

DRAFT



**Local Public Agency
Engineering Services Agreement**

E-mail Print With Instructions Reset Form

Agreement For

Agreement Type

MFT PE

Original

Using Federal Funds? Yes No

LOCAL PUBLIC AGENCY

Local Public Agency	County	Section Number	Job Number
Lake	Lake	24-00289-03-BT	
Project Number	Contact Name	Phone Number	Email
	Aladdin Husain, PE	(847) 377-7519	ahusain@lakecountyl.gov

SECTION PROVISIONS

Local Street/Road Name	Key Route	Length	Structure Number
Patriot Path - IL Route 137 Bike Path (2/3)	IL Route 137	2.03	NA
Location Termini			Add Location
Sage Court to Great Lakes Drive			Remove Location

Project Description
The Scope of the proposed improvements includes hot-mix asphalt bike path pavement, two new pedestrian bridges, retaining walls, bicycle railings, culvert extensions, combination concrete curb and gutter, and storm sewer appurtenances.

Engineering Funding	<input type="checkbox"/> MFT/TBP	<input type="checkbox"/> State	<input checked="" type="checkbox"/> Other	Sales Tax	
Anticipated Construction Funding	<input checked="" type="checkbox"/> Federal	<input checked="" type="checkbox"/> MFT/TBP	<input checked="" type="checkbox"/> State	<input checked="" type="checkbox"/> Other	Sales Tax and County Bridge Tax

AGREEMENT FOR

Phase I - Preliminary Engineering Phase II - Design Engineering

CONSULTANT

Prime Consultant (Firm) Name	Contact Name	Phone Number	Email
HR Green, Inc.	Stephen Bicking, PE	(815) 759-8306	sbicking@hrgreen.com
Address	City	State	Zip Code
1391 Corporate Drive, Suite 203	McHenry	IL	60050

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

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

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

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

AGREEMENT EXHIBITS

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

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

I. THE ENGINEER AGREES,

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

II. THE LPA AGREES,

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

shall be due and payable to the ENGINEER.

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

(1) For progressive payments - Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, monthly payments for the work performed shall be due and payable to the ENGINEER. Such payments to be equal to the value of the partially completed work in all previous partial payments made to the ENGINEER.

(2) Final payment - Upon approval of the work by the LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA and STATE, a sum of money equal to the basic fee as determined in the AGREEMENT less the total of the amount of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

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

Method of Compensation:

Percent

Lump Sum

Specific Rate

Cost plus Fixed Fee: Fixed

Total Compensation = DL + DC + OH + FF

Where:

DL is the total Direct Labor,

DC is the total Direct Cost,

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

FF is the Fixed Fee.

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

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

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

III. IT IS MUTUALLY AGREED,

1. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amount, recipients and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records and supporting documents related to the contract shall be available for review and audit by the Auditor General, and the DEPARTMENT; the Federal Highways Administration (FHWA) or any authorized representative of the federal government, and to provide full access to all relevant materials. Failure to maintain the books, records and supporting documents required by this section shall establish a presumption in favor of the DEPARTMENT for the recovery of any funds paid by the DEPARTMENT under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.

2. That the ENGINEER shall be responsible for any all damages to property or persons out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and save harmless the LPA, the DEPARTMENT, and their officers, agents and employees from all suits, claims, actions or damages liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.

The LPA will notify the ENGINEER of any error or omission believed by the LPA to be caused by the negligence of the ENGINEER as soon as practicable after the discovery. The LPA reserves the right to take immediate action to remedy any error or omission if notification is not successful; if the ENGINEER fails to reply to a notification; or if the conditions created by the error or omission are in need of urgent correction to avoid accumulation of additional construction costs or damages to property and reasonable notice is not practicable.

3. This AGREEMENT may be terminated by the LPA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LPA all drawings, plats, surveys, reports, permits, agreements, soils and foundation analysis, provisions, specifications, partial and completed estimates and data, if any from soil survey and subsurface investigation with the understanding that all such materials becomes the property of the LPA. The LPA will be responsible for reimbursement of all eligible expenses incurred under the terms of this AGREEMENT up to the date of the written notice of termination.

4. In the event that the DEPARTMENT stops payment to the LPA, the LPA may suspend work on the project. If this agreement is suspended by the LPA for more than thirty (30) calendar days, consecutive or in aggregate, over the term of this AGREEMENT, the ENGINEER shall be compensated for all services performed and reimbursable expenses incurred prior to receipt of notice of suspension. In addition, upon the resumption of services the LPA shall compensate the ENGINEER for expenses incurred as a result of the

- (2) The grantee's or contractor's policy to maintain a drug free workplace;
- (3) Any available drug counseling, rehabilitation and employee assistance program; and
- (4) The penalties that may be imposed upon an employee for drug violations.

(c) Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.

(d) Notifying the contracting, or granting agency within ten (10) days after receiving notice under part (b) of paragraph (3) of subsection (a) above from an employee or otherwise, receiving actual notice of such conviction.

(e) Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program.

(f) Assisting employees in selecting a course of action in the event drug counseling, treatment and rehabilitation is required and indicating that a trained referral team is in place.

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

10. Due to the physical location of the project, certain work classifications may be subject to the Prevailing Wage Act (820 ILCS 130/0.01 et seq.).

11. For Preliminary Engineering Contracts:

(a) That tracing, plans, specifications, estimates, maps and other documents prepared by the ENGINEER in accordance with this AGREEMENT shall be delivered to and become the property of the LPA and that basic survey notes, sketches, charts, CADD files, related electronic files, and other data prepared or obtained in accordance with this AGREEMENT shall be made available, upon request to the LPA or to the DEPARTMENT, without restriction or limitation as to their use. Any re-use of these documents without the ENGINEER involvement shall be at the LPA's sole risk and will not impose liability upon the ENGINEER.

(b) That all reports, plans, estimates and special provisions furnished by the ENGINEER shall conform to the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Manual or any other applicable requirements of the DEPARTMENT, it being understood that all such furnished documents shall be approved by the LPA and the DEPARTMENT before final acceptance. During the performance of the engineering services herein provided for, the ENGINEER shall be responsible for any loss or damage to the documents herein enumerated while they are in the ENGINEER's possession and any such loss or damage shall be restored at the ENGINEER's expense.

AGREEMENT SUMMARY

Prime Consultant (Firm) Name	TIN/FEIN/SS Number	Agreement Amount
HR Green, Inc.	42-0927178	\$1,421,579.00
Subconsultants		
Ames Engineering, Inc.	36-4404761	\$36,790.00
HBK Engineering, LLC	46-1255956	\$37,184.00
HDR Engineering, Inc.	47-0680568	\$99,928.00
Rubino Engineering, Inc.	80-0450719	\$98,252.00
Huff & Huff, Inc	36-3044842	\$74,971.00
	Subconsultant Total	\$347,125.00
	Prime Consultant Total	\$1,421,834.00
	Total for all work	\$1,768,704.00

AGREEMENT SIGNATURES

Executed by the LPA:

Local Public Agency Type Local Public Agency

Attest:

The County of Lake

By (Signature & Date)

[Signature & Date box for LPA]

By (Signature & Date)

[Signature & Date box for Clerk]

Local Public Agency

Lake

Local Public Agency Type

County

Clerk

Title

Chair, Lake County Board

(SEAL)

Executed by the ENGINEER:

Prime Consultant (Firm) Name

Attest:

HR Green, Inc.

By (Signature & Date)

[Signature of Senior Project Manager]

Title

Senior Project Manager

By (Signature & Date)

[Signature of President - Construction]

Title

President - Construction

APPROVED:

Regional Engineer, Department of Transportation (Signature & Date)

[Signature & Date box for Regional Engineer]

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	HR Green, Inc.	Lake	24-00289-03-BT

**EXHIBIT A
SCOPE OF SERVICES**

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

See attached Exhibit A for Scope of Work Details



SCOPE OF SERVICES

For

**Lake County Division of Transportation
Patriot Path – IL Route 137 Bike Path
Sage Court/Brookhaven Drive to Great Lakes Drive – Segments 2 and 3
Section No. 24-00289-03-BT**

Aladdin Husain, PE
Project Manager
Lake County Division of Transportation
600 West Winchester Road
Libertyville, IL 60048
847.377.7400

Stephen R. Bicking, PE
HR Green, Inc.
1391 Corporate Drive, Suite 203
McHenry, IL 60050
HR Green Project Number: 2402787

August 16, 2024

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THIS **SCOPE OF SERVICES** is between the LAKE COUNTY DIVISION OF TRANSPORTATION (hereafter “CLIENT”) and HR GREEN, INC. (hereafter "COMPANY").

1.0 Project Understanding

1.1 General Understanding

CLIENT desires Phase II engineering services from COMPANY, who is prequalified with the Illinois Department of Transportation (IDOT) in the relevant categories, to develop plans, specifications, estimates, and bid documents for the construction of Patriot Path Segments 2 and 3 in Lake County, Illinois (Section 24-00289-03-BT). Segment 2 has limits from Sage Court/Brookhaven Drive to IL Route 43 (Waukegan Road), a length of approximately 4,560 feet. Segment 3 is from IL Route 43 (Waukegan Road) to Great Lakes Drive (entrance into Veterans Memorial Golf Course), a length of approximately 6,300 feet. Additionally, IDOT and regulatory agency coordination will be necessary for the renewal/updating of various environmental signoffs as their Phase I approvals expire. The proposed project will provide for the construction of the remaining two (2) of the four (4) total segments of the Patriot Path, which will ultimately connect the Des Plaines River Trail and the Robert McClory Bike Path. The Patriot Path will be incorporated into CLIENT’s overall bike path network and provide the surrounding communities and other entities connection opportunities.

The scope of the proposed improvements includes hot-mix asphalt bike path pavement, two (2) new separate bike path only bridges, retaining walls, bicycle railings, culvert extensions, combination concrete curb and gutter, and storm sewer appurtenances. The plans, specifications, and estimates for Segment 2 and Segment 3 will be separated into two (2) distinct construction contracts so the projects can be bid and constructed separately, if desired.

In general, this SCOPE OF SERVICES governs the Phase II engineering services required for the construction of Patriot Path Segments 2 and 3. These services will include, but are not limited to, the following: supplemental field survey, right-of-way (ROW) plats/legal descriptions, ROW appraisals/negotiations, traffic signal/lighting modifications, pavement striping, Americans with Disabilities Act (ADA) plans, utility coordination/relocation, storm sewer and storm water detention design, geotechnical explorations/testing, permitting and wetland mitigation, landscaping restoration, environmental coordination, public involvement and the preparation of contract plans, specifications, and estimates. For the purposes of this SCOPE OF SERVICES, it is assumed that the Phase II engineering services will conclude within 48 months of COMPANY receiving notice to proceed from CLIENT.

As CLIENT intends to use Federal funding for construction, the Phase II engineering for the project will need to be processed through the IDOT Bureau of Local Roads and Streets (BLRS) and be completed according to Federal Highway Administration (FHWA) and National Environmental Policy Act (NEPA) requirements, in addition to applicable State and local requirements.

1.2 Design Criteria/Assumptions

CLIENT intends to use Sales Tax for Phase II engineering. No Federal funds will be used for engineering.

The project's design criteria will be from the IDOT Bureau of Design and Environment (BDE) Manual Chapter 17 – Bicycle and Pedestrian Accommodations, and Chapter 58 – Special Elements; the AASHTO Guide for the Development of Bicycle Facilities; and the latest Public Right-of-Way Accessibility Guidelines (PROWAG).

Additional project criteria will include CLIENT's Plan Preparation Guidelines, CLIENT's Design Survey Procedures, the Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways, the 2017 AASHTO LRFD Bridge Design Specifications, the 8th Edition AASHTO LRFD Guide Specification for Design of Pedestrian Bridges, and the Lake County Division of Transportation Standard Details and Specifications.

Improvements to municipal jurisdictional roadways and underground facilities will be designed in accordance with the local agency ordinances and standards, where applicable.

This SCOPE OF SERVICES includes floodplain/floodway permitting coordination time for IDOT and the Lake County Stormwater Management Commission (LCSMC).

COMPANY has assumed that no detours will be required as part of Phase II engineering.

2.0 Scope of Services

CLIENT agrees to employ COMPANY to perform the following services:

2.1 Land Surveying

COMPANY will coordinate with CLIENT to prepare a survey right-of-entry letter for survey work on private property. COMPANY will contact property owners, to the extent possible, in advance of surveying on private property.

On this basis, COMPANY will perform the following survey tasks:

A. Supplemental Survey

Additional topographic survey will be collected in select areas identified during the Phase II design of Segments 2 and 3. This includes, but is not limited to, the Interstate 94 (I-94) Tollway interchange, the Soo Line Railroad, the Union Pacific (UP) Railroad, commercial parking lots, roadway pavement, and utility markings or elevations. This task also includes obtaining orthoimagery utilizing an unmanned aerial vehicle (UAV) for developing traffic control plans along I-94. Direct costs for railroad right-of-entry and flaggers is included in the contract.

B. Tree Survey

COMPANY will conduct a survey of trees exceeding three (3) inches in diameter within the proposed limits of construction that includes size, species, condition, and tags (if desired). The tree survey limits will match the construction limits developed during the Phase II design of Segments 2 and 3, excluding any lands that were already surveyed during Phase I. COMPANY will provide a summary of findings and anticipated replacement values in a memo format.

C. Easement Plats and Legal Descriptions

COMPANY will prepare a plat of highways and legal descriptions for an assumed maximum of eleven (11) adjacent parcels of land to be acquired for ROW, permanent easements, and/or temporary construction easements in Segments 2 and 3. Boundary survey will be performed on the eleven (11) subject parcels as described in the title commitments Schedule A (obtained by COMPANY) as required to complete the proposed plat of highways. Following construction, each proposed ROW parcel will be monumented with 5/8" steel bars with suitable markers in accordance with IDOT standards.

2.2 ROW Acquisition (HDR Engineering, Inc.)

As a subconsultant to COMPANY, HDR Engineering, Inc. (HDR) will perform the land acquisition services. In addition, HDR will engage the following firms as third-tier subconsultants, with key staff as identified:

- Appraisal Reports will be completed by Jennifer Dounias with Triple D Valuation Services, Inc.
- Appraisal Review Reports will be completed by Dave White with Civiltech Engineering, Inc.

A. Coordination with HDR

COMPANY will provide HDR with plats of highway, legal descriptions, the most recent title commitments, and any other pertinent information regarding the property owner for each parcel assigned for acquisition. In addition, COMPANY will also provide HDR with a set of project plans, including plan and profiles, drainage and utility plans, pavement marking plans, and cross sections.

B. HDR's land acquisition services, responsibilities, and deliverables will consist of the following:

1. Manage HDR's contracted subconsultants, including:
 - a. Ordering and monitoring delivery of up to 11 new appraisal reports from Triple D Valuation Services, Inc.;
 - b. Ordering and monitoring delivery of up to 11 new appraisal review reports from Civiltech Engineering, Inc.; and
 - c. Preparation of one (1) cost estimate by Civiltech Engineering, Inc. for Segments 2 and 3.
2. Participate in one (1) kickoff meeting and conduct virtual meetings with COMPANY and/or CLIENT to discuss project related items.
3. Provide a land acquisition report that details the status of each parcel. The report will be provided on a weekly basis or upon request from COMPANY.
4. Review plat of highway, other ROW exhibits, title documents, and appraisal reports for each impacted parcel prior to negotiation activities.
5. Prepare offer packages for up to 11 parcels in Segments 2 and 3. Offer packages will be sent to property owners via regular and certified mail.
6. Conduct quality reviews on each offer package.

7. Conduct negotiations with property owners to reach a negotiated settlement. This includes any in-person meetings with property owners to explain the offer package and property impacts, as well as follow-up due diligence either by phone, email, or through virtual meetings, until a settlement is reached and the conveyance documents are signed and notarized.
8. Conduct quality reviews of the conveyance documents.
9. Upon successful negotiations, HDR will submit the completed parcel file to COMPANY with original signed conveyance documents, the Negotiator's report documenting all negotiation activities, and all other documentation, as required.
10. Prepare administrative settlements, as necessary. Administrative settlements will be provided to CLIENT's ROW agent for review.
11. If negotiations are not successful, HDR will submit the parcel file along with all necessary documentation to COMPANY with a recommendation to acquire the parcel through condemnation. The Negotiator will attend any pre-trial meetings and provide expert witness testimony, as necessary.
12. Since the project is receiving federal funding, the parcels will go through the IDOT parcel certification process.
13. Prepare parcel certification checklists for each parcel in Segments 2 and 3.
14. Project close out.

2.3 Geotechnical Investigation (Rubino Engineering, Inc.)

A. Coordination with Rubino

COMPANY will provide Rubino with the locations of required borings needed to conduct the geotechnical investigation for the project. In addition, COMPANY will also provide Rubino with a set of project plan, including plan and profiles, structural drawings, and cross sections.

