will impact four cross streets, including IL-134 (Railroad Avenue) – resulting in an additional 1.2 miles of roadway improvements.

The project will also include shared-use path construction and improvements along the existing Metra Round Lake Station. The project is expected to require approximately 8.8 acres of temporary easement, 1 acre of permanent easement and 7.7 acres of permanent ROW. The maximum depth of excavation is anticipated to be between 2-20 feet for roadway reconstruction, new construction and storm sewer reconstruction.

The CMT PESA identified 11 Sites with Recognized Environmental Conditions. The PESA Sites are provided as Attachment 1, as provided in the CMT PESA (May 17, 2022). Based on the proposed roadway realignment and construction limits, Fehr Graham understands that the PESA REC Sites: 5, 13, 14, 15, 16, 17, 18, 19, 25, 38, 39, 41, 70, 74, 75, and 77 cannot be avoided during project construction and will require PSI evaluation

Furthermore, evaluation of pH will be evaluated for Clean Construction Demolition Debris (CCDD) disposal and LPC 662 Certification at Sites: 2, 6, 7, 8, 11, 21, 22, 26, 27, 32, 33, 34, 36, 37, 57, 58, 66, 67, 68, 69, 73, and 76.

In addition, CMT has requested a Phase I ESA and hazardous building materials survey be completed on the existing Metra station site in preparation for demolition and construction activities.

CMT has also requested pre-demolition asbestos-containing building materials inspections at the following properties along the proposed alignment:

- 314 Railroad Avenue - Garage on Jahn's Property
- 499 Railroad Avenue – Iron Horse Grill
- 442 North Cedar Lake Road – Round Lake Annex Building
- 444, 448 North Cedar Lake Road – Magee Building
- 452, 454, 456 North Cedar Lake Road – Pizarro Building
- 458, 460 North Cedar Lake Road – Milem Building
- 604 West Nippersink Road – Single Family Residence

SCOPE OF WORK

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. The PESA identified several sites as RECs based on historical or current use at PESA REC Sites. If these sites cannot be avoided, soil testing is required to determine proper handling and disposal during proposed excavation activities.

The following scope of work has been prepared for the PSI. The scope of work is subject to change based on direction received from CMT regarding additional acquisition and/or construction activities leading to soil generation on identified REC sites.

All proposed PSI field activities will be conducted under the direction and supervision of Fehr Graham professional staff. The proposed work scope includes the following:

- Prior to any intrusive activity, a public utility clearance will be requested to identify subsurface utilities in public rights-of-way (ROWs).
- Direct-push drilling at up to 34 soil boring locations to a depth of up to 20 feet below ground surface (bgs). Proposed soil boring locations are provided on Page 1 of Attachment 1.
- 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 the bottom of the soil boring 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 operations, as follows per PESA Site:
 - Site 5 – RCRA Metals, Pesticides, pH
 - Site 13 – RCRA Metals, VOCs/BTEX, SVOCs, pH
 - Site 14 – RCRA Metals, VOCs/BTEX, SVOCs, pH
 - Site 15 – RCRA Metals, PCBs, pH
 - Site 16 – RCRA Metals, PCBs, pH
 - Site 17 – RCRA Metals, PCBs, pH
 - Site 18 – RCRA Metals, VOCs, pH
 - Site 19 – RCRA Metals, VOCs, pH
 - Site 25 – RCRA Metals and pH
 - Site 38 – RCRA Metals, VOCs/BTEX, SVOCs, pH
 - Site 39 - RCRA Metals, VOCs/BTEX, SVOCs, pH
 - Site 41 – RCRA Metals, VOCs/BTEX, SVOCs, pH
 - Site 70 – RCRA Metals, VOCs/BTEX, SVOCs, pH
 - Site 74 – RCRA Metals, Pesticides, pH (2)
 - Site 75 – RCRA Metals, Pesticides, pH
 - Site 77 – RCRA Metals, VOCs/BTEX, SVOCs, pH
- An additional 20 sample locations along the proposed alignment (led by the local agency) will be analyzed for soil pH to address requirements of accepting CCDD facilities for LPC 662 certification.
- If groundwater is encountered at Sites 5, 12/13, 18/19, 38, 39/41, 70, or 74, the soil boring will be converted to a temporary monitoring well by lowering 1-inch Schedule 40 PVC well screen and riser pipe into the boring. A single groundwater sample will be collected using a peristaltic pump and disposable tubing and/or disposal 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:

 - Volatile Organic Compounds
 - Semi-Volatile Organic Compounds
 - Polychlorinated Biphenyls,
 - Total and Dissolved RCRA 8 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 IEPA 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, LPC 663 forms and certification will be provided is appropriate. The report will include figures of soil boring locations and REC Sites. Project drawings will be required from CMT in AutoCAD format to allow for the overlay of PSI-derived information.
- Fehr Graham will prepare an overall data submittal package for accepting CCDD facility review and pre-approval.

