



Local Public Agency Engineering Services Agreement

Using Federal Funds? [ ] Yes [x] No Agreement For: MFT PE Agreement Type: Original

LOCAL PUBLIC AGENCY

Local Public Agency: Aurora County: Kane Section Number: 23-00365-00-SP Job Number: Project Number: Contact Name: Roopa Anjanappa Phone Number: Email: AnjanappaR@aurora.il.us

SECTION PROVISIONS

Local Street/Road Name: E New York Street Key Route: 1522 Length: 0.1 miles Structure Number: N/A Location Termini: Farnsworth Avenue Add Location Remove Location

Project Description: This project will include traffic signal modernization, sidewalk, ADA, street lighting, resurfacing, and safety improvements for the intersection of New York Street at Farnsworth Avenue.

Engineering Funding: [x] MFT/TBP [ ] State [x] Other HSIP Anticipated Construction Funding: [x] Federal [x] MFT/TBP [ ] State [x] Other HSIP

AGREEMENT FOR

[x] Phase I - Preliminary Engineering [ ] Phase II - Design Engineering

CONSULTANT

Prime Consultant (Firm) Name: Stanley Consultants, Inc. Contact Name: Curt Grass Phone Number: (773) 714-2009 Email: grasscurt@stanleygroup.com Address: 8501 W Higgins Road, 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 (CESCS) Worksheet (BLR 05513 or BLR 05514 )
- Exhibit E: Direct Costs Supporting Documentation
- Exhibit F: Subconsultant Scope of Services and Fees
- \_\_\_\_\_

### 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 for Preliminary and/or Design Engineering: The ENGINEER shall submit all invoices to the LPA within three months of the completion of the work called for in the AGREEMENT or any subsequent Amendment or Supplement.
7. To submit a completed BLR 05613, Engineering Payment Report, to the DEPARTMENT within three months of the completion of the work called for in this AGREEMENT or any subsequent Amendment or Supplement. The form shall be submitted with the final invoice.
8. 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 United States 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.
9. 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.
10. 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 affix 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).
11. That the engineering services shall include all equipment, instruments, supplies, transportation and personnel required to perform the duties of the ENGINEER in connection with this AGREEMENT (See DIRECT 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 following:
  - (a) Professional Services Selection Act (50 ILCS 510), The Brooks Act (40 USC 11), and the Procurement, Management, and Administration of Engineering, and Design Related Services (23 CFR part 172). Exhibit C is required to be completed with this AGREEMENT.
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.
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:

- Lump Sum  
 Specific Rate  
 Cost plus Fixed Fee:

Fixed

$$\text{Total Compensation} = \text{DL} + \text{DC} + \text{OH} + \text{FF}$$

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  $\text{FF} = (0.33 + R) \text{DL} + \% \text{SubDL}$ , 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. No work shall be commenced by the ENGINEER prior to issuance by the IDOT of a written Notice to Proceed.
2. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amount, recipients and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records and supporting documents related to the contract shall be available for review and audit by the 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 purport disbursement.
3. That the ENGINEER shall be responsible for any and all damages to property or persons arising out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and save harmless the LPA, the DEPARTMENT, and their officers, agents, and employees from all suits, claims, actions or damage liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.  
 The LPA will notify the ENGINEER of any error or omission believed by the LPA to be caused by the negligence of the ENGINEER as soon as practicable after the discovery. The LPA reserves the right to take immediate action to remedy any error or omission if notification is not successful; if the ENGINEER fails to reply to a notification; or if the conditions created by the error or omission are in need of urgent correction to avoid accumulation of additional construction costs or damages to property and reasonable notice is not practicable.
4. This AGREEMENT may be terminated by the LPA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LPA all drawings, plats, surveys, reports, permits, agreements, soils and foundation analysis, provisions, specifications, partial and completed estimates and data, if any from soil survey and subsurface investigation with the understanding that all such material 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.
5. 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 as a result

of the suspension and resumption of its services, and the ENGINEER's schedule and fees for the remainder of the project shall be equitably adjusted.

6. This AGREEMENT shall continue as an open contract and the obligations created herein shall remain in full force and effect until the completion of construction of any phase of professional services performed by others based upon the service provided herein. All obligations of the ENGINEER accepted under this AGREEMENT shall cease if construction or subsequent professional services are not commenced within 5 years after final payment by the LPA.
7. 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.
8. 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 e and
  - (g) has not within a three-year period preceding this AGREEMENT had one or more public transaction (Federal, State or local) terminated for cause or default.

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

9. In the event of delays due to unforeseeable causes beyond the control of and without fault or negligence of the ENGINEER no claim for damages shall be made by either party. Termination of 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 include but are not limited to: acts of God or a public enemy; act 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.

10. 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 of 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 project. The ENGINEER will submit progress reports with each invoice showing work that was completed during the last reporting period and work they expect to accomplish during the following period.

- 11. Due to the physical location of the project, certain work classifications may be subject to the Prevailing Wage Act (820 ILCS 130/0.01 et seq.).
- 12. For Preliminary Engineering Contracts:
  - (a) That tracing, plans, specifications, estimates, maps and other documents prepared by the ENGINEER in accordance with this AGREEMENT shall be delivered to and become the property of the LPA and that basic survey notes, sketches, charts, CADD files, related electronic files, and other data prepared or obtained in accordance with this AGREEMENT shall be made available, upon request to the LPA 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	\$146,183.00

Subconsultants	TIN/FEIN/SS Number	Agreement Amount
Engineering Enterprises, Inc.		\$20,747.00
HBK Engineering		\$16,709.00
Interra, Inc.		\$5,916.00
Subconsultant Total		\$43,372.00
Prime Consultant Total		\$146,183.00
Total for all work		\$189,555.00

**AGREEMENT SIGNATURES**

Executed by the LPA:

The  Local Public Agency Type of  Local Public Agency

Attest:

By (Signature & Date)

By (Signature & Date)

Name of Local Public Agency  Local Public Agency Type  Clerk

Title

(SEAL)

Executed by the ENGINEER:

Prime Consultant (Firm) Name

Attest:

By (Signature & Date)

By (Signature & Date)

Title

Title

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Aurora	Stanley Consultants, Inc.	Kane	23-00365-00-SP

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

**EXHIBIT A  
SCOPE OF SERVICES**

**FOR FEDERAL PARTICIPATION PROJECTS**

See Attached Scope

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Aurora	Stanley Consultants, Inc.	Kane	23-00365-00-SP

**EXHIBIT B  
PROJECT SCHEDULE**

See attached schedule.



Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Aurora	Stanley Consultants, Inc.	Kane	23-00365-00-SP

**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
2	Christopher B. Burke Engineering
3	WBK Engineering

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"/>

### Introduction

The Phase I Study involves improvements for the intersection of New York St and Farnsworth Ave. These improvements include traffic signal modernization, ADA ramp replacement, intersection radii improvements, resurfacing, lighting, roadway signs, and pavement marking updates. 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 Phase II and Construction and will be processed through IDOT Bureau of Local Roads & Streets (BLR&S). Preliminary and potentially 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
- Capacity Analysis
- Geometric Studies
- Intersection Design Study
- Right-of-Way Analysis
- Lighting Assessment
- ~~Public Involvement~~
- Project Development Report
- Meetings and Coordination
- Administration and Management
- QA / QC

The approximate project study limits will be 600' North, 500' East, 500' South and 500' West of the intersection. The project will be designed using the latest version of Bentley OpenRoads Designer software, Update 12, and IDOT workspace, 10.10.02. 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 crash data, GIS files, existing traffic signal plans, land use maps, zoning maps, soils and geological information, record plans for roadway, lighting, and traffic signals, existing right-of-way, and utility plans.
- The CONSULTANT will obtain Property Identification Numbers and utilize the Kane County website to identify the owners of the adjacent properties in this task.
- The CONSULTANT will review the HSIP application and verify B/C ratios during the development of the project and preferred alternative.
- The CONSULTANT will collect and process the GIS Crash Data from the IDOT Safety portal for use during the Crash Analysis tasks.