- B. As a subconsultant to COMPANY, Rubino Engineering, Inc. (Rubino) will perform the geotechnical investigation for the project in accordance with the IDOT Geotechnical Manual. The tasks to be performed by Rubino as part of the geotechnical investigation will include soil borings, soil analysis, and preparation of a Geotechnical Report summarizing the investigation.

Boring Locations

The proposed borings for each segment include:

1. Five (5) bridge boring locations in Segment 2;
2. One (1) culvert boring location in Segment 2;
3. Five (5) path borings (5 feet deep) in Segment 2;
4. Four (4) retaining wall borings in Segment 3;
5. Two (2) culvert boring locations in Segment 3; and
6. Six (6) path borings (5 feet deep) in Segment 3.

COMPANY will incorporate the findings from the geotechnical fieldwork and Geotechnical Report into the Phase II plans and specifications, as appropriate.

2.4 Lighting (AMES Engineering, Inc.)

As a subconsultant to COMPANY, AMES Engineering, Inc. (AEI) will perform the lighting design, plans, and specifications for the relocation of existing lighting along IL 137 that will

be impacted by the construction of the Patriot Path. In Segment 2 and 3, the lighting to be relocated includes IDOT light poles at the I-94 interchange and continuing east to Great Lakes Drive on the north side of IL 137.

2.5 Permitting and Environmental Coordination

As part of Phase I engineering, the environmental resources were evaluated, and the following documents were developed:

- *Wetlands/Water Assessment Report* – July 2018
- *Isolated Wetlands Boundary Verification*; LCSMC; #IWLC-17-079 – October 2018
- *Preliminary Environmental Site Assessment (PESA)*; ISGS; Seq# 20787A – July 2018
- *Preliminary Environmental Site Assessment (PESA)*; ISGS; Seq# 20787B – June 2021
- *Natural Resources Review (NRR)*; IDOT; Seq# 20787, 20787A, 20787B – December 2018

No additional coordination with the Illinois Department of Natural Resources (IDNR) and/or the US Fish and Wildlife Service (USFWS) to address threatened and endangered (T&E) species, or the Lake County Forest Preserve District (LCFPD) regarding the Section 4(f) document is included in this SCOPE OF SERVICES.

A. Environmental Survey Request (ESR) Update and Addendum ESR

COMPANY will request an update to the ESR Phase I clearances, specifically for the PESA and NRR, such that environmental clearances will be current for Phase II design approval. This will be requested via an email to IDOT. It is anticipated that the request for updated clearances will need to be made on up to two (2) separate occasions.

For the purposes of this SCOPE OF SERVICES, it is planned that one (1) Addendum ESR will be processed if the project limits should extend beyond the current ESR limits. However, the project design will be approached with the intent to keep the project footprint within the existing ESR limits.

It is anticipated that the ESR coordination will require the submittal of (or updates to) the Bridge/Structure Bat Assessment Forms, as they are valid for two (2) years. As the proposed project is not affecting any existing bridges, it is anticipated that no more than two (2) structures (possible culverts) will be affected and require evaluation using the bat assessment form.

B. Regulated Substances Coordination

The Illinois State Geological Survey (ISGS) prepared the PESA for the entire ESR limits (all four segments) in July 2018 and the addendum ESR area to cover the golf course parking area was completed in June 2021. The IDOT BDE manual states that PESA reports are valid for up to three (3) years. Therefore, it is anticipated that IDOT will require a new PESA for the Phase II process for all four (4) segments of the Patriot Path. This will require at least six (6) months to complete from the time of request.

It is anticipated that the PESA will again identify sites with Recognized Environmental Conditions (RECs) based on the results of the 2018 PESA, as over 100 sites were evaluated, and 68 sites were determined to RECs. It is assumed that up to 25 REC listed sites will be identified within Segment 2 and Segment 3. As part of the Phase II engineering services, COMPANY will prepare the PESA Response Form (BDE 2735) for the sites listed in the PESA within Segment 2 and Segment 3, as it requires inclusion of both REC and non-REC sites. Plan exhibits will be developed to detail anticipated construction impacts for the REC sites. The plan exhibits will identify the REC location, excavation volumes, and depth of excavation. COMPANY will attempt to avoid all REC sites to the extent practicable.

It is anticipated that IDOT will task ISGS (or an on-call consultant) with performing a Preliminary Site Investigation (PSI) for the unavoidable RECs. The results of the PSI will yield detailed specifications pertaining to special waste management for COMPANY to incorporate into the contract plans and specifications. It is anticipated that IDOT will provide a signed LPC-663 form for inclusion in the contract documents as part of the Clean Construction or Demolition Debris (CCDD) facility coordination for areas evaluated as part of the PSI (anticipated to be the REC sites along IDOT ROW only).

It is anticipated that the ISGS will at a minimum conduct soil sampling at unavoidable REC sites within IDOT ROW. The resultant PSI and LPC-663 form to be provided by IDOT through the ISGS investigation will therefore at a minimum be applicable to REC sites. CLIENT has directed COMPANY to assume that an LPC-663 form will also be required by the CCDD facilities for the non-REC sites in the corridor as the project is associated with roadway ROW. Conservative CCDD facilities have generally assumed that any roadway corridor is an REC in and of itself.

COMPANY will coordinate with IDOT through the PESA Response Form to initiate the PSI. The IDOT Environmental Studies Unit (ESU) will determine the scope of the PSI, including testing for LPC-663 forms for CCDD disposal as applicable. COMPANY will review the plan to identify any areas not sampled by ISGS, but will require sampling for the LPC-663 documentation.

COMPANY will coordinate with Huff & Huff, Inc., a subsidiary of GZA GeoEnvironmental, Inc. (H&H) to develop a sampling plan to cover the areas not addressed by ISGS. This will likely include, at a minimum, sites not part of IDOT ROW, but also may include non-REC sites along IDOT ROW. The sampling program will be developed to provide the necessary LPC-663 form documentation not covered by the IDOT/ISGS effort. The approach to use the LPC-663 for all areas of the Segment 2 and Segment 3 corridor will similarly apply to Segment 1 and Segment 4, and therefore the H&H evaluation will include all four (4) segments.

COMPANY will coordinate with H&H to have them develop two LPC-663 forms; one to cover Segment 1 and 4, and one to cover Segment 2 and 3, as applicable. It should be noted that all parcels within Segment 4 have been identified as an REC and anticipated to be evaluated by ISGS through the coordination with IDOT. It is anticipated that H&H will not need to include Segment 4 within the SCOPE OF SERVICES.

COMPANY will task H&H to coordinate with up to three (3) CCDD facilities to establish a soil sampling program the CCDD facilities would find acceptable for disposal approval. H&H will provide a completed LPC-663 form with the applicable soil analytical data to COMPANY for inclusion in the contract documents. Additionally, COMPANY will coordinate with H&H to develop soil management plans and documentation for inclusion in the contract plans.

C. Wetland/Water Assessment Update

A wetland/water delineation was completed during Phase I in 2018. Wetland/water delineation reports generally have a five (5) year validity period for IDOT processing and use in Section 404 permitting through the US Army Corps of Engineers (USACE). However, permitting with LCSMC requires wetland reports to be no more than three (3) years old. As such, the IDOT NRR will need to be updated for the Segment 2 and Segment 3 Phase II design.

It is anticipated the wetland/water delineation that was completed in 2018 will need to be updated as part of the NRR update and for the permitting process, both Section 404 (USACE) and LCSMC. COMPANY will update the 2018 wetland/water delineation for Segments 2 and 3, including verifying the wetland boundaries with a field delineation and delineating and new wetlands/waters or areas not delineated in the 2018 report within the study area. The wetland/water assessment will use the methods described in 1987 Corps of Engineers Wetlands Delineation Manual and 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region. The report will also identify and record potential stream indicators such as ordinary high-water marks (OHWM), running water, water flow direction, absence of vegetation within wetlands, active sediment sorting, bank erosion, and bank filling.

For purposes of permitting, COMPANY will update the Wetland Impact Evaluation (WIE) forms to support the environmental clearance update process. Project plans will be used to identify the aquatic resource locations and the anticipated impacts. These will be submitted to IDOT for processing as part of the NRR process and will include wetland banking information provided by CLIENT.

D. Wetland and Water Resource Permitting

The Phase I evaluation included a LCSMC isolated wetlands boundary verification (IWBV) in 2018, which was valid for up to three (3) years. COMPANY will resubmit the application for an updated verification using the updated wetland/waters assessment to be performed as part of this SCOPE OF SERVICES.

Based on the previous wetland impact evaluation (WIE), there are two (2) wetland areas located within the project footprint (Segment 2 and Segment 3), with total impacts under 0.5 acres. It is anticipated that Section 404 Nationwide Permit (NWP) #14 for linear transportation projects will be applicable for Segments 2 and 3. This SCOPE OF SERVICES assumes that total jurisdictional waters impacts will remain below 0.5 acres per corridor crossing which is the threshold impact level for NWP #14.

COMPANY will complete and submit a permit application package to USACE that includes all the items on the permit checklist for Segment 2 and Segment 3. COMPANY will coordinate LCSMC for approval of the Soil Erosion and Sediment Control (SESC) Plan (developed under a separate task within this SCOPE OF SERVICES) as required by USACE for permit application approval. A separate Section 404 permit application will be prepared by COMPANY for Segment 1 and Segment 4 under a separate agreement. It is anticipated that a separate Section 401 Water Quality Certification will not be required as part of the Section 404 Joint Application to the USACE.

The project permitting will also require a Lake County Watershed Development Permit (WDP) for isolated waters of Lake County (IWLC) for Section 2 and Section 3. COMPANY will submit a WDP application to LCSMC for any isolated wetlands identified in updated IWBV.

It is assumed that mitigation for any wetland impacts will be addressed via wetland banking. Securing of the wetland bank credits will be coordinated and paid for directly by CLIENT and based on the impacts documented as part of the WIE process. Additionally, any permitting fees required by LCSMC or any other permitting agencies will be coordinated and paid for directly by CLIENT.

2.6 Structural Engineering

COMPANY will complete the analysis, design plans, and specifications for the following structural elements along the proposed Patriot Path alignment:

A. Interstate 94 (I-94) Tollway Crossing Pedestrian Bridge

A prefabricated pedestrian truss superstructure will be specified for the I-94 Tollway crossing. The proposed pedestrian bridge will consist of a two-span, steel through truss configuration with transverse framing limited to the bottom chord/deck elevation. The proposed bridge will be supported on open abutments with H-Pile foundations and a center hammer-head type pier located in the Tollway median, also supported on an H-Pile foundation. The following plans will be developed for the crossing:

1. A final Type, Size and Location (TS&L) drawing will be completed based on the concept TS&L that was developed during Phase I. The TS&L will be submitted to CLIENT, IDOT, and the Illinois State Toll Highway Authority (Tollway) for approval. Once approved, COMPANY will proceed with the development of structural plans and documents listed below for the crossing:
2. Bridge General Plan and Elevation;
3. General Notes and Bill of Materials (with quantities and pay items);
4. Bridge Foundation Layout;
5. Bridge Abutment Details (with Bill of Bars, quantities, and pay items consistent with an IDOT letting);
6. Bridge Pier Details (with Bill of Bars, quantities, and pay items consistent with an IDOT letting);
7. Tollway Barrier Details;
8. Bridge Drainage Details;
9. Pier Aesthetic Details;
10. Pile details and design lengths with factored and nominal capacity requirements; and

11. Structural Soil Boring Logs.

The use of COR-TEN (weathering) steel is a common material choice for its corrosion resistance. However, due to the proximity of the adjacent roadway and the likelihood of salt spray onto the pedestrian bridge, a protective paint coating will be recommended, regardless.

It is understood that a concrete deck capable of supporting the guide specified pedestrian live loads or up to a H-5 truck (10,000 lb. vehicle) is required.

COMPANY will obtain preliminary design reactions from an IDOT prequalified vendor, or a vendor of CLIENT's choosing, for the design of the foundation elements.

B. Soo Line Railroad Crossing Pedestrian Bridge

A prefabricated pedestrian truss superstructure will be specified for the Soo Line Railroad crossing. The proposed pedestrian bridge will consist of a single span, steel through truss configuration with transverse framing limited to the bottom chord/deck elevation. The proposed bridge will be supported on open abutments with H-Pile foundations. The following plans will be developed for the crossing:

1. A final Type, Size and Location (TS&L) drawing will be completed based on the concept TS&L that was developed during Phase I. The TS&L will be submitted to CLIENT, IDOT, and the Canadian Pacific (CP) Railway (parent company of the Soo Line Railroad) for approval. Once approved, COMPANY will proceed with the development of structural plans and documents listed below for the crossing:
2. Bridge General Plan and Elevation;
3. General Notes and Bill of Materials (with quantities and pay items);
4. Bridge Foundation Layout;
5. Bridge Abutment Details (with Bill of Bars, quantities, and pay items consistent with an IDOT letting);
6. Bridge Drainage Details;
7. Pile details and design lengths with factored and nominal capacity requirements; and
8. Structural Soil Boring Logs.

The use of COR-TEN (weathering) steel is a common material choice for its corrosion resistance. However, due to the proximity of the adjacent roadway and the likelihood of salt spray onto the pedestrian bridge, a protective paint coating will be recommended, regardless.

It is understood that a concrete deck capable of supporting the guide specified pedestrian live loads or up to a H-5 truck (10,000 lb. vehicle) is required.

COMPANY will obtain preliminary design reactions from an IDOT prequalified vendor, or a vendor of CLIENT's choosing, for the design of the foundation elements.

C. Cast-in-Place Concrete Retaining Wall

A cast-in-place, reinforced concrete T-Wall type retaining wall may be required east of US 41 to help limit fill in the existing wetlands. Assuming such a wall is necessary, COMPANY will complete the structural analysis and detailing sufficient to furnish the following plan sheets:

1. Retaining Wall General Plan and Elevation (T-Wall); 2 sheets
2. Retaining Wall General Notes and Bill of Materials (with quantities and pay items) (T-Wall); 1 sheet
3. Retaining Wall Foundation Layout and Footing Details (T-Wall); 2 sheets
4. Retaining Wall Details and Bill of Bars (T-Wall); 1 sheet, and
5. Retaining Wall Aesthetic Form Liner and Staining Details (T-Wall), 1 sheet.

It is assumed that the retained height of the wall will not meet or exceed seven (7) feet, and thus, a TS&L submittal will not be required.

Additional cast-in-place, reinforced concrete T-Walls may be required at the following locations:

1. West of the Skokie River to reduce the construction footprint. This wall type will be reviewed against ROW and other site constraints early in the design process to verify construction feasibility, or if a different wall type is better suited.
2. For the purposes of this SCOPE OF SERVICES, up to two (2) additional T-Wall locations will be assumed to be needed within Segments 2 and 3 with a total plan length of retaining wall estimated to be 800 feet, and it is assumed that all of the walls will retain less than seven (7) feet of soil. As such, a TS&L submittal will not be required for any of the retaining walls.

For the wall west of the Skokie River and up to two (2) additional wall locations assumed to be necessary, COMPANY will complete the structural analysis and detailing sufficient to furnish the following plan sheets:

1. Retaining Wall General Plan and Elevation (three (3) potential locations; height varies 1 to 5 feet); 3 sheets
2. Retaining Wall General Notes and Bill of Materials (with quantities and pay items); 3 sheets
3. Retaining Wall Foundation Layout and Footing Details (T-Wall); 3 sheets
4. Retaining Wall Details and Bill of Bars (T-Wall); 3 sheets, and
5. Retaining Wall Aesthetic Form Liner and Staining Details (T-Wall); 1 sheet
6. Structural Bicycle Railing Details will be required based on the Phase I design cross-sections. In general, it appears the retaining walls can be constructed next to the existing roadway pavement without temporary sheet pile or other designed temporary shoring. The proposed bike path will be supported on the high side of the wall. Therefore, a LCDOT ornamental bicycle railing will be added behind or on top of the wall, depending on the wall type selected. The railing may use vertical pickets in place of the wire mesh that is employed by the IDOT standard details, depending on CLIENT preference; (2 sheets).

D. Existing Culvert Crossings

In Segments 2 and 3, there are two (2) existing culvert crossing locations, including a 10'x5' box culvert conveying an unnamed tributary adjacent to the tollway and the Skokie River Crossing (2-10'x6' Box Culverts) east of US 41. The Skokie River Crossing may not require an extension. Instead, a combination of retaining wall (the potential wall location previously noted), grading, and a concrete slab will be used to construct the proposed path adjacent to the existing culvert. Pipe extensions and/or a drainage structure modification to accommodate the path construction may be needed. Structural details for the concrete slab modification at Skokie River and a drainage structure modification at the unnamed tributary are included in this SCOPE OF SERVICES.