PHASE I ESA – METRA STATION SITE

The Phase I ESA is intended to be completed in accordance with ASTM E1527-21, [Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process](#), to satisfy the All-Appropriate Inquiry requirements of the Small Business Liability Relief and Revitalization Act, which amended the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

The proposed scope for this Phase I ESA is:

- 1) Conduct site reconnaissance to observe and evaluate readily accessible interior and exterior areas of the Property. Observe surrounding properties from the Property and accessible public right-of-way areas.
- 2) Under ASTM E1527-21, it is the responsibility of the User of the Phase I ESA to conduct a search of reasonably ascertainable recorded land title records and judicial records for the existence of environmental liens and Activity and Use Limitations (AULs) on the Subject Property. Users may rely on transaction-related title insurance documentation or title search information that identifies environmental covenants, environmental easements, environmental liens, environmental use controls, or any other recorded instrument that restricts, affects, or encumbers the title to the Subject Property associated with the presence of hazardous substances or petroleum products. Confirmation of this search is required to be disclosed on the supplied [User-Provided Information Sheet](#) with supporting documentation to supplement our review of historical records.

**Please note that you may request Fehr Graham to obtain and review an environmental lien/AUL search for an additional fee of \$500 per PIN, which can be added to our proposed base estimate.*

- 3) Review the ASTM E1527-21 Standard Environmental Record Sources available through a database record search to identify RECs on the Property and the general vicinity. If necessary to allow for a detailed evaluation of environmental conditions related to the Subject Property or a surrounding site with potential to impact the Subject Property, we will request readily available permits, enforcement documents, and other environmental records contained in regulatory agency files and allow for 1 hour* of review time.

**Please note if a records request generates a considerable volume of records requiring more than 1 hour of review time, a supplemental fee of \$100 per hour may be applied to our proposed base estimate upon your authorization for an in-depth review.*

4. Review readily available historical data sources to develop an understanding of the previous use(s) of the Subject Property and surrounding sites which may lead to identification of RECs. Data sources include historical aerial images, available Sanborn Fire Insurance maps, historical topographic maps, and historical city directories. A chain-of-title review may be completed if supplied by the User.
5. Evaluate physical setting sources for site geology and hydrogeology to assess the impact of potential contaminant migration as related to RECs identified at the Property and surrounding sites.
6. Interview readily available past and present owners, operators and occupants of the Subject Property.

Fehr Graham also requires the following information for the Subject Property be provided by the Phase I ESA User at the time of your authorization to proceed:

- » Contact information for the property owner(s) and occupant(s) and any readily available past owner(s) and occupant(s).
- » Completion of the [User-Provided Information Sheet](#) attached to this proposal.
- » Disclosure of all known past and present uses of the Property and site operations.
- » Access to all readily available historical environmental-related files, information, reports and compliance permits for the Property.
- » Title-related records as previously noted in Scope Item No. 2 of the proposed work scope.

HAZARDOUS BUILDING MATERIALS SURVEY – METRA STATION SITE

LEAD-BASED PAINT INSPECTION

Fehr Graham will provide an IDPH-licensed Lead Inspector to perform the lead-based paint (LBP) inspections. We will utilize a hand-held X-ray Fluorescence Analyzer (XRF) to test for the presence of LBP. The LBP screening inspection will include XRF testing for lead content for most testing combinations in and around the accessible interior/exterior areas of the building. Information gathered in the field will then be documented in a written report. The final report will include a summary of all data collected in the field, including detailed XRF data of all testing combinations sampled and identification of all lead-based paint as a result of the screening inspection.

ASBESTOS-CONTAINING BUILDING MATERIALS INSPECTION

Fehr Graham will provide an Illinois-licensed asbestos building inspector to inspect and collect samples from suspected Asbestos-Containing Building Materials (ACBMs). Samples will be analyzed by a NVLAP accredited laboratory through polarized light microscopy (PLM). Inspection and sampling will be completed throughout accessible areas of each building to accurately characterize the extent of ACBMs in the structure. Up to 50 sample layers will be analyzed. A final summary report will be provided, documenting the analytical results and providing an approximate quantity of identified ACBMs.

**Note: the number of samples necessary is an estimate and that the exact number of samples will need to be determined during the site inspection upon the inspector's ability to evaluate for the presence of multiple media layers and for ACBMs that are not readily visible (i.e., multiple plaster layers, vinyl floor tile obscured beneath carpet, ceiling tiles, etc.)*

PCB CONTAINING EQUIPMENT AND MATERIALS

Polychlorinated biphenyls (PCBs) may be present in electrical transformers and capacitors, fluorescent light ballasts, hydraulics, caulking around windows and expansion joints. Fehr Graham will inventory the items of concern and collect representative samples of each for laboratory analysis. Up to 10 samples will be analyzed for total PCBs where sampling is feasible. Sample results will determine the appropriate disposal method for each item of concern if PCBs are present. The findings will be summarized in a letter report.

MERCURY CONTAINING EQUIPMENT AND MATERIALS

Silent light switches were manufactured prior to 1991 and can contain mercury. Gas flow regulators prior to 1961 can also contain mercury. Mercury flame sensors were used in some gas-fired furnaces prior to 2000. Fehr Graham proposes site inspection and inventory focused on identifying and counting the quantities of each of these items in the buildings. In addition, fluorescent light bulbs will be inventoried for universal waste disposal. A summary letter will be provided to detail the findings.