City of Aurora  
Section # 23-00365-00-SP  
New York St & Farnsworth Ave Intersection Improvements  
Phase I Study  
March 28, 2024

### **Scope of Services**

- The CONSULTANT will schedule and coordinate with Miovision and the City on when traffic count data will be collected. Traffic data will be collected for a full 24-hour period during a week day Tuesday - Thursday, the exact day will be determined by the CONSULTANT after the field visit.
- Two field trips of the project area will be conducted by the CONSULTANT.
  - One trip will be conducted for scoping purposes.
  - One trip includes photo inventory, ADA ramp compliance inspection, curb / pavement conditions, inventory existing traffic signal equipment, observe traffic operations, and field check the topographic survey.

### Utility and Permit Coordination

The CONSULTANT will coordinate with the utility subconsultant for contacting JULIE to obtain utility atlases for the project area and utility marking. See attached scope by HBK Engineering, LLC.

### 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 project 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.

HBK Engineering, Ltd. will field locate underground utilities 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) may be necessary if the project requires temporary or permanent easements or right-of-way. The CONSULTANT will prepare and submit the documents required to IDOTs D1 BLRS which will follow the streamlined environmental survey screening process as noted in the March 7, 2023 circular letter 2023-08. 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

### **Scope of Services**

Based on a preliminary environmental screening, the environmental resources associated with the project may involve special waste. The CONSULTANT will not include any special environmental surveys for threatened and endangered species, wetlands, 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:

#### **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. See detailed scope from Interra, Inc.

#### Crash and Safety Analysis

The CONSULTANT will obtain crash data from the CITY and IDOT Crash Safety Portal for the previous five years for the project area.

The CONSULTANT will review the crash data and summarize crashes by year and major type to define trends and roadway and intersection deficiencies. 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 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. The crash analysis will be prepared in accordance with current FHWA Highway Safety Improvement Program guidance.

#### 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 (3) signal operation alternatives. The CONSULTANT will create an existing model of the corridor for use as the baseline condition. The alternative signal operations may 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 intersection:

- New York St at Farnsworth Ave

The CONSULTANT will perform analyses for the following periods, No weekend analysis is included in the scope:

- Weekday AM Peak Hour
- Weekday PM Peak Hour

## **Scope of Services**

### Geometric Studies

The CONSULTANT will depict the project limits on 1"=20' scale plan sheets, with proposed geometrics and right-of-way lines. It is anticipated that four (4) plan sheets at 1"=20' scale will be required for the preferred improvement. The west paving limit will match the most recent resurfacing joint 250' west of the intersection. The north resurfacing limit will terminate just north of Fenton St. The East limit will be determined based on the limits of any radii or pedestrian island improvements and the south limit will end just south of Grandview Dr.

The CONSULTANT will analyze up to three different intersection geometric alternatives. Alternatives may include pedestrian island relocation, lane configuration modifications or lane widening on the south leg of the intersection. 1"=20' plan sheets of the alternatives will be provided for consideration.

Traffic signals will be designed to avoid existing utilities and temporary signals are anticipated to be needed during construction. The following exhibits will be prepared to detail the traffic signals:

- Traffic Signal Replacement
  - New York St at Farnsworth Ave

A typical section will be developed for each leg of the intersection resulting in four existing and four proposed typical sections to be developed that show the milling and resurfacing with existing pavement structure and typical sidewalk.

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:

- New York St at Farnsworth Ave (4 corners + 2 islands)

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 intersection. 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 will be shown on 1"=5' scale plan sheets. Bus shelters will not be included in the scope of work.

### Intersection Design Studies

The CONSULTANT will use Synchro for preparing the IDS 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.

The CONSULTANT will prepare an IDS for the following intersections:

- New York Street at Farnsworth Avenue

City of Aurora  
Section # 23-00365-00-SP  
New York St & Farnsworth Ave Intersection Improvements  
Phase I Study  
March 28, 2024

### **Scope of Services**

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.

### Right of Way Analysis

The CONSULTANT will determine right-of-way impacts in this task. The CONSULTANT will draft and coordinate the ROW requirements with the City and will send the property owner exhibits and letters via certified mail for up to 6 parcels.

### Lighting Assessment

The CONSULTANT will complete a lighting assessment of the street lighting within the limits of the intersection. The lighting assessment will include a review of existing lighting equipment and its condition and recommendation for proposed lighting after the project is constructed. The guidelines to be used for this evaluation include IES RP-8-00, AASHTO and IDOT District 1. It is anticipated that temporary lighting will not be required during construction.

The following is a description of the tasks to complete the lighting assessment:

1. *Data Collection* - This task will include obtaining necessary data and plans for the existing lighting. A field visit is included in this task. The field visit will be conducted by a design engineer and an electrical engineer to inventory existing lighting, evaluate conditions, and conduct a visual review of lighting levels.
2. *Evaluation of Existing Conditions* – An evaluation of the existing lighting will be done in order to document the following:
  - IES roadway classification
  - Ownership and maintenance
  - Existing lighting layout
  - Lighting type and equipment details
  - Existing equipment condition
  - Controller location and type
  - Compliance with IDOT District 1 Lighting Guidelines

The CONSULTANT will complete a warrant analysis to determine the need for lighting using AASHTO and IDOT criteria. A photo log will be prepared to document the existing lighting.

3. *Proposed Lighting Requirements* - The purpose of this task is to develop conceptual lighting requirements for the proposed lighting. The possibility of using existing lighting for proposed condition will be conducted under this task. A preliminary layout for the segments and the two intersections will be developed by conducting a brief lighting analysis to ensure that the required lighting levels can be met with at least one standard luminaire type. The IES-RP-8 and IDOT D1 guidelines will be used for this evaluation.

**Scope of Services**

4. *Cost Estimates* - Cost estimates will be prepared based on the preliminary evaluation conducted in the previous tasks for the following:
  - Proposed Lighting
  - Existing lighting removal
  
5. *Lighting Assessment Memorandum* - The lighting assessment memorandum will summarize the findings, conclusions and recommendations. A draft and final submittal of the memorandum is anticipated.

Public Involvement

The public involvement scope of work includes the following:

- ~~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.~~

Project Development Report

The CONSULTANT will compile exhibits, maps, tables, supplemental documents, and appendices. The CONSULTANT will prepare the Draft Project Development Report (PDR) using 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.

City of Aurora  
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New York St & Farnsworth Ave Intersection Improvements  
Phase I Study  
March 28, 2024

## **Scope of Services**

### 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.
- Three internal coordination meetings
  - Internal coordination meetings will be conducted via Microsoft Teams

The CONSULTANT will attend all 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. 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.

### Cost Estimates

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



City of Aurora  
Section # 23-00365-00-SP  
New York St & Farnsworth Ave Intersection Improvements  
Phase I Study  
March 28, 2024