- E. COMPANY will make up to two (2) submittals of the TS&Ls to CLIENT, IDOT, and the Tollway or CP (as applicable) for approval. Submittals for the structural design plans and specifications will be made at the preliminary (60%), pre-final (90%), and final (100%) milestones.

2.7 Drainage Design Calculations

COMPANY will perform the following calculations, which will be used in development the drainage plans for the project:

A. Final Inlet Spacing

The inlet capacity calculations will be completed to verify the depth in the swales above the storm sewer.

B. Proposed Culvert Design

COMPANY will design a culvert under the path at station 341+50. The culvert design will use hydrology from the ditch design and HY-8 for the culvert analysis. Bulletin #75 rainfall data will be used for the design.

C. Proposed Ditch Design

COMPANY will update the phase one ditch calculations completed using Bulletin #70 with Bulletin #75 rainfall data. The ditch sizing will be verified and the ditches regraded where necessary to contain the design storm event.

D. Storm Water Detention Analysis and Design

COMPANY will update the phase one calculations completed using Bulletin #70 with Bulletin #75 rainfall data and update the storm water detention volume required per IDOT requirements for the outlets in the corridor. The detention volumes will be provided for up to nine outlets using pipe or ditch storage. Five (5) outlet structures will be designed.

E. Water Quality Analysis and Design

COMPANY will evaluate and determine the water quality volume required for the five (5) detention basin outlets. The water quality volume will be provided in the ditches.

F. Compensatory Storage Analysis

COMPANY will prepare compensatory storage calculations for cut/fill in the floodplain/floodway at the Skokie River crossing. The calculations will be used to compare the cut of the site grading for balance with the proposed fill due to the path and the proposed structures. A grading plan to balance cut and fill will be provided for 0-10 and 10-100 WSE for the floodplain and floodway.

G. IDNR-OWR Floodway Permitting

COMPANY will coordinate the Part 3708 floodway permit with IDNR-OWR (Office of Water Resources) for the proposed culvert extension at the Skokie River. A joint application permit will be completed and submitted if necessary.

H. Drainage Field Checks

COMPANY will conduct four (4) field checks as needed at the site.

I. LCSMC Permitting

COMPANY will prepare the drainage and floodplain permit for LCSMC. The wetland permitting and soil erosion and sediment control plans will be incorporated into the permit for submittal to LCSMC. It is anticipated that one (1) LCSMC permit will be submitted for the combined areas of Segment 2 and Segment 3.

2.8 Preliminary (60%) Plan Preparation

COMPANY will develop preliminary (60%) plans for up to two (2) separate construction contracts (Segments 2 and 3) and submit to CLIENT and IDOT for review and comment. If requested by CLIENT, the plans may be combined into one (1) construction contract prior to the Preliminary (60%) submittal. The work to be performed by COMPANY as part of the preliminary (60%) plan development will consist of the following tasks:

A. Field Review

Preparation of materials for a field exam, participation in the field exam to review the existing conditions, take photographs, and assess if there have been any changes to the corridor since Phase I that might affect the design.

For the purposes of this SCOPE OF SERVICES, it is assumed that two (2) people from COMPANY will attend one (1) field exam.

B. Cover Sheet and General Information Sheets

Preliminary cover and general information sheets. The plans will be developed in two (2) separate sets for Segment 2 and Segment 3. The preliminary sheets will include the following: Index of Sheets, Index of Highway Standards, Index of CLIENT Standards, General Notes, Location Map, Project Number, Traffic Data, and Design Designation.

C. Alignment, Ties & Benchmarks

Reference ties (via northing and easting coordinates) to the plan control points and the benchmark data so this information can be preserved throughout construction of the project. Develop plan sheets at a scale of 1"=50' to display this information.

D. Typical Sections

Existing and proposed typical sections to be used for the proposed improvements as well as a preliminary determination of the limits that each typical section will apply.

E. Summary of Quantities

Preliminary determination/listing of the pay items to be included in the project.

F. Removal Plans

Develop existing condition and removal plan sheets at a scale of 1"=20'. These drawings will show existing features as identified during the topographic survey, private and municipal utility atlas information, and contract removal items for construction of the improvements.

G. Plan and Profiles for Path and Drainage

Prepare preliminary plan and profile drawings at a scale of 1"=20' horizontal and 1"=5' vertical. These drawings will show base mapping, existing public and private utility locations, proposed bike path, and existing roadway alignments. Plans will also include existing and proposed ROW, easements, and side streets. Intersecting angles and station equations between mainline path and side road reference lines will also be shown. Profiles will show existing ground and proposed path pavement elevations, ditch profiles, ditch elevations, vertical curve lengths and "K" values, and elevations for PVC, PVI, and PVT. If a two-span arrangement is selected for carrying the path over I-94, an additional plan and profile drawing will be included along I-94 to detail the work proposed within the existing Tollway median needed to install a center pier.

H. Suggested Maintenance of Traffic Plans

The construction staging and traffic control plans will include typical sections, general notes, and special provisions for through traffic and temporary access to adjacent properties during construction. The traffic control devices, procedures, and layouts shall be as per the BDE Manual and the MUTCD. It is anticipated that IDOT Highway Standards will be utilized for traffic control and protection for work along IL 137. Detailed

maintenance of traffic (MOT) plans will not be provided for work along IL 137 or intersecting side roads. However, if a two-span arrangement is selected for carrying the path over I-94, detailed MOT plans will be provided for traffic control on the Tollway as needed to accommodate the work proposed within the existing median needed to install a center pier.

I. Traffic Signal Modification Plans

Prepare traffic signal modification plans for a total of seven (7) intersection locations within Segments 2 and 3. The traffic signal plan sheets will consist of proposed traffic signal modification plans, cable plans, and traffic signal details. Impacts to the existing interconnect/communication (PASSAGE) infrastructure are not anticipated.

The traffic signal design will also include coordination with ComEd. Please note, no signal upgrades are anticipated based on Phase I coordination with IDOT. The signal plans are required for relocation of existing equipment to accommodate the proposed path. Temporary signals will be required wherever mast arms need to be relocated.

J. Lighting Plans

As a subconsultant to COMPANY, AEI will complete the lighting design, plans, and specifications as described in Section 2.4. COMPANY will incorporate the lighting plans and specifications into the overall contract documents and review for compatibility with the other design elements.

K. Miscellaneous Site Plans and Grading Plans

COMPANY will complete a removal plan, site plan, grading plan, restoration plan, and/or striping plan for miscellaneous areas that will be impacted by construction of the Patriot Path. For the purposes of this SCOPE OF SERVICES, it is assumed that up to two (2) miscellaneous site plans and/or grading plans will need to be developed for inclusion in the plans.

L. Erosion Control Plans

Develop a suitable plan for storm water pollution prevention measures to be implemented during construction. The plan will include provisions for the protection of adjacent properties and waterways during construction. The storm water pollution prevention devices, procedures, and layouts shall comply with LCSMC, IDOT, and Illinois Environmental Protection Agency (IEPA) requirements.

M. Intersection and Sidewalk Grading Plans

Provide identification of geometric plan view layouts for intersection plans, sidewalk ramps, and driveway entrances. The scale of these plan sheets will be 1"=10'.

Detailed grading (vertical) information will be added to these sheets at the pre-final (90%) plans. Please note, as part of Phase I, IDOT required these sheets at all State roadway crossings, which are not included herein. Additional detail work will be required

for the Phase II plans for local intersections. No further work is anticipated at IDOT intersections.

N. Cross Sections

Generate preliminary cross sections at 1"=10' horizontal and 1"=5' vertical scale at key locations for Segment 2 and Segment 3. Mainline and side road cross sections will generally be developed at culvert locations, driveway entrances, and at 50-foot intervals, depicting the finished grade line elevation.

2.9 Pre-Final (90%) Plan Preparation

Upon completion of the preliminary design and plan preparation, and receipt of CLIENT and IDOT review comments, COMPANY will prepare pre-final (90%) design plans for up to two (2) separate construction contracts (Segments 2 and 3). The work to be performed by COMPANY as part of the pre-final (90%) plan development will consist of the plan sheets identified in Section 2.8 above (revised per CLIENT and IDOT comment) and the additional plan sheets and tasks identified below:

A. Pavement Marking and Landscaping/Restoration Plans

Develop pavement marking and restoration (seeding, etc.) plans. The bike path and pavement markings shall be as per the MUTCD and CLIENT standards.

COMPANY will also develop detailed landscaping plans, planting schedules, and specifications for the installation of new trees within the project corridor to replace any trees removed by the proposed improvements, and/or develop aesthetic landscaping plans for impacted sites (i.e., private flower beds, public spaces, municipal properties, and/or if Abbott Labs or the Navy want landscaping incorporated into the areas along their property).

B. Schedule of Quantities

Develop a Schedule of Quantities for each project segment, non-lump sum, pay items will be tabulated. Each Schedule of Quantities will be placed onto a plan sheet meeting CLIENT standards.

C. Intersection and Sidewalk Grading Plans

Refine the geometric layouts of the intersections in accordance with the preliminary (60%) plan comments received from CLIENT and IDOT. This item also includes the identification of geometric layouts and elevation data for all non-typical pavement areas, such as corner islands. These plan sheets will also include detailed grading for ADA compliant sidewalk ramps, APS pushbuttons and driveway entrance areas at required locations/separation distances. The scale of these plan sheets will be 1"=10'.

D. Guardrail Details

Design and drafting of guardrail details for various locations throughout the corridor where the path is adjacent to the back of curb.

E. Miscellaneous Details

Design and drafting of miscellaneous details not included or addressed in other areas of the plans. These details could include items such as special grading, special storm sewer and/or manhole structures, special paving requirements, and other necessary details.

F. LCDOT Standards

COMPANY will compile the appropriate applicable LCDOT standards for inclusion in the plans.

G. Tabulation of Earthwork Quantities

This task consists of the calculation of earthwork volumes to identify the estimated earthwork volume for each proposed construction stage, which includes the tabulation of quantities and the development of plan sheets for the various earthwork pay items.

2.10 Final (100%) Plan Preparation

Upon completion of the pre-final design and plan preparation, and receipt of CLIENT and IDOT review comments, COMPANY will prepare final (100%) design plans for up to two (2) separate construction contracts (Segments 2 and 3). The work to be performed by COMPANY as part of the final (100%) plan development will consist of the plan sheets identified in Sections 2.8 and 2.9 above, revised per CLIENT and IDOT comments.

2.11 Project Specifications

COMPANY will prepare the contract special provisions and project specification manual. The document will include standard CLIENT Contract Specifications, as well as IDOT Supplemental, Recurring, BDE, BLR, District One, and project specific special provisions. The project specific special provisions will be written to cover any items not covered by the CLIENT Contract Specifications, the IDOT Standard Specifications for Road and Bridge Construction, or the other IDOT specifications/special provisions.

A Storm Water Pollution Prevention Plan (SWPPP) and Notice of Intent (NOI) for the project will be completed for each segment to comply with the requirements of the National Pollutant Discharge Elimination System (NPDES), established by the IEPA. The SWPPP and the NOI will be included with the project specifications.

Additional items to be prepared for inclusion with the project specifications include Tollway insurance requirements, railroad insurance requirements, and railroad right-of-entry permission and documentation. Tollway-specific special provisions may be required if a two-

span arrangement is selected for carrying the path over I-94 for the work proposed in the existing median needed to install a center pier.

Two (2) project specification submittals to CLIENT and IDOT are anticipated, one (1) each at the pre-final (90%) and final (100%) plan submittal stages.

2.12 Estimates

COMPANY will develop the following estimates for inclusion with the contract documents:

A. Construction Cost Estimates

Opinions of probable construction cost will be developed at the pre-final (90%) and final (100%) plan submittal stages so that CLIENT has the most current cost estimate. These costs will be determined using IDOT pay items and the latest historical unit prices available for the area. Two (2) sets of estimates will be completed, one (1) for Segment 2 and one (1) for Segment 3.

Two (2) estimate of cost submittals to CLIENT are anticipated, one (1) each at the pre-final (90%) and final (100%) plan submittal stages for each contract.

B. Estimates of Time

The estimate of time will be developed based upon pay items and quantities and will be used to develop the number of working days or completion date for each contract. Two (2) sets of estimates will be completed, one (1) for Segment 2 and one (1) for Segment 3.

Two (2) estimate of time submittals to CLIENT are anticipated, one (1) each at the pre-final (90%) and final (100%) plan submittal stages for each contract.

2.13 Utility Coordination (HBK Engineering, LLC)

As a subconsultant to COMPANY, HBK Engineering, LLC (HBK) will perform the utility coordination for the project. Because utility conflicts are likely to be a substantial challenge with respect to the design and construction of the proposed improvements, a separate Subsurface Utility Engineering (SUE) evaluation, including utility base mapping and utility coordination, 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 COMPANY and CLIENT 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 COMPANY 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 (4) 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 project limits as described above.

Utility Data Base Mapping

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 lines on base map will include identification indicating locating method used (Level B, Level D).

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 COMPANY upon request. HBK will prepare and maintain an IDOT special provision “Status of Utilities” document and provide to COMPANY 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 COMPANY. 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 COMPANY), if requested.
- SUE Level B designation and utility base mapping DOES NOT include sanitary or storm sewers.

2.14 Letting / Bidding Assistance

COMPANY will be available to answer questions from contractors prior to the IDOT letting and shall issue addenda as appropriate to interpret, clarify, or expand upon the bidding documents.

2.15 Project Coordination Meetings

Numerous coordination meetings will be required during the project. Anticipated meetings will be with CLIENT, IDOT, Tollway, Soo Line Railroad (CP Railway), UP Railroad, various local agencies, utilities, LCFPD, and LCSMC. COMPANY will coordinate the meeting times and locations with the attendees, provide required exhibits, and include preparation of meeting minutes. Meetings will be held in person or virtually, as appropriate. The number of coordination meetings and attendees are estimated below:

A. At CLIENT Office:

1. Project kickoff meeting, one (1) meeting;
2. LCSMC drainage meeting, one (1) meeting;
3. TS&L coordination meeting with Railroad(s), one (1) meeting;
4. Aesthetic design review meeting for pedestrian bridges and retaining walls, one (1) meeting;
5. Phase II design coordination meetings, two (2) meetings; and
6. Joint utility coordination meetings, two (2) meetings.

B. On-site:

1. Drainage coordination review meetings, four (4) meetings;
2. Wetland site review with LCSMC and/or USACE, one (1) meeting; and
3. Utility coordination review meetings, two (2) meetings.

C. At IDOT, District One:

1. Project kickoff meeting, one (1) meeting;
2. Land acquisition kickoff meeting, one (1) meeting;
3. TS&L coordination meeting, one (1) meeting; and
4. Final design review meeting, one (1) meeting.

D. At Tollway Headquarters:

1. Project kickoff meeting, one (1) meeting;
2. TS&L coordination meeting, one (1) meeting; and
3. Final design review meeting, one (1) meeting.

E. Local Agency Meetings:

1. Utility coordination review meetings, two (2) meetings; and
2. Plan review meetings, nine (9) meetings.

F. Meeting Requirements:

1. COMPANY will have two (2) representatives at meetings held at CLIENT office;
2. COMPANY will have one (1) representative at meetings held on-site;
3. COMPANY will have two (2) representatives at meetings held at IDOT, Tollway, and local agencies;
4. COMPANY will have one (1) representative at utility coordination meetings with utilities/municipalities;
5. COMPANY will prepare and distribute the meeting minutes for all meetings attended; and
6. Time is included to prepare materials in advance of the meeting and to travel to and from meetings held in-person and on-site.

2.16 Stakeholder Involvement

The stakeholder involvement process will consist of various agency coordination throughout the duration of the project. Additional coordination with the Tollway and Abbott will be required as part of Segment 2 and with the Navy/Department of Defense (DoD) as part of Segment 3 for the golf course property. Coordination with the Soo Line Railroad (CP Railway) will be required for the pedestrian overpass in Segment 2, and with the UP Railroad and the Illinois Commerce Commission (ICC) for the one (1) at-grade crossing in Segment 3. Two (2) ICC petitions will be prepared and filed as part of this coordination, one (1) for each location; and one (1) railroad crossing agreement will be prepared and submitted on behalf of CLIENT. COMPANY will also coordinate with CLIENT, IDOT, and various other stakeholders throughout the duration of the project.

2.17 Quality Assurance and Quality Control

Quality Assurance and Quality Control (QA/QC) will be provided in accordance with COMPANY's current Quality Manual (QM), which outlines processes for project planning, including design input, outputs, review and verification. The QM also outlines internal processes, such as standardization, internal project audits, selection/rating of subconsultants, and monitoring of deliverables.

COMPANY will perform the following reviews prior to each of the three (3) milestone submittals:

- A. Quality Control Check – Project Manager;
- B. Peer Review – Senior Engineer not involved with project on a daily basis; and
- C. Constructability Review – Construction Personnel.