PRE-DEMOLITION ASBESTOS BUILDING MATERIALS SURVEYS

Fehr Graham will provide an Illinois-licensed asbestos building inspector to inspect and collect samples from suspected Asbestos-Containing Building Materials (ACBMs) within structures on properties listed below:

- 314 Railroad Avenue - Garage on Jahn's Property
- 499 Railroad Avenue – Iron Horse Grill
- 442 North Cedar Lake Road – Round Lake Annex Building
- 444, 448 North Cedar Lake Road – Magee Building
- 452, 454, 456 North Cedar Lake Road – Pizarro Building
- 458, 460 North Cedar Lake Road – Milem Building
- 604 West Nippersink Road – Single Family Residence

Samples will be analyzed by a NVLAP accredited laboratory through polarized light microscopy (PLM). Inspection and sampling will be completed throughout accessible areas of each building to accurately characterize the extent of ACBMs in the structure. Up to 50 sample layers will be analyzed. A final summary report will be provided, documenting the analytical results and providing an approximate quantity of identified ACBMs.

**Note: The number of samples necessary is an estimate and that the exact number of samples will need to be determined during the site inspection upon the inspector's ability to evaluate for the presence of multiple media layers and for ACBMs that are not readily visible (i.e., multiple plaster layers, vinyl floor tile obscured beneath carpet, ceiling tiles, etc.)*

EXCLUSIONS TO THE PROPOSED SCOPE OF WORK

Please note that the following items are excluded from the proposed scope of services:

- Substances not defined as hazardous substances under CERCLA, such as substances that occur naturally or through biological digestion (for example, methane) and substances considered “*emerging contaminants*” for which human understanding is evolving, are not included in the scope of the Phase I ESA.
- Where applicable, vapor encroachment and potential for vapor migration will be discussed in the Phase I ESA; however, a vapor encroachment screening in accordance with [ASTM E2600-15, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions](#) is not included in the scope of the Phase I ESA.
- Geotechnical borings or evaluation.
- Securing access to privately-held property.

- Private utility location utilizing electromagnetic, ground-penetrating radar, or other private utility locating methods.
- Utility repairs related to unmarked or undocumented subsurface utilities/conduits.
- 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.
- Additional soil borings/monitoring wells/sampling/laboratory analysis unrelated to the proposed scope of work described above.
- Plan set and bid specifications for abatement and removal.
- Air clearance or air clearance building preparation.
- Mold sampling
- Remediation and abatement oversight and construction inspection.
- Risk Assessment

SCHEDULE

Fehr Graham will work diligently to complete the Scope of Work (field work and reporting) within 180 days of authorization to proceed. Although not anticipated at this time, if additional work is required as a result of unexpected delays and/or project limitations, a request will be made for your authorization prior to commencement.

We appreciate the opportunity to provide you with this Scope of Work.

If you should have any questions, please do not hesitate to contact the office at (815) 394-4700. Thank you for the opportunity.

Sincerely,



Ross Grimes, PG
Branch Manager

RAG:adn

Enclosure –

Attachment 1 – PESA REC Sites and Boring Locations
BLR 05514

N:\Proposals\2023\Ross Grimes\CMT\Cedar Lake Road PSI\Scope of Work (revised 09.29.2023).doc.docx