**Scope of Services**

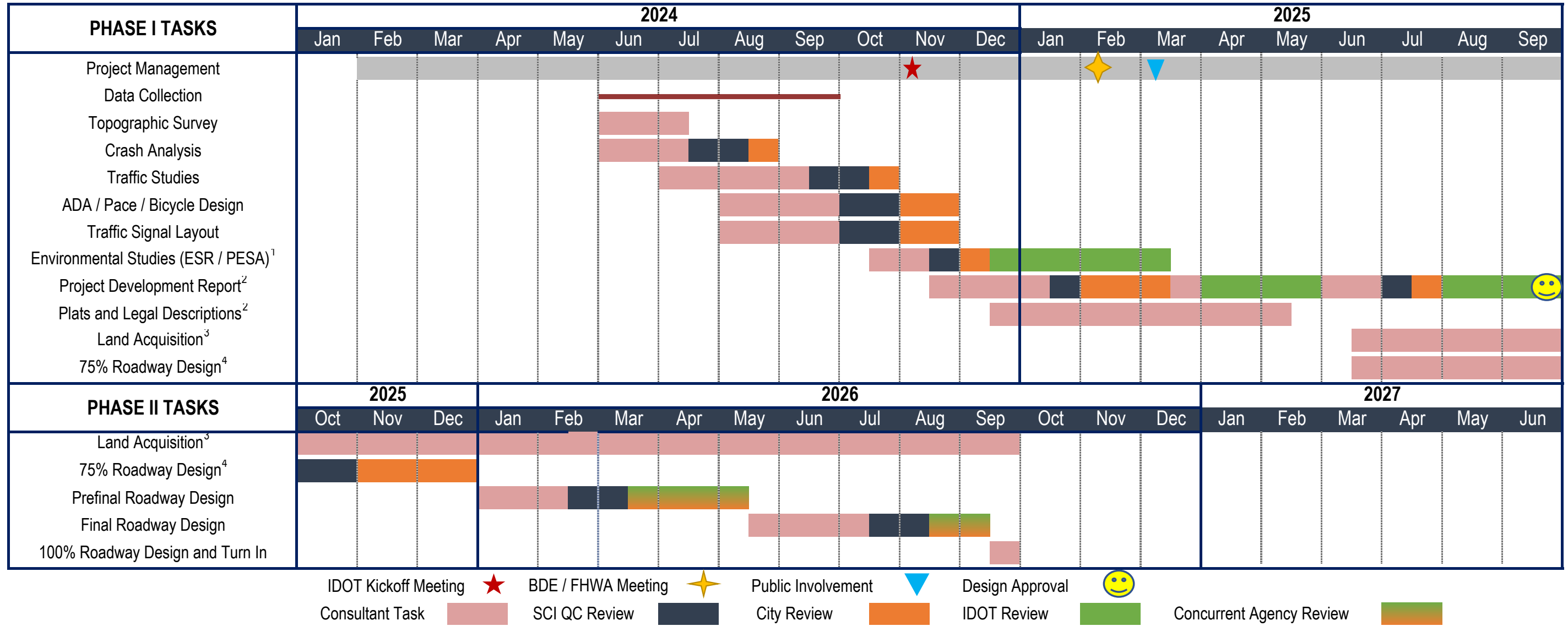
QA/QC

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
- 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)
- Bat Assessment, No tree removal
- Wetland Delineation and Reporting
- Public Involvement Meetings

# Exhibit B



**Phase I - 17 Month Schedule**

Phase I Agreement Approval	June 2024
Preliminary Design	November 2024
IDOT Kickoff Meeting	November 2024
FHWA / BDE Meeting	February 2025
Public Information Meeting	March 2025
Draft Project Development Report	May 2025
Design Approval	October 2025

**Phase II - 12 Month Schedule**

Phase II Agreement Approval	January 2026
Preliminary 75% PS&E	June 2026
Prefinal PS&E	July 2026
Final PS&E	September 2026
Land Acquisition Complete	November 2026
100% Turn In PS&E	October 2026
Construction Letting**	December 2026**

\*\*Phase I includes 17 month duration. Phase II should be able to be reduced to 12 months to hit the target letting in December 2026.

<sup>1</sup> If needed, new screening process is utilized for this schedule

<sup>2</sup> Not required if land acquisition can be avoided for this project. BLR 19100 form will compress environmental processing and schedule with DA September 2025

<sup>3</sup> If needed

<sup>4</sup> Contract plans could be developed while design approval is pending if Phase II is awarded to the Consultant



<b>Local Public Agency</b> City of Aurora	<b>County</b> Kane	<b>Section Number</b> 23-00365-00-SP
<b>Prime Consultant (Firm) Name</b> Stanley Consultants	<b>Prepared By</b> Curt Grass	<b>Date</b> 3/28/2024
<b>Consultant / Subconsultant Name</b> 	<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**

New York St & Farnsworth Ave Intersection HSIP Improvements Phase I Study

### PAYROLL ESCALATION TABLE

<b>CONTRACT TERM</b>	12	MONTHS	<b>OVERHEAD RATE</b>	171.17%
<b>START DATE</b>	3/1/2024		<b>COMPLEXITY FACTOR</b>	0
<b>RAISE DATE</b>	4/1/2024		<b>% OF RAISE</b>	2.00%
<b>END DATE</b>	2/28/2025			

### ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	3/1/2024	4/1/2024	1	8.33%
1	4/2/2024	3/1/2025	11	93.50%

The total escalation = 1.83%

<b>Local Public Agency</b>	<b>County</b>	<b>Section Number</b>
City of Aurora	Kane	23-00365-00-SP

<b>Consultant / Subconsultant Name</b>	<b>Job Number</b>

**PAYROLL RATES**

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

<b>MAXIMUM PAYROLL RATE</b>	<b>86.00</b>
<b>ESCALATION FACTOR</b>	<b>1.83%</b>

<b>CLASSIFICATION</b>	<b>IDOT PAYROLL RATES ON FILE</b>	<b>CALCULATED RATE</b>
Regional Manager	\$86.00	\$86.00
Client Services Manager	\$86.00	\$86.00
Department Manager	\$86.00	\$86.00
Principal Engineer	\$80.35	\$81.82
Senior Engineer	\$64.52	\$65.70
Senior Environmental Planner	\$59.62	\$60.71
Senior Environmental Scientist	\$58.00	\$59.06
Senior Transportation Planner	\$55.29	\$56.30
Engineer	\$48.80	\$49.69
Engineer in Training II	\$41.49	\$42.25
Engineer in Training I	\$31.49	\$32.07
Senior Resident Project Representative	\$73.82	\$75.17
Resident Project Representative	\$53.46	\$54.44
ECM Consultant	\$64.38	\$65.56
Specialist	\$32.21	\$32.80
Designer	\$52.96	\$53.93
GIS Coordinator	\$50.19	\$51.11
Senior Technician	\$42.14	\$42.91
Senior Administrative Assistant	\$31.97	\$32.56
Administrative Assistant	\$29.86	\$30.41
Engineering Student Intern	\$25.00	\$25.46



## Local Public Agency

City of Aurora

## County

Kane

## Section Number

23-00365-00-SP

## Consultant / Subconsultant Name

## 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	\$213.00	\$426.00
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	780	\$0.67	\$522.60
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	5	\$8.20	\$41.00
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	\$100.00	\$100.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)	1	\$200.00	\$200.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost			\$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Travel Per Diem	Actual Cost	2	\$75.00	\$150.00
Traffic Counts	Actual Cost (per hour)	24	\$90.00	\$2,160.00
				\$0.00
				\$0.00
<b>TOTAL DIRECT COSTS:</b>				<b>\$3,599.60</b>

**Local Public Agency**

City of Aurora

**County**

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**Section Number**

23-00365-00-SP

**Consultant / Subconsultant Name****Job Number****COST ESTIMATE WORKSHEET**

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

OVERHEAD RATE **171.17%**COMPLEXITY FACTOR **0**

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Data Collection and Evaluation	2,386	88	4,004	6,853	1,321		12,178	6.42%
Utility and Permit Coordination		6	346	593	114	16,709	17,762	9.37%
Topographic Survey and Aerial Imagery		6	346	593	114	20,747	21,800	11.50%
Environmental Studies		40	1,791	3,066	591	5,916	11,364	6.00%
Crash and Safety Analysis		60	2,833	4,849	935		8,617	4.55%
Capacity Analysis		108	5,017	8,587	1,656		15,260	8.05%
Geometric Studies		228	10,469	17,921	3,455		31,845	16.80%
Intersection Design Studies		72	3,466	5,932	1,144		10,542	5.56%
Right of Way Analysis		24	1,077	1,844	355		3,276	1.73%
Lighting Assessment	914	68	2,430	4,159	802		7,391	3.90%
Public Involvement			-	-	-		-	0.00%
Project Development Report	300	88	4,134	7,076	1,364		12,574	6.63%
Meetings and Coordination		48	2,391	4,092	789		7,272	3.84%
Administration and Management		56	3,141	5,376	1,036		9,553	5.04%
Cost Estimates		36	1,646	2,817	543		5,006	2.64%
QA/QC		40	3,340	5,717	1,102		10,159	5.36%
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<b>Subconsultant DL</b>							\$1,356.00	0.72%
<b>Direct Costs Total ==&gt;</b>	<b>\$3,599.60</b>						<b>\$3,599.60</b>	<b>1.90%</b>
<b>TOTALS</b>		<b>968</b>	<b>46,431</b>	<b>79,475</b>	<b>15,321</b>	<b>43,372</b>	<b>189,555</b>	<b>100.00%</b>

125,906

**Local Public Agency**

City of Aurora

**County**

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**Section Number**

23-00365-00-SP

**Consultant / Subconsultant Name**

**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			Utility and Permit Coordination			Topographic Survey and Aerial Imagery			Environmental Studies			Crash and Safety Analysis		
		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	86.00	0.0																	
Client Services Manager	86.00	0.0																	
Department Manager	86.00	38.0	3.93%	3.38													6	10.00%	8.60
Principal Engineer	81.82	54.0	5.58%	4.56													6	10.00%	8.18
Senior Engineer	65.70	196.0	20.25%	13.30	24	27.27%	17.92	3	50.00%	32.85	3	50.00%	32.85	10	25.00%	16.43	4	6.67%	4.38
Senior Environmental Plann	60.71	0.0																	
Senior Environmental Scien	59.06	0.0																	
Senoir Transportation Plann	56.30	0.0																	
Engineer	49.69	150.0	15.50%	7.70	12	13.64%	6.78	3	50.00%	24.85	3	50.00%	24.85	4	10.00%	4.97	4	6.67%	3.31
Engineer in Training II	42.25	136.0	14.05%	5.94	16	18.18%	7.68							10	25.00%	10.56	8	13.33%	5.63
Engineer in Training I	32.07	326.0	33.68%	10.80	36	40.91%	13.12							16	40.00%	12.83	32	53.33%	17.10
Senior Resident Project Rep	75.17	0.0																	
Resident Project Represent	54.44	0.0																	
ECM Consultant	65.56	0.0																	
Specialist	32.80	60.0	6.20%	2.03															
Designer	53.93	0.0																	
GIS Coordinator	51.11	0.0																	
Senior Technician	42.91	0.0																	
Senior Administrartive Assis	32.56	0.0																	
Administrative Assistant	30.41	8.0	0.83%	0.25															
Engineering Student Intern	25.46	0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
<b>TOTALS</b>		968.0	100%	\$47.96	88.0	100.00%	\$45.50	6.0	100%	\$57.70	6.0	100%	\$57.70	40.0	100%	\$44.78	60.0	100%	\$47.21



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**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			Intersection Design Studies			Right of Way Analysis			Lighting Assessment			Public Involvement		
			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	86.00	0.00																		
Client Services Manager	86.00	0.00																		
Department Manager	86.00	16.00	8	7.41%	6.37				8	11.11%	9.56									
Principal Engineer	81.82	24.00	16	14.81%	12.12				8	11.11%	9.09									
Senior Engineer	65.70	72.00				58	25.44%	16.71	4	5.56%	3.65	6	25.00%	16.43	4	5.88%	3.86			
Senior Environmental Plann	60.71	0.00																		
Senior Environmental Scien	59.06	0.00																		
Senoir Transportation Plann	56.30	0.00																		
Engineer	49.69	64.00				50	21.93%	10.90	4	5.56%	2.76	6	25.00%	12.42	4	5.88%	2.92			
Engineer in Training II	42.25	76.00	32	29.63%	12.52	32	14.04%	5.93	12	16.67%	7.04									
Engineer in Training I	32.07	188.00	52	48.15%	15.44	88	38.60%	12.38	36	50.00%	16.03	12	50.00%	16.03						
Senior Resident Project Rep	75.17	0.00																		
Resident Project Represent	54.44	0.00																		
ECM Consultant	65.56	0.00																		
Specialist	32.80	60.00													60	88.24%	28.94			
Designer	53.93	0.00																		
GIS Coordinator	51.11	0.00																		
Senior Technician	42.91	0.00																		
Senior Administrartrive Assis	32.56	0.00																		
Administrative Assistant	30.41	0.00																		
Engineering Student Intern	25.46	0.00																		
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		0.00																		
<b>TOTALS</b>			108.0	100%	\$46.45	228.0	100%	\$45.92	72.0	100%	\$48.13	24.0	100%	\$44.88	68.0	100%	\$35.73	0.0	0%	\$0.00

**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00365-00-SP

**Consultant / Subconsultant Name**

**Job Number**

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

SHEET 3 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES		Project Development Report			Meetings and Coordination			Administration and Management			Cost Estimates			QA/QC						
			Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	
Regional Manager	86.00	0.00																			
Client Services Manager	86.00	0.00																			
Department Manager	86.00	16.00												16	40.00%	34.40					
Principal Engineer	81.82	24.00												24	60.00%	49.09					
Senior Engineer	65.70	80.00	24	27.27%	17.92	16	33.33%	21.90	32	57.14%	37.54	8	22.22%	14.60							
Senior Environmental Planner	60.71	0.00																			
Senior Environmental Scientist	59.06	0.00																			
Senior Transportation Planner	56.30	0.00																			
Engineer	49.69	60.00	24	27.27%	13.55	12	25.00%	12.42	16	28.57%	14.20	8	22.22%	11.04							
Engineer in Training II	42.25	26.00	8	9.09%	3.84	10	20.83%	8.80				8	22.22%	9.39							
Engineer in Training I	32.07	54.00	32	36.36%	11.66	10	20.83%	6.68				12	33.33%	10.69							
Senior Resident Project Representative	75.17	0.00																			
Resident Project Representative	54.44	0.00																			
ECM Consultant	65.56	0.00																			
Specialist	32.80	0.00																			
Designer	53.93	0.00																			
GIS Coordinator	51.11	0.00																			
Senior Technician	42.91	0.00																			
Senior Administrative Assistant	32.56	0.00																			
Administrative Assistant	30.41	8.00							8	14.29%	4.34										
Engineering Student Intern	25.46	0.00																			
		0.00																			
		0.00																			
		0.00																			
		0.00																			
		0.00																			
		0.00																			
<b>TOTALS</b>			88.0	100%	\$46.97	48.0	100%	\$49.81	56.0	100%	\$56.09	36.0	100%	\$45.72	40.0	100%	\$83.49	0.0	0%	\$0.00	

**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00365-00-SP

**Consultant / Subconsultant Name**

**Job Number**

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

SHEET 4 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES																			
			Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
Regional Manager	86.00	0.00																		
Client Services Manager	86.00	0.00																		
Department Manager	86.00	0.00																		
Principal Engineer	81.82	0.00																		
Senior Engineer	65.70	0.00																		
Senior Environmental Plann	60.71	0.00																		
Senior Environmental Scien	59.06	0.00																		
Senoir Transportation Plann	56.30	0.00																		
Engineer	49.69	0.00																		
Engineer in Training II	42.25	0.00																		
Engineer in Training I	32.07	0.00																		
Senior Resident Project Rep	75.17	0.00																		
Resident Project Represent	54.44	0.00																		
ECM Consultant	65.56	0.00																		
Specialist	32.80	0.00																		
Designer	53.93	0.00																		
GIS Coordinator	51.11	0.00																		
Senior Technician	42.91	0.00																		
Senior Administrarive Assis	32.56	0.00																		
Administrative Assistant	30.41	0.00																		
Engineering Student Intern	25.46	0.00																		
	0.00																			
	0.00																			
	0.00																			
	0.00																			
	0.00																			
	0.00																			
<b>TOTALS</b>			0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00365-00-SP

**Consultant / Subconsultant Name**

**Job Number**

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

SHEET 5 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES																			
			Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
Regional Manager	86.00	0.00																		
Client Services Manager	86.00	0.00																		
Department Manager	86.00	0.00																		
Principal Engineer	81.82	0.00																		
Senior Engineer	65.70	0.00																		
Senior Environmental Plann	60.71	0.00																		
Senior Environmental Scien	59.06	0.00																		
Senoir Transportation Plann	56.30	0.00																		
Engineer	49.69	0.00																		
Engineer in Training II	42.25	0.00																		
Engineer in Training I	32.07	0.00																		
Senior Resident Project Rep	75.17	0.00																		
Resident Project Represent	54.44	0.00																		
ECM Consultant	65.56	0.00																		
Specialist	32.80	0.00																		
Designer	53.93	0.00																		
GIS Coordinator	51.11	0.00																		
Senior Technician	42.91	0.00																		
Senior Administrarive Assis	32.56	0.00																		
Administrative Assistant	30.41	0.00																		
Engineering Student Intern	25.46	0.00																		
	0.00																			
	0.00																			
	0.00																			
	0.00																			
	0.00																			
	0.00																			
<b>TOTALS</b>			0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

<b>TASK &amp; DESCRIPTION</b>	<b>Direct Cost</b>	<b>Comments</b>
<b>1 Data Collection and Evaluation</b>		
Data Collection GIS, Land Use, Zoning, School, Park, Fire and Sanitary Districts, etc.	-	
Review and Analyze Data from the City Microfilm, Traffic Counts, Existing R.O.W., Utility Plans, and Other	-	
HSIP B/C Ratio Monitoring and Updates	-	
Collect and Process GIS Crash Data	-	
Traffic Volume Data Collection - Coordination with Miovision for traffic counts	\$ 2,160.00	\$90/hr processing x 24 Hours
Develop GIS Collector data / maps for use in data collection	-	
GIS Processing and Evaluation, incorporate field data into CADD	-	
Field trips to area (includes taking photos, site topo check, intersection 1 Scope Trip x 4 hours/trip x 2 persons 1 Observation Trip x 8 hours/trip x 2 persons	\$ 225.76	Mileage / Tolls
<b>SUBTOTALS =</b>	<b>\$ 2,385.76</b>	
<b>2 Utility and Permit Coordination</b>		
Provided by HBK (See Attached CECS)	-	
Subconsultant Coordination and Utility Review	-	
<b>SUBTOTALS =</b>	<b>\$ -</b>	
<b>3 Topographic Survey and Aerial Imagery</b>		
Provided by EEI (See Attached CECS)	-	
Topographic Survey CAD Review and Subconsultant Coordination	-	
<b>SUBTOTALS =</b>	<b>\$ -</b>	
<b>4 Environmental Studies</b>		
ESR CL-2023-08, Environmental Survey Request Form and Supporting	-	
<b>SUBTOTALS =</b>	<b>\$ -</b>	
<b>5 Crash and Safety Analysis</b>		
Conduct Crash and Safety Analysis 5 - years	-	
Prepare Crash Report - includes counter measures and expected reduction per HSM	-	
Prepare Crash Exhibits (Intersection Diagram) 1 Diagram / Year x 4 hrs / year	-	
<b>SUBTOTALS =</b>	<b>\$ -</b>	
<b>6 Capacity Analysis</b>		
Synchro Analysis 16 hours / model x 3 peak periods x 3 alternatives (existing-optimized) Weekday AM / Noon / PM	-	
<b>SUBTOTALS =</b>	<b>\$ -</b>	
<b>7 Geometric Studies</b>		
ADA Ramp Design, 6 Ramps x 4 Hours / Corner & Island Ramp	-	
Bus Stop Design, 2 Stops x 4 Hours / Stop	-	
Typical Cross-Sections, 4 Cross-Sections x 4 Hours / Cross-Section	-	

City of Aurora  
New York St Farnsworth Ave Intersection Improvements  
Phase I Study  
Work-hour and Direct Cost Estimate

TASK & DESCRIPTION	Direct Cost	Comments
Plan Sheets 1"=20' Scale, 4 Sheets x 24 Hours / Sheet	-	
Intersection Alternatives, 3 alternatives x 24 Hours / Alternative	-	
Traffic Signal Preliminary Layout, 12 Hours x 1 Intersection	-	
<b>SUBTOTALS =</b>	<b>\$ -</b>	

TASK & DESCRIPTION	Direct Cost	Comments
<b>8 Intersection Design Studies</b>		
Intersection Design Study 1 Intersection at 60 Hours / Intersection	-	
Truck Templates 1 Intersection at 12 Hours / Intersection	-	
<b>SUBTOTALS =</b>	<b>\$ -</b>	
<b>9 Right of Way Analysis</b>		
Title Commitments provided by EEI (See Attached CECS)	-	
Review Plats to Verify Existing ROW Conditions, ROW Exhibits and Letters 6 Exhibits x 4 Hours/Exhibit and Letter	-	
<b>SUBTOTALS =</b>	<b>\$ -</b>	
<b>10 Lighting Assessment</b>		
Data Collection	-	
Site Visit, 1 Engineer x 4 Hours / Visit	\$ 913.84	492 Miles, 2 nights lodging, 2 days per diem, tolls
Review available lighting plans	-	
Evaluation of Existing Conditions Lighting equipment, condition, ownership, maintenance, and compliance	-	
AASHTO Warrants	-	
IDOT D1 Warrants	-	
Proposed Lighting Requirements Preliminary intersection analysis	-	
Develop preliminary lighting layout	-	
Cost Estimates	-	
Lighting Assessment Memorandum 16 hours draft, 8 hours final	-	
<b>SUBTOTALS =</b>	<b>\$ 913.84</b>	
<b>11 Public Involvement</b>		
City to provide mailing list	-	
Preparation of Public Meeting materials Postcards	-	Printing and mailing
Advertisement	-	newspaper ad
Display Exhibits	-	1 unit 15" x 15" spray boards
Audio/visual presentation	-	
Field check and secure location	-	Hosted at City Hall
Court Reporter (N/A)	-	
Attendance at Dry Run for Public Meeting, 2 people x 6 hours	-	Mileage/ Tolls
Attendance at Public Meeting, 2 people x 8 hours	-	Mileage/ Tolls
Compile comments and write summary of Public Meeting	-	
Preparation of newsletter and/or draft response letters	-	
Website Content Coordination Content provided will be based on display exhibits created for public	-	
<b>SUBTOTALS =</b>	<b>\$ -</b>	

<b>TASK &amp; DESCRIPTION</b>	<b>Direct Cost</b>	<b>Comments</b>
<b>12 Project Development Report</b>		
Compile Exhibits, correspondence/documentation and supplements	-	
Write report, proofread and edit	-	
Combine Project Report into PDF format	-	
Print, bind and deliver one copy in three-ring binder format	\$ 300.00	Printing / Delivery
Incorporate Public Meeting Information	-	
Address comments from draft report and revise exhibits	-	
Revise PDF of Project Report, recognize text and provide bookmarks	-	
<b>SUBTOTALS =</b>	<b>\$ 300.00</b>	
<b>13 Meetings and Coordination</b>		
City Meetings, Two progress meetings to discuss findings and recommendations, MS Teams	-	
IDOT Kickoff Meeting, One meeting, Webex Meeting, 1 Meeting x 2 People x 4 Hours	-	
BDE/FHWA Meeting, One Meeting, Webex, 1 Meeting x 2 People x 6 Hours	-	
Pace Bus Meeting, 1 Meeting, Teams, 1 Meeting x 2 People x 4 Hours	-	
Internal Coordination Meeting, 3 meetings, 4 people, 1 hour	-	
Aurora Fire Department Meeting (Coordination led by City)	-	
<b>SUBTOTALS =</b>	<b>\$ -</b>	
<b>14 Administration and Management</b>		
Project Set Up	-	
Administration (4 Hours/Month x 12 Months)	-	
<b>SUBTOTALS =</b>	<b>\$ -</b>	
<b>15 Cost Estimates</b>		
Prepare Preliminary Cost Estimates for Preferred Alternative	-	
Update cost estimate for preferred alternative	-	
Prepare final cost estimate for PDR	-	
<b>SUBTOTALS =</b>	<b>\$ -</b>	
<b>16 QA/QC</b>		
Review of milestone submittals	-	
<b>SUBTOTALS =</b>	<b>\$ -</b>	
<b>TOTAL =</b>	<b>\$ 3,599.60</b>	



## **EXHIBIT F**

### **City of Aurora QBS 23-15 Phase I Studies (E. New York and Farnsworth Ave.) Survey Scope of Work**

#### **QUALITY ASSURANCE**

Provide experienced field personnel under the supervision and direction of a Professional Land Surveyor with a minimum of 25 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 particular 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 location. 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 professional judgment to determine the direction of underground pipes and connections between manholes. However, EEI shall not be responsible for the accuracy of the 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 on surface structures. For any underground public utilities to be shown on the survey, Stanley Consultants will hire a utility consultant who will field mark the underground utilities at the signalized intersections. We will attempt to coordinate with the 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 recorder's website to search for any right of way that 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.

#### TITLE COMMITMENTS

If requested, EEl will order up to 6 title commitments of the adjoining parcels.

#### 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 outlined 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) Drone flight: The corridor for the drone flight for aerial imagery will be along the centerline of Farnsworth Ave., from 600' north and 450' south of the centerline of New York St. and along the centerline of New York St., from 300' west and 400' east of the centerline of Farnsworth Ave
- 2) Intersection Improvement survey. We will locate all visible improvements at the intersection of Farnsworth Ave. and New York Street from 600' north and 450' south of the centerline of New York St. and from 300' west and 400' east of the centerline of Farnsworth Ave. The limits of the survey work are shown on the attached aerials.

## DELIVERABLES

The 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.



Vermont Ave

E New York St

Grandview Dr

N Farnsworth Ave

N Farnsworth Ave

Kane St

Fenton St

E New York St

N Calhoun St

N Calhoun St

Google Earth



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> 23-00365-00-SP
<b>Prime Consultant (Firm) Name</b> Stanley Consultants	<b>Prepared By</b> Mark Scheller	<b>Date</b> 2/5/2024
<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	24	MONTHS	OVERHEAD RATE	186.62%
START DATE	3/6/2024		COMPLEXITY FACTOR	0
RAISE DATE	ANNIVERSARY		% OF RAISE	2.00%

**ESCALATION PER YEAR**

**DETERMINE THE MID POINT OF THE AGREEMENT**

12

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

2.00%

The total escalation for this project would be: 2.00%

**Local Public Agency**

**County**

**Section Number**

City of Aurora

Kane

23-00365-00-SP

**Consultant / Subconsultant Name**

**Job Number**

Engineering Enterprises, Inc.

**PAYROLL RATES**

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

<b>MAXIMUM PAYROLL RATE</b>	<b>78.00</b>
<b>ESCALATION FACTOR</b>	<b>2.00%</b>

<b>CLASSIFICATION</b>	<b>IDOT PAYROLL RATES ON FILE</b>	<b>CALCULATED RATE</b>
E-4, Senior Principal	\$76.82	\$78.00
E-3, Principal	\$78.03	\$78.00
E-2, Senior Project Manager	\$67.31	\$68.66
E-1, Project Manager	\$54.89	\$55.99
T-6, Senior Project Technician II	\$47.47	\$48.42
P-4, Project Surveyor	\$35.48	\$36.19
T-3, Senior Technician	\$29.20	\$29.78
I-1, Engineering/Land Surveying Intern	\$19.00	\$19.38
A-3, Administrative Assistant	\$34.36	\$35.05



**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00365-00-SP

**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	4	\$65.00	\$260.00
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
Title Commitments	Actual Cost	6	\$750.00	\$4,500.00
				\$0.00
				\$0.00
				\$0.00
<b>TOTAL DIRECT COSTS:</b>				<b>\$4,767.24</b>



**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00365-00-SP

**Consultant / Subconsultant Name**

Engineering Enterprises, Inc.

**Job Number**

**COST ESTIMATE WORKSHEET**

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

OVERHEAD RATE **186.62%**

COMPLEXITY FACTOR **0.00%**

TASK	DIRECT COSTS	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Survey Planning and Field Prep.		5	343	641	113		1,097	5.29%
Field Data Collection/Boundary Locate		40	1,937	3,614	639		6,190	29.84%
Right of Way Calculations		14	606	1,130	200		1,936	9.33%
Process Topographic survey		14	678	1,265	224		2,167	10.44%
Process Field Notes		3	145	271	48		464	2.24%
Measure Inverts		6	235	438	77		750	3.61%
Drone Flight		4	194	361	64		619	2.98%
QC/QA		3	206	384	68		658	3.17%
Administration		11	657	1,225	217		2,099	10.12%
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<b>Subconsultant DL</b>							\$0.00	
<b>Direct Costs Total ==&gt;</b>	\$0.00						<b>\$4,767.24</b>	22.98%
<b>TOTALS</b>		100	5,001	9,329	1,650	-	20,747	77.02%

14,330

**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00365-00-SP

**Consultant / Subconsultant Name**

Engineering Enterprises, Inc.

**Job Number**

**AVERAGE HOURLY PROJECT RATES**

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

SHEET

1 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Survey Planning and Field Prep.			Field Data Collection/Boundary Locate			Right of Way Calculations			Process Topographic survey			Process Field Notes		
		Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg
E-4, Senior Principal	78.00	0.0																	
E-3, Principal	78.00	0.0																	
E-2, Senior Project Manager	68.66	17.0	17.00%	11.67	5	100.00%	68.66												
E-1, Project Manager	55.99	5.0	5.00%	2.80							5	35.71%	20.00						
T-6, Senior Project Technician II	48.42	64.0	64.00%	30.99				40	100.00%	48.42				14	100.00%	48.42	3	100.00%	48.42
P-4, Project Surveyor	36.19	9.0	9.00%	3.26							9	64.29%	23.26						
T-3, Senior Technician	29.78	3.0	3.00%	0.89															
I-1, Engineering/Land Surveying Intern	19.38	2.0	2.00%	0.39															
A-3, Administrative Assistant	35.05	0.0																	
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<b>TOTALS</b>		100.0	100%	\$50.00	5.0	100.00%	\$68.66	40.0	100%	\$48.42	14.0	100%	\$43.26	14.0	100%	\$48.42	3.0	100%	\$48.42

**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00365-00-SP

**Consultant / Subconsultant Name**

Engineering Enterprises, Inc.

**Job Number**

**AVERAGE HOURLY PROJECT RATES**

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

SHEET 2 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Measure Inverts			Drone Flight			QC/QA			Administration			Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg
		Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg						
E-4, Senior Principal	78.00																		
E-3, Principal	78.00																		
E-2, Senior Project Manager	68.66							3	100.00%	68.66	9	81.82%	56.17						
E-1, Project Manager	55.99																		
T-6, Senior Project Technician	48.42	3	50.00%	24.21	4	100.00%	48.42												
P-4, Project Surveyor	36.19																		
T-3, Senior Technician	29.78	3	50.00%	14.89															
I-1, Engineering/Land Surveyor	19.38										2	18.18%	3.52						
A-3, Administrative Assistant	35.05																		
<b>TOTALS</b>		6.0	100%	\$39.10	4.0	100%	\$48.42	3.0	100%	\$68.66	11.0	100%	\$59.70	0.0	0%	\$0.00	0.0	0%	\$0.00

February 19, 2024

Mr. Curt Grass, P.E.  
Senior Engineer  
Stanley Consultants  
8501 W Higgins Road, Suite 730  
Chicago, Illinois 60631

Re: Scope and Fee for Subsurface Utility Engineering & Utility Coordination at Farnsworth Ave and New York Street – Aurora, Illinois  
HBK Engineering, LLC – P23-5007 PH008

Dear Mr. Grass,

HBK Engineering, LLC, is pleased to present this proposal to Stanley Consultants. This Phase I Engineering Study centering around intersection improvements Farnsworth Avenue and New York Street in Aurora, Illinois. This project will require utility coordination, design and conflict review, utility designation and survey, and utility base map drafting.

The total proposal cost estimate is \$16,709.00. HBK's scope and fees for the project are broken into five (5) components, as follows:

Initial Coordination & Data Collection

Pricing Total: \$738.00

Utility Designation & Survey

Pricing Total: \$5,184.00

Utility Data Base Mapping

Pricing Total: \$3,925.00

Utility Inventory & Conflict Analysis

Pricing Total: \$2,607.00

Utility Coordination

Pricing Total: \$3,865.00

HBK appreciates the opportunity to assist Stanley Consultants on this project. Please contact me if there are questions or if you need additional information.

Sincerely,



Anthony D'Angelo  
Project Manager

Attachments:

- COA-Stanley\_Farnsworth & New York St\_HBK SUE-Utility Coordination SOW-2024.02.19.pdf
- BLR 05514\_COA - Stanley\_New York St and Farnsworth\_HBK\_2024.02.19.pdf
- COA-Stanley\_Farnsworth & New York St\_SUE & Utility Coordination\_Project Limits.pdf

cc: Dan Zeman, PE CAPM

(COA-Stanley\_Farnsworth & New York St\_HBK SUE-Utility Coordination\_Cover Letter-2024.02.19.doc)

# Farnsworth Avenue & New York St Intersection Improvements – Aurora, IL

At the request of Stanley Consultants (Consultant), **HBK Engineering, LLC (HBK)** has prepared a scope of services for utility coordination, design and conflict review, logging of specifications of existing facilities, and utility relocation cost estimates for Farnsworth Avenue & New York St Intersection Improvements in Aurora, Illinois. A manhour and fee estimate for this project is also attached.

## Project Limits

The project limits and all work will occur in and regarding the project area at Farnsworth Ave and New York St as described below (see attached exhibit):

- The full intersection and approaches in all directions extending beyond the ROW of the nearest public way (~1500 linear feet of ROW)

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

## Project Tasks

Based on the expectation that utility conflicts are likely to be a substantial challenge with respect to design and construction of the proposed improvements, a separate Subsurface Utility Engineering (SUE) evaluation, including utility designation and survey, utility base mapping, and compilation of utility inventory, will be completed for the project by HBK. The information gathered by HBK will be incorporated into the project plans as appropriate. All work will be performed within the following tasks.

### 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 Information Request. HBK will also coordinate with Consultant and the City of Aurora to obtain any information available, including area utility companies and contact information. A request will be made for these utilities to provide any available maps of existing facilities. HBK will provide copies of the atlases obtained to Consultant upon completion of all relevant work.

### 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 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 Randall Road and Hopps Road improvement project as described above.

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 Consultant has benchmarks available in the vicinity of the project or that HBK will be allowed to establish vertical control (NAVD88) utilizing GPS or the nearest NGS vertical monuments will be used. Consultant will provide the benchmark(s) and control data for HBK's use in its data collection.

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

#### Utility Data Base Mapping

HBK will compile all the above information into one base map MicroStation drawing suitable for plotting at 1"=20' scale that is representative of existing utility locations for use in all Phase II engineering work in developing the detailed plan, profile, and cross sections for the preferred alternative. Survey base map drawing will be generated in Bentley MicroStation ORD.

HBK will coordinate with the roadway designer so that utilities can be depicted accurately in the survey data and utility base maps. This shall include time allotted for utility base map QA/QC.

#### Utility Inventory and Conflict Analysis

HBK will work to collect and log all available utility data including previously collected data, utility atlases, field survey information, and available specifications of existing utilities. The logged information will be checked against plan sets and CADD files to determine potential conflicts with proposed improvements. Conflict analysis will be performed when relevant to each submission (preliminary, pre-final, and/or final).

All logged utility data and relevant communication with the utility owners will be provided to the Consultant upon request. HBK will prepare and maintain an IDOT special provision "Status of Utilities" document and provide to the Consultant as needed.

#### Utility Coordination

HBK will coordinate with the utility companies/agencies having facilities within the project limits during Phase 02 Engineering. HBK will draft notifications and send preliminary, pre-final and final roadway plans and, as needed, electronic CADD files to utility owners to review the proposed improvements, identify impacts/conflicts to their facilities, and prepare relocation designs. HBK will participate in conflict/relocation reviews, lead two (2) utility coordination meetings, and provide guidance on relocation efforts.

#### Exclusions

- Quality Level A locates (potholing) is NOT included in this proposal to Consultant. HBK can provide an hour and fee estimate to perform Quality Level A locates (potholing or otherwise exposing buried utilities) for existing utilities in the vicinity of the improvements (to be recommended by HBK and concurred by Consultant), if requested
- Permitting fees are NOT included in this proposal and, if assessed, shall be considered a pass-through cost
- SUE Level B designation and utility base mapping DOES NOT include sanitary or storm sewers
- All fees within this proposal are based on the provided project timeline

End of Document



<b>Local Public Agency</b> City of Aurora	<b>County</b> Kane	<b>Section Number</b> 23-00365-00-SP
<b>Prime Consultant (Firm) Name</b> Stanley Consultants	<b>Prepared By</b> Anthony D'Angelo	<b>Date</b> 2/19/2024
<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	12	MONTHS			OVERHEAD RATE	117.52%
START DATE	6/1/2024				COMPLEXITY FACTOR	0
RAISE DATE	1/1/2025				% OF RAISE	2.00%
END DATE	5/31/2025					

### ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	6/1/2024	1/1/2025	7	58.33%
1	1/2/2025	6/1/2025	5	42.50%

The total escalation = 0.83%

**Local Public Agency**

**County**

**Section Number**

City of Aurora

Kane

23-00365-00-SP

**Consultant / Subconsultant Name**

**Job Number**

HBK Engineering, LLC

**PAYROLL RATES**

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

<b>MAXIMUM PAYROLL RATE</b>	<b>86.00</b>
<b>ESCALATION FACTOR</b>	<b>0.83%</b>

<b>CLASSIFICATION</b>	<b>IDOT PAYROLL RATES ON FILE</b>	<b>CALCULATED RATE</b>
Program Manager	\$76.62	\$77.26
Senior Project Manager	\$59.24	\$59.73
Senior Engineer	\$51.83	\$52.26
Project Manager	\$47.58	\$47.98
Engineer	\$41.84	\$42.19
Associate 1	\$32.90	\$33.17
Associate 2	\$38.61	\$38.93
Permit Coordinator	\$29.91	\$30.16
Analyst 1	\$28.57	\$28.81
Analyst 2	\$42.94	\$43.30
Licensed Professional Surveyor	\$54.61	\$55.07
Field Lead	\$38.91	\$39.23
Field Technician	\$25.85	\$26.07
Locator 1	\$22.66	\$22.85
Locator 2	\$23.45	\$23.65
Locator 3	\$27.40	\$27.63
Designer 1	\$30.48	\$30.73
Designer 2	\$31.60	\$31.86
Designer 3	\$41.52	\$41.87



**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00365-00-SP

**Consultant / Subconsultant Name**

HBK Engineering, LLC

**Job Number**

**DIRECT COSTS WORKSHEET**

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

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
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	6	\$65.00	\$390.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost			\$0.00
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost			\$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
				\$0.00
				\$0.00
				\$0.00
<b>TOTAL DIRECT COSTS:</b>				<b>\$390.00</b>

**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00365-00-SP

**Consultant / Subconsultant Name**

HBK Engineering, LLC

**Job Number**

**COST ESTIMATE WORKSHEET**

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE 117.52%

COMPLEXITY FACTOR 0

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Initial Coordination/Data Collection		8	295	347	96		738	4.42%
Utility Designation and Survey	390	50	2,072	2,436	676		5,184	31.03%
Utility Data Base Mapping		36	1,569	1,844	512		3,925	23.49%
Utility Inventory & Conflict Analysis		24	1,042	1,225	340		2,607	15.60%
Utility Coordination		30	1,545	1,816	504		3,865	23.13%
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<b>Subconsultant DL</b>							\$0.00	
<b>Direct Costs Total ==&gt;</b>	\$390.00						\$390.00	2.33%
<b>TOTALS</b>		148	6,523	7,668	2,128	-	16,709	100.00%

**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00365-00-SP

**Consultant / Subconsultant Name**

HBK Engineering, LLC

**Job Number**

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

SHEET  1  OF  1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Initial Coordination/Data Collection			Utility Designation and Survey			Utility Data Base Mapping			Utility Inventory & Conflict Analysis			Utility Coordination		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Program Manager	77.26	8.0	5.41%	4.18				2	4.00%	3.09	2	5.56%	4.29	2	8.33%	6.44	2	6.67%	5.15
Senior Project Manager	59.73	6.0	4.05%	2.42							2	5.56%	3.32				4	13.33%	7.96
Senior Engineer	52.26	0.0																	
Project Manager	47.98	36.0	24.32%	11.67	2	25.00%	11.99	4	8.00%	3.84	4	11.11%	5.33	2	8.33%	4.00	24	80.00%	38.38
Engineer	42.19	12.0	8.11%	3.42				4	8.00%	3.38	4	11.11%	4.69	4	16.67%	7.03			
Associate 1	33.17	6.0	4.05%	1.34	6	75.00%	24.88												
Associate 2	38.93	80.0	54.05%	21.04				40	80.00%	31.15	24	66.67%	25.95	16	66.67%	25.95			
Permit Coordinator	30.16	0.0																	
Analyst 1	28.81	0.0																	
Analyst 2	43.30	0.0																	
Licensed Professional Surv	55.07	0.0																	
Field Lead	39.23	0.0																	
Field Technician	26.07	0.0																	
Locator 1	22.85	0.0																	
Locator 2	23.65	0.0																	
Locator 3	27.63	0.0																	
Designer 1	30.73	0.0																	
Designer 2	31.86	0.0																	
Designer 3	41.87	0.0																	
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<b>TOTALS</b>		148.0	100%	\$44.08	8.0	100.00%	\$36.87	50.0	100%	\$41.45	36.0	100%	\$43.58	24.0	100%	\$43.42	30.0	100%	\$51.50

# COA-Stanley Consultants Farnsworth Ave & New York Street

Intersection Improvements Project Area  
HBK P23-5007 PH08

**Legend**  
Project Limits



2/9/2024

**Scope of Work**  
**QBS 23-115**  
**Phase I Engineering Services**  
**Environmental Screening for**  
**Intersection Improvement at**  
**E. New York Street & N. Farnsworth Avenue**  
**City of Aurora, Kane County, Illinois**

The project is located at the intersection of E New York Street and N Farnsworth Avenue on the east side of City of Aurora, in Kane County, Illinois. We understand that the proposed work consists of intersection improvements and may involve traffic signal modernization, reconstruction of pedestrian refuge islands, resurfacing, roadway lighting and sidewalk/bike path improvements.

**Scope of Work**

The limits of investigation are presented in the attached exhibit. 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.

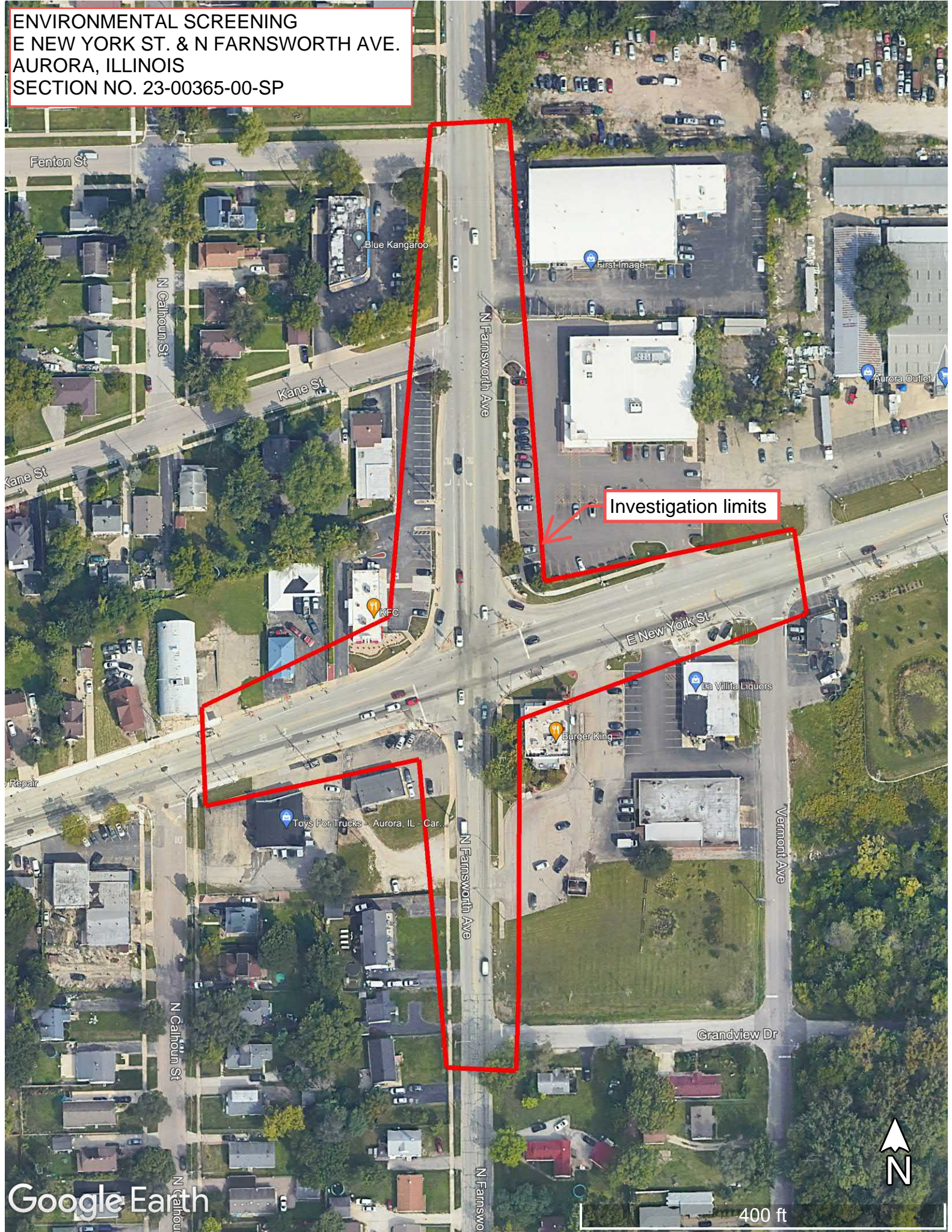
**Cost Estimate**

The cost to provide the above-mentioned services is provided in the attached CECS.

**Schedule**

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

ENVIRONMENTAL SCREENING  
E NEW YORK ST. & N FARNSWORTH AVE.  
AURORA, ILLINOIS  
SECTION NO. 23-00365-00-SP



Investigation limits



400 ft



<b>Local Public Agency</b> City of Aurora	<b>County</b> Kane	<b>Section Number</b> 23-00365-00-SP
<b>Prime Consultant (Firm) Name</b> Stanley Consultants	<b>Prepared By</b> Ashok Guntaka	<b>Date</b> 2/9/2024
<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	24	MONTHS	OVERHEAD RATE	133.99%
START DATE	3/1/2024		COMPLEXITY FACTOR	0
RAISE DATE	1/1/2025		% OF RAISE	2.00%
END DATE	2/28/2026			

**ESCALATION PER YEAR**

Year	First Date	Last Date	Months	% of Contract
0	3/1/2024	1/1/2025	10	41.67%
1	1/2/2025	1/1/2026	12	51.00%
2	1/2/2026	3/1/2026	2	8.67%

---

**The total escalation = 1.34%**

**Local Public Agency**

**County**

**Section Number**

City of Aurora

Kane

23-00365-00-SP

**Consultant / Subconsultant Name**

**Job Number**

INTERRA, Inc.

N/A

**PAYROLL RATES**

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	1.34%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Senior Administrative Assistant	\$31.00	\$31.41
Staff Engineer	\$33.00	\$33.44
Project Engineer	\$44.00	\$44.59
Senior Project Manager	\$77.33	\$78.36
Principal Engineer	\$86.00	\$86.00





Local Public Agency

City of Aurora

County

Kane

Section Number

23-00365-00-SP

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 \$480.00.

**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00365-00-SP

**Consultant / Subconsultant Name**

INTERRA, Inc.

**Job Number**

N/A

**COST ESTIMATE WORKSHEET**

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE

COMPLEXITY FACTOR

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL	
Environmental Screening	480	40	2,036	2,728	672		5,436	91.89%	
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			-	-	-		-		
			-	-	-		-		
<b>Subconsultant DL</b>								\$0.00	
<b>Direct Costs Total ==&gt;</b>	\$480.00							\$480.00	8.11%
<b>TOTALS</b>		40	2,036	2,728	672	-	5,916	100.00%	

4,764

**Local Public Agency**

City of Aurora

**County**

Kane

**Section Number**

23-00365-00-SP

**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
Senior Administrative Assis	31.41	2.0	5.00%	1.57	2	5.00%	1.57									
Staff Engineer	33.44	8.0	20.00%	6.69	8	20.00%	6.69									
Project Engineer	44.59	20.0	50.00%	22.29	20	50.00%	22.29									
Senior Project Manager	78.36	6.0	15.00%	11.75	6	15.00%	11.75									
Principal Engineer	86.00	4.0	10.00%	8.60	4	10.00%	8.60									
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<b>TOTALS</b>		40.0	100%	\$50.91	40.0	100.00%	\$50.91	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00