2.18 Phase III Support

COMPANY will provide the following ongoing support efforts into the Phase III portion of the project:

- A. Two (2) representatives from COMPANY will attend the preconstruction meeting at IDOT, District One;
- B. Two (2) representatives from COMPANY will attend a total of four (4) field meetings to assist with questions that may arise during construction of the proposed improvements;

- C. COMPANY will assist with contractor questions related to the design of the proposed improvements that may arise throughout construction. For the purposes of this SCOPE OF SERVICES, up to 25 responses to contractor RFIs have been assumed.
- D. COMPANY will complete shop drawing reviews for various structural submittals, including the two (2) prefabricated truss bridges.

2.19 Administration

COMPANY will conduct general project administration throughout the duration of the project (up to 48 months), including management and oversight of the project team; periodic review of the project execution; document control; scope, schedule and budget monitoring; billing and invoicing; contract file management; and preparation of monthly progress reports.

3.0 Deliverables and Schedules Included in this SCOPE OF SERVICES

The following deliverables are included in this SCOPE OF SERVICES:

- A. Tree Survey Memorandum;
- B. Plat of Highways and legal descriptions for an assumed maximum number of 11 adjacent parcels of land;
- C. Maximum number of 11 land conveyance documents in order to complete the ROW/easement acquisition and obtain title approval for the properties;
- D. Geotechnical Report;
- E. Addendum ESR;
- F. Bridge/Structure Bat Assessment Form for up to two (2) structures;
- G. PESA response Form (BDE-2735);
- H. IEPA LPC-663 for CCDD Certification (for REC sites, to be signed by IDOT);
- I. IEPA LPC-663 for CCDD Certification (for non-REC sites, prepared by H&H); one for Section 2 and 3, and one for Section 1 and 4);
- J. Wetland Impact Evaluation (WIE) form (on-line submittal) and WIE exhibits;
- K. Wetland/Waters Assessment, including field delineation and report;
- L. LCSMC Isolated Wetland Boundary Verification (IWBV);
- M. USACE Permit Application (NWP #14) for Section 2 and Section 3;
- N. LCSMC WDP for Section 2 and Section 3;
- O. TS&L for I-94 Tollway Crossing;
- P. TS&L for Soo Line Railroad Crossing;
- Q. IDNR-OWR Joint Permit Application Submittal;
- R. LCSMC Permit Application;
- S. Preliminary (60%) Design Plans;
- T. Pre-Final (90%) Design Plans;
- U. Final (100%) Design Plans;
- V. Pre-Final and Final Project Specifications;
- W. Pre-Final and Final Construction Cost Estimates;
- X. Pre-Final and Final Estimates of Time;
- Y. Utility Coordination Log;
- Z. Meeting minutes of all meetings attended;
- AA. Two (2) ICC petitions and one (1) railroad crossing agreement;
- BB. Project text and exhibits for CLIENT and appropriate municipal website(s);

- CC. Final CADD files; and
- DD. Monument proposed ROW parcels with 5/8" steel bars with CLIENT ROW caps or other suitable markers.

This schedule was prepared to include reasonable allowances for review and approval times required by CLIENT and public authorities having jurisdiction over the project. This schedule shall be equitably adjusted as the project progresses, allowing for changes in the scope of the project requested by CLIENT or for delays or other causes beyond the control of COMPANY.

COMPANY shall complete the following phases of the project in accordance with the schedule shown below, assuming notice to proceed is issued by CLIENT in September 2024. If the actual notice to proceed is issued at a later date, the time of completion shall be extended accordingly. Upon receipt of notice to proceed, COMPANY will prepare a detailed project schedule and update it periodically as tasks are completed or as the overall schedule changes.

Preliminary (60%) Plans:	August 1, 2025
Pre-final (90%) Plans, Specifications & Cost Estimates:	March 27, 2026
Final (100%) Plans, Specifications & Cost Estimates:	June 8, 2026
Letting Phase (Target):	September 18, 2026
Construction Start	2027

4.0 Items not included in SCOPE OF SERVICES/Supplemental Services

The following items are not included as part of this SCOPE OF SERVICES:

- A. Condemnation Support;
- B. Irrigation Design;
- C. PESA and/or PSI Reports;
- D. LPC-662 Form;
- E. Coordination for Wetland Banking and/or Wetland Banking Fees;
- F. USACE Jurisdictional Determination;
- G. Section 404 Individual Permit Application;
- H. Section 401 Water Quality Certification;
- I. Conservation Plans and/or Incidental Take Authorization (ITA) application;
- J. Coordination with USFWS (Section 7 and/or Section 10);
- K. Section 4(f) or Section 106 Coordination or Documentation;
- L. Travel Demand Modeling;
- M. Trip Generation for estimating future trips with new development;
- N. Public Information Meeting (PIM);
- O. Railroad Design;
- P. Construction Layout;
- Q. Construction Engineering Services; and/or
- R. Interconnect/Communication (PASSAGE) impacts and/or plans.



Supplemental services not included in the SCOPE OF SERVICES can be provided by COMPANY under separate agreement, if desired.

5.0 Services by Others

- A. ROW acquisition services will be performed by HDR;
- B. Geotechnical soil borings, investigation, and report will be performed by Rubino;
- C. Lighting design will be performed by AEI;
- D. Utility coordination will be performed by HBK; and
- E. Regulated substances coordination and soil sampling will be performed by H&H.

6.0 Client Responsibilities

- A. Participate as needed in stakeholder involvement activities;
- B. Participate in project design reviews and provide written comments;
- C. Assist in coordination with County sister agencies;
- D. Provide available record drawings and other information on existing roadways and utilities as available or as can be procured;
- E. Coordinate and pay directly for any permitting fees required by LCSMC and all other permitting agencies, including the purchase of any wetland banking credits that may be required; and
- F. The UAV mission may include some overlap onto adjoining owners' property. COMPANY's FAA-certified remote pilot will monitor the flight path and adhere to FAA rules and regulations relating to unmanned aerial system flights. COMPANY is not responsible for contacting adjoining owners that may fall within this flight path. Notification of owners is at the discretion of CLIENT.

Sincerely,

HR GREEN, INC.

A handwritten signature in black ink, appearing to read 'Stephen R. Bicking'.

Stephen R. Bicking, PE, D.WRE, CFM
Senior Engineer - Transportation

J:\2024\2402787\Admin\Contract\Client\Final Submittal 081624\Patriot_Path_PH_II_Scoping_Document-081624.docx

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	HR Green, Inc.	Lake	24-00289-03-BT

**EXHIBIT B
PROJECT SCHEDULE**

See Project Schedule details in Exhibit B.

PROJECT SCHEDULE - EXHIBIT B

PROJECT: I-17 Patrol Path Phase 2 Engineering
 SECTION: 24-0208(04)-01
 CLIENT: Lake County DOT
 HR GREEN JOB NO: 2402787
 NOTICE TO PROCEED: September 10, 2024

Tasks	2024				2025				2026				2027				2028			
	August	September	October	November	December	January	February	March	April	May	June	July	August	September	October	November	December	January	February	March
Land Surveying (includes plats and legals)																				
ROW Acquisition (final documents due to District 1 July 31, 2025)																				
Geotechnical Investigation																				
Lighting																				
Permitting and Environmental Coordination																				
Structural Plans																				
Drainage Design Considerations																				
Utility Coordination																				
Preliminary Plans (submit to LCDOT August 1, 2025)**																				
Final Plans, Specifications and Estimates (due to District 1 BLR by March 27, 2026)																				
Final Plans, Specifications and Estimates (due by June 8, 2026)																				
Letting / Bidding Assistance (Letting September 18, 2026)																				
Project Coordination Meetings																				
Stakeholder Involvement																				
Quality Assurance and Quality Control																				
Phase II Support																				
Administration																				
Construction Start 2027																				

** As interim milestone to obtain LCDOT concurrence on the final geometry and ROW footprint is expected in August 2025. This would occur prior to finalizing the plans/legals and land acquisition tasks.

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	HR Green, Inc.	Lake	24-00289-03-BT

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

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

Form Not Applicable (engineering services less than the threshold)

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

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

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 type="checkbox"/>
6	Do the written QBS policies and procedures use covered methods of verification for suspension and debarment?	<input type="checkbox"/>	<input type="checkbox"/>
7	Do the written QBS policies and procedures discuss the methods of evaluation?	<input type="checkbox"/>	<input type="checkbox"/>
	Project Criteria	Weighting	

8	Do the written QBS policies and procedures discuss the method of selection?	<input type="checkbox"/>	<input type="checkbox"/>
---	---	--------------------------	--------------------------

Selection committee (titles) for this project

Top three consultants ranked for this project in order

1	<input type="text"/>
2	<input type="text"/>
3	<input type="text"/>

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



Local Public Agency Lake	County Lake	Section Number 24-00289-03-BT
Prime Consultant (Firm) Name HR Green, Inc.	Prepared By Stephen Bicking, PE	Date 8/16/2024
Consultant / Subconsultant Name HR Green, Inc.	Job Number 2402787	

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

Remarks
 Patriot Path - IL Route 137 Bike Path - Phase II Engineering
 Sage Court/Brookhaven Drive to Great Lakes Drive - Segments 2 and 3

PAYROLL ESCALATION TABLE

CONTRACT TERM	48	MONTHS			OVERHEAD RATE	181.10%
START DATE	9/1/2024				COMPLEXITY FACTOR	2.00%
RAISE DATE	4/1/2025				% OF RAISE	2.00%
END DATE	8/31/2028					

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	9/1/2024	4/1/2025	7	14.58%
1	4/2/2025	4/1/2026	12	25.50%
2	4/2/2026	4/1/2027	12	26.01%
3	4/2/2027	4/1/2028	12	26.53%
4	4/2/2028	9/1/2028	5	11.28%

The total escalation = 3.90%

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

Lake

Lake

24-00289-03-BT

Consultant / Subconsultant Name**Job Number**

HR Green, Inc.

2402787

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	3.90%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Regional Director	\$85.74	\$86.00
Senior Project Manager	\$79.82	\$82.93
Project Manager	\$61.75	\$64.16
Senior Engineer	\$76.35	\$79.33
Lead Environmental Planner	\$62.19	\$64.61
Staff Scientist II	\$31.33	\$32.55
Lead Engineer	\$59.54	\$61.86
Project Engineer II	\$51.83	\$53.85
Project Engineer I	\$44.74	\$46.48
Staff Engineer II	\$40.65	\$42.23
Staff Engineer I	\$35.24	\$36.61
Project Designer	\$51.42	\$53.42
Senior Design Technician	\$47.25	\$49.09
Design Tech II	\$35.39	\$36.77
Group Leader	\$79.61	\$82.71
Project Land Surveyor II	\$58.35	\$60.62
Staff Land Surveyor III	\$52.93	\$54.99
Staff Land Surveyor II	\$36.94	\$38.38
Construction Engineer II	\$43.57	\$45.27
Project Controls Analyst II	\$33.89	\$35.21
Project Controls Analyst I	\$32.50	\$33.77
Administrative Assistant II	\$26.54	\$27.57
Administrative Assistant I	\$22.00	\$22.86
Accounting Specialist II	\$33.11	\$34.40
Accounting Specialist I	\$29.41	\$30.56
Lead Landscape Architect	\$68.92	\$71.61
Staff Landscape Architect II	\$39.53	\$41.07

Local Public Agency	County	Section Number
Lake	Lake	24-00289-03-BT
Consultant / Subconsultant Name		Job Number
HR Green, Inc		2402787

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant
AMES Engineering, Inc.	15,786.00	1,578.60
HBK Engineering, LLC	14,480.00	1,448.00
HDR Engineering, Inc.	13,334.00	1,333.40
Rubino Engineering, Inc.	19,400.00	1,940.00
Huff & Huff, Inc. (GZA)	6,628.00	662.80
Total	69,628.00	6,962.80

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

Local Public Agency

Lake

County

Lake

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

HR Green, Inc.

Job Number

2402787

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	3584	\$0.67	\$2,401.28
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day			\$0.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost			\$0.00
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)	50	\$30.00	\$1,500.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)	46390.5	\$0.45	\$20,875.73
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)	30	\$7.50	\$225.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost	80	\$5.00	\$400.00
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	1	\$175.00	\$175.00
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)	1	\$500.00	\$500.00
Title Commitments	Actual Cost	11	\$900.00	\$9,900.00
IDNR-OWR Review/Permit Fee, hydraulic report print	Actual Cost	1	\$5,500.00	\$5,500.00
Railroad Flaggers and Licence Fee (CP & UP)	Actual Cost	2	\$1,945.00	\$3,890.00
Specs/Proposal Booklets	Actual Cost	42	\$10.00	\$420.00

TOTAL DIRECT COSTS: \$45,787.04

Local Public Agency

Lake

County

Lake

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

HR Green, Inc.

Job Number

2402787

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE 181.10%**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
2.01 - Land Surveying		540	27,883	50,496	9,201		87,580	4.95%
2.02 - ROW Acquisition		36	2,921	5,289	964	99,928	109,102	6.17%
2.03 - Geotechnical Investigation		36	2,921	5,289	964	98,252	107,426	6.07%
2.04 - Lighting		36	2,921	5,289	964	36,790	45,964	2.60%
2.05 - Permitting & Enviro Coord		424	25,720	46,579	8,488	74,971	155,758	8.81%
2.06 - Structural Engineering		1266	69,761	126,337	23,021		219,119	12.39%
2.07 - Drainage Design Calcs		288	14,817	26,833	4,890		46,540	2.63%
2.08 - 2.10 - Plan Preparation		2430	129,823	235,109	42,842		407,774	23.05%
2.11 - Project Specifications		160	12,464	22,572	4,113		39,149	2.21%
2.12 - Estimates		85	4,908	8,888	1,620		15,416	0.87%
2.13 - Utility Coordination		181	12,863	23,294	4,245	37,184	77,586	4.39%
2.14 - Letting/Bidding Assist (IDOT)		24	1,990	3,605	657		6,252	0.35%
2.15 - Project Coordination Meetings		266	21,162	38,325	6,984		66,471	3.76%
2.16 - Stakeholder Involvement		576	46,731	84,629	15,421		146,781	8.30%
2.17 - QA/QC		280	20,969	37,975	6,920		65,864	3.72%
2.18 - Phase III Support		178	12,871	23,309	4,247		40,427	2.29%
2.19 - Administration		384	25,070	45,402	8,273		78,745	4.45%
			-	-	-		-	-
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			-	-	-		-	-
Subconsultant DL							\$6,962.80	0.39%
Direct Costs Total ==>	\$0.00						\$45,787.01	2.59%
TOTALS		7190	435,795	789,220	143,814	347,125	1,768,704	100.00%

1,225,015

BLR 05514 (Rev. 02/09/23)

Local Public Agency

Lake

County

Lake

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

HR Green, Inc.

Job Number

2402787

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			2.01 - Land Surveying			2.02 - ROW Acquisition			2.03 - Geotechnical Investigation			2.04 - Lighting			2.05 - Permitting & Enviro Coord		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Regional Director	86.00	120.0	1.67%	1.44															
Senior Project Manager	82.93	1,310.0	18.22%	15.11				18	50.00%	41.47	18	50.00%	41.47	18	50.00%	41.47	160	37.74%	31.30
Project Manager	64.16	0.0																	
Senior Engineer	79.33	1,006.0	13.99%	11.10				18	50.00%	39.66	18	50.00%	39.66	18	50.00%	39.66	8	1.89%	1.50
Lead Environmental Planner	64.61	94.0	1.31%	0.84													88	20.75%	13.41
Staff Scientist II	32.55	76.0	1.06%	0.34													76	17.92%	5.83
Lead Engineer	61.86	787.0	10.95%	6.77															
Project Engineer II	53.85	0.0																	
Project Engineer I	46.48	0.0																	
Staff Engineer II	42.23	1,108.0	15.41%	6.51													50	11.79%	4.98
Staff Engineer I	36.61	193.0	2.68%	0.98															
Project Designer	53.42	916.0	12.74%	6.81															
Senior Design Technician	49.09	706.0	9.82%	4.82															
Design Tech II	36.77	42.0	0.58%	0.21													42	9.91%	3.64
Group Leader	82.71	20.0	0.28%	0.23	20	3.70%	3.06												
Project Land Surveyor II	60.62	140.0	1.95%	1.18	140	25.93%	15.72												
Staff Land Surveyor III	54.99	190.0	2.64%	1.45	190	35.19%	19.35												
Staff Land Surveyor II	38.38	190.0	2.64%	1.01	190	35.19%	13.50												
Construction Engineer II	45.27	60.0	0.83%	0.38															
Project Controls Analyst II	35.21	0.0																	
Project Controls Analyst I	33.77	0.0																	
Administrative Assistant II	27.57	0.0																	
Administrative Assistant I	22.86	0.0																	
Accounting Specialist II	34.40	120.0	1.67%	0.57															
Accounting Specialist I	30.56	0.0																	
Lead Landscape Architect	71.61	48.0	0.67%	0.48															
Staff Landscape Architect I	41.07	64.0	0.89%	0.37															
TOTALS		7190.0	100%	\$60.61	540.0	100.00%	\$51.63	36.0	100%	\$81.13	36.0	100%	\$81.13	36.0	100%	\$81.13	424.0	100%	\$60.66

Local Public Agency

Lake

County

Lake

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

HR Green, Inc.