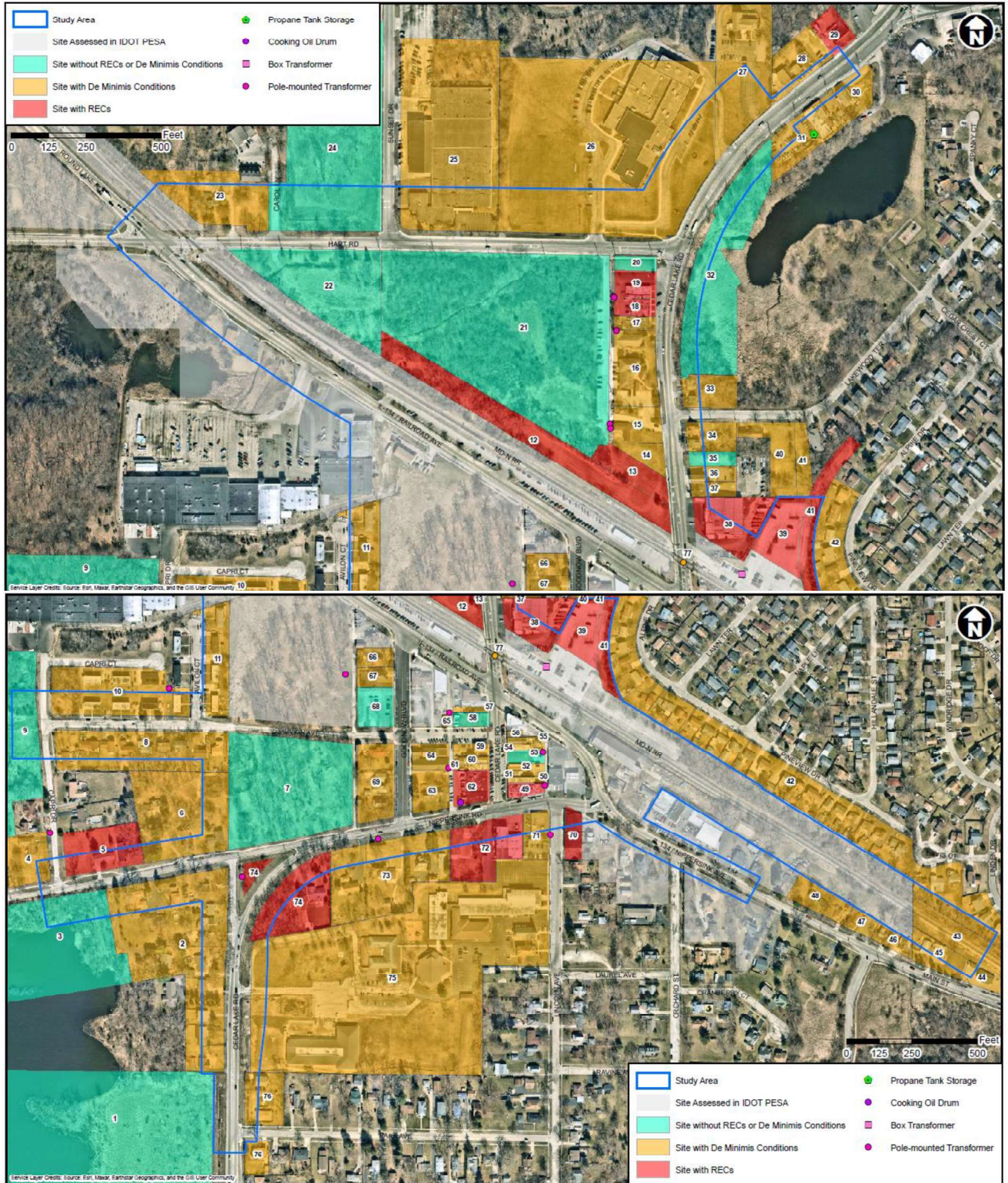


FIGURE 1: PESA SITE MAP
(Top: northern portion of study area; bottom: southern portion of study area)

TABLE 1: SITES ALONG THE PROJECT CORRIDOR DETERMINED TO CONTAIN RECS

Site Name	Site #	Address	Reason(s)
Residential	5	0 & 670 W Nippersink Rd	Potential past orchard use with persistence of lead and arsenic in the soil; potential ACMs
Undeveloped	12 & 13	314 N Cedar Lake Road	Former lumber yard; residual contamination from Site 38
Metro by T-Mobile, Not Just Cookies, State Farm Insurance, Auto Parts; Changes Hair Design & parking lot	18 & 19	448-460 N Cedar Lake Road	Former drycleaner; IC/EC controls; groundwater contamination; commercial structure with potential ACMs and LBP; 3 pole-mounted transformers
Vacant	29	602 N Cedar Lake Road	Former UST and release with unknown status; commercial structure with potential ACMs and LBP
Kohlmeyer/A Tire County Service	38	363 N Cedar Lake Road	Former USTs; residual soil and groundwater contamination; IC/EC controls and AUL on-site and off-site within roadway ROW and property to the west
Metra commuter parking lot & Vacant (Metra)	39 & 41	357 N Cedar Lake Road, 405 N Lakewood Terrace	Former UST; potential site contamination with unknown remediation status
Boost Mobile, La Michoacana	49	219 N Cedar Lake Road	Former USTs; potential site contamination; commercial structure with potential ACMs and LBP; 3 pole-mounted transformers
Rancho Nuevo & Lomeli's International Supermarket	62	216-234 N Cedar Lake Road	Former USTs; potential site contamination; commercial structure with potential ACMs and LBP
Vacant commercial building	70	319 Nippersink Road	UST with unknown status; commercial structure with potential ACMs and LBP
Round Lake Fire Department	72	409 W Nippersink Road	UST with unknown status; commercial structure with potential ACMs and LBP
Residential	74	0 Cedar Lake Rd, 423 W Nippersink Rd	Potential past orchard use; potential ACMs

TABLE 2: SITES ALONG THE PROJECT CORRIDOR DETERMINED TO CONTAIN DE MINIMIS CONDITIONS ONLY

Site Name	Site #	Address	Reason(s)
Residential	2	100-122 N Cedar Lake Rd, 633-665 W Nippersink Rd	Potential ACMs & LBP
Residential	4	204 Capri Drive	Potential ACMs & LBP; pole-mounted transformer
Residential	6	604-634 W Nippersink Rd	Potential ACMs & LBP
Residential	8	211 Capri Drive, 603-681 W Aviron Ave	Potential ACMs
Residential	10	0 Capri Drive, 601-607 Capri Ct, 600-690 Aviron Ave, 326 Aviron Ct	Potential ACMs & LBP; pole-mounted transformer
Residential	11	325-337 Aviron Ct	Potential ACMs & LBP
Undeveloped	14	0, 380 & 386 N Cedar Lake Rd	Former manufacturing facility; the very small risk of migration of contaminated groundwater plume from adjoining Site 13 is considered a <i>de minimis</i> risk
Municipal	15	0 Cedar Lake Rd	Potential ACMs & LBP; 4 pole-mounted transformers
Village Hall	16	418-442 N Cedar Lake Rd	Manufacturing facility; potential ACMs & LBP; 2 pole-mounted transformers
Magee Hartman P.C.	17	444 N Cedar Lake Rd	Potential ACMs & LBP
Residential	23	602 Hart Road	Potential ACMs & LBP
Grieve Corporation	25	500 Hart Road	Industrial manufacturing facility in compliance; potential ACMs & LBP
Magee Middle School	26	500 N Cedar Lake Rd	Potential ACMs & LBP
Church	27	510 N Cedar Lake Rd	Potential ACMs & LBP
Vigo, Western Union & parking lot	28	514 & 602 N Cedar Lake Rd	Potential ACMs & LBP
Dietz Surveying & parking lot	30	519 N Cedar Lake Rd	Potential ACMs & LBP

Site Name	Site #	Address	Reason(s)
Mendoza Grocery	31	0 & 515 N Cedar Lake Rd	Potential ACMs & LBP
Residential	33	0, 405 & 407 N Cedar Lake Rd	Potential ACMs & LBP
Residential	34	387 & 401 N Cedar Lake Rd	Potential ACMs & LBP
Avanza Professional Service Centers	36	375 N Cedar Lake Rd	Potential ACMs & LBP
Cricket Wireless & Techie Service Center	37	369 N Cedar Lake Rd	Potential ACMs & LBP
Residential	40	399 N Lakewood Terrace	Small spill with closed status; potential ACMs & LBP
Residential	42	204-326 W Pineview Dr, 332-338 Alpine Drive, 175-195 Davis Ct, 210 Linden Dr, 145 & 151 W Willow Dr	Potential ACMs & LBP
Metra railroad	43	0 Porter Dr	Active thru-track represents low likelihood of encountering site contamination
The Pizza Place	44	130 W Main Street	Potential ACMs & LBP
Residential	45	134 W Main Street	Potential ACMs & LBP
Residential	46	200 & 202 Nippersink Ave	Potential ACMs & LBP
Farmers Insurance	47	206 Nippersink Ave	Potential ACMs & LBP
Residential	48	208-214 Nippersink Ave	Potential ACMs & LBP
Vacant commercial building	50	223 N Cedar Lake Rd	Potential ACMs & LBP
El Dorado Jewelry & Western Wear	51	229 N Cedar Lake Rd	Potential ACMs & LBP
Magnum Insurance Agency	52	237 N Cedar Lake Rd	Potential ACMs & LBP
Artistic Wave Salan de Belleza	54	253 N Cedar Lake Rd	Potential ACMs & LBP; 2 pole-mounted transformers
Bukana's Sports Bar	55	259 N Cedar Lake Rd	Potential ACMs & LBP
Ria Money Transfer	56	265 N Cedar Lake Rd	Potential ACMs & LBP
Birrieria Jaliscos	57	304 N Cedar Lake Rd	Potential ACMs & LBP
Pronto Tax	59	260 N Cedar Lake Rd	Potential ACMs & LBP
La Luz Bakery	60 &	244-246 N Cedar Lake	Potential ACMs & LBP

Cedar Lake Road Realignment Preliminary Environmental Site Assessment

Site Name	Site #	Address	Reason(s)
	61	Rd	
Residential	63	213 Goodnow Blvd, 420 W Nippersink Rd	Potential ACMs & LBP
Church	64	0 Goodnow Ave	Potential ACMs & LBP
Multiviajes Gutierrez Travel Agent	65	418 W Aviron Ave	Potential ACMs & LBP
Residential	66	356 Goodnow Blvd	Potential ACMs & LBP
Residential	67	350 Goodnow Blvd	Very small quantity generator in compliance; potential ACMs & LBP
Residential	69	210-218 Goodnow Blvd	Potential ACMs & LBP
Medical center	71	401 W Nippersink Rd	Potential ACMs & LBP
Residential	73	415-421 W Nippersink Rd	Potential ACMs & LBP
Church/school	75	101 Cedar Lake Rd, 114 Lincoln Ave	Potential former orchard and potential ACMs & LBP located outside of project area; no area of concern noted within project area
Residential	76	19 N Cedar Lake Rd, 514 & 517 W Park Ave	Potential ACMs & LBP
NR / Metra RR over Cedar Lake Road	77	Hart Road & IL 134 (Metra RR over Cedar Lake Rd)	Small spill that has closed status

TABLE 3: SITES ALONG THE PROJECT CORRIDOR DETERMINED NOT TO CONTAIN RECS OR DE MINIMIS CONDITIONS

Site Name	Site #	Address	Reason(s)
Forest Preserve	1	0 Cedar Lake Rd	No areas of concern
Forest Preserve	3	0 Nippersink Rd	No areas of concern
Undeveloped (forested)	7	0 Nippersink Rd	No areas of concern
Undeveloped (forested/meadow)	9	0 Capri Dr	No areas of concern
Vacant	20	Cedar Lake Rd	No areas of concern
Undeveloped (forested)	21	0 Cedar Lake Road	No areas of concern; small pile of non-hazardous dumped trash
Vacant	22	525 Hart Road	No areas of concern
Vacant	24	0 Hart Road	No areas of concern
Undeveloped (forested, wetland)	32	0 Cedar Lake Rd, 0 Garden Ct	No areas of concern
Vacant	35	0 Cedar Lake Rd	No areas of concern
Vacant	53	243-247 N Cedar Lake Rd	No areas of concern
Vacant	58	302 N Cedar Lake Rd	No areas of concern
Parking lot	68	0 Goodnow Blvd	No areas of concern



Local Public Agency Lake County DOT	County Lake	Section Number
Prime Consultant (Firm) Name CMT, Inc.	Prepared By Ross Grimes, PG	Date 9/29/2023
Consultant / Subconsultant Name Fehr Graham Engineering & Environmental	Job Number 	

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

Remarks

PAYROLL ESCALATION TABLE

CONTRACT TERM	20	MONTHS			OVERHEAD RATE	148.61%
START DATE	11/8/2023				COMPLEXITY FACTOR	0
RAISE DATE	1/1/2024				% OF RAISE	2.00%
END DATE	7/7/2025					

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	11/8/2023	1/1/2024	2	10.00%
1	1/2/2024	1/1/2025	12	61.20%
2	1/2/2025	7/1/2025	6	31.21%

The total escalation = 2.41%

Local Public Agency
 Lake County DOT

County
 Lake

Section Number

Consultant / Subconsultant Name
 Graham Engineering & Environmental

Job Number

DIRECT COSTS WORKSHEET

List ALL direct costs required for this project. Those not listed on the form will not be eligible for reimbursement by the LPA on this project.

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
lodging (for GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)	10	\$200.00	\$2,000.00
lodging Taxes and Fees (for GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			\$0.00
Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (for GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			\$0.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day	16	\$65.00	\$1,040.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tools	Actual Cost			\$0.00
Printing	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
Permits (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
Two Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
Travel	Actual Cost (Max \$15/hour)	60	\$15.00	\$900.00
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
Utility Services	Actual Cost (Provide breakdown of each cost)	1080	\$20.00	\$21,600.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Environmental Drilling Services	Actual Cost			\$0.00
Water Sampling Supplies	Actual Cost	7	\$260.00	\$1,820.00
Groundwater Sampling Supplies	Actual Cost	1	\$315.00	\$315.00
Environmental Database Record Search	Actual Cost	1	\$362.00	\$362.00

29/2023 2:56 PM **TOTAL DIRECT COSTS: \$28,037.00**

DLR 05514 (Rev. 10/01)

Local Public Agency

Lake County DOT

County

Lake

Section Number

Consultant / Subconsultant Name

Fehr Graham Engineering & Environmental

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			Prelim Site Investigation - Field			Prelim Site Investigation - Reporting			Project Admin/Mngmt			Metra Site - Phase I ESA			Metra Site - HBM Survey		
		Hours	% Part.	Wgt Avg	Hours	% Part.	Wgt Avg	Hours	% Part.	Wgt Avg	Hours	% Part.	Wgt Avg	Hours	% Part.	Wgt Avg	Hours	% Part.	Wgt Avg
Principal	70.13	18.0	2.51%	1.76	3	1.60%	1.13	4	2.94%	2.06	2	10.00%	7.01	1	3.13%	2.19	1	1.79%	1.25
Branch Manager	58.36	51.0	7.10%	4.15	8	4.28%	2.50	16	11.76%	6.87	8	40.00%	23.35	2	6.25%	3.65	3	5.36%	3.13
Project Hydrogeologist	36.18	328.0	45.68%	16.53	90	48.13%	17.41	35	25.74%	9.31	6	30.00%	10.85	5	15.63%	5.65	32	57.14%	20.68
EHS Specialist	27.12	226.0	31.48%	8.54	80	42.78%	11.60	60	44.12%	11.96				20	62.50%	16.95	10	17.86%	4.84
Assoc. Eng Tech	28.26	61.0	8.50%	2.40	0			15	11.03%	3.12				2	6.25%	1.77	8	14.29%	4.04
Project Administrator	31.12	34.0	4.74%	1.47	6	3.21%	1.00	6	4.41%	1.37	4	20.00%	6.22	2	6.25%	1.95	2	3.57%	1.11
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
TOTALS		718.0	100%	\$34.84	187.0	100.00%	\$33.64	136.0	100%	\$34.69	20.0	100%	\$47.44	32.0	100%	\$32.15	56.0	100%	\$35.05

Local Public Agency

Lake County DOT

County

Lake

Section Number

Consultant / Subconsultant Name

Fehr Graham Engineering & Environmental

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 2 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	ACBM Survey - 314 Railroad Ave			ACBM Survey - 499 Railroad Ave			ACBM Survey - 442 N Cedar Lake Rd			ACBM Survey - 444,448 N Cedar Lake Rd			ACBM Survey - 452,454, 456 N Cedar Lake Rd			ACBM Survey - 458, 460 N Cedar Lake Rd		
		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	70.13	1	3.03%	2.13	1	3.03%	2.13	1	2.44%	1.71	1	2.22%	1.56	1	2.13%	1.49	1	2.22%	1.56
Branch Manager	58.36	2	6.06%	3.54	2	6.06%	3.54	2	4.88%	2.85	2	4.44%	2.59	2	4.26%	2.48	2	4.44%	2.59
Project Hydrogeologist	36.18	16	48.48%	17.54	16	48.48%	17.54	24	58.54%	21.18	26	57.78%	20.91	26	55.32%	20.02	26	57.78%	20.91
EHS Specialist	27.12	8	24.24%	6.57	8	24.24%	6.57	8	19.51%	5.29	8	17.78%	4.82	8	17.02%	4.62	8	17.78%	4.82
Assoc. Eng Tech	28.26	4	12.12%	3.42	4	12.12%	3.42	4	9.76%	2.76	6	13.33%	3.77	8	17.02%	4.81	6	13.33%	3.77
Project Administrator	31.12	2	6.06%	1.89	2	6.06%	1.89	2	4.88%	1.52	2	4.44%	1.38	2	4.26%	1.32	2	4.44%	1.38
TOTALS		33.0	100%	\$35.09	33.0	100%	\$35.09	41.0	100%	\$35.30	45.0	100%	\$35.03	47.0	100%	\$34.74	45.0	100%	\$35.03

Local Public Agency

Lake County DOT

County

Lake

Section Number

Consultant / Subconsultant Name

Fehr Graham Engineering & Environmental

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 3 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	ACBM Survey - 604 W Nippersink Rd																	
		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	70.13	1	2.33%	1.63															
Branch Manager	58.36	2	4.65%	2.71															
Project Hydrogeologist	36.18	26	60.47%	21.88															
EHS Specialist	27.12	8	18.60%	5.05															
Assoc. Eng Tech	28.26	4	9.30%	2.63															
Project Administrator	31.12	2	4.65%	1.45															
TOTALS		43.0	100%	\$35.34	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

Local Public Agency

Lake County DOT

County

Lake

Section Number

Consultant / Subconsultant Name

Fehr Graham Engineering & Environmental

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 4 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES																		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
Principal	70.13																		
Branch Manager	58.36																		
Project Hydrogeologist	36.18																		
EHS Specialist	27.12																		
Assoc. Eng Tech	28.26																		
Project Administrator	31.12																		
TOTALS		0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

***Subconsultant 7 - Huddleston McBride Land
Drainage Services***

Field Tile Investigations



• 9504 East Fowler Rd., Rochelle, Il., 61068
Phone 815-562-6007 Fax 815-562-6557
T. Huddleston mobile 815-757-6007
Email: huddmac@aol.com

PROPOSAL

Jeremy Metz, E.I.
Crawford, Murphy & Tilly
550 North Commons Drive, Suite 116
Aurora, IL., 60504

Date : September 11, 2023
Prop : 22273r1
Terms: Net 30 Days

>> **RE: LAND DRAINAGE INVESTIGATION SERVICES PROPOSAL**

LOCATION: Cedar Lake Road Project (24+- acres)
Area 1: 465,415 Sq-Ft (10.68 Acre)
Area 2: 562,739 Sq-Ft (12.92 Acre)
Area 3: 36,220 Sq-Ft (0.83 Acre)

Thank you for the opportunity to submit the attached Mainline Drain Tile Investigation Letter of Agreement for your consideration.

Following is a brief summary outlining investigation services which shall be completed in accordance with Lake County typical standards and procedures for the subject property located at Sections no. 29, Avon Twp., Lake Co., IL..

This investigation will be limited to the mapping of all mainline and sub-main collectors, and will include local lateral / feeder drain tiles only when encountered at slit trench or hand probe transect locations. Huddleston McBride Drainage Co. shall not be responsible for crop damage, all excavated investigation trenches will be backfilled and slightly mounded to allow for natural settlement.

I. SCOPE OF WORK

FIELD INVESTIGATION PROCEDURES:

Field reconnaissance and record research¹ work will be completed in efforts to identify all areas which are typical to installation of existing drain tile. Existing features such as soils, watertable, topographical elevations, surface channels, depressions, wetlands and natural drainage ingress and egress locations are considered.

Following field review, investigation areas are staked and slit trenched or hand probed to verify existence of drain tile. All existing drain tiles encountered during the investigation procedure are logged on field mapping and repaired to their original state according to U.S.D.A. Natural Resource Conservation Service construction repair practices. Following specific point locations, drain tile routes are located by surface probing or electronic detection and field staked at 50' intervals including cut stakes for invert elevations where requested. Any existing drain tile not encountered during slit trenching or probe transect procedures will remain unknown.

¹Huddleston McBride Land Drainage Co., (Illinois Professional Design Firm) owns, maintains and will access an extensive electronic record system of Lake County Existing Agricultural Drain Tile Historic Mapping Records. This mapping system has been based upon geographic parcel location including record information from Huddleston-Mcbride Land Drainage Co.(1975) , Cooprider Farm Drainage Co. (1930), Elbridge F. Ball & Sons, (drainage engr.) Survey notes (1940), Countryside Drainage (2009). These record files include historic farm parcel notes, active / inactive drainage district maps and documents, conservation resource mapping, agricultural drain tile contractor records, aerial photo delineation, S.C.S./ N.R.C.S design notes and soil maps, typical drain tile investigation reports, record construction drawings, and land owner sketch drawings.

RECORD MAPPING AND REPORT:

Record mapping shall be performed according to typical civil engineering mapping standards. It will be the responsibility of the developer to furnish one ACAD (version 2013 or 2021 .dwg) computer data file of the investigation area including mapped topography, easements, right-of-ways, wetland delineation areas and property boundary limits.

All existing drain tile routes will be located in the field by GPS location systems (<1m., Illinois State Plane East NAD 83) and recorded on final plans. Our field staking process will include pipe invert cut stakes at all perimeter locations, strategic interior locations and 50' interval pin flagging along tile routes for electronic survey location by the project engineer if deemed necessary. It will be the responsibility of the project engineer to survey drain tile location/elevation staking pertinent to final improvement design.

Final drain tile mapping will be computer drafted on a base map including recent color digital aerial photography, topography and project limits. Mapped information will include the location of all existing drain tile routes and applicable drainage findings encountered during the field investigation process. A field report shall be attached to the plan containing evaluation information including size, flow, system effectiveness, restrictive siltation, pipe invert to ground surface depth, pipe type / quality, system classification and specific field notes.

After completion of the investigation report it will be our responsibility to obtain final existing drain tile investigation mapping and report approval and acceptance by Lake County Planning and Development technical staff and applicable engineering review agencies.

II. Proposed Service Description:				
The intent of this proposal is to provide existing drain tile location, consulting and GPS survey mapping services in regard with typical existing drain tile investigation standards and in accordance with Lake County Stormwater Ordinance Standards, Cedar Lake Road Project at, (Sections no. 29, Avon Twp., Lake Co., IL.)				
III. Proposed Services Cost:		Qty.	Cost	Amount
1 Drainage Investigation and Repair Crew (3 days) (field survey services including all excavation equipment and labor)		1 ea.	15,280.00	15,280.00
4 Project Consulting Services Hour Basis (GPS field survey, staking, and record plans)		15 hrs	180.00	2,700.00
5 Heavy Equipment Transport Hour basis, (160 miles round trip, 2 units) (including DOT permits, electronic logs, licenses and fees)		4 hrs.	295.00	1,180.00
Proposed Materials Cost: <i>All materials incidental to labor cost</i>				0.00
<p>1 Drainage Investigation and Repair Crew Hour Basis ; is calculated on an hourly basis of \$580.00 including a full (6+- man) drainage tile investigation/ repair crew consisting of ground man laborers, (1 or 2) 4-wheel drive loader backhoe w/ operator, (1)- kobelco wide track mid-class excavator w/ operator, kobota ATV, electronic and manual investigation equipment, pipeline video equipment, incidental pipe repair materials, field staking materials, field supervision and miscellaneous support equipment including pumps, probes, and other necessary tools. Daily hours are computed by home port to home port.</p> <p>4 Project Consulting Services Hour Basis ; (T.L. Huddleston) is calculated on an hourly basis of \$160.00 including initial project assessment, client consultation, site meetings, Utility locations, GPS land surveying , existing conditions research, project planning, record mapping w/ plots and project supervision.</p> <p>5 Heavy Equipment Transport Hour basis; - is calculated on an hourly basis of \$ 295.00 including heavy equipment loading transport including all IDOT and Local transportation permits, licenses and fees, and electronics log system requirements. <i>Travel cost for crew lodging, long haul mobilization, overnight materials trips and expenses will be at \$780.00 (based on 6-man crew)</i></p>				
TOTAL LUMP SUM CHARGES INCLUDING ALL MATERIALS AND SERVICES			\$19,160.00	

An invoice will be presented following the completion of the work and will be due and payable thirty (30) days after the invoice date. Any late payments made will be subject to the interest rate of 1 ½% per month on the entire principal amount of the money owed for the period from the date it becomes due and payable through the period of time in which it is paid.

IV. LIMITS OF LIABILITY

Any breach on the part of either party shall be limited to liability in an amount not to exceed the contract price of services associated with this drain tile investigation proposal.

Should the terms of this letter of agreement meet with your approval, please execute below and return one original.

Thank you for considering our proposal, we look forward to an opportunity to assist you with the development of this project.

Respectfully submitted,

HUDDLESTON McBRIDE LAND DRAINAGE CO.

Thomas L. Huddleston III

T. L. Huddleston III, Partner

ABOVE LETTER OF AGREEMENT ACCEPTED THIS _____ DAY _____ 2023.

BY: _____
PRINTED NAME / TITLE

SIGNATURE