



Local Public Agency Engineering Services Agreement

Agreement For: MFT PE; Agreement Type: Original; Using Federal Funds? No

LOCAL PUBLIC AGENCY: Local Public Agency: Aurora; County: Kane; Section Number: 23-00359-00-TL; Job Number: ; Contact Name: Tim Weidner; Phone Number: (630) 256-3202; Email: WeidnerT@aurora.il.us

SECTION PROVISIONS: Local Street/Road Name: Farnsworth Avenue; Key Route: 0360; Length: 1.74; Structure Number: ; Location Termini: I-88 to Sheffer Road

Project Description: Traffic signal modernization at eight signalized intersection, resurfacing from north of Molitor Road to Creek Ave, ADA ramp improvements to meet PROWAG, bicycle path, Pace bus pads, and spot curb / sidewalk / pavement repairs within the project limits.

Engineering Funding: MFT/TBP, Other; Anticipated Construction Funding: Federal, MFT/TBP

AGREEMENT FOR: Phase I - Preliminary Engineering

CONSULTANT: Prime Consultant (Firm) Name: Stanley Consultants, Inc.; Contact Name: Tyler Grau, PE; Phone Number: (773) 444-5954; Email: grautyl@stanleygroup.com; Address: 8501 W. Higgins Rd. Suite 730; City: Chicago; State: IL; Zip Code: 60631

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.

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.

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 D : Direct Costs Check Sheet (attach BDE 436 when using Lump Sum on Specific Rate Compensation)
- EXHIBIT E: IDOT OH Approval Letters
- \_\_\_\_\_
- \_\_\_\_\_

### 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
Stanley Consultants, Inc.	42-1320758	\$299,966.00
Subconsultants	TIN/FEIN/SS Number	Agreement Amount
Engineering Enterprises, Inc.	36-3150869	\$50,177.00
HBK Engineering, LLC	46-1255956	\$15,216.00
Interra, Inc.	36-4045796	\$5,975.00
Subconsultant Total		\$71,368.00
Prime Consultant Total		\$299,966.00
Total for all work		\$371,334.00

**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)

Title

By (Signature & Date)

Title

APPROVED:

Regional Engineer, Department of Transportation (Signature & Date)

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Aurora	Stanley Consultants, Inc.	Kane	23-00359-00-TL

**EXHIBIT A  
SCOPE OF SERVICES**

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

See Attached

City of Aurora  
Section # 23-00359-00-TL  
Farnsworth Avenue Traffic Signal Modernization and Resurfacing  
From I-88 to Sheffer Road  
Phase I Study  
February 2, 2023  
**Scope of Services**

## Introduction

The Phase I Study involves the traffic signal modernization of Farnsworth Avenue from I-88 to Sheffer Road, ADA ramp replacement, intersection radii improvements, and resurfacing with omissions for the tollway interchange. The six signalized intersections within the project limits will be evaluated for safety improvements, including modernizing the equipment. The project is led by the City of Aurora (CITY) with Stanley Consultants, Inc. (CONSULTANT) as the prime firm leading the study. The project is anticipated to use federal funds for construction and will be processed through IDOT Bureau of Local Roads & Streets (BLR&S). Preliminary and design engineering will use Motor Fuel Tax (MFT) funds (no federal funds). The scope of work includes the following:

- Data Collection and Evaluation
- Topographic Survey and Aerial Imagery
- Environmental Studies
- Crash and Safety Analysis
- Abbreviated Traffic Signal Technology Assessment
- Capacity Analysis
- Geometric Studies
- Public Involvement
- Project Development Report
- Meetings and Coordination
- Administration and Management
- QA / QC

The approximate project study limits on Farnsworth Avenue are as follows:

- Project Limits: I-88 to Sheffer Road (9,200' total)
- Resurfacing Limits: North of Molitor Road to Creek Avenue
- Traffic Signals to be Modified: I-88 WB and I-88 EB
- Traffic Signals to be Replaced: Molitor Rd, Reckinger Rd, Indian Trail, Sheffer Rd
- Shared-Use Path: Illinois Prairie Path to Creek Avenue

The project will be designed using the latest version of Bentley OpenRoads Designer software. The following is a detailed description of work tasks.

#### Data Collection and Evaluation

The data collection effort includes the following:

- The CONSULTANT will obtain information from the CITY including GIS files, existing traffic signal plans, land use maps, zoning maps, soils and geological information, record plans for roadway and traffic signals, existing right-of-way, and utility plans.
- The CONSULTANT will coordinate with the utility subconsultant for contacting JULIE to obtain utility atlases for the project area. See attached scope by HBK Engineering, LLC.
- The CONSULTANT will obtain Property Identification Numbers and utilize the Kane County website to identify the owners of the adjacent properties in this task.
- Two field trips of the project area will be conducted with the CONSULTANT.
  - The initial field trip includes photo inventory, ADA ramp compliance inspection, curb / pavement condition, identify truck off-tracking, inventory existing traffic signal equipment.
  - An additional site visit is needed to observe traffic operations and field check topographic survey.
- This traffic study will entail obtaining peak hour classification turning traffic counts at the following intersections (see attached rates for direct cost).
  - Farnsworth Ave at I-88 WB
  - Farnsworth Ave at I-88 EB
  - Farnsworth Ave at Molitor Rd
  - Farnsworth Ave at Reckinger Rd
  - Farnsworth Ave at Indian Trl
  - Farnsworth Ave at Sheffer Rd
- The data will be collected for the following periods (a total of 48 hours of data will be collected). The exact times to be processed will be determined by the CONSULTANT based on field observations after the data has been collected. The anticipated timeframe is as follows:
  - Weekday: 6:00 AM to 10:00AM, 3:00PM to 7:00 PM (8 hours)
- The CONSULTANT will coordinate with the sub consultant for drone aerial imagery for use in the exhibits and laying out the resurfacing limits. See attached scope by Engineering Enterprises, Inc.

#### Topographic Survey and Aerial Imagery

The CONSULTANT will coordinate with the sub consultant for topographic survey and drone aerial imagery for use in the exhibits and laying out the resurfacing limits. See attached scope by Engineering Enterprises, Inc.

The subconsultant will perform the Topographic Survey in accordance with the current Illinois Department of Transportation (IDOT) CADD Manual (latest version) following Bentley OpenRoads Designer standards. See attached scope by Engineering Enterprises, Inc.

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HBK Engineering, Ltd. Will field locate underground utilities and at the signalized intersections in advance of the topographic survey to a Level B subsurface utility exploration. See detailed scope from HBK Engineering, Ltd.

The CONSULTANT will process the utility locate survey file into the CAD base file.

The CONSULTANT will review the topographic survey and utility locates and coordinate with the subconsultants for any needed revisions to the deliverables.

### Environmental Studies

An Environmental Survey Request (ESR) will be necessary if the project requires temporary or permanent easements or right-of-way, or if new bike trail / sidewalk / ADA ramps on new alignment is included in the project. The CONSULTANT will prepare and submit an ESR form with Attachments and Exhibits to IDOT BLR&S for processing. The CONSULTANT will be responsible for the following related to the ESR:

- Review of the findings
- Responses to inquiries regarding the project impacts on environmental resources
- Modification of the design alternative to adhere to environmental requirements
- Incorporation of the information into the project report

Based on a preliminary environmental screening, the environmental resources associated with the project may involve special waste and wetlands. The CONSULTANT will not include any special environmental surveys for threatened and endangered species or cultural elements for the project. If the ESR review from IDOT determines the need for additional surveys, the CONSULTANT will prepare scope / fee at that time. The following studies will be completed by the CONSULTANT:

### **Wetlands**

Delineation of the proposed route will be done in accordance with USACE 1987 Manual and the August 2010 USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region, and will take place in Spring/Early Summer 2023; and within the US Army Corps of Engineers (USACE) – Chicago District recognized wetland growing season. The wetland delineation will be based on soil composition, hydrology of the site, and vegetation present at the time of the site visit. Observations will be documented using a handheld collection device and will be transferred to an approved USACE data forms and included in the final report. If wetlands are found to exist within project boundaries, their limits will be recorded using a handheld GPS device for use in Arc GIS software.

The report will include site figures depicting the location of identified wetlands, a table noting the size of each identified wetland, wetland type, and a determination of potential temporary/permanent impacts resulting from construction activities.

The Wetland delineation report is valid for five years from the date of issuance. Should project development specifications change after completion of the onsite delineation, the report expire, or there is a change in regulations, a delineation of the proposed development area may be required, the scope and fee of which are not addressed in this proposal.

Preparation of a mitigation plan addressing the loss of wetlands by project construction activities is not included in this scope and fee, as mitigation requirements are dependent on the outcome of the delineation. Should a mitigation plan be required, a scope and fee for plan preparation will be provided upon request.

The CONSULTANT will prepare a PDF of the wetland delineation report for inclusion in the ESR submittal. The CONSULTANT will prepare the Wetland Impact Exhibits / Forms for inclusion in the ESR.

### **Special Waste**

Based on a preliminary environmental screening, the environmental resources associated with the project may involve special waste. The Geotechnical subconsultant, Interra, Inc., will complete the environmental screening background research to determine if there are any Recognized Environmental Concerns (RECs) within the project footprint. A technical memorandum will be prepared that summarizes the findings within the project limits that will be used as the basis of sampling during Phase II.

### Crash and Safety Analysis

The CONSULTANT will obtain crash data for the previous five years at the following locations:

- Farnsworth Ave at I-88 WB
- Farnsworth Ave at I-88 EB
- Farnsworth Ave at Molitor Rd
- Farnsworth Ave at Reckinger Rd
- Farnsworth Ave at Indian Trl
- Farnsworth Ave at Sheffer Rd
- Segments (5) between I-88 and Sheffer Rd

The CONSULTANT will review the crash data and summarize crashes by year and major type to define trends and roadway deficiencies at each of the above intersections and segments. Areas experiencing significant crash rates will be investigated so that countermeasures can be recommended. Crash reports will be requested for crashes involving fatalities, pedestrians and bicyclists. The CONSULTANT will prepare a technical memorandum to document and summarize the crash data, recommended countermeasures to improve safety and associated crash modification factors based on FHWA's Crash

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**Scope of Services**

Modification Factors Clearinghouse. The memorandum will include tables and figures summarizing the data for each location and provide an expected reduction in crashes (percentage) at each location.

#### Abbreviated Traffic Signal Technology Assessment

Traffic signal technologies, such as, Adaptive Signal Control, microwave pedestrian detection, and vehicle detection alternatives will be investigated at the intersections. The CONSULTANT will prepare an abbreviated technical memorandum that summarizes the findings with estimated implementation costs at each intersection. The preferred equipment will be identified after coordination with the CITY and included on intersection exhibits for determining utility and right-of-way impacts.

#### Capacity Analysis

The CONSULTANT will utilize the traffic data collected for the capacity analysis. Synchro simulation software will be utilized to prepare traffic models for three signal operation alternatives. The CONSULTANT will create an existing model of the corridor for use as the baseline condition. The alternative signal operations include use of flashing yellow arrow (FYA), protected only phasing, and interconnect optimization to improve traffic flow.

The traffic analysis model will include the following six signalized intersections:

- Farnsworth Ave at I-88 WB
- Farnsworth Ave at I-88 EB
- Farnsworth Ave at Molitor Rd
- Farnsworth Ave at Reckinger Rd
- Farnsworth Ave at Indian Trl
- Farnsworth Ave at Sheffer Rd

The CONSULTANT will perform analyses for the following periods:

- Weekday AM Peak Hour
- Weekday PM Peak Hour

An additional analysis model will include the trip generated traffic based on the Traffic Impact Study provided by the CITY for the casino north of I-88 anticipated to be open by 2025 for each peak hour during the weekday. No weekend analysis is included in the scope.

#### Geometric Studies

The CONSULTANT will depict the resurfacing limits on 1"=50' scale double plan sheets, with proposed geometrics and right-of-way lines. It is anticipated that four (4) total double plan sheets at 1"=50' scale will be required for the preferred improvement. The resurfacing limits are anticipated to match the pavement joint approximately 300' north of Molitor Road to Creek Ave with a project omission from Marshall Blvd to the Illinois Prairie Path. The 1"=50' scale double plan sheets will be developed covering the project limits which are from north of I-88 to Sheffer Road.



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A shared-use path will be extended from Indian Trail to the Illinois Prairie Path anticipated on the west side of Farnsworth Avenue for a total length of approximately 1,900'. The CONSULTANT will use Bentley OpenRoads for 3D modeling to develop the design for the shared-use path. Cross sections will be displayed on sheets to determine construction limits and right-of-way needs. Detailed profile and alignment information will be completed during Phase II.

Traffic signals will be designed to avoid existing utilities and allow the existing traffic signals to remain in operation until the new signals are installed. The following exhibits will be prepared to detail the traffic signals:

- Traffic Signal Replacement
  - Molitor Road
  - Reckinger Road
  - Indian Trail
  - Sheffer Road
- Traffic Signal Modification
  - I-88 WB
  - I-88 EB

Two existing and two proposed typical sections will be developed that show the milling and resurfacing with existing pavement structure and typical sidewalk / shared-use path.

The CONSULTANT will prepare ADA ramp details at 1"=5' scale for use in verifying right-of-way requirements. The details will be prepared on sheet borders for incorporation into the contract documents in Phase II. The following locations are included:

- Farnsworth Ave at Molitor Road (2 corners)
- Farnsworth Ave at Reckinger Road (4 corners)
- Farnsworth Ave at Indian Trail (4 corners)
- Farnsworth Ave at Sheffer Road (4 corners)
- Four entrances impacted by bicycle path extension (8 corners)

To provide access to all users on the transportation network, coordination will be necessary with Pace Bus to determine if there is a need to provide bus pads for stops within the project limits. The bus stop infrastructure will be reviewed at the intersections from Molitor Road to Sheffer Road for a total of 10 locations. This will include a review of the existing infrastructure and evaluation of the accommodations from the bus stop to the intersection. The location of bus stops will be discussed with Pace prior to design. The proposed bus stop improvements, including bus shelter pads, will be shown on 1"=5' scale plan sheets. Bus shelters will not be included in the scope of work.

The CONSULTANT will use Synchro for preparing the capacity analysis results to be included in the Project Development Report. Improvements may include modifying pavement markings to adjust left turn storage and tapers to meet current traffic demand based on the red-time queue analysis. No

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widening of the sideroads or Farnsworth Avenue is anticipated as part of the improvements. Radius improvements for truck turns are anticipated as part of the scope of work.

The CONSULTANT will prepare an IDS for the following intersections:

- Farnsworth Avenue at I-88 Eastbound
- Farnsworth Avenue at Molitor Road
- Farnsworth Avenue at Indian Trail

The Intersection Design Study will include intersection geometry, capacity analysis results, traffic signal phasing diagrams, proposed traffic signal equipment, existing traffic volumes, truck turn templates, and design exceptions, if needed.

The CONSULTANT will prepare truck turning templates for the following intersections (No IDS anticipated):

- Farnsworth Avenue at I-88 Westbound
- Farnsworth Avenue at Reckinger Road
- Farnsworth Avenue at Sheffer Road

The CONSULTANT will determine right-of-way impacts in this task. The CONSULTANT will draft and coordinate the ROW requirements with property owner exhibits for up to 12 parcels.

The CONSULTANT will prepare the preliminary cost estimate that will be prepared for the draft project report and updated for the final report.

### Public Involvement

The public involvement scope of work includes the following:

- Draft ROW letters, compile property owner exhibits, and send via certified mail for up to 12 parcels.
- Prepare and attend one in-person public meeting.
  - The CITY will provide the mailing lists and coordinate advertising.
  - The CONSULTANT will develop the invitation, postcards, meeting handout, display exhibits, and audio / visual presentation.
  - The CITY will host the public information meeting.
  - The CONSULTANT will attend a “dry run” for the public information meeting, attend the public information meeting and answer questions
- The CONSULTANT will prepare a public meeting disposition of comments, prepare response newsletter and/or draft response letters.
- The CONSULTANT will provide a public information meeting summary.
- The CONSULTANT will provide information needed for a city hosted website.

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#### Project Development Report

The CONSULTANT will compile exhibits, maps, tables, supplemental documents, and appendices. The CONSULTANT will prepare the Draft Project Development Report (PDR) utilizing form BLR 22210. The CONSULTANT will submit the following documents:

- Provide electronic copy of the Draft PDR to CITY for review. The CONSULTANT will revise the Draft PDR per CITY comments.
- One paper copy of the revised Draft PDR to IDOT BLR&S.
- Address IDOT Draft PDR comments and prepare Final PDR.
- One electronic PDF of the Final PDR to IDOT BLR&S.
- One electronic PDF of the Final PDR to CITY.

The cost for developing the PDR will include assembling all required documents, printing, binding, and delivering the reports.

#### Meetings and Coordination

The CONSULTANT anticipates the following meetings for this project:

- Two progress review CITY meetings (findings & recommendations)
  - Progress meetings are expected to be conducted via Microsoft Teams
- One IDOT meeting (kickoff)
  - Kickoff meeting anticipated to be virtual WebEx
- One FHWA/BDE meetings
  - Coordination meeting anticipated to be virtual WebEx
- One Pace Suburban Bus meeting
  - Coordination via Microsoft Teams.
  - Purpose of meeting is to review project limits and scope of work to determine necessary improvements on the corridor for current and future Pace service.
- One ISTHA Meeting
  - Coordination via Microsoft Teams.
  - Verify permitting requirements and coordinate project scope
- One Township Meeting
  - Coordination via Microsoft Teams.
  - Verify permitting requirements and coordinate project scope
- Three internal coordination meetings
  - Internal coordination meetings will be conducted via Microsoft Teams

The CONSULTANT will attend all of these meetings, prepare meeting minutes, and perform follow up to the meetings as needed. As part of the design development process, the CONSULTANT will hold internal coordination meetings with all pertinent team members and subconsultants on an as needed basis. These meetings are necessary to ensure the project budget and schedule stay on track.

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Discussions at the meetings will include the following topics: individual task progress, critical and open issues, coordination between pertinent disciplines, early identification of issues that could negatively affect project schedules and/or budgets, and issues related to deliverable dates.

The CONSULTANT will provide exhibits and cost estimates for coordination with Aurora Fire Department for EVP and other signal requirements. The CITY will lead coordination with the Fire Department.

#### Administration and Management

The CONSULTANT will perform project management and administration, including project setup, staff scheduling, progress monitoring, monthly invoice, and progress reports.

#### QA/QC

The CONSULTANT shall implement their QA/QC policy.

#### **The following are items that are excluded from the Phase I scope:**

- Systems Engineering Report
- Detailed Sign Survey / Inventory
- Lighting analysis or assessment
- Signal Coordination and Timing (SCAT) Plan
- Drainage or hydraulic studies
- Pavement Design (Only potential intersection radii modifications)
- Workzone Traffic Analysis (Non-Significant Route)
- Soil borings / pavement cores / soil sampling (Phase II)

City of Aurora  
 Farnsworth Avenue Traffic Signal Modernization and Resurfacing  
 From I-88 to Sheffer Road  
 Phase I Study  
 Work-hour and Direct Cost Estimate

TASK & DESCRIPTION	WORK HOURS	DIRECT COST	Comments
<b>1 Data Collection and Evaluation</b>			
Data Collection Online- ADT on IDOT website, Land Use, Zoning, School, Park, Fire and Sanitary Districts, etc.	8		
Review and Analyze Data from the City Microfilm, Traffic Counts, Existing R.O.W., Utility Plans, Bicycle and other information from CMAP and locals, etc.	12		
Traffic Volume Data Collection - Coordination with Miovision for traffic counts	4	\$4,320.00	\$90/hr processing
Develop GIS collector data / maps for use in data collection	16		
Field trips to area 2 trips x 8 hours/trip x 3 persons	48	\$104.80	Mileage (80 miles / trip)
GIS Processing and Evaluation, incorporate field data into CADD	32		
SUBTOTALS =	<b>120</b>	<b>\$4,424.80</b>	
<b>2 Topographic Survey and Aerial Imagery</b>			
Subconsultant Coordination			
Coordination / meeting for utility locates and topographic survey	4		
Incorporate utility SUE Level B into CAD, review topo and utility base files	8		
SUBTOTALS =	<b>12</b>	<b>\$0.00</b>	
<b>3 Environmental Studies</b>			
Environmental Survey Request	48		
Wetland Delineations	40	\$1,202.00	400 miles, 2 nights lodging, 2 days per diem, EcoBot points
Wetland Report	76	\$100.00	Reprographics
Wetland Impact Exhibit and form	12		
Tree tabulation and evaluation (Station, Offset, Diameter, Remove/ Remain)	0		N/A
Determination of potential Section 4(f) issues Check for public lands affected by proposed ROW	0		N/A
SUBTOTALS =	<b>176</b>	<b>\$1,302.00</b>	
<b>4 Crash and Safety Analysis</b>			
Review crash data and tabulate (For 5 years of data) 8 hrs / intersection / segment x 6 intersection & 5 segments	88		Anticipate more segment crashes than Indian Trail with all the commercial entrances
Write analysis- includes counter measures and expected reduction per HSM 6 hrs / location x 11 locations	66		
Prepare crash exhibits (Intersection Diagrams / Corridor Hot Spots)	80		
SUBTOTALS =	<b>234</b>	<b>\$0.00</b>	
<b>5 Abbreviated Traffic Signal Technology Assessment</b>			
Research / coordinate with TCC / determine applicable technologies	8		
Prepare assessment tech memo with narrative, exhibits, and cost estimate	12		
Address comments and prepare final recommendations	4		
SUBTOTALS =	<b>24</b>	<b>\$0.00</b>	
<b>6 Capacity Analysis</b>			
Synchro Analysis 16 hrs / model x 2 peak period x 3 alternative (existing / optimized / casino) Weekday AM / PM	96		
SUBTOTALS =	<b>96</b>	<b>\$0.00</b>	

City of Aurora  
 Farnsworth Avenue Traffic Signal Modernization and Resurfacing  
 From I-88 to Sheffer Road  
 Phase I Study  
 Work-hour and Direct Cost Estimate

TASK & DESCRIPTION	WORK HOURS	DIRECT COST	Comments
<b>7 Geometric Studies</b>			
Determine Facility Deficiencies	16		
ADA Ramp Design - 22 corners at 4 hrs / corner	88		
Bus Stop Design - 10 stops at 4 hrs / stop	40		
Project length = 9,200 feet. One 1" = 50' double plan sheet = 2,800'. 9,200/2,800' = 4 sheets. 4 Sheets x 24 WH/sheet	96		Hours / sheet reduced due to limited scope of work in sections of the project
Typical Sections 4 typical cross-sections x 4 WH/section	16		2 EX and 2 PR
Bike Path - Creek Ave to Illinois Prairie Path, 1,900 feet Cross sections every 50' + entrances = 42 sections x 1.5 hrs / section	63		
Traffic Signal Preliminary Layout (8 hrs / intersection x 4 intersections)	32		
Traffic Signal Modifications (4 hrs / intersection x 2 intersections)	8		Requires layout of ex equipment with proposed modifications
Plot Proposed R.O.W. Line (including stations and offsets for all break points)	12		
Property Owner Exhibits (Up to 12 parcels)	24		
Intersection Design Study (traffic analysis, signal phasing, truck templates, etc.) 3 Intersections at 60 WH/Intersection	180		I-88 EB, Molitor Rd and Indian Trail
Truck Templates 3 Intersections at 12 WH/Intersection	36		I-88 WB, Reckinger Rd and Sheffer Rd
Develop and update preliminary construction cost estimate	32		
SUBTOTALS =	<b>643</b>	<b>\$0.00</b>	
<b>8 Public Involvement</b>			
City to Provide Mailing List			
Prepare ROW letters on City letterhead - Up to 12 parcels	16	\$60.00	Certified Mail
Preparation of Public Meeting/Hearing materials			
Postcards	12	\$250.00	Printing and mailing costs
Advertisement	8	\$500.00	Newspaper Ad expense (2 @ \$250 ea)
Display exhibits	40	\$1,000.00	Full size boards and strip map
Audio/visual presentation	32		
Court Reporter	N/A		
Attendance at dry run for Public Meeting 3 people x 6 hours	18	\$52.40	Mileage
Attendance at Public Meeting 4 people x 6 hours	24	\$52.40	Mileage
Compile comments and write summary of Public Meeting	24		
Preparation of newsletter and/or draft response letters	24		
Website Content Coordination	4		
Content will be based on display exhibits created for public meeting			
SUBTOTALS =	<b>202</b>	<b>\$1,914.80</b>	
<b>9 Project Development Report</b>			
Compile exhibits, correspondence/documentation, and supplements	12		
Write report, proofread, and edit	48		
Combine Project Report into Portable Document Format (PDF)	4		
Incorporate Public Meeting information	8		
Address comments from draft report and revise exhibits	24		
Print, bind, and deliver one copy in three-ring binder format to IDOT	8	\$250.00	Printing / delivery
Revise PDF of Project Report, recognize text and provide bookmarks	8		
SUBTOTALS =	<b>112</b>	<b>\$250.00</b>	

City of Aurora  
 Farnsworth Avenue Traffic Signal Modernization and Resurfacing  
 From I-88 to Sheffer Road  
 Phase I Study  
 Work-hour and Direct Cost Estimate

TASK & DESCRIPTION	WORK HOURS	DIRECT COST	Comments
<b>10 Meetings and Coordination</b>			
City Meetings Two progress meetings to discuss findings and recommendations	12		
IDOT Kickoff Meeting 1 meeting x 2 people x 1 hrs (Teams) + 4 hrs prep + 4 hrs meeting minutes	12		
BDE/FHWA meeting 1 meeting x 2 people x 1 hrs (Teams) + 4 hrs prep + 4 hrs meeting minutes	12		
Pace Bus Meeting 1 meeting x 2 people x 2 hrs (Teams) + 2 hrs prep + 2 hrs meeting minutes	8		
ISTHA Meeting 1 meeting x 2 people x 2 hrs (Teams) + 2 hrs prep + 2 hrs meeting minutes	8		
Township Meeting 1 meeting x 2 people x 2 hrs (Teams) + 2 hrs prep + 2 hrs meeting minutes	8		
Internal Coordination Meeting 3 meetings x 4 people x 1 hour	12		
Aurora Fire Department Coordination Prepare cost estimate and exhibits (Coordination led by City)	4		
SUBTOTALS =	<b>76</b>	<b>\$0.00</b>	
<b>11 Administration and Management</b>			
Project Setup	8		
Administration (4 hrs / month x 18 months)	72		
SUBTOTALS =	<b>80</b>	<b>\$0.00</b>	
<b>12 QA/QC</b>			
Review of milestone submittals (3% of above tasks)	53		
SUBTOTALS =	<b>53</b>	<b>\$0.00</b>	
TOTAL =	<b>1828</b>	<b>\$7,891.60</b>	



**City of Aurora  
QBS 22-104 Phase I Studies (Farnsworth Ave.)  
Survey Scope of Work**

**QUALITY ASSURANCE**

Provide experienced field personnel under the supervision and direction of a Professional Land Surveyor with minimum of 20 years of experience in charge of surveys for projects similar in nature to that required by this Contract. All work shall be performed under the supervision of a surveyor currently licensed in the State of Illinois.

EEI's Quality Control/Quality Assurance (QA/QC) Document will be used to ensure the survey standards and accuracies are maintained throughout the project

**PROPERTY ACCESS**

EEI will readily access public ROW areas unless an access or survey permit is needed (railroads). The client requesting a survey is responsible for determining the survey permitting requirements of a particulate site. Once determined, the client and EEI will coordinate efforts to obtain the necessary permits before the start of surveying.

**TOPOGRAPHIC SURVEY REQUIREMENTS**

Perform a topographic survey of the referenced locations. The resulting map will depict one-foot contour intervals and shall contain the following items:

The locations of visible improvements and features in said areas to include existing buildings, foundations, walls, fences, tree lines, bushes, curbs, curb cuts, roadways, driveways, steps, ramps, walks, light poles, utility poles, encroachments, the water's edge of creeks and ponds, storm sewer manholes, sanitary sewer manholes, water valves, hydrants, pedestals for electric, telephone and cable television, traffic signal bases, handholds, cabinets and other visible improvements. Rim and Invert elevations will be provided for storm and sanitary sewers, if accessible. Top of water main elevations will be provided at the valve vaults.

EEI will use its best professional judgment to determine the direction of underground pipes and connections between manholes. However, EEI shall not be responsible for the accuracy of location and elevation of underground utility pipes between structures.

Trees 4-inch diameter & larger will be located along with the estimated tree diameter. The trees will be identified as deciduous or coniferous and not by species name.



For storm or sanitary sewer pipes extending beyond the survey/property line, the location of the first manhole or drain inlet with information of type, size of pipes, and invert elevations will be given, if determinable.

Locations of above ground utility lines will be based upon surface structures. For any underground public utilities to be shown on the survey, Stanley Consultants will hire a utility consultant that will field mark the underground utilities at the signalized intersections. We will attempt to coordinate with utility consultant to meet them in the field on the day they are performing the utility locate. Once the utilities have been marked our field crews will then locate the markings and we will show them on the topographic survey.

*EEl is not responsible for the accuracy, validity, or completeness of any underground utility locates.*

The adjacent right-of-way will be approximately established by nearby monumentation found within 100' of survey limits. If none is found the centerline of the road will be used to determine the approximate right-of-way location.

EEl will typically produce the Topographic Surveys within 4-6 weeks from the time authorization to proceed has been given.

#### BENCHMARKS:

Establish two (2) benchmarks, indicating locations (northing and easting), and show elevations on the plan.

#### RIGHT OF WAY RESEARCH

EEl will research the county recorders website to determine if the right of way has been granted in the areas of our topographic survey work. However, EEl is not a title research firm and shall not be responsible for any relevant undiscovered right of way plats or conveyances.

#### SITE DRONE FLIGHT

EEl will perform a limited corridor drone flight to obtain aerial photos of specific areas. All flights are subject to airspace restrictions and altitude limitations dictated by the Federal Aviation Administration (FAA) and Part 107 operating limitations for small-unmanned aircraft. EEl will gain airspace authorization when needed and notify local jurisdictions when necessary.

#### SURVEY ACCURACY

Project surveying for topographic features will be under the direct supervision of a licensed surveyor (State of Illinois), using the survey control points set up for the project by EEl or its subconsultant. The following topographic accuracy criteria outline in the IDOT Survey Manual will be used for this project.

- 1) Planimetric Hard Surface Features: within 0.04-ft horizontal and 0.04-ft elevation.
- 2) Cross-Section Ground: 0.4-ft horizontal and 0.1-ft elevation.
- 3) Topographic Contours: 0.5-ft horizontal and 0.5-ft elevation.

- 4) Real-Time Kinematic (RTK) Survey Control: Level 1 Precision, typically <0.07-ft Horizontally and <0.13-ft Vertically.

The following criteria outline the planimetric topography coordinate system and datum.

- 1) Horizontal: Illinois State Plane Coordinate System, East Zone NAD83 (2011).
- 2) Vertical: NAVD88.
- 3) Units: U.S. Survey Feet

## SURVEY LOCATIONS

The sites to be surveyed are as follows:

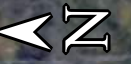
- 1) Farnsworth Ave. drone flight: The corridor for the drone flight for aerial imagery will be along the centerline of Farnsworth Ave., from 300' south of Sheffer Road to Corporate Blvd. and cover 125' east and west of the centerline of Farnsworth Ave.
- 2) Topographic survey for proposed bike path. We will provide a topographic survey of a 50' wide swath of land lying west of and adjacent to the west curb line of Farnsworth Ave lying south of the south line of the Prairie Path Trail and the north line of E. Indian Trail.
- 3) Intersection traffic signal modernization surveys. We will locate all visible improvements at the following Farnsworth intersections: Sheffer Road, E. Indian Trail, Creek Ave., Reckinger Road, Molitor Road and East bound exit ramp and west bound entrance ramp to I-88. The limits of the survey work are shown on the attached aerials.
- 4) Bus stop location surveys. We will locate any visible improvements from the back of curb to 15' past the right of way in the areas shown on the attached exhibits near 1685 N. Farnsworth Ave.

The limits of the above-described surveys are outlined in red and are shown on the attached aerials of the above-described locations.

## DELIVERABLES

Final topographic survey drawing shall be Bentley OpenRoads Designer Connect Edition Update 10, 2021 Release 2(.dgn file). Point Files will be in (Point,North,East,Elevation,Code,Note) format.

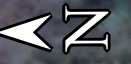
Other deliverables will be site benchmarks, survey control points, utility field notes and photos.



**Bus Stop Locations**



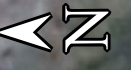




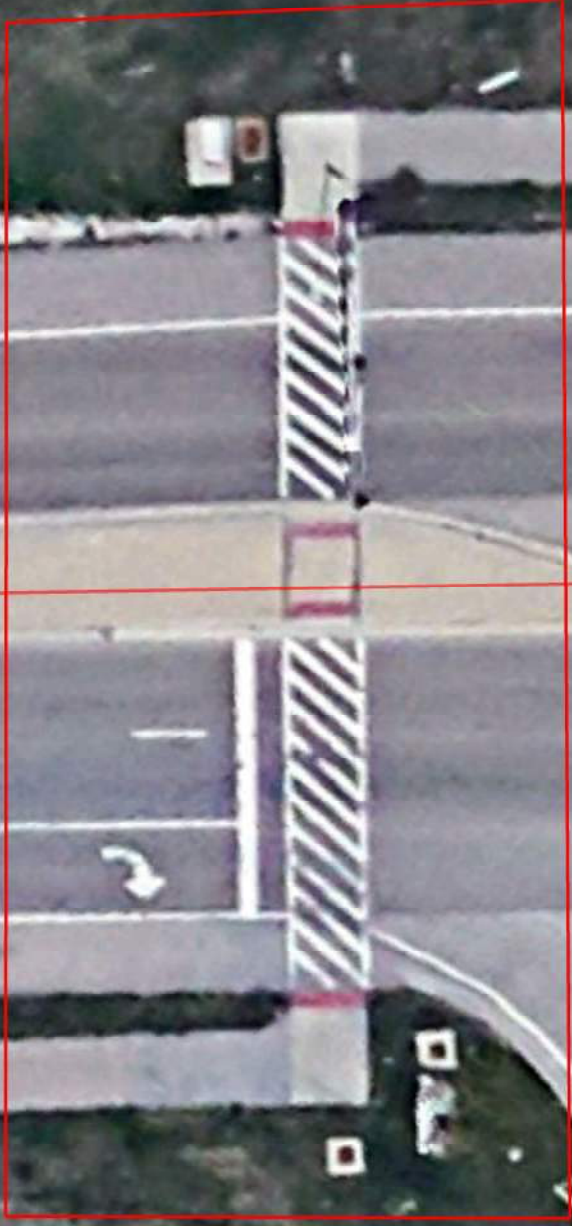
Creek Ave







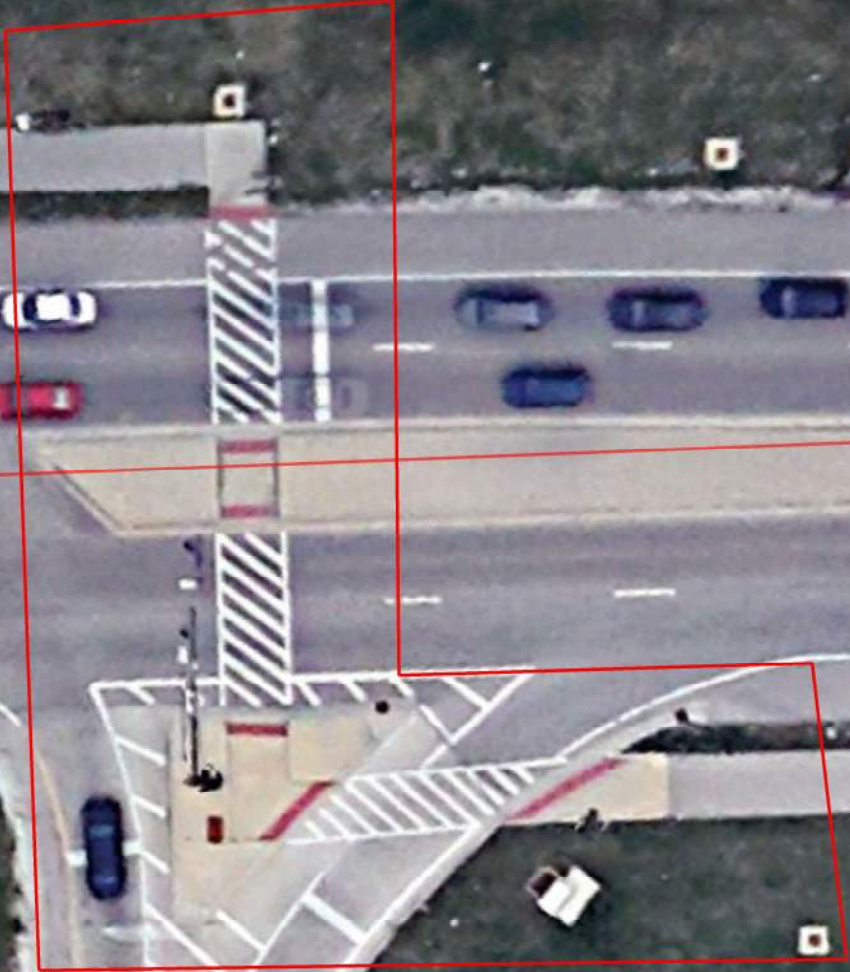
**I-88 W, Bound Entrance Ramp**



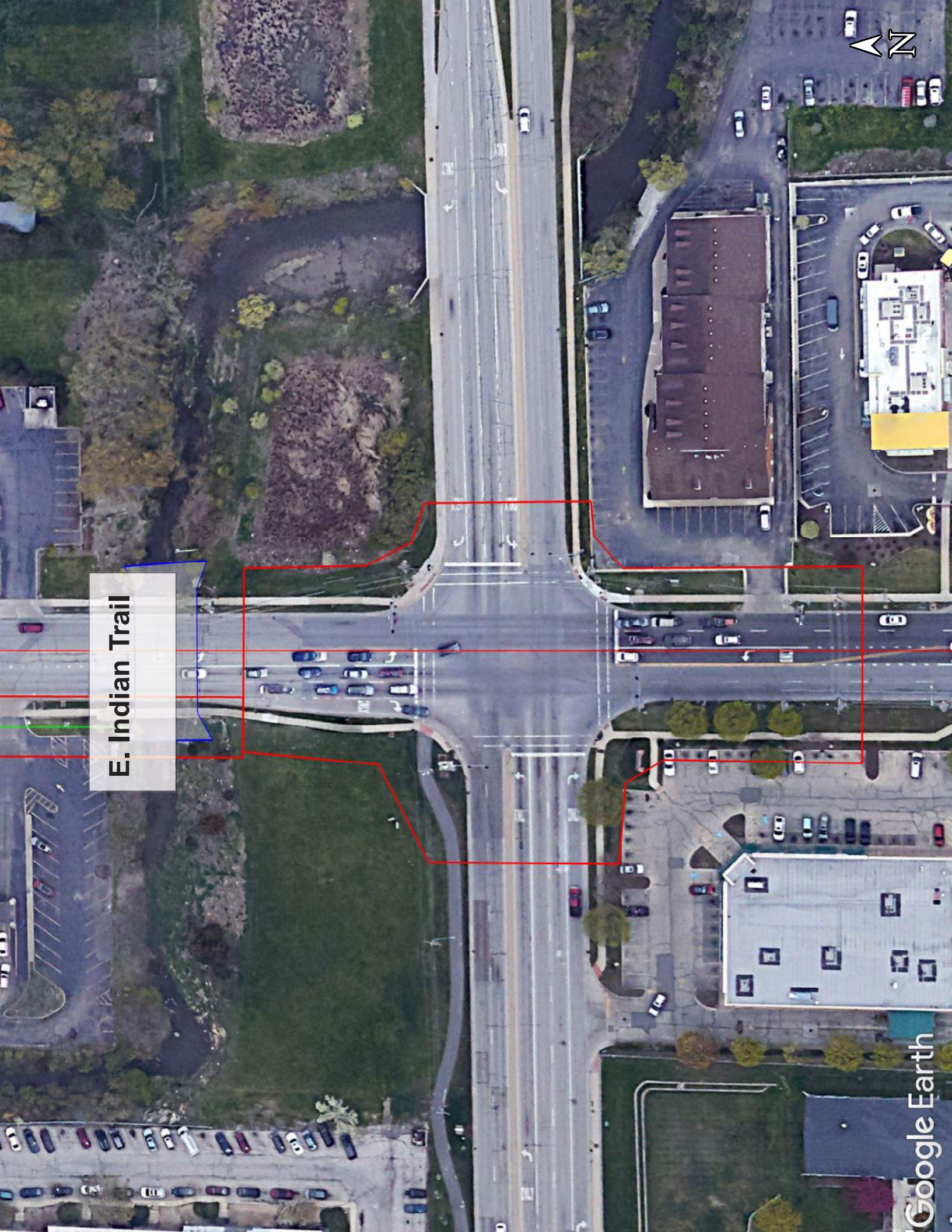




I-88 E. bound exit ramp







E. Indian Trail



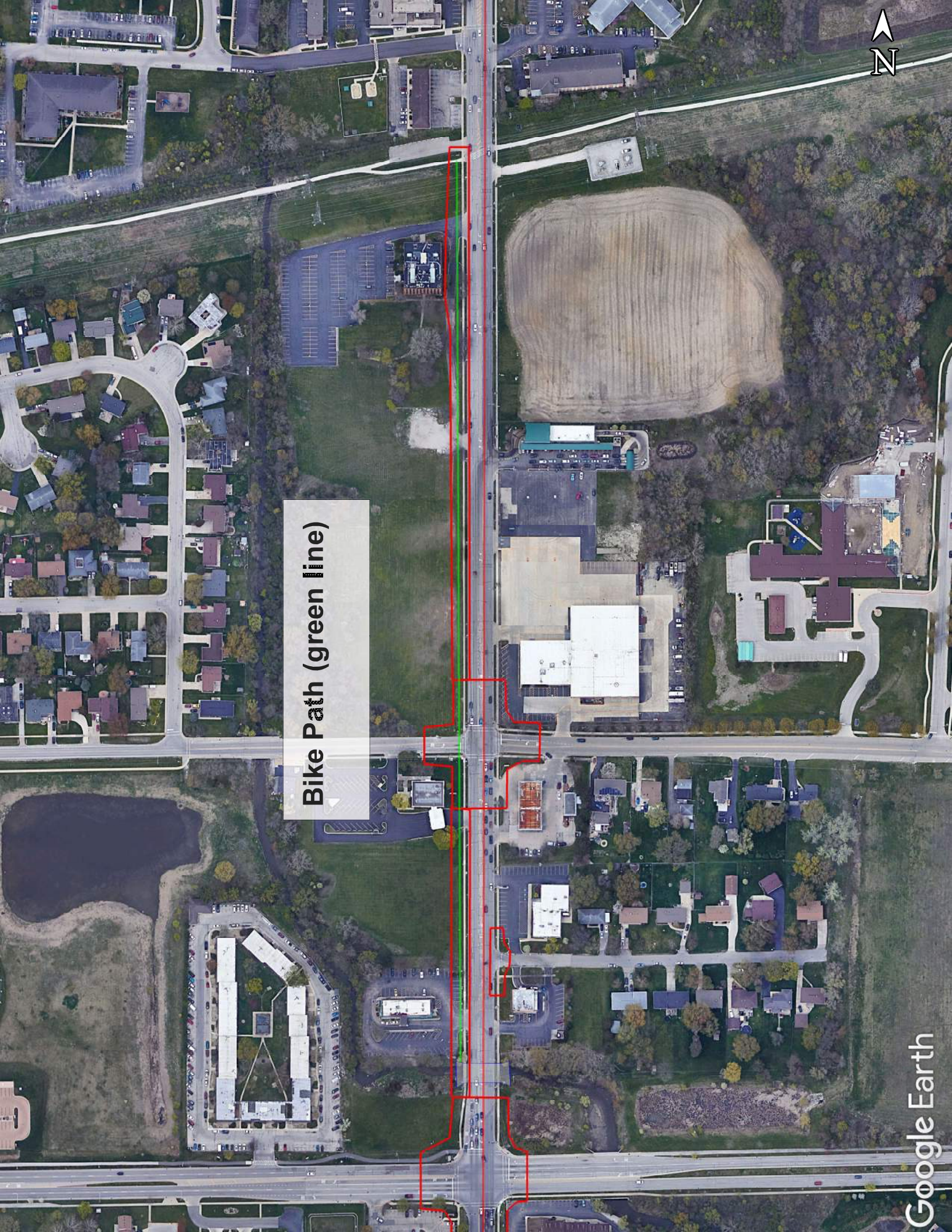




Molitor Road

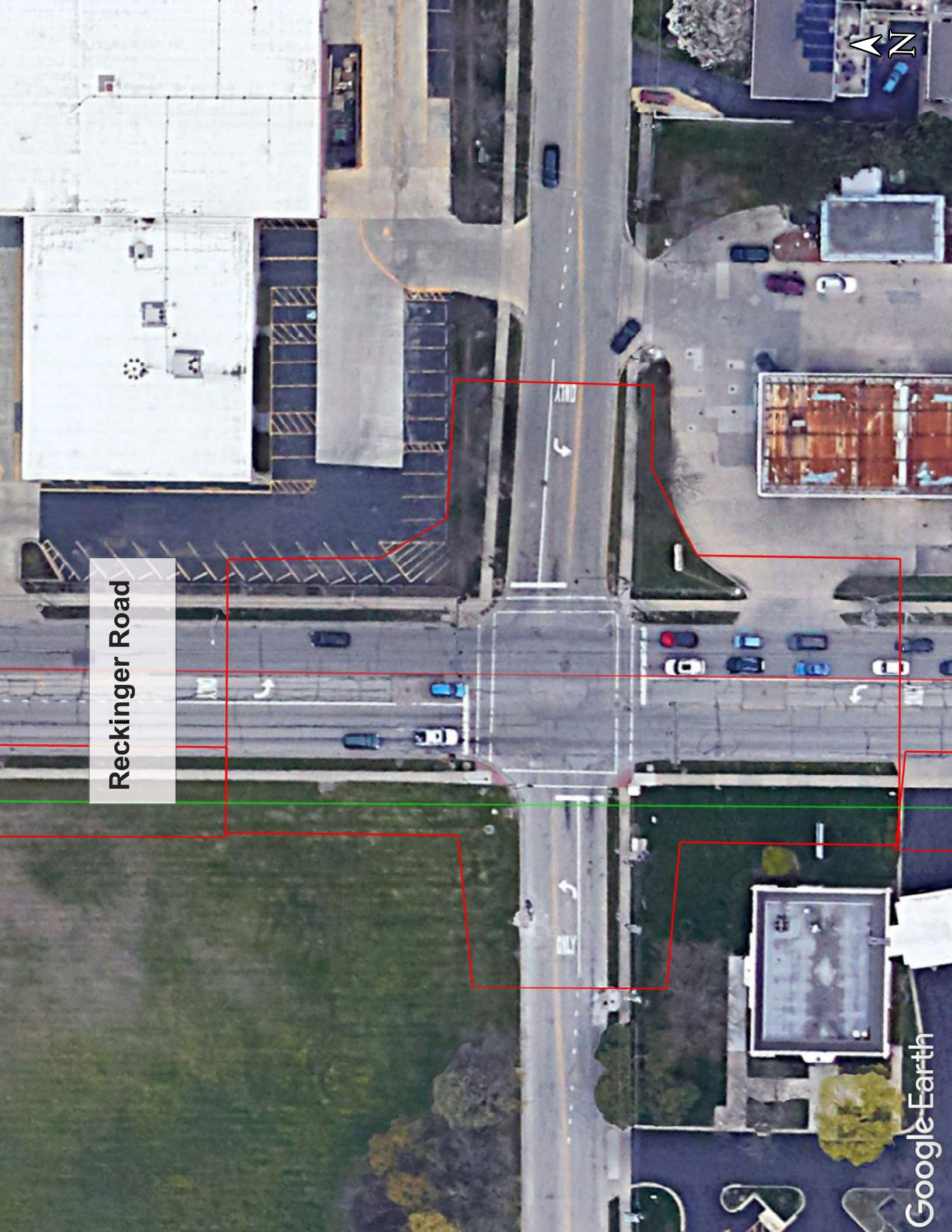






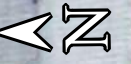
**Bike Path (green line)**



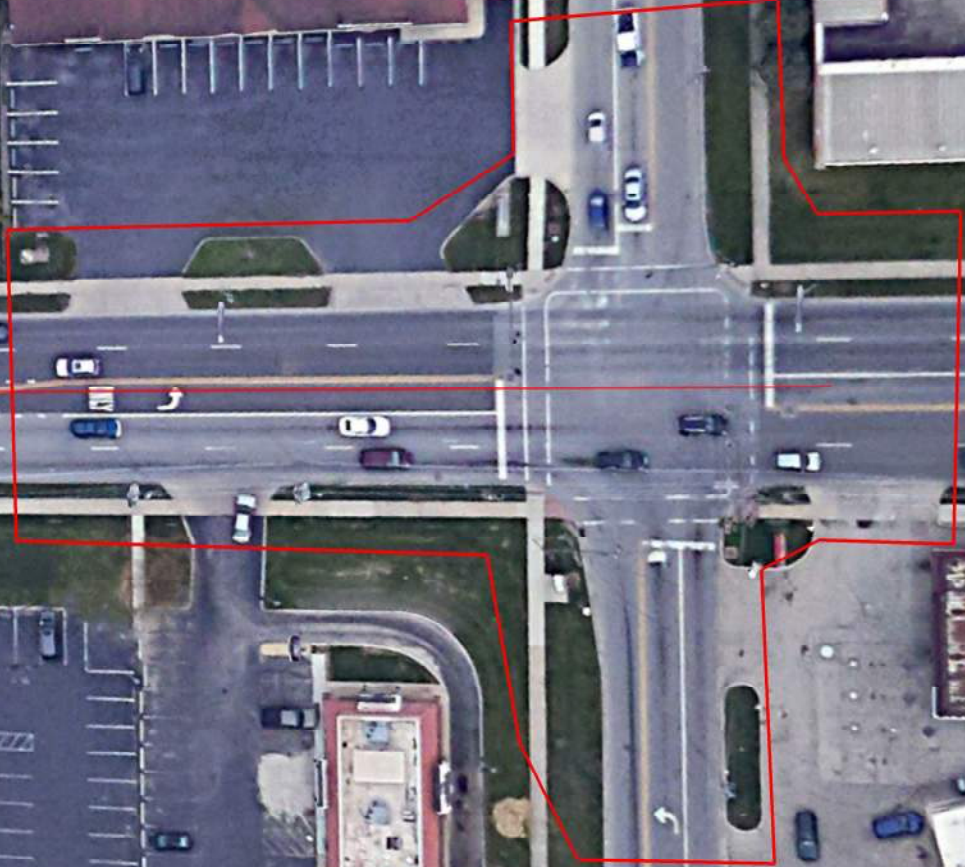


Reckinger Road





Sheffer Road





January 27, 2023

Tyler Grau, P.E.  
Principal Transportation Engineer  
Stanley Consultants  
8501 W Higgins Road, Suite 730  
Chicago, IL 60631

Re: Scope and Fee for Subsurface Utility Engineering along Farnsworth Ave, Aurora, IL  
HBK Engineering, LLC – 23-5007 – Phase 008 – TO 001

Dear Mr. Grau,

HBK Engineering, LLC, is pleased to present this proposal to Stanley Consultants. This Phase I Engineering Study centers around intersection improvements along Farnsworth Avenue in Aurora, Illinois. This project will require the designation and survey of existing utilities throughout the project limits and utility coordination and design review of the proposed preliminary designs.

The total proposal cost estimate is \$15,216.00. HBK's scope and fees for the project are broken into three (3) components, as follows:

Initial Coordination and Data Collection

Pricing Total: \$1,475.00

Utility Designation and Survey

Pricing Total: \$9,040.00

Preliminary Design Review and Utility Coordination:

Pricing Total: \$4,701.00

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

Sincerely,



Anthony R. D'Angelo  
Design Engineer

Attachments:

- Stanley\_Farnsworth Ave\_HBK\_235007-Ph008-TO001\_SOW\_SUE-UtilCoord\_20230127 (PDF)
- BLR 05513\_Stanley\_Farnsworth Ave\_HBK\_235007-PH008-TO001\_HBK\_20230127 R1 (PDF)
- Stanley\_Farnsworth Ave\_235007-Ph008-TO001\_Location Exhibit A (PDF)

cc: Bethany Turk, PE, Robert Kolar and Project File

(Stanley\_Farnsworth Ave\_HBK\_235007-Ph008-TO001\_CoverLtr\_SUE-UtilCoord\_20230127 R1.doc)

# Farnsworth Avenue Traffic Signal Modernization – Aurora, Illinois

At the request of Stanley Consultants (Consultant), **HBK Engineering, LLC (HBK)** has prepared a scope of services for Utility Designation and Survey, Subsurface Utility Engineering (SUE) and Utility Coordination for the Farnsworth Avenue intersections improvement project in Aurora, Illinois. A manhour and fee estimate for this improvement project is also attached.

## **Project Limits**

The project limits for purposes of utility identification, designation, and survey will occur at seven (7) specific areas along Farnsworth Ave (see attached exhibit):

### Intersections

- Farnsworth Ave and Scheffer Rd,
- Farnsworth Ave and Indian Trail,
- Farnsworth Ave and Reckinger Rd,
- Farnsworth Ave and Molitor Rd,
- Farnsworth Ave and the EB exit ramp of I-88, and
- Farnsworth Ave and the WB entrance ramp of I-88

### Proposed Multi-use Path

- Southbound Right of Way bound by the following intersections
  - o Indian Trail
  - o Illinois Prairie Path

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

## **Utility Identification and Coordination**

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

## **Initial Coordination/Data Collection**

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

## **Utility Designation and Survey**

Descriptions of SUE quality levels are derived from the American Society of Civil Engineers (ASCE) Standard 38-22, *Standard Guideline for Investigating and Documenting Existing Utilities*. There are four recognized quality levels of underground utility information ranging from Quality Level QL-D (the lowest level) to Quality Level QL-A (the highest level).

HBK will perform SUE Quality Level B designation of any utility facilities located within the project limits. Quality Level D information will be obtained from the City of Aurora, utility company atlases, JULIE requests, and other reliable sources. Qualified HBK staff will perform Level B designation of underground utilities within the project limits.

HBK will perform SUE Level D and B designation of electric, telecommunication, gas, underground traffic control facilities at signalized intersections, interconnections between intersections, street lighting facilities, and water facilities within the limits of the Farnsworth Avenue improvement project limits.

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

It is assumed that either Stanley Consultants and/or City of Aurora has benchmarks available in the vicinity of the project or that HBK will be allowed to establish vertical control (NAVD88) utilizing GPS and the nearest NGS vertical monuments. Stanley Consultants will provide the benchmark(s) and control data for HBK's use in its data collection.

Survey will include existing visible utility structures, including telecommunication, gas, electric, watermain, and other utilities noted previously found within the project limits.

#### Preliminary Design Review and Coordination

As part of this scope, HBK will complete a conflict analysis between the existing utility location information and the proposed preliminary intersection improvement plan set to identify potential utility conflicts. HBK will review preliminary designs to determine if there are any significant conflicts that need to be reviewed. HBK will also coordinate with the roadway design team to develop understanding the presence of utilities, their type, and possible issues with protecting and/or relocating those utilities.

#### Assumptions/Exclusions

- HBK will not review utility relocation plans and utility permit plan submittals.
- Quality Level A locates (potholing) is NOT included in this proposal to Stanley Consultants. HBK can provide an hour and fee estimate to perform Quality Level A locates if requested.
- SUE Level B designating DOES NOT include sanitary or storm sewer facilities.

End of Document

(Stanley\_Farnsworth Ave\_HBK\_235007-Ph008-TO001\_SOW\_SUE-UtilCoord\_20230127.doc)

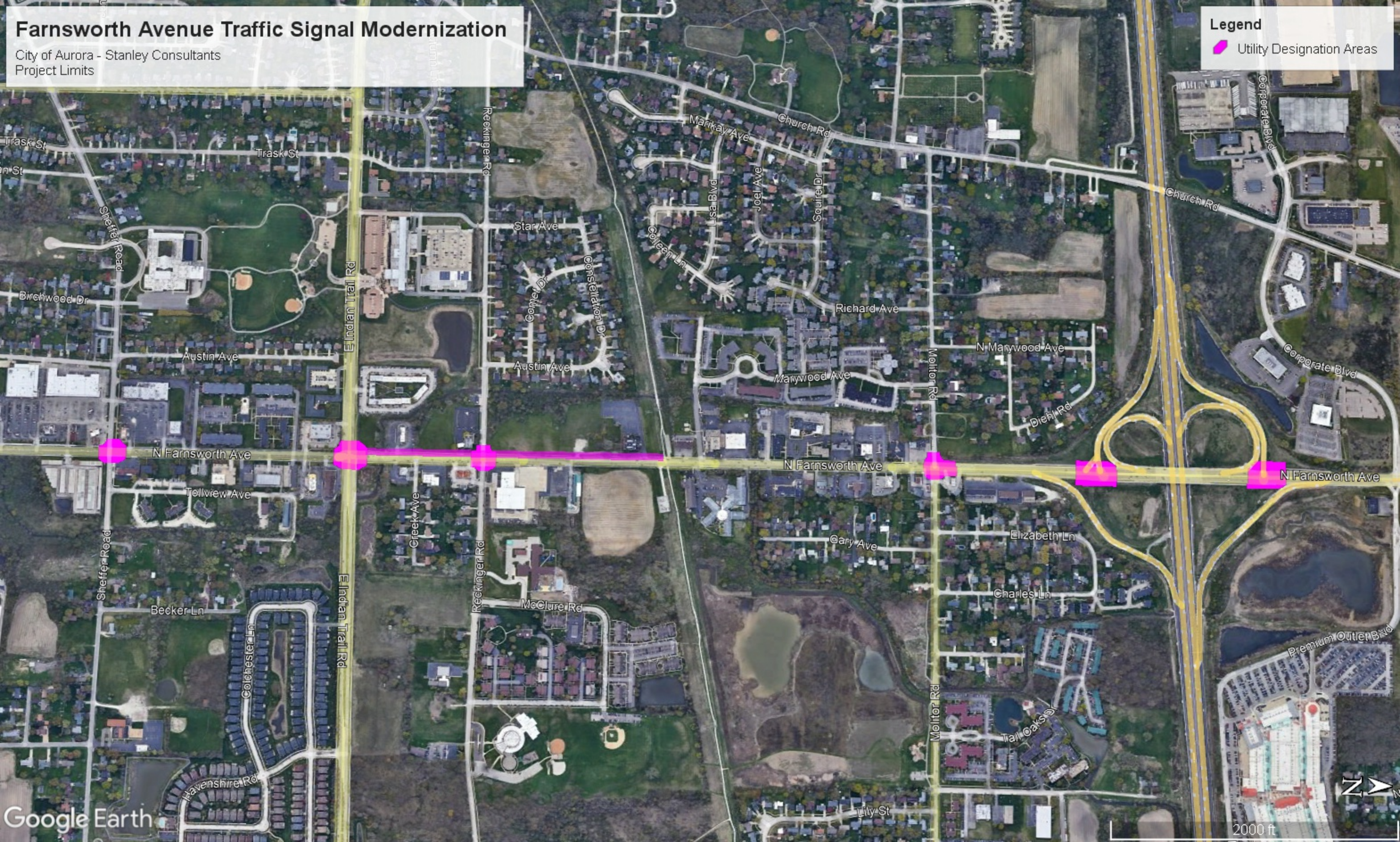


# Farnsworth Avenue Traffic Signal Modernization

City of Aurora - Stanley Consultants  
Project Limits

**Legend**

- Utility Designation Areas





1/24/2023

**Scope of Work**  
**Phase I Engineering Services**  
**Environmental Screening**  
**Traffic Signal Modernization & Resurfacing Project**  
**Section: 23-00359-00-TL**  
**Farnsworth Avenue Between**  
**Corporate Boulevard & Indian trail Road**  
**City of Aurora, Kane County, Illinois**

We understand that the proposed improvements consist of traffic signal modernization and resurfacing of Farnsworth Avenue.

**Scope of Work**

Our scope of work includes site reconnaissance and review of historical information such as federal, state and local database search and aerial photographs to identify potentially impacted properties within and adjacent to the Right of Way (ROW) and to identify contaminants of concern. We understand that this information will be used during Phase II Engineering for potential environmental soil sampling and determining soil management options.

**Cost Estimate**

The cost to provide the above-mentioned services will be provided upon request. Breakdown of field and report hours, and laboratory tests are provided in the attached supporting documents.

**Schedule**

The fieldwork could be started within three weeks of receiving authorization to proceed. We anticipate the work to be completed in four (4) weeks.



**Estimate of Effort (Field and Report)**

Environmental Screening: Review historical documents and perform site reconnaissance.

Item No.	Item Description	Category	Admin Asst	Staff Engr/ Geologist	Proj Engr	Project Manager Sr. Project Manager	Principal Engineer	Total Hours	Vehicle	Remarks
1	Administrative Support	Report	2					2		
2	Site reconnaissance	Field		8				8	1	
3	Utility Clearances and Joint Meets	Field		0				0		
4	Pre-Drilling meeting	Field						0		
5	Drilling Geologist/Field Engineer	Field						0		
6	Report - Environmental	Report			20	2	4	26		
7	Report - Pavement Cores	Report						0		
8	Report - Soil Boring Logs	Report						0		
9	Report - Soil Profile Sheets - CAD	Report						0		
10	Roadway Geotechnical Report	Report						0		
11	Structure Geotechnical Report	Report						0		
12	Peer Review of Geotechnical Reports	Report						0		
13	Meetings	Report						0		
14	Comments Review Report changes & Disposition	Report						0		
15	Project Management and Coordination	Report				4		4		
<b>Totals</b>			<b>2</b>	<b>8</b>	<b>20</b>	<b>6</b>	<b>4</b>	<b>40</b>	<b>1</b>	
		<b>Field</b>	0	8	0	0	0	8		
		<b>Report</b>	2	0	20	6	4	32		

Exhibit B -  
Project Schedule

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Aurora	Stanley Consultants, Inc.	Kane	23-00359-00-TL

**EXHIBIT B  
PROJECT SCHEDULE**

<p>Project Start: March 2023</p> <p>Data Collection: March 2023 / April 2023</p> <p>Traffic and Safety Studies: April 2023 - July 2023</p> <p>Geometry / ADA Design: April 2023 - July 2023</p> <p>IDOT Kickoff Meeting: May 2023</p> <p>Environmental Studies: June 2023 - February 2024</p> <p>FHWA / BDE Meeting: October 2023</p> <p>Public Information Meeting: November 2023</p> <p>Project Development Report: October 2023 - May 2024</p> <p>Design Approval: July 2024</p>
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Exhibit C -  
Qualifications Based Selection  
(QBS) Checklist

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Aurora	Stanley Consultants, Inc.	Kane	23-00359-00-TL

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

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

Form Not Applicable (engineering services less than the threshold)

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

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

If yes Due date of submittal

Method(s) used for advertisement and dates of advertisement

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

Project Criteria	Weighting
Consultant Experience	30%
Staff Capabilities	20%
Technical Approach	30%
Schedule	20%

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

Top three consultants ranked for this project in order	
1	Stanley Consultants, Inc.
2	HR Green, Inc.
3	Ciorba Group

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

Exhibit D -  
Cost Estimate of Consultant  
Services  
(BLR 05513 or BLR 05514)

Includes Direct Costs  
Checksheet for each consultant



<b>Local Public Agency</b> City of Aurora	<b>County</b> Kane	<b>Section Number</b> 23-00359-00-TL
<b>Prime Consultant (Firm) Name</b> Stanley Consultants, Inc.	<b>Prepared By</b> Tyler Grau	<b>Date</b> 2/2/2023
<b>Consultant / Subconsultant Name</b> Stanley Consultants, Inc.	<b>Job Number</b> 	

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

**Remarks**

### PAYROLL ESCALATION TABLE

<b>CONTRACT TERM</b>	18	MONTHS	<b>OVERHEAD RATE</b>	184.14%
<b>START DATE</b>	3/6/2023		<b>COMPLEXITY FACTOR</b>	0
<b>RAISE DATE</b>	4/1/2023		<b>% OF RAISE</b>	2.00%
<b>END DATE</b>	9/5/2024			

### ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	3/6/2023	4/1/2023	1	5.56%
1	4/2/2023	4/1/2024	12	68.00%
2	4/2/2024	9/1/2024	5	28.90%

The total escalation = 2.46%

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

City of Aurora

Kane

23-00359-00-TL

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

Stanley Consultants, Inc.

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

<b>MAXIMUM PAYROLL RATE</b>	<b>78.00</b>
<b>ESCALATION FACTOR</b>	<b>2.46%</b>

<b>CLASSIFICATION</b>	<b>IDOT PAYROLL RATES ON FILE</b>	<b>CALCULATED RATE</b>
Regional Manager	\$78.00	\$78.00
Client Services Manager	\$78.00	\$78.00
Department Manager	\$78.00	\$78.00
Principal Engineer	\$77.45	\$78.00
Senior Engineer	\$65.00	\$66.60
Senior Environmental Planner	\$55.89	\$57.26
Senior Environmental Scientist	\$39.52	\$40.49
Engineer	\$47.02	\$48.17
Engineer-In-Training II	\$40.65	\$41.65
Engineer-In-Training I	\$35.58	\$36.45
Senior Resident Project Representative	\$72.79	\$74.58
Resident Project Representative	\$49.99	\$51.22
ECM Consultant	\$62.16	\$63.69
Designer	\$48.44	\$49.63
Senior Technician	\$40.46	\$41.45
Senior Administrative Assistant	\$30.62	\$31.37
Administrative Assistant	\$24.78	\$25.39
Engineering Student Intern	\$21.00	\$21.52





**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00359-00-TL

**Consultant / Subconsultant Name**

Stanley Consultants, Inc.

**Job Number**

**DIRECT COSTS WORKSHEET**

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

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)	2	\$95.00	\$190.00
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	720	\$0.66	\$471.60
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)	1	\$310.00	\$310.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)	1	\$100.00	\$100.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)	1	\$250.00	\$250.00
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)	2	\$250.00	\$500.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)	10	\$100.00	\$1,000.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
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
Travel Per Diem	Actual Cost	2	\$75.00	\$150.00
Wetland Delineaton EcoBot	Actual Cost (data points e-form)	15	\$40.00	\$600.00
Traffic Counts	Actual Cost (per hour)	48	\$90.00	\$4,320.00
			BLR 0554 (Rev. 11/04/22)	\$0.00
			<b>TOTAL DIRECT COSTS:</b>	<b>\$7,891.60</b>



**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00359-00-TL

**Consultant / Subconsultant Name**

Stanley Consultants, Inc.

**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			Data Collection and Evaluation			Topographic Survey and Aerial Imagery			Environmental Studies			Crash and Safety Analysis			Abbreviated Traffic Signal Tech Memo		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Regional Manager	78.00	0.0																	
Client Services Manager	78.00	0.0																	
Department Manager	78.00	28.0	1.53%	1.19															
Principal Engineer	78.00	253.0	13.84%	10.80	12	10.00%	7.80	2	16.67%	13.00	8	4.55%	3.55	12	5.13%	4.00	8	33.33%	26.00
Senior Engineer	66.60	134.0	7.33%	4.88	8	6.67%	4.44							32	13.68%	9.11	4	16.67%	11.10
Senior Environmental Planr	57.26	32.0	1.75%	1.00							32	18.18%	10.41						
Senior Environmental Scier	40.49	24.0	1.31%	0.53	24	20.00%	8.10												
Engineer	48.17	331.0	18.11%	8.72	12	10.00%	4.82	6	50.00%	24.09	20	11.36%	5.47	50	21.37%	10.29	12	50.00%	24.09
Engineer-In-Training II	41.65	348.0	19.04%	7.93	20	16.67%	6.94	4	33.33%	13.88	16	9.09%	3.79	64	27.35%	11.39			
Engineer-In-Training I	36.45	434.0	23.74%	8.65	16	13.33%	4.86				16	9.09%	3.31	76	32.48%	11.84			
Senior Resident Project Re	74.58	8.0	0.44%	0.33															
Resident Project Represen	51.22	0.0																	
ECM Consultant	63.69	0.0																	
Designer	49.63	148.0	8.10%	4.02	12	10.00%	4.96				24	13.64%	6.77						
Senior Technician	41.45	76.0	4.16%	1.72	16	13.33%	5.53				60	34.09%	14.13						
Senior Administrative Assis	31.37	12.0	0.66%	0.21															
Administrative Assistant	25.39	0.0																	
Engineering Student Intern	21.52	0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
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		0.0																	
		0.0																	
<b>TOTALS</b>		1828.0	100%	\$49.99	120.0	100.00%	\$47.45	12.0	100%	\$50.97	176.0	100%	\$47.43	234.0	100%	\$46.63	24.0	100%	\$61.19

**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00359-00-TL

**Consultant / Subconsultant Name**

Stanley Consultants, Inc.

**Job Number**

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

SHEET  2  OF  3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Capacity Analysis			Geometric Studies			Public Involvement			Project Development Report			Meetings and Coordination			Administration and Management		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Regional Manager	78.00																		
Client Services Manager	78.00																		
Department Manager	78.00							8	3.96%	3.09									
Principal Engineer	78.00	12	12.50%	9.75	44	6.84%	5.34	28	13.86%	10.81	12	10.71%	8.36	36	47.37%	36.95	68	85.00%	66.30
Senior Engineer	66.60	12	12.50%	8.32	36	5.60%	3.73	16	7.92%	5.27	8	7.14%	4.76	4	5.26%	3.51			
Senior Environmental Planner	57.26																		
Senior Environmental Scientist	40.49																		
Engineer	48.17	16	16.67%	8.03	123	19.13%	9.22	32	15.84%	7.63	24	21.43%	10.32	36	47.37%	22.82			
Engineer-In-Training II	41.65	16	16.67%	6.94	160	24.88%	10.36	40	19.80%	8.25	28	25.00%	10.41						
Engineer-In-Training I	36.45	40	41.67%	15.19	200	31.10%	11.34	46	22.77%	8.30	40	35.71%	13.02						
Senior Resident Project Representative	74.58																		
Resident Project Representative	51.22																		
ECM Consultant	63.69																		
Designer	49.63				80	12.44%	6.17	32	15.84%	7.86									
Senior Technician	41.45																		
Senior Administrative Assistant	31.37																12	15.00%	4.71
Administrative Assistant	25.39																		
Engineering Student Intern	21.52																		
<b>TOTALS</b>		96.0	100%	\$48.23	643.0	100%	\$46.16	202.0	100%	\$51.22	112.0	100%	\$46.87	76.0	100%	\$63.27	80.0	100%	\$71.01

**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00359-00-TL

**Consultant / Subconsultant Name**

Stanley Consultants, Inc.

**Job Number**

**AVERAGE HOURLY PROJECT RATES**

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

SHEET 3 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	QA / QC																	
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
Regional Manager	78.00																		
Client Services Manager	78.00																		
Department Manager	78.00	20	37.74%	29.43															
Principal Engineer	78.00	11	20.75%	16.19															
Senior Engineer	66.60	14	26.42%	17.59															
Senior Environmental Planner	57.26																		
Senior Environmental Scientist	40.49																		
Engineer	48.17																		
Engineer-In-Training II	41.65																		
Engineer-In-Training I	36.45																		
Senior Resident Project Representative	74.58	8	15.09%	11.26															
Resident Project Representative	51.22																		
ECM Consultant	63.69																		
Designer	49.63																		
Senior Technician	41.45																		
Senior Administrative Assistant	31.37																		
Administrative Assistant	25.39																		
Engineering Student Intern	21.52																		
<b>TOTALS</b>		53.0	100%	\$74.47	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



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

<b>Local Public Agency</b> City of Aurora	<b>County</b> Kane	<b>Section Number</b> 23-00359-00-TL
<b>Prime Consultant (Firm) Name</b> Stanley Consultants	<b>Prepared By</b> Mark Scheller	<b>Date</b> 2/1/2023
<b>Consultant / Subconsultant Name</b> Engineering Enterprises, Inc.	<b>Job Number</b> 	

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

**Remarks**

**PAYROLL ESCALATION TABLE**

CONTRACT TERM	18	MONTHS	OVERHEAD RATE	192.72%
START DATE	3/6/2023		COMPLEXITY FACTOR	0
RAISE DATE	ANNIVERSARY		% OF RAISE	2.00%

**ESCALATION PER YEAR**

**DETERMINE THE MID POINT OF THE AGREEMENT**

9

**CALCULATE THE ESCALATION FACTOR TO THE MIDPOINT OF THE CONTRACT**

1.50%

The total escalation for this project would be: 1.50%







**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00359-00-TL

**Consultant / Subconsultant Name**

Engineering Enterprises, 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 ANNIVERSARY RAISE

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	19	\$65.00	\$1,235.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost			\$0.00
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)	1	\$7.24	\$7.24
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utlility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost			\$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
<b>TOTAL DIRECT COSTS:</b>				<b>\$1,242.24</b>









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

<b>Local Public Agency</b> City of Aurora	<b>County</b> Kane	<b>Section Number</b> 23-00359-00-TL
<b>Prime Consultant (Firm) Name</b> Stanley Consultants	<b>Prepared By</b> Anthony D'Angelo	<b>Date</b> 1/27/2023
<b>Consultant / Subconsultant Name</b> HBK Engineering, LLC	<b>Job Number</b> 	

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

**Remarks**

**PAYROLL ESCALATION TABLE**

CONTRACT TERM	18	MONTHS	OVERHEAD RATE	118.48%
START DATE	3/6/2023		COMPLEXITY FACTOR	
RAISE DATE	ANNIVERSARY		% OF RAISE	2.00%

**ESCALATION PER YEAR**

**DETERMINE THE MID POINT OF THE AGREEMENT**

9

**CALCULATE THE ESCALATION FACTOR TO THE MIDPOINT OF THE CONTRACT**

1.50%

The total escalation for this project would be: 1.50%













<b>Local Public Agency</b> City of Aurora	<b>County</b> Kane	<b>Section Number</b> 23-00359-00-TL
<b>Prime Consultant (Firm) Name</b> Stanley Consultants, Inc.	<b>Prepared By</b> Ashok Guntaka	<b>Date</b> 1/25/2023
<b>Consultant / Subconsultant Name</b> INTERRA, Inc.	<b>Job Number</b> N/A	

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

**Remarks**

### PAYROLL ESCALATION TABLE

CONTRACT TERM	18	MONTHS	OVERHEAD RATE	135.09%
START DATE	3/6/2023		COMPLEXITY FACTOR	0
RAISE DATE	1/1/2024		% OF RAISE	2.00%
END DATE	9/5/2024			

### ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	3/6/2023	1/1/2024	10	55.56%
1	1/2/2024	9/1/2024	8	45.33%

---

The total escalation = 0.89%





Local Public Agency

City of Aurora

County

Kane

Section Number

23-00359-00-TL

Consultant / Subconsultant Name

INTERRA, Inc.

Job Number

N/A

DIRECT COSTS WORKSHEET

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

Table with 5 columns: ITEM, ALLOWABLE, QUANTITY, CONTRACT RATE, TOTAL. Rows include various cost items like Lodging, Air Fare, Vehicle Mileage, etc., with a total of \$415.00.



**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00359-00-TL

**Consultant / Subconsultant Name**

INTERRA, Inc.

**Job Number**

N/A

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

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Environmental Screening											
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal Engineer	78.00	4.0	10.00%	7.80	4	10.00%	7.80									
Sr. Project Manager	69.03	6.0	15.00%	10.35	6	15.00%	10.35									
Project Engineer	49.44	20.0	50.00%	24.72	20	50.00%	24.72									
Staff Engineer	38.34	8.0	20.00%	7.67	8	20.00%	7.67									
Administrative Asistant	26.25	2.0	5.00%	1.31	2	5.00%	1.31									
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<b>TOTALS</b>		40.0	100%	\$51.85	40.0	100.00%	\$51.85	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00



Exhibit E -  
IDOT Overhead Approval  
Letter / Prequalification



# Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

February 1, 2023

Subject: PRELIMINARY ENGINEERING  
Consultant Unit  
Prequalification File

George Vukelich  
STANLEY CONSULTANTS, INC.  
8501 W. Higgins Road  
Suite 730  
Chicago, IL 60631

Dear George Vukelich,

We have completed our review of your "Statement of Experience and Financial Condition" (SEFC) which you submitted for the fiscal year ending Apr 2, 2022. Your firm's total annual transportation fee capacity will be \$36,800,000.

Your firm's Combined/Corporate rate of 180.27%, Domestic Field Office rate of 147.98%, Home Office rate of 184.14% and International Field Office rate of 241.73% are approved on a provisional basis. The rate used in agreement negotiations may be verified by our Bureau of Investigations and Compliance in a pre-award audit. Pursuant to 23 CFR 172.11(d), we are providing notification that we will post your company's indirect cost rate to the Federal Highway Administration's Audit Exchange where it may be viewed by auditors from other State Highway Agencies.

Your firm is required to submit an amended SEFC through the Engineering Prequalification & Agreement System (EPAS) to this office to show any additions or deletions of your licensed professional staff or any other key personnel that would affect your firm's prequalification in a particular category. Changes must be submitted within 15 calendar days of the change and be submitted through the Engineering Prequalification and Agreement System (EPAS).

Your firm is prequalified until April 2, 2023. You will be given an additional six months from this date to submit the applicable portions of the "Statement of Experience and Financial Condition" (SEFC) to remain prequalified.

Sincerely,  
Jack Elston, P.E.  
Bureau Chief  
Bureau of Design and Environment

## SEFC PREQUALIFICATIONS FOR STANLEY CONSULTANTS, INC.

CATEGORY	STATUS
Special Studies - Traffic Studies	X
Special Plans - Traffic Signals	X
Special Services - Construction Inspection	X
Hydraulic Reports - Pump Stations	X
Hydraulic Reports - Waterways: Complex	X
Special Studies- Location Drainage	X
Hydraulic Reports - Waterways: Typical	X
Special Services - Public Involvement	X
Structures - Railroad	X
Structures - Highway: Simple	X
Structures - Highway: Complex	X
Structures - Highway: Typical	X
Structures - Highway: Advanced Typical	X
Highways - Roads and Streets	X
Highways - Freeways	X
Location Design Studies - New Construction/Major Reconstruction	X
Location Design Studies - Rehabilitation	X
Special Services - Sanitary	X
Location Design Studies - Reconstruction/Major Rehabilitation	X
Special Studies - Feasibility	X
Special Studies - Safety	X
Environmental Reports - Environmental Impact Statement	X
Environmental Reports - Environmental Assessment	X
Special Plans - Lighting: Typical	A
Special Plans - Lighting: Complex	A

X	PREQUALIFIED
A	NOT PREQUALIFIED, REVIEW THE COMMENTS UNDER CATEGORY VIEW FOR DETAILS IN EPAS.
S	PREQUALIFIED, BUT WILL NOT ACCEPT STATEMENTS OF INTEREST



# Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

February 25, 2022

Subject: PRELIMINARY ENGINEERING  
Consultant Unit  
Prequalification File

Bradley Sanderson  
ENGINEERING ENTERPRISES, INC.  
52 Wheeler Road  
Sugar Grove, IL 60554

Dear Bradley Sanderson,

We have completed our review of your "Statement of Experience and Financial Condition" (SEFC) which you submitted for the fiscal year ending Dec 31, 2020. Your firm's total annual transportation fee capacity will be \$12,800,000.

Your firm's payroll burden and fringe expense rate and general and administrative expense rate totaling 192.72% are approved on a provisional basis. The rate used in agreement negotiations may be verified by our Bureau of Investigations and Compliance in a pre-award audit. Pursuant to 23 CFR 172.11(d), we are providing notification that we will post your company's indirect cost rate to the Federal Highway Administration's Audit Exchange where it may be viewed by auditors from other State Highway Agencies.

Your firm is required to submit an amended SEFC through the Engineering Prequalification & Agreement System (EPAS) to this office to show any additions or deletions of your licensed professional staff or any other key personnel that would affect your firm's prequalification in a particular category. Changes must be submitted within 15 calendar days of the change and be submitted through the Engineering Prequalification and Agreement System (EPAS).

Your firm is prequalified until December 31, 2021. You will be given an additional six months from this date to submit the applicable portions of the "Statement of Experience and Financial Condition" (SEFC) to remain prequalified.

Sincerely,  
Jack Elston, P.E.  
Bureau Chief  
Bureau of Design and Environment

**SEFC PREQUALIFICATIONS FOR ENGINEERING ENTERPRISES, INC.**

<b>CATEGORY</b>	<b>STATUS</b>
Special Studies - Feasibility	X
Special Services - Surveying	X
Special Studies - Safety	X
Special Plans - Traffic Signals	X
Special Studies - Traffic Studies	X
Location Design Studies - Rehabilitation	X
Special Services - Construction Inspection	X
Special Services - Sanitary	X
Hydraulic Reports - Waterways: Typical	X
Location Design Studies - Reconstruction/Major Rehabilitation	X
Highways - Roads and Streets	X
Special Studies- Location Drainage	X
Hydraulic Reports - Waterways: Complex	X

X	PREQUALIFIED
A	NOT PREQUALIFIED, REVIEW THE COMMENTS UNDER CATEGORY VIEW FOR DETAILS IN EPAS.
S	PREQUALIFIED, BUT WILL NOT ACCEPT STATEMENTS OF INTEREST





# Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

October 12, 2022

Subject: PRELIMINARY ENGINEERING  
Consultant Unit  
Prequalification File

Ronald Kaminski  
HBK ENGINEERING, LLC.  
921 W. Van Buren Street  
100  
Chicago, IL 60607

Dear Ronald Kaminski,

We have completed our review of your "Statement of Experience and Financial Condition" (SEFC) which you submitted for the fiscal year ending Dec 31, 2020. Your firm's total annual transportation fee capacity will be \$16,800,000.

Your firm's payroll burden and fringe expense rate and general and administrative expense rate totaling 118.48% are approved on a provisional basis. The rate used in agreement negotiations may be verified by our Bureau of Investigations and Compliance in a pre-award audit. Pursuant to 23 CFR 172.11(d), we are providing notification that we will post your company's indirect cost rate to the Federal Highway Administration's Audit Exchange where it may be viewed by auditors from other State Highway Agencies.

Your firm is required to submit an amended SEFC through the Engineering Prequalification & Agreement System (EPAS) to this office to show any additions or deletions of your licensed professional staff or any other key personnel that would affect your firm's prequalification in a particular category. Changes must be submitted within 15 calendar days of the change and be submitted through the Engineering Prequalification and Agreement System (EPAS).

Your firm is prequalified until December 31, 2021. You will be given an additional six months from this date to submit the applicable portions of the "Statement of Experience and Financial Condition" (SEFC) to remain prequalified.

Sincerely,  
Jack Elston, P.E.  
Bureau Chief  
Bureau of Design and Environment

## SEFC PREQUALIFICATIONS FOR HBK ENGINEERING, LLC.

CATEGORY	STATUS
Environmental Reports - Environmental Impact Statement	A
Highways - Roads and Streets	X
Special Services - Construction Inspection	A
Special Services - Subsurface Utility Engineering	X
Special Services - Surveying	X
Structures - Highway: Simple	X
Airports - Design	X
Special Studies - Feasibility	A
Environmental Reports - Environmental Assessment	A

X	PREQUALIFIED
A	NOT PREQUALIFIED, REVIEW THE COMMENTS UNDER CATEGORY VIEW FOR DETAILS IN EPAS.
S	PREQUALIFIED, BUT WILL NOT ACCEPT STATEMENTS OF INTEREST



# Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

December 2, 2022

Subject: PRELIMINARY ENGINEERING  
Consultant Unit  
Prequalification File

Sudhakar Rao Doppalapudi  
INTERRA, Inc.  
600 Territorial Drive  
Suite G  
Bolingbrook, IL 60440

Dear Sudhakar Rao Doppalapudi,

We have completed our review of your "Statement of Experience and Financial Condition" (SEFC) which you submitted for the fiscal year ending Jun 30, 2021. Your firm's total annual transportation fee capacity will be \$12,600,000.

Your firm's payroll burden and fringe expense rate and general and administrative expense rate totaling 135.09% are approved on a provisional basis. The rate used in agreement negotiations may be verified by our Bureau of Investigations and Compliance in a pre-award audit. Pursuant to 23 CFR 172.11(d), we are providing notification that we will post your company's indirect cost rate to the Federal Highway Administration's Audit Exchange where it may be viewed by auditors from other State Highway Agencies.

Your firm is required to submit an amended SEFC through the Engineering Prequalification & Agreement System (EPAS) to this office to show any additions or deletions of your licensed professional staff or any other key personnel that would affect your firm's prequalification in a particular category. Changes must be submitted within 15 calendar days of the change and be submitted through the Engineering Prequalification and Agreement System (EPAS).

Your firm is prequalified until June 30, 2022. You will be given an additional six months from this date to submit the applicable portions of the "Statement of Experience and Financial Condition" (SEFC) to remain prequalified.

Sincerely,  
Jack Elston, P.E.  
Bureau Chief  
Bureau of Design and Environment

**SEFC PREQUALIFICATIONS FOR INTERRA, Inc.**

<b>CATEGORY</b>	<b>STATUS</b>
Special Services - Construction Inspection	X
Geotechnical Services - General Geotechnical Services	X
Geotechnical Services - Structure Geotechnical Reports (SGR)	X
Geotechnical Services - Subsurface Explorations	X
Special Services - Quality Assurance PCC & Aggregate	X
Special Services - Quality Assurance HMA & Aggregate	X
Airports - Construction Inspection	A

X	PREQUALIFIED
A	NOT PREQUALIFIED, REVIEW THE COMMENTS UNDER CATEGORY VIEW FOR DETAILS IN EPAS.
S	PREQUALIFIED, BUT WILL NOT ACCEPT STATEMENTS OF INTEREST