Job Number

2402787

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 2 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	2.06 - Structural Engineering			2.07 - Drainage Design Calcs			2.08 - 2.10 - Plan Preparation			2.11 - Project Specifications			2.12 - Estimates			2.13 - 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
Regional Director	86.00																		
Senior Project Manager	82.93	10	0.79%	0.66				356	14.65%	12.15	120	75.00%	62.20	26	30.59%	25.37	112	61.88%	51.32
Project Manager	64.16																		
Senior Engineer	79.33	4	0.32%	0.25	48	16.67%	13.22	46	1.89%	1.50	8	5.00%	3.97	3	3.53%	2.80	1	0.55%	0.44
Lead Environmental Planner	64.61																		
Staff Scientist II	32.55																		
Lead Engineer	61.86	560	44.23%	27.36	88	30.56%	18.90	2	0.08%	0.05	24	15.00%	9.28	13	15.29%	9.46	4	2.21%	1.37
Project Engineer II	53.85																		
Project Engineer I	46.48																		
Staff Engineer II	42.23							1030	42.39%	17.90				24	28.24%	11.93	4	2.21%	0.93
Staff Engineer I	36.61				152	52.78%	19.32	16	0.66%	0.24				19	22.35%	8.18	6	3.31%	1.21
Project Designer	53.42							868	35.72%	19.08							48	26.52%	14.17
Senior Design Technician	49.09	692	54.66%	26.83							8	5.00%	2.45				6	3.31%	1.63
Design Tech II	36.77																		
Group Leader	82.71																		
Project Land Surveyor II	60.62																		
Staff Land Surveyor III	54.99																		
Staff Land Surveyor II	38.38																		
Construction Engineer II	45.27																		
Project Controls Analyst II	35.21																		
Project Controls Analyst I	33.77																		
Administrative Assistant II	27.57																		
Administrative Assistant I	22.86																		
Accounting Specialist II	34.40																		
Accounting Specialist I	30.56																		
Lead Landscape Architect	71.61							48	1.98%	1.41									
Staff Landscape Architect II	41.07							64	2.63%	1.08									
TOTALS		1266.0	100%	\$55.10	288.0	100%	\$51.45	2430.0	100%	\$53.43	160.0	100%	\$77.90	85.0	100%	\$57.74	181.0	100%	\$71.06

Local Public Agency

Lake

County

Lake

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

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AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 3 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	2.14 - Letting/Bidding Assist (IDOT)			2.15 - Project Coordination Meetings			2.16 - Stakeholder Involvement			2.17 - QA/QC			2.18 - Phase III Support			2.19 - Administration		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Regional Director	86.00										120	42.86%	36.86						
Senior Project Manager	82.93	24	100.00%	82.93	119	44.74%	37.10	288	50.00%	41.47				41	23.03%	19.10			
Project Manager	64.16																		
Senior Engineer	79.33				125	46.99%	37.28	288	50.00%	39.66	100	35.71%	28.33	57	32.02%	25.40	264	68.75%	54.54
Lead Environmental Planner	64.61				6	2.26%	1.46												
Staff Scientist II	32.55																		
Lead Engineer	61.86				16	6.02%	3.72							80	44.94%	27.80			
Project Engineer II	53.85																		
Project Engineer I	46.48																		
Staff Engineer II	42.23																		
Staff Engineer I	36.61																		
Project Designer	53.42																		
Senior Design Technician	49.09																		
Design Tech II	36.77																		
Group Leader	82.71																		
Project Land Surveyor II	60.62																		
Staff Land Surveyor III	54.99																		
Staff Land Surveyor II	38.38																		
Construction Engineer II	45.27										60	21.43%	9.70						
Project Controls Analyst II	35.21																		
Project Controls Analyst I	33.77																		
Administrative Assistant II	27.57																		
Administrative Assistant I	22.86																		
Accounting Specialist II	34.40																120	31.25%	10.75
Accounting Specialist I	30.56																		
Lead Landscape Architect	71.61																		
Staff Landscape Architect II	41.07																		
TOTALS		24.0	100%	\$82.93	266.0	100%	\$79.56	576.0	100%	\$81.13	280.0	100%	\$74.89	178.0	100%	\$72.31	384.0	100%	\$65.29

Work Breakdown Structure and Staff Hour Estimate

Patriot Path - Segments 2 and 3

Phase II

Lake County Division of Transportation

HR Green Project Number: 2402787

TASK	sheets	HRG	Ames	HBK	HDR	Rubino	Huff & Huff	TOTAL
2.01 - Land Surveying - Sub-Total	0	540	0	0	0	0	0	540
Supplemental Survey		220						
Tree Survey (> 3-inch dia.)		80						
Easement Plats and Legal Descriptions (Assumed 11 parcels)		240						
2.02 - ROW Acquisition - Sub-Total	36	0	0	288	0	0	0	324
HDR Coordination (Assumed 11 Parcels)	36							
Project Management					58			
Preliminary Work					20			
Negotiations					210			
2.03 - Geotechnical Investigation - Sub-Total	36	0	0	0	357	0	0	393
Rubino Coordination	36							
Geotechnical (setup/drilling/reporting)					357			
2.04 - Lighting - Sub-Total	36	265	0	0	0	0	0	301
AEI Coordination	36							
Lighting		245						
QA/QC		10						
Project Administration		10						
2.05 - Permitting and Environmental Coordination - Sub-Total	424	0	0	0	0	0	164	588
ESR Update and Addendum ESR - ESR Clearance Update (x2) and AESR	40							
ESR Update and Addendum ESR - Bridge/Structure Bat Assessment Forms (x2)	20							
Regulated Substances Coordination - PESA Response Form (based on updated PESA)	60							
Regulated Substances Coordination - Soil Sampling for NON-RECs (via Sub-ALL SEGMENTS)	40							
Regulated Substances Coordination - LPC 663 Coord; Soil Management Approach Into Plans	20							
Wetland/Water Assessment Update - Redelineation and Report	60							
Wetland/Water Assessment Update - Wetland Impact Evaluation Forms and Exhibits	24							
Wetland and Water Resource Permitting - Lake County SMC JD Coordination	20							
Wetland and Water Resource Permitting - Section 404 Permit Application (Seg 2 and 3)	90							
Wetland and Water Resource Permitting - Lake County WDP Application (Seg 2 and 3)	50							
CCDD Assessment & LPC663							164	
2.06 - Structural Engineering - Sub-Total	77	1266						1266
Interstate 94 Tollway Crossing Pedestrian Bridge		0						
Final TS&L, I-94 Crossing (30 hours per sheet)	3	90						
GP&E, I-94 Crossing (12 hours per sheet)	2	24						
Bridge General Notes & BOM, I-94 Crossing (20 hours per sheet)	1	20						
Bridge Foundation Layout, I-94 Crossing (30 hours per sheet)	1	30						
Bridge Abutment Plan and Elevations, I-94 Crossing (25 hours per sheet)	2	50						
Bridge Abutment Details & Bill of Bars, I-94 Crossing (25 hours per sheet)	2	50						
Bridge Pier Details & Bill of Bars, I-94 Crossing (35 hours per sheet)	1	35						
Tollway Barrier Details & Bill of Bars at Pier, I-94 Crossing (35 hours per sheet)	1	35						
Bridge Drainage Details, I-94 Crossing (20 hours per sheet)	2	40						
Pier Aesthetic Details, I-94 Crossing (16 hours per sheet)	1	16						
Piling Details, I-94 Crossing (6 hours per sheet)	1	6						
Soil Boring Logs, I-94 Crossing (2 hours per sheet)	1	2						
Soo Line Railroad Crossing Pedestrian Bridge		0						
Final TS&L, Soo Line R.R. Crossing (30 hours per sheet)	2	60						
GP&E, Soo Line R.R. Crossing (12 hours per sheet)	1	12						
Bridge General Notes & BOM, Soo Line R.R. Crossing (20 hours per sheet)	1	20						
Bridge Foundation Layout, Soo Line R.R. Crossing (30 hours per sheet)	1	30						
Bridge Abutment Plan and Elevations, Soo Line R.R. Crossing (25 hours per sheet)	2	50						
Bridge Abutment Details & Bill of Bars, Soo Line R.R. Crossing (25 hours per sheet)	2	50						
Bridge Drainage Details, Soo Line R.R. Crossing (20 hours per sheet)	2	40						
Piling Details, Soo Line R.R. Crossing (6 hours per sheet)	1	6						
Soil Boring Logs, Soo Line R.R. Crossing (2 hours per sheet)	1	2						
Retaining Wall Location No. 1, T-Wall, East of Soo Line R.R. (Taller than 7')		0						
TS&L, Submittal for Retaining Wall No. 1 (20 hours per sheet)	4	77						
GP&E for Retaining Wall No. 1 (10 hours per sheet)	4	40						
General Notes and Bill of Material for Retaining Wall No. 1 (16 hours per sheet)	1	16						
Foundation Plan Retaining Wall No. 1 (15 hours per sheet)	3	45						
Retaining Wall No. 1 Details and Bill of Bars (30 hours per sheet)	2	60						
Retaining Wall No. 1 Aesthetic Details (8 hours per sheet)	1	8						
Retaining Wall No. 1, Bicycle Railing Details (16 hours per sheet)	1	16						
Soil Boring Logs (2 hours per sheet)	1	2						
Retaining Wall Location No. 2, T-Wall (Abbott Park Rd. to Waukegan Road, less than 4' tall)		0						
GP&E for Retaining Wall No. 2 (20 hours per sheet)	3	60						
General Notes and Bill of Material for Retaining Wall No. 2 (8 hours per sheet)	1	8						
Foundation Plan Retaining Wall No. 2 (10 hours per sheet)	3	30						
Retaining Wall No. 2 Details and Bill of Bars (20 hours per sheet)	1	20						
Retaining Wall No. 2 Aesthetic Details (4 hours per sheet)	1	4						
Retaining Wall No. 2, Bicycle Railing Details (10 hours per sheet)	1	10						
Soil Boring Logs (2 hours per sheet)	1	2						
Retaining Wall Location No. 3, T-Wall (Waukegan Road, to Skokie Hwy., less than 4' tall)		0						
GP&E for Retaining Wall No. 3 (20 hours per sheet)	1	20						
General Notes and Bill of Material for Retaining Wall No. 3 (8 hours per sheet)	1	8						
Foundation Plan Retaining Wall No. 3 (12 hours per sheet)	1	12						
Retaining Wall No. 3 Details and Bill of Bars (16 hours per sheet)	1	16						
Retaining Wall No. 3 Aesthetic Details (4 hours per sheet)	1	4						
Retaining Wall No. 3, Bicycle Railing Details (10 hours per sheet)	1	10						
Soil Boring Logs (2 hours per sheet)	1	2						
Retaining Wall Location No. 4, T-Wall (Skokie Hwy. to end of Segment 3, less than 4' tall)		0						
GP&E for Retaining Wall No. 4 (20 hours per sheet)	1	20						
General Notes and Bill of Material for Retaining Wall No. 4 (8 hours per sheet)	1	8						
Foundation Plan Retaining Wall No. 4 (12 hours per sheet)	1	12						
Retaining Wall No. 4 Details and Bill of Bars (16 hours per sheet)	1	16						
Retaining Wall No. 4 Aesthetic Details (4 hours per sheet)	1	4						
Retaining Wall No. 4, Bicycle Railing Details (10 hours per sheet)	1	10						
Soil Boring Logs (2 hours per sheet)	1	2						
Culvert Modification - Location 1 (Skokie River)	1	21						
Drainage Structure Modification - Location 2 (Unnamed Trib at I-94)	2	25						
Soil Boring Logs (2 hours per sheet)	1	2						
Tollway and IDOT Standard Detail Sheets		8						

2.07 - Drainage Design Calculations - Sub-Total		288						288
Final Inlet Capacity		28						
Proposed Culvert Design		16						
Proposed Ditch Design		28						
Stormwater Detention Analysis and Design - 5 outlets		40						
Water Quality Analysis and Design - 5 outlets		40						
Compensatory Storage Analysis - Skokie River		32						
IDNR-OWR Floodway Permitting		32						
Drainage Field Checks (4 @ 4 hours, 2 persons)		32						
LCSMC Permit submittal (floodplain and SESS, incorporating wetland information from 2.5)		40						
2.08, 2.09, 2.10 - Prelim, Pre-Final & Final Plan Preparation - Sub-Total	228	2430						2430
Plan-in-Hand Field Review		16						
Cover Sheet - 6 hrs/sheet - 2 segments	2	12						
Index of Sheets / List of Highway Standards - 10 hrs/sheet - 2 segments	2	20						
General Notes - 16 hrs/sheet - 2 segments	2	32						
Summary of Quantities - 3 submittals - 8 hrs/sheet - 4 sheets/segment - 2 segments**	8	192						
Typical Sections - 4 hrs/typical x 6 typicals Segment 2	3	24						
Typical Sections - 4 hrs/typical x 8 typicals Segment 3	4	32						
Structural / Culvert Schedule / Storm Sewer Schedule - 10 hrs/sheet - 2 segments	4	40						
Earthwork Schedule - 20 hrs/sheet - 2 segments	2	40						
Alignments, Ties and Benchmarks (Double Pane @ 1" = 50') - 8 hrs/sheet	4	32						
Removal Plans (Double Pane @ 1" = 20') - 6 hrs/sheet	11	66						
Path, Drainage and Utilities PnPs (1" = 20') - 12 hrs/sht - Segment 2	9	108						
Path, Drainage and Utilities PnPs (1" = 20') - 12 hrs/sht - Segment 3	11	132						
Guardrail Plan and Details (1" = 10') - 24 hrs/sheet - 3 locations	1	24						
Splitter Island Details (1" = 10') - 16 hrs/sheet - 3 islands - 4 islands/sheet	1	16						
Suggested Maintenance of Traffic - General Notes - 8 hrs/sheet - 2 segments	2	16						
Suggested Maintenance of Traffic - Typical Sections - 8 hrs/sheet - 2 segments	2	16						
Suggested Maintenance of Traffic - Plans (Double Pane @ 1" = 20') - 30 hrs/sheet - Segment 2 (I-94)	2	60						
Landscaping Plans (Double Pane @ 1" = 20') - 4 hrs/sheet	10	100						
Landscaping Details (Village signs, brick pavers, etc.) - 8 hrs/sheet	3	24						
Misc. Site Plans - Removal Plan, Site Plan, Restoration Plan and Striping Plan	2	40						
Compensatory Storage Grading Plans - 2 locations at 20 hours/location	2	40						
Erosion Control Plans (Double Pane @ 1" = 20') - 6 hrs/sheet	11	66						
Curb Ramp Elevation Plans (1"=10') - 2 hrs/ramp, 4 ramps/sheet - 12 Segment 2, 8 Segment 3	5	40						
Pavement Marking & Restoration Plans (Double Pane @ 1" = 20') - 4 hrs/sheet	11	44						
Miscellaneous Details (Hydrants, Drainage Structures, Fencing, Striping/Signage, etc.) - 4 hrs/sheet	8	32						
LCDOT Standards - 2 hrs/sheet	12	24						
Cross Sections - Segment 2 (170) - 2 hrs/xsec	34	340						
Cross-Sections - Segment 3 (210) - 2 hrs/xsec	42	420						
Lighting Sheets - 8 hrs/sheet	4	32						
Traffic Signal Modification Plans (7 intersections) 50 hrs/intersection, 2 sheets per intersection	14	350						
2.11 - Project Specifications - Sub-Total		160						160
Pre-Final & Final Special Provisions - Structural		40						
Pre-Final Special Provisions - Roadway & Drainage		40						
Final Special Provisions - Roadway & Drainage		40						
SWPPP and Notice of Intent - 2 segments		40						
2.12 - Estimates - Sub-Total		85						85
Pre-Final Engineer's Opinion of Probable Cost - 2 contracts		30						
Final Engineer's Opinion of Probable Cost - 2 contracts		30						
Pre-Final Estimate of Time - 2 contracts		12						
Final Estimate of Time - 2 contracts		13						
2.13 - Utility Coordination - Sub-Total		181	383					564
Prelim, Pre-Final & Final Plan Coordination (3 submittals @ 8 hours each)		25						
Utility Atlas Base Drawings (6 Utilities @ 8 hours per Atlas)		48						
Utility Coordination Log (2 hr/util coord mtg @ 6 meetings)		12						
Initial Coordination and Data Collection			22					
Utility Designation and Survey - Locating			168					
Utility Data Base Mapping - QA/QC			52					
Utility Inventory and Conflict Analysis			49					
Utility Coordination			92					
General Coordination & Utility Requests for Information (48 mo @ 2 hrs/mo)		96						
2.14 - Letting / Bidding Assistance (LCDOT) - Sub-Total		24						24
Requests for Information (24 hrs allotted)		24						
2.15 - Project Coordination Meetings - Sub-Total		266						266
Project Kickoff Meeting at CLIENT (1 @ 2 hours, 2 persons)		4						
Project Kickoff and Final Design Review Meeting at IDOT (2 @ 2 hours, 2 persons)		8						
Project Kickoff and Final Design Review Meeting at TOLLWAY (2 @ 2 hours, 2 persons)		8						
Utility Coordination Meetings at CLIENT (2 @ 2 hours, 2 persons)		8						
Utility Coordination Review Meetings at SITE (2 @ 2 hours, 1 persons)		4						
Utility Coordination Meetings with Utilities/Municipalities (2 @ 2 hours, 1 persons)		4						
Land Acq Kickoff Meeting at IDOT (1 @ 2 hours, 2 persons)		4						
Aesthetic Design Review Meeting at CLIENT (1 @ 2 hours, 2 persons)		4						
Phase II Design Coordination Meetings at CLIENT (2 @ 2 hours, 2 persons)		8						
TS&L Coordination Meetings with Tollway, RR and IDOT (1 each = 3 @ 2 hours, 2 person)		12						
LCSMC Drainage Meeting at CLIENT (1 @ 2 hours, 2 persons)		4						
Drainage Coordination Meetings at SITE (4 @ 2 hours, 1 persons)		8						
LCSMC Wetlands Meeting at SITE (1 @ 4 hours, 1 persons)		4						
Local Agency Meetings (9 @ 3 hours, 2 persons)		54						
Meeting Preparation (33 @ 2 hours)		66						
Meeting Minutes (33 @ 2 hours)		66						
2.16 - Stakeholder Involvement - Sub-Total		576						576
Coordination with Navy, Tollway, ICC, RRs, LCFPD, Abbott, Additional Agencies (48 mo @ 12 hrs/mo)		576						
2.17 - Quality Assurance and Quality Control - Sub-Total		280						280
QA/QC - Structural		40						
QA/QC - Roadway		120						
QA/QC - Drainage		60						
Constructability Review		60						
2.18 - Phase III Support - Sub-Total	0	178						178
Preconstruction Meeting (1 @ 4 hours, 2 persons)		8						
Field Meetings (4 @ 3 hours, 2 persons)		24						
Requests for Information (25 maximum @ 2 hours)		50						
Shop Drawings Review		96						
2.19 - Administration - Sub-Total	0	384						384
Prepare and Update Project Work Plan/Schedule (2 hours per month)		96						
Budget, Cost Control and Tracking (2 hours per month)		96						
Invoicing and Billing (3 hours per month)		144						
Monthly Progress Reports (1 hours per month)		48						
Total	305	7190	265	383	288	357	164	8647

EXHIBIT E - Subconsultant Services



Project: Patriot Path – IL 137
Des Plaines River Trail to Robert McClory Bike Path
Lake County
AEI Ref. # 2024-10

July 2, 2024

Ames Engineering, Inc. (AEI) will be the sub-consultant to HR Green to provide lighting PS&E and to provide CADD services for the above project.

Scope of Work – Lighting

Ames Engineering, Inc. (AEI) scope of services consists of providing lighting plans for the relocation of existing lighting along IL 137 as impacted by the construction of the Patriot Path on the north and south sides of IL 137. In segment 2 the lighting to be relocated includes IDOT light poles at the I-94 interchange and east of the interchange to Waukegan Rd. In segment 3 the lighting to be relocated is IDOT roadway lighting from Waukegan Rd. (IL 43) to ¼ mile west of Skokie Hwy (US 41). There are also a couple of IDOT light poles west of Great Lakes Dr. at the end of segment 3 which will likely need to be relocated. The work will consist of the following items:

1. Providing General Notes, Legend and Schedule of Quantities
2. Provide proposed lighting plans
3. Wiring Diagram/Load table
4. Electrical Detail sheets
5. Photometric Calculations
6. Special Provisions
7. Voltage Drop Calculations
8. Field visit
9. Engineers Cost Estimate
10. QA/QC
11. Project management and administration

Items not included in scope:

1. Any items outside the scope of work and project limits as shown above.
2. Additional hours will be required if changes to geometry are made after the final plan submittal.

Items to be furnished to AEI:

1. Base sheets in dgn format.
2. All underground utilities (dgn format).
3. Electronic files (dgn format) of proposed roadway geometry, alignment shall be provided by the Prime.
4. Existing Lighting Plans

Project: Patriot Path – IL 137
Des Plaines River Trail to Robert McClory Bike Path
Lake County
AEI Ref. # 2024-10

July 2, 2024

Manhour Estimate - Lighting

Item	Task	Hours
1.	Providing General Notes, Legend and Schedule of Quantities (1sheet)	8
2.	Provide Proposed Lighting Plan (6 sheets @ 32 hrs/sheet) = 144 hrs	192
3.	Wiring Diagram/Load Table (1 sheet @ 8 hrs/sheet) = 8 hrs	8
4.	Electrical Detail sheets (3 sheets @ 1hr /sheet)	3
5.	Photometric Calculations (segment 2-roadway, intersection (IL 43) segment 3-roadway)	12
6.	Special Provisions	6
7.	Voltage Drop Calculations	4
8.	Field Visit (1 field trip 2 persons @ 4 hrs/trip=8 hrs)	8
9.	Engineer's Cost Estimate	4
10.	QA/QC	10
11.	Project management and administration	10
Total		265

Direct Cost Estimate – Lighting

Travel:

Field Check: 1 trip @ \$65/day=\$65 65.00

In-House Miscellaneous:

100 CADD Hrs: x \$10/hr= \$1000 \$ 1000.00

TOTAL \$ 1065.00



Local Public Agency Lake County Division of Transportation	County Lake County	Section Number 24-00289-03-BT
Prime Consultant (Firm) Name HR Green, Inc.	Prepared By Joan Somer	Date 8/15/2024
Consultant / Subconsultant Name AMES Engineering, Inc.	Job Number 2402787	

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	48	MONTHS	OVERHEAD RATE	96.79%
START DATE	9/1/2024		COMPLEXITY FACTOR	0
RAISE DATE	1/1/2025		% OF RAISE	2.00%
END DATE	8/31/2028			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	9/1/2024	1/1/2025	4	8.33%
1	1/2/2025	1/1/2026	12	25.50%
2	1/2/2026	1/1/2027	12	26.01%
3	1/2/2027	1/1/2028	12	26.53%
4	1/2/2028	9/1/2028	8	18.04%

Local Public Agency Lake County Division of Transportation	County Lake County	Section Number 24-00289-03-BT
Consultant / Subconsultant Name AMES Engineering, Inc.	Job Number 2402787	

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	4.41%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Sr Electrical Engineer	\$66.30	\$69.23
Project Engineer	\$61.44	\$64.15
CADD Technician	\$41.75	\$43.59

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake County	24-00289-03-BT
Consultant / Subconsultant Name		Job Number
AMES Engineering, Inc.		2402787

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant
Total	0.00	0.00

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

Local Public Agency

Lake County Division of Transportation

County

Lake County

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

AMES Engineering, Inc.

Job Number

2402787

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	1	\$65.00	\$65.00
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)	100	\$10.00	\$1,000.00
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
				\$0.00
TOTAL DIRECT COSTS:				\$1,065.00

Local Public Agency

Lake County Division of Transportation

County

Lake County

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

AMES Engineering, Inc.

Job Number

2402787

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE 96.79%

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
Lighting		245	14,402	13,940	4,251		32,593	88.59%
QC/QA		10	692	670	204		1,566	4.26%
Project Management/Admin		10	692	670	204		1,566	4.26%
Subconsultant DL							-\$0.15	0.00%
Direct Costs Total ==>	\$0.00						\$1,065.00	2.89%
TOTALS		265	15,786	15,280	4,659	-	36,790	100.00%

31,066

BLR 05514 (Rev. 02/09/23)

Local Public Agency

Lake County Division of Transportation

County

Lake County

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

AMES Engineering, Inc.

Job Number

2402787

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			Lighting			QC/QA			Project Management/Admin								
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Sr Electrical Engineer	69.23	85.0	32.08%	22.20	65	26.53%	18.37	10	100.00%	69.23	10	100.00%	69.23						
Project Engineer	64.15	100.0	37.74%	24.21	100	40.82%	26.18												
CADD Technician	43.59	80.0	30.19%	13.16	80	32.65%	14.23												
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TOTALS		265.0	100%	\$59.57	245.0	100.00%	\$58.79	10.0	100%	\$69.23	10.0	100%	\$69.23	0.0	0%	\$0.00	0.0	0%	\$0.00

LCDOT Patriot Path Segment 2 & 3 SUE & Utility Coordination Scope of Services Lake County, Illinois

At the request of HR Green (Consultant), **HBK Engineering, LLC (HBK)** has prepared a scope of services for utility coordination, design and conflict review, and logging of specifications of existing facilities for LCDOT Patriot Path Segment 2 & 3 improvements in Lake County, Illinois.

Project Limits

The project limits and all work will occur in and regarding the project area along Buckley Road (IL Route 137) as described below (see attached exhibit):

Project Area:

- Along Buckley Road (half ROW only except where planned crossings exist) from 100' west of west ROW line Sage Ct. to 100' east of the east ROW line of US Route 41 including:
 - o Along all side streets and exit ramps for 25' north and south of the ROW lines of Buckley Road as appropriate

All work for this project will be completed by HBK as a subconsultant to HR Green.

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 base mapping and utility coordination, 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 Lake County DOT 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 project limits as described above.

Utility Data Base Mapping

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 lines on base map will include identification indicating locating method used (Level B, Level D).

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.
- SUE Level B designation and utility base mapping DOES NOT include sanitary or storm sewers.

End of Document



Local Public Agency Lake County DOT	County Lake	Section Number 24-00289-03-BT
Prime Consultant (Firm) Name HR Green	Prepared By Mark F. Moen	Date 7/8/2024
Consultant / Subconsultant Name HBK Engineering, LLC	Job Number 	

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

Remarks
 Patriot Path – IL Route 137 Bike Path
 Sage Court/Brookhaven Drive to Great Lakes Drive – Segments 2 and 3

PAYROLL ESCALATION TABLE

CONTRACT TERM	48	MONTHS	OVERHEAD RATE	115.17%
START DATE	9/1/2024		COMPLEXITY FACTOR	0
RAISE DATE	1/1/2025		% OF RAISE	2.00%
END DATE	8/31/2028			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	9/1/2024	1/1/2025	4	8.33%
1	1/2/2025	1/1/2026	12	25.50%
2	1/2/2026	1/1/2027	12	26.01%
3	1/2/2027	1/1/2028	12	26.53%
4	1/2/2028	9/1/2028	8	18.04%

Local Public Agency

County

Section Number

Lake County DOT

Lake

24-00289-03-BT

Consultant / Subconsultant Name

Job Number

HBK Engineering, LLC

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	4.41%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
PRINCIPAL	\$84.43	\$86.00
SENIOR PROJECT MANAGER	\$59.24	\$61.85
PROJECT MANAGER	\$47.58	\$49.68
SENIOR ENGINEER	\$51.83	\$54.12
ENGINEER	\$41.84	\$43.69
LOCATOR 3	\$27.40	\$28.61
LOCATOR 2	\$23.45	\$24.49

Local Public Agency

Lake County DOT

County

Lake

Section Number

24-00289-03-BT

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	500	\$0.67	\$335.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day	15	\$65.00	\$975.00
Vehicle Rental	Actual Cost (Up to \$55/day)		\$55.00	\$0.00
Tolls	Actual Cost	30	\$1.50	\$45.00
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)		\$150.00	\$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)		\$100.00	\$0.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utlility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost			\$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
TOTAL DIRECT COSTS:				\$1,355.00

Local Public Agency

Lake County DOT

County

Lake

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

HBK Engineering, LLC

Job Number

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
Initial Coordination/Data Collection		22	1,054	1,214	340		2,608	7.01%
Utility Designation and Survey - Locat	1,275	168	4,609	5,308	1,488		11,405	30.67%
Utility Data Base Mapping - QA/QC		52	2,452	2,824	791		6,067	16.32%
Utility Inventory and Conflict Analysis		49	2,225	2,562	718		5,505	14.80%
Utility Coordination	80	92	4,140	4,768	1,336		10,244	27.55%
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Subconsultant DL							\$0.00	
Direct Costs Total ==>	\$1,355.00						\$1,355.00	3.64%
TOTALS		383	14,480	16,676	4,673	-	37,184	100.00%

Local Public Agency

Lake County DOT

County

Lake

Section Number

24-00289-03-BT

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 - Locating			Utility Data Base Mapping - QA/QC			Utility Inventory and 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
PRINCIPAL	86.00	3.0	0.78%	0.67	1	4.55%	3.91				2	3.85%	3.31						
SENIOR PROJECT MANA	61.85	6.0	1.57%	0.97	1	4.55%	2.81							1	2.04%	1.26	4	4.35%	2.69
PROJECT MANAGER	49.68	18.0	4.70%	2.33	2	9.09%	4.52	2	1.19%	0.59	2	3.85%	1.91	4	8.16%	4.06	8	8.70%	4.32
SENIOR ENGINEER	54.12	14.0	3.66%	1.98	2	9.09%	4.92				8	15.38%	8.33	4	8.16%	4.42			
ENGINEER	43.69	182.0	47.52%	20.76	16	72.73%	31.77	6	3.57%	1.56	40	76.92%	33.61	40	81.63%	35.66	80	86.96%	37.99
LOCATOR 3	28.61	80.0	20.89%	5.98	0			80	47.62%	13.62									
LOCATOR 2	24.49	80.0	20.89%	5.11	0			80	47.62%	11.66									
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TOTALS		383.0	100%	\$37.81	22.0	100.00%	\$47.93	168.0	100%	\$27.43	52.0	100%	\$47.15	49.0	100%	\$45.40	92.0	100%	\$45.00

**LAKE COUNTY DIVISION OF TRANSPORTATION
IL-137 PATRIOT PATH PROJECT
SCOPE OF SERVICES FOR SEGMENTS 2 AND 3
JULY 11, 2024**

PART 1.0 LAND ACQUISITION SERVICES

HDR's land acquisition services, responsibilities, and deliverables will consist of the following:

1. Manage HDR's contracted subconsultants, including:
 - a) Ordering and monitoring delivery of (11) new appraisal reports from Triple D Valuation Services, Inc. for segments 2 and 3.
 - b) Ordering and monitoring delivery of (11) new appraisal review reports from Civiltech Engineering, Inc. for segments 2 and 3.
 - c) Prepare (1) cost estimates by Civiltech Engineering, Inc for segments 2 and 3.
2. Participate in (1) kick off meeting and conduct virtual meetings with COMPANY (HR Green) and/or the CLIENT (LCDOT) to discuss project related items.
3. Provide land acquisition report that details status of each parcel. The report will be provided on a weekly basis or upon request from COMPANY.
4. Review plat of highway other right of way exhibits, title commitments and appraisal reports for each impacted parcel in segments 2 and 3 prior to negotiation activities.
5. Prepare offer packages for up to (11) parcels in segments 2 and 3. Offer packages will be sent to property owners via regular and certified mail.
6. Conduct quality reviews on each offer package.
7. Conduct negotiations with property owners in segments 2 and 3 to reach a negotiated settlement. This includes any in-person meetings with property owners to explain offer package and impacts to property and follow up due diligence either by phone, email or through virtual meetings, until a settlement is reached, and conveyance documents signed and notarized.
8. Conduct quality reviews on conveyance documents.
9. Upon successful negotiations, HDR will submit the completed parcel file to COMPANY with original signed conveyance documents, the Negotiator's report documenting all negotiation activities, and all other documentation as required.
10. Prepare administrative settlements, as necessary. Administrative Settlements will be provided to the CLIENT ROW agent for review.
11. If negotiations are not successful, HDR will submit the parcel file along with all necessary documentation to COMPANY with a recommendation to acquire the parcel through condemnation. The Negotiator will attend any pre-trial meetings and provide expert witness testimony, as necessary.

12. Since project is receiving federal funding, the parcels will go through the Illinois Department of Transportation (IDOT) parcel certification process.
13. Prepare parcel certification checklists for each parcel in segments 2 and 3.
14. Project close out.

PART 2.0 SUBCONSULTANTS

The proposed Subconsultants have provided fees associated with their respective service. HDR understands that it will contract directly with the Subconsultants for appraisal reports and appraisal review reports. HDR will manage the Subconsultants and perform quality reviews of their deliverables. See below for the names of the firms and individuals completing the appraisal services.

- a) Appraisal Reports will be completed by Jennifer Dounias with Triple D Valuation Services, Inc.
- b) Appraisal Review Reports will be completed by Dave White with Civiltech Engineering, Inc.

PART 3.0 PERIOD OF SERVICE

Project timeline and schedule to be determined upon further discussion with HR Green.

PART 4.0 INVOICING

HDR shall invoice on a monthly basis. All invoices shall include costs associated with each task performed. HDR will submit a Progress Report on a monthly basis with invoicing. The Progress Report will include a description of work accomplished that period as well as work anticipated for the next period for each parcel.

PART 5.0 COMPENSATION

Total Compensation is \$99,928. The total compensation is good for (2) years from the date of submittal to COMPANY. If the project is delayed beyond the (2) years from the date of submittal to COMPANY, HDR will request a cost supplement. See below for current cost breakdown:

- a) HDR, Inc. total cost including directs is \$45,728.
- b) Triple D Valuation Services, Inc. total cost including directs is \$35,200. Appraisal Reports are \$3,200 per each report. The cost breakdown is as follows:
 - (11) Appraisal Reports for segments 2 and 3.
- c) Civiltech Engineering, Inc. total cost including directs is \$19,000. Appraisal Review Reports are \$1,600 per each report. The cost breakdown is as follows:
 - (11) Appraisal Review Reports for segments 2 and 3.
 - (1) Cost Estimate for segments 2 and 3. The cost estimate is \$1,400 and is included in the total cost outlined above.

PART 6.0 ASSUMPTIONS

- The project will go through the IDOT parcel certification process.
- All written communication regarding negotiations with property owners shall go to the LCDOT Right of Way Agent.
- LCDOT shall provide all approvals related to initial offer amounts and settlement amounts in written communication.
- All title commitments will be provided by HR Green.
- Any later date title commitment will be provided by HR Green.
- All title commitment costs shall be at the expense of HR Green.
- All right of way exhibits, plats of highways, surveys, and legal descriptions will be provided by HR Green.
- For parcels being acquired in fee simple or requiring permanent easements, closings will be conducted through Wheatland Title.
- For parcels requiring just temporary easements, LCDDOT will pay the property owners directly. Copies of checks will be provided to HDR.
- Temporary Construction Easements will be recorded by LCDOT.
- All closing costs will be at the expense of LCDOT.



Local Public Agency Lake County Division of Transportation	County Lake County	Section Number 24-00289-03-BT
Prime Consultant (Firm) Name HR Green	Prepared By Angela Knudsen	Date 7/24/2024
Consultant / Subconsultant Name HDR Engineering, Inc.	Job Number 191892	

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

Remarks

Segments 2 & 3 for Lake Co Patriot Path

PAYROLL ESCALATION TABLE

CONTRACT TERM	48	MONTHS	OVERHEAD RATE	158.39%
START DATE	9/1/2024		COMPLEXITY FACTOR	
RAISE DATE	12/29/2024		% OF RAISE	2.00%
END DATE	8/31/2028			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	9/1/2024	12/29/2024	4	8.33%
1	12/30/2024	12/29/2025	12	25.50%
2	12/30/2025	12/29/2026	12	26.01%
3	12/30/2026	12/29/2027	12	26.53%
4	12/30/2027	8/29/2028	8	18.04%

The total escalation = 4.41%

Local Public Agency

Lake County Division of Transportation

County

Lake County

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

HDR Engineering, Inc.

Job Number

191892

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	2000	\$0.67	\$1,340.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day			\$0.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost	44	\$1.90	\$83.60
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)	50	\$15.00	\$750.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utlility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost			\$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Printing	Actual Cost	2000	\$1.00	\$2,000.00
Appraisal Reports (Triple D)	Actual Cost	1	\$35,200.00	\$35,200.00
Appraisal Review (Civiltech)	Actual Cost	1	\$19,000.00	\$19,000.00
Outside Labor (Insight Global)	Actual Cost	1	\$2,700.00	\$2,700.00
TOTAL DIRECT COSTS:				\$61,073.60

Local Public Agency

Lake County Division of Transportation

County

Lake County

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

HDR Engineering, Inc.

Job Number

191892

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
Project Management		58	2,944	4,663	972		8,579	8.59%
Preliminary Work	54,200	20	989	1,567	326		2,882	2.88%
Negotiations	6,874	210	9,401	14,890	3,102		27,393	27.41%
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Subconsultant DL							\$0.00	
Direct Costs Total ==>	\$61,073.60						\$61,073.60	61.12%
TOTALS		288	13,334	21,120	4,400	-	99,928	100.00%

34,454

Local Public Agency

Lake County Division of Transportation

County

Lake County

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

HDR Engineering, Inc.

Job Number

191892

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			Project Management			Preliminary Work			Negotiations								
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Project Manager I	60.77	44.0	15.28%	9.28	24	41.38%	25.15				20	9.52%	5.79						
Principal	86.00	4.0	1.39%	1.19	4	6.90%	5.93												
Realty Specialist I	41.38	150.0	52.08%	21.55							150	71.43%	29.56						
Realty Specialist II	49.46	60.0	20.83%	10.30				20	100.00%	49.46	40	19.05%	9.42						
Realty Specialist III	60.77	0.0																	
Clerical III	38.06	30.0	10.42%	3.96	30	51.72%	19.69												
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TOTALS		288.0	100%	\$46.30	58.0	100.00%	\$50.76	20.0	100%	\$49.46	210.0	100%	\$44.77	0.0	0%	\$0.00	0.0	0%	\$0.00



July 8, 2024

To: Jason Whyte, PE
Lead Engineer
HR Green, Inc.
1391 Corporate Drive, Suite 203
McHenry, IL 60050
815.759.8366

Re: Proposal - Geotechnical Exploration
Proposed IL 137 Patriot Path Segment 2
and 3
Libertyville, Illinois

Proposal No. Q24.242g_REV2

Via email: jwhyte@hrgreen.com

Dear Mr. Whyte,

Rubino Engineering, Inc. (Rubino) is pleased to submit the following proposal to provide geotechnical engineering services for the above referenced project. Rubino received a request for proposal from Jason Whyte of HR Green, Inc. via email on May 29, 2024.

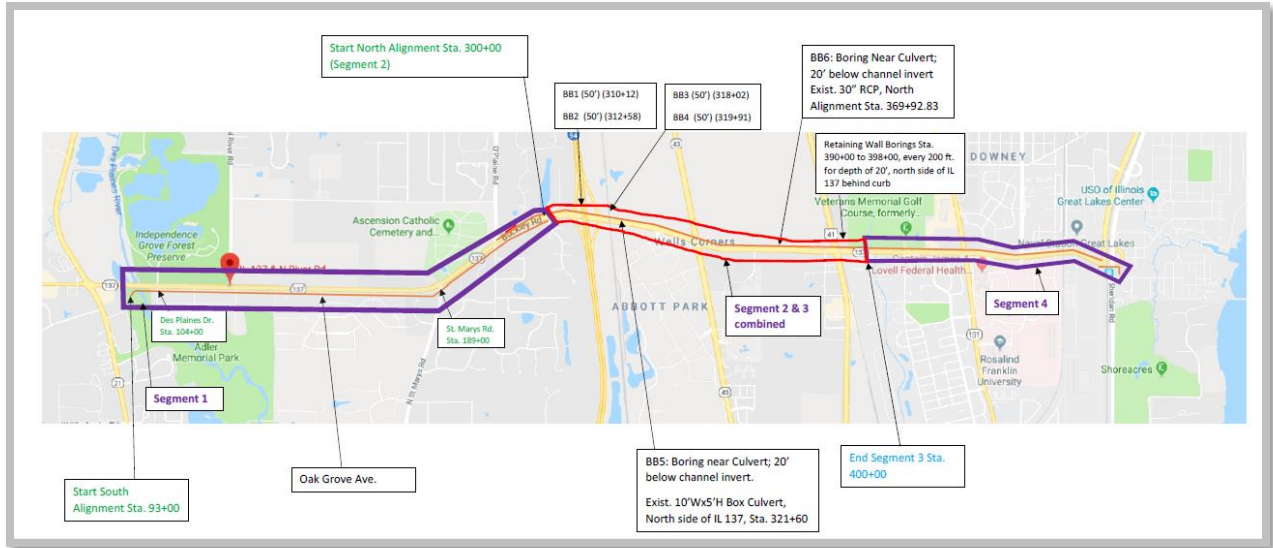
PROJECT UNDERSTANDING

Rubino understands that HR Green, Inc. is preparing for segments 2 and 3 of the IL 137 Patriot Path Project in Libertyville, Illinois. Segment 2 and 3 will include the following:

1. Proposed pedestrian bridges with pile supported abutments located on the north side of IL 137 over I-94
2. Potential culvert modifications, extensions and/or drainage structures at existing culverts located at Sta. 321+60 and Sta. 369+92.83
3. Potential proposed retaining wall located along the north side of IL 137 from Sta. 390+00 to 398+00
4. Proposed Bituminous Path borings (every 1,000 feet for the shared use path). Path will be located along the north side of IL 137 ranging from 2 to 10 feet behind the existing curb from Sta 300+00 to Sta 400+00.

Information received:

- RFP email from Jason Whyte of HR Green, Inc. on May 29, 2024.
- Concept Type Size and Location - "Proposed_Boring_Locations_Structures"
- Site Map - "Prop_Boring_Location_Exhibit_Seg2_3" (shown below)
- Revision 1 - Addition of a proposed median boring along the Tri-State Tollway
- Revision 2 – adding in additional borings for bike path and retaining wall



Structural Loads / Pavement Design Criteria received: none; however this proposal is based on the following being supplied to Rubino prior to Rubino starting the Geotechnical Report:

- Boring surface elevations
- Current TS&L for the proposed pedestrian bridge that includes the following:
 - Bridge Type and description for report text
 - Information for pile driving spreadsheet (if deep foundations are recommended):
 - Pile Cutoff Elevation (if applicable)
 - Bottom of abutment elevation
 - Elevation of soil against pile during driving
 - Abutment loading (kips)
 - Abutment Length
 - Pier type, loads, and information
- Cross section of the proposed retaining walls including the bottom of footing elevation

Field Services Scope of Services Summary	
Additional Scope discussion can be found in subsequent pages of this proposal	
Client Notification Needed prior to mobilization	Please notify Rubino if this is needed upon project authorization
Drilling Permit Needs	IDOT, Tollway
Field Equipment / Soil Sampling Method	Track-mounted Geoprobe Drill Rig
Traffic Control Needs	Lane Closure – Single Lane
Boring Location Plan	See below for aerial / KMZ
Soil Sampling	IDOT SPT – 2 ½ ft to 30 ft, 5 ft thereafter
Backfill Needs	Cuttings, excess spoils remain on site
Patching	Cold Patch
Site Protection or Restoration included	None
Groundwater Readings	During drilling and upon auger removal
Additional Sampling needed	Extra Sampling for Atterberg + Hydrometer Shelby tubes at retaining wall borings for Triaxial, UCT, and UU testing
Temporary Piezometers	See scope below
Additional Field Equipment needed	Rimac – for AASHTO

Boring Depths

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

NUMBER OF BORINGS	DEPTH (FEET BEG*)	PURPOSE	SPT SAMPLING INTERVALS	SOIL CLASSIFICATION METHOD
11	5	Bike Path Borings (BPB-01 through BPB-11) Final boring locations to be determined by HR Green	2 ½ ft to 30 ft, 5 ft intervals thereafter	AASHTO(Rimac)
5	50	Pedestrian Bridge (BSB-01 through BSB-05)		
5	20	Retaining Wall (RWB-01 through RWB-05) Final boring locations to be determined by HR Green		
2	50	Culverts (CSB-01 and CSB-02)		

23 Total Borings 505 Total Lineal Feet

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

SCOPE OF SERVICES DISCUSSION

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

Site Access

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

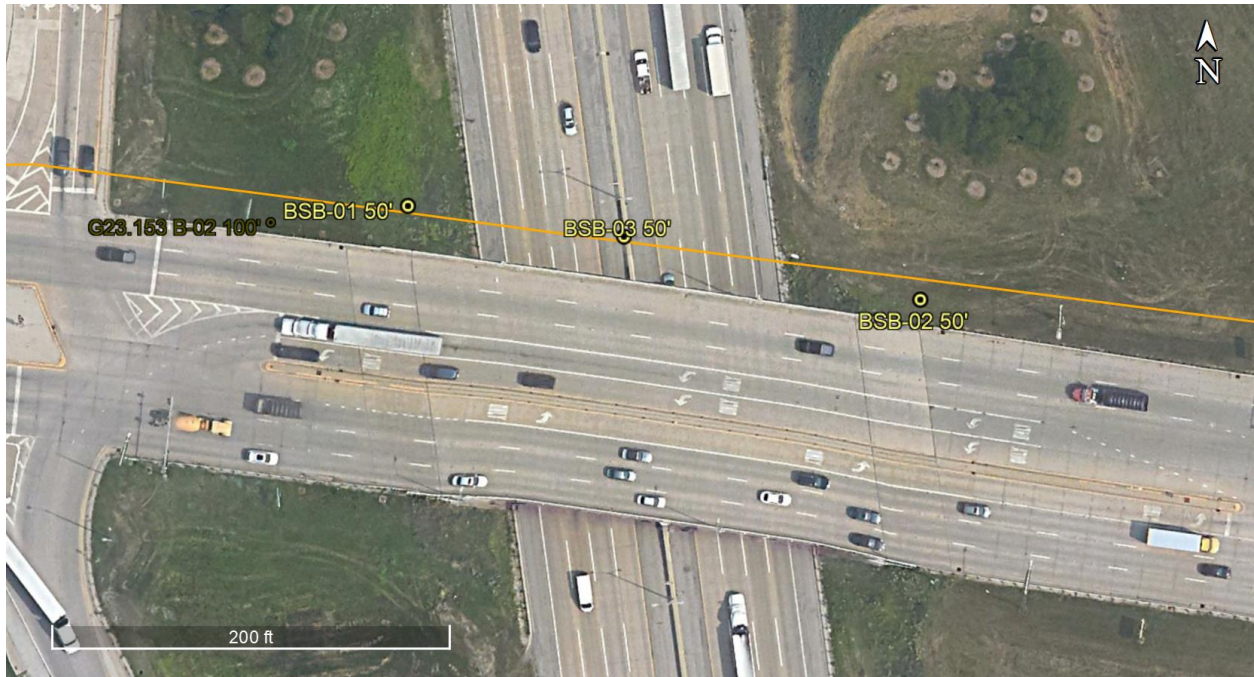
Traffic Control

Rubino anticipates that traffic control will be necessary along IL 137 and the Tri-State Tollway. Rubino will subcontract a traffic control company to provide the appropriate closure.

For the median boring along I-94, it’s anticipated to be drilled during night hours, however if during the permit procurement process it’s revealed that the project can be drilled during daytime hours Rubino will schedule for daytime hours.

Boring Locations

The approximate proposed boring locations are shown below. Rubino recommends that the borings be located and surveyed for elevation by others prior to drilling. If the borings cannot be surveyed, Rubino will locate the borings in the field by measuring distances from known, fixed site features.





SPT - Soil Sampling

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

If unsuitable bearing soils are encountered within the borings as proposed herein, the borings will be extended an additional 5 feet to attempt to end the borings in suitable soils. If unsuitable soils persist at the end of an additional 5 feet the client will be contacted prior to demobilizing.

Unsuitable soils will be defined by field personnel using the following criteria:

- Cohesive soils with an N value less than or equal to 4.
- Granular soils with an N-value less than 6.
- Black cohesive or silty soil with visible signs of organic matter and / or organic odor and low blow counts as described above.

Completion of Borings

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

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

Geotechnical Laboratory Testing

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

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

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

LABORATORY TEST	ESTIMATED QUANTITY	SAMPLE TYPE
Atterberg Limits	17	Split spoon, bulk, or Shelby Tube
Hydrometer	6	Split spoon, bulk, or Shelby Tube
Unconfined Compression Test / UU	6	Shelby Tube
Natural Moisture Content	174	Cohesive Samples
Organic Content	12	Split spoon, bulk, or Shelby Tube
Triaxial Envelope Test (3 points)	2	Shelby Tube

STRUCTURE GEOTECHNICAL REPORT (SGR)

- Cover Sheet and Table of Contents
- Project Description and Scope
- Field Exploration
- Geotechnical Evaluations and Recommendations
 - Settlement
 - Slope Stability (one profile included)
 - Scour
 - Seismic Considerations
- Foundation Recommendations
- Construction Considerations
- Appendices (Supporting Documentation): location map, boring plan and soil profile, boring logs, laboratory test results, SSR Charts, photographs

An electronic copy of the report will be provided. The report will be addressed to HR Green, Inc..

PROJECT SCHEDULE

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

Task	Number of Working Days
Utility clearance and rig mobilization	5 – 10
Field work including site layout and drilling	8
Geo Laboratory Testing	5 – 10
Geo Reporting	5 – 10

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

UTILITY LOCATE AND OUTSIDE SERVICES

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

FEES

Rubino proposes to charge the fee for performance of the outlined scope of services on a cost plus fixed fee basis per the attached CECS. Based on the scope of services outlined above, the fee will be \$98,252.

Scope Limitations

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

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

Boring, sampling and testing requirements are a function of the subsurface conditions encountered. The proposed lump-sum fee is based on the use of shallow foundations to support the planned construction and the existence of adequate bearing materials being encountered within the proposed boring depths. Should conditions be encountered which require a deepening of borings or additional investigation, Rubino will notify you to discuss modifying the outlined scope of services. Additional work beyond the lump-sum fee will not be performed without your prior authorization.

AUTHORIZATION

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

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

Respectfully submitted,

RUBINO ENGINEERING, INC.



Michelle A. Lipinski, PE
President



Anthony T. Tomaras
Project Manager

**RUBINO ENGINEERING, INC. IS:
AN AASHTO-ACCREDITED LABORATORY
IDOT PREQUALIFIED
IDOT DBE-CERTIFIED (100% WOMAN-OWNED)**

MAL/file

Attachments: Proposal Acceptance and Data Sheet
 Schedule of Services and Fees
 General Conditions

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

PROPOSAL ACCEPTANCE:

AGREED TO, THIS _____ DAY OF _____ , 202__.
BY (please print): _____
TITLE: _____
COMPANY: _____
SIGNATURE: _____

PROJECT INFORMATION:

1. Project Name: _____
2. Project Location: _____
3. Your Job No: _____ Purchase Order No.: _____
4. Project Manager: _____ Telephone No.: _____
5. Site Contact: _____ Telephone No.: _____
6. Number and Distribution of Reports:
() Copies To: _____ () Copies To: _____

Attn: _____ Attn: _____
Email: _____ **Email:** _____

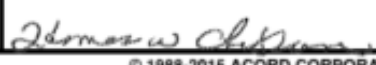
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Attn: _____ Attn: _____
Email: _____ **Email:** _____
7. Invoicing Address: _____

Attn: _____
Email: _____
8. Other Pertinent Information Or Previous Subsurface Information Available:

FEE REMARKS

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

Client#: 1171577		RUBINENG					
ACORD		CERTIFICATE OF LIABILITY INSURANCE					
			DATE (MM/DD/YYYY) 9/13/2023				
THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.							
IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).							
PRODUCER USI Ins Svcs LLC Euclid-Prof 2021 Spring Road, Suite 100 Oak Brook, IL 60523 312 442-7200		CONTACT NAME: Laurie Cloninger PHONE (A/C No. Ext): 630 625-5219 FAX (A/C No.): 610 537-4939 E-MAIL ADDRESS: Aecertificates@usi.com					
INSURED Rubino Engineering, Inc. 425 Shepard Dr Elgin, IL 60123		INSURER(S) AFFORDING COVERAGE INSURER A: RLI Insurance Company NAIC #: 13056 INSURER B: Pacific Insurance Company NAIC #: 10046 INSURER C : INSURER D : INSURER E : INSURER F :					
COVERAGES		CERTIFICATE NUMBER:					
COVERAGES		REVISION NUMBER:					
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.							
INSR LT#	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			PSB0003777	09/01/2023	09/01/2024	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Per occurrence) \$1,000,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000 \$
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			PSA0001881	09/01/2023	09/01/2024	COMBINED SINGLE LIMIT (Per accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED: RETENTION \$			PSE0002142	09/01/2023	09/01/2024	EACH OCCURRENCE \$5,000,000 AGGREGATE \$5,000,000 \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE/OFFICER/ MEMBER EXCLUDED? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	PSW0002789	09/01/2023	09/01/2024	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000
B	Professional Liability			83OH056719923	09/01/2023	09/01/2024	\$2,000,000 each claim / \$4,000,000 annual aggr.
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) Professional Liability is written on a 'claims made' policy form. Some or all officers are excluded from Workers Compensation coverage.							
CERTIFICATE HOLDER		CANCELLATION					
Rubino Engineering, Inc. 425 Shepard Dr. Elgin, IL 60123		SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 					
© 1988-2015 ACORD CORPORATION. All rights reserved.							
ACORD 25 (2016/03) 1 of 1 #S41790281/M41674790		The ACORD name and logo are registered marks of ACORD JDPZP					

GENERAL CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Rubino Engineering, Inc.



Local Public Agency IDOT	County Lake	Section Number 24-00289-03-BT
Prime Consultant (Firm) Name HR Green, Inc.	Prepared By Jonathan Ignarski / Michelle Lipinski	Date 7/5/2024
Consultant / Subconsultant Name Rubino Engineering, Inc.	Job Number Q24.242g REV3	

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

Remarks

Geotechnical drilling, geotechnical reporting, and geotechnical laboratory testing. HRG Project #2402787

PAYROLL ESCALATION TABLE

CONTRACT TERM	48	MONTHS			OVERHEAD RATE	176.27%
START DATE	9/1/2024				COMPLEXITY FACTOR	0
RAISE DATE	3/1/2025				% OF RAISE	2.00%
END DATE	8/31/2028					

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	9/1/2024	3/1/2025	6	12.50%
1	3/2/2025	3/1/2026	12	25.50%
2	3/2/2026	3/1/2027	12	26.01%
3	3/2/2027	3/1/2028	12	26.53%
4	3/2/2028	9/1/2028	6	13.53%

Local Public Agency

County

Section Number

IDOT

Lake

24-00289-03-BT

Consultant / Subconsultant Name

Job Number

Rubino Engineering, Inc.

Q24.242g REV3

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	4.07%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Material Tester 1 & 2	\$43.90	\$45.69
Project Manager / Engineer	\$52.00	\$54.12
Staff Engineer / Geologist / Soil Scientist	\$40.00	\$41.63
Laboratory Staff	\$40.00	\$41.63
Principal	\$75.00	\$78.05
Driller	\$65.00	\$67.65

Local Public Agency	County	Section Number
IDOT	Lake	24-00289-03-BT
Consultant / Subconsultant Name		Job Number
Rubino Engineering, Inc.		Q24.242g REV3

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant
Total	0.00	0.00

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

Local Public Agency

IDOT

County

Lake

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

Rubino Engineering, Inc.

Job Number

Q24.242g REV3

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	19	\$65.00	\$1,235.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost			\$0.00
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)	7	\$32.50	\$227.50
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)	9	\$2,200.00	\$19,800.00
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	1	\$7,691.60	\$7,691.60
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
Drill Rig Mobilization	In House Direct Cost	8	\$700.00	\$5,600.00
Pavement Cores	In House Direct Cost			\$0.00
Drilling (Per Hour)	In House Direct Cost	4	\$425.00	\$1,700.00
Permits	Outside Direct Cost	1	\$2,000.00	\$2,000.00
TOTAL DIRECT COSTS:				\$38,254.10

Local Public Agency

IDOT

County

Lake

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

Rubino Engineering, Inc.

Job Number

Q24.242g REV3

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE 176.27%

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
Geotechnical (Setup/Drilling/Reporting)	38,254	357	19,400	34,196	6,402		59,998	61.07%
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Subconsultant DL							\$0.00	
Direct Costs Total ==>	\$38,254.10						\$38,254.10	38.93%
TOTALS		357	19,400	34,196	6,402	-	98,252	100.00%

Local Public Agency

IDOT

County

Lake

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

Rubino Engineering, Inc.

Job Number

Q24.242g REV3

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			Geotechnical (Setup/Drilling/Reporting)											
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Material Tester 1 & 2	45.69	0.0														
Project Manager / Engineer	54.12	43.0	12.04%	6.52	43	12.04%	6.52									
Staff Engineer / Geologist / Soil Scientist	41.63	163.0	45.66%	19.01	163	45.66%	19.01									
Laboratory Staff	41.63	0.0														
Principal	78.05	7.0	1.96%	1.53	7	1.96%	1.53									
Driller	67.65	144.0	40.34%	27.29	144	40.34%	27.29									
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TOTALS		357.0	100%	\$54.34	357.0	100.00%	\$54.34	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00



A Subsidiary of GZA



August 15, 2024

via email: sladieu@hrgreen.com

Sean LaDieu, P.E. – Senior Project Manager
HR Green, Inc.
2363 Sequoia Drive – Suite 101
Aurora, IL 60506

Re: **Phase II Environmental Services – LPC-663 CCDD (IDOT Jurisdiction non-REC Sites)
IL 137 / Buckley Road (IL 21/Milwaukee Avenue to Sheridan Road) – Lake County, IL
Proposal No.: 81.P013065.25**

Dear Mr. LaDieu,

Huff & Huff, Inc., a subsidiary of GZA, Inc. (H&H), is pleased to submit this proposal to HR Green, Inc. (Client) to conduct Phase II environmental services for the proposed improvements along IL 137/Buckley Road located in Lake County, Illinois (Village). The project corridor along IL 137/Buckley Road extends from IL 21/Milwaukee Avenue to Sheridan Road, approximately 6.1-miles in length. The scope of services requested includes completing LPC-663 Assessment and Documentation for select portions of the project corridor. Specifically, since IL 137/Buckley Road is under IDOT jurisdiction, Client has indicated IDOT will perform a Preliminary Site Investigation (PSI) with CCDD documentation for the sites identified in the ISGS Preliminary Environmental Site Assessment (ISGS PESA 3497/A) as having Recognized Environmental Conditions (RECs). Therefore, the requested scope is to perform LPC663 documentation for the non-REC sites and/or areas outside of IDOT jurisdiction. However, since it is our understanding that IDOT District 1 completes PSIs inclusive of all areas with work proposed, including both REC and non-REC areas, we have included additional project assumptions below in Section 1.

This proposal presents our current Project Understanding, Scope of Services, Level of Effort and Schedule, and Acceptance for completing the project. We understand as the scope is identified and IDOT involvement known, this scope and fee may be adjusted as necessary.

1. PROJECT UNDERSTANDING

Based on information provided by Client, we understand the following as basis for the scope:

- 1) Entire corridor is IDOT jurisdiction and IDOT may complete a PSI for the entire corridor.
- 2) During Phase I, ISGS prepared a PESA (#3497/A) and listed multiple RECs.
- 3) The project has been divided into four segments, including:
 - Segment 1 – IL 21/Milwaukee Avenue to Sage Court/Brookhaven Drive
 - Segment 2 - Sage Court/Brookhaven Drive to IL 43/Waukegan Road
 - Segment 3 – IL 43/Waukegan Road to Great Lakes Road
 - Segment 4 – Great Lakes Road to Sheridan Road
- 4) Lake County DOT has provided direction on how to address soil management with the following assumptions for the proposed multi-use trail (MUP) project:
 - LPC-663 for entire project corridor
 - IDOT will complete a PSI and sample along the REC sites that cannot be avoided.
 - The non-REC sites sampled by the local agency (LCDOT) with Client providing a summary of the REC and non-REC areas, as indicated below:

- GEOTECHNICAL
- ENVIRONMENTAL
- ECOLOGICAL
- WATER
- CONSTRUCTION MANAGEMENT

915 Harger Road
Suite 330
Oak Brook, IL 60523
T: 630.684.9100
F: 630.684.9120
www.huffnhuff.com
www.gza.com



Segment	ROW Length Non-REC	ROW Length REC
1	12,890	2,260
2	3,490	980
3	2,900	3,300
4	0	6,600
TOTAL	19,280	13,140

5) General Information/assumptions:

- Utilize IDOT BLR 05514 Cost Plus fixed Fee (CPFF) worksheets:
- Assume start date of 9/1/2024 and duration of 48-months
- Indicate Section No.: 15-00289-01-BT
- Lake County Division of Transportation (LCDOT) is the Local Public Agency
- Excavation to construct the MUP will generally be no more than 12-inches deep
- There are areas requiring retaining walls and culverts where excavation will exceed 12-inches – assume fifteen (15) locations to 10-feet deep
- The MUP will be on the south side of IL 137 from the west end to O’Plaine Road
- From O’Plaine Road to Sage Ct., the MUP will be on both sides of the road
- From Sage Court to the east end, the MUP will be on the north side of the road
- Include permitting for ROW access (IDOT and Tollway), LPC 663 form development, contacting/coordinating up to 3 CCDD facilities, delineation of soil management requirements on plans for contract documents
- Provide LPC-663 assessment for the non-REC areas (to be confirmed with IDOT by Client)
- Right-of-entry to the railroad corridor east of I-94 is not anticipated and costs are not included under assumption that the RR ROW will be risk managed with spoils, if applicable, identified as non-special waste for landfill disposal if necessary

Please note that in our experience, IDOT District 1 performs a PSI with CCDD documentation inclusive of all areas of proposed work, regardless of REC determination. Therefore, unless explicitly authorized by IDOT, it would be unusual for a local agency, Lake County Division of Transportation (LCDOT) in this circumstance, to complete soil sampling along IDOT jurisdiction. This was conveyed to Client on July 1, 2024 to seek clarification from IDOT, and this scope has been prepared based on assumptions the local agency will be required to sample in areas of proposed work for non-REC locations.

2. SCOPE OF SERVICES

Task 1 – LPC-663 CCDD Assessment and Documentation

A. Due Diligence Research and Listing Confirmation

If the local agency is required to proceed with sampling, we propose to utilize ISGS PESA #3497/A as the basis for the due diligence. It should be noted that the ISGS PESAs are typically utilized for the IDOT portions of projects and portions of work under local agency jurisdiction require separate PESA documentation. Since this entire corridor is IDOT jurisdiction, there is no need for completing a local agency PESA and Client should confirm with IDOT if the local agency investigation work, if completed, can rely upon, and utilize the ISGS PESA as basis for due diligence within any documentation that is prepared for LCDOT.



B. Soil Borings and Soil Sampling

We propose to conduct a series of up to forty (40) soil borings, with twenty-five assumed to be approximately 2-foot deep and fifteen (15) borings to depths of up to 10-foot deep. For budgetary purposes, we propose to complete the soil borings at a frequency of one (1) boring for every 500-feet of project corridor. However, it should be noted that this boring frequency is not consistent with the frequency that IDOT District 1 would typically use when completing PSIs. Therefore, if IDOT allows LCDOT to perform a portion of the PSI as requested by Client, please note that IDOT may require a review of the scope and may require borings to be performed at a frequency ranging from 1 boring every 50 to 300 feet, depending on the adjacent land-use, which could significantly increase the number of soil borings, soil samples being analyzed and could significantly increase the cost contained herein. For example, if frequency were adjusted to 1 boring every 250-feet, the scope (and costs) would be twice the scope/cost presented herein.

We anticipate completing the drilling and sample collection with the aid of a drilling (GeoProbe) subcontractor and traffic control services for work completed along IL 137/Buckley Road. Since the corridor is under IDOT jurisdiction, we have also included costs under assumption that right-of-entry permitting will be required to be completed with IDOT and/or Illinois State Toll Highway Authority (ISTHA) prior to mobilizing for the drilling activity. Therefore, we have included labor and direct costs associated with the driller, including anticipated bond fees.

The borings will be advanced and soil samples collected for laboratory analysis to address sites identified as RECs/PIPs and for full project coverage of non-REC/PIP for soil disposal considerations, specifically at locations identified for proposed excavation. Samples will be collected in 2- to 5-foot intervals for field screening and select samples prepared for laboratory analysis. Multiple sample intervals per boring will be field screened with a PID and up to one (1) sample/boring may be prepared and submitted for laboratory analysis.

C. Analytical

A total of forty (40) soil boring locations are proposed and we anticipate initially analyzing one (1) sample from each of the borings, for a total of up to forty (40) samples for laboratory analysis. Laboratory analysis is proposed to include the contaminants of concern (COCs) per IDOT District One protocol, which include:

- 22 Total metals (Target Analyte List (TAL) minus Aluminum)
- SPLP and TCLP Metals (8 RCRA and Be, Co, Cu, Fe, Mn, Ni, and Zn)
- Volatile organic compounds (VOCs)
- Semi-volatile organic compounds (SVOCs)
- Soil pH

D. CCDD (LPC-Form) Documentation and CCDD Facility Coordination

The soil sample results will be compared to the Maximum Allowable Concentrations (MACs) associated with CCDD facility acceptance, including the soil pH range of 6.25 to 9.0. If results achieve the MAC values, H&H will prepare the LPC-663 document that will be signed/stamped by the H&H. Any locations that do not achieve the MACs (including soil pH range) will be identified as exclusion zones, not acceptable for CCDD facility disposal.



The LPC-663 Form documentation what H&H prepares will include the following:

- Cover Memo summarizing the scope of the project, due diligence, analytical approach, and results;
- LPC-663 Form completed and signed by a PE or PG;
- Narrative detailing the information summarized in the Cover Memo with identification of the results of the due diligence (based on ISGS PESA), a table of the sites identified as PIPs, summary of the soil borings, including depth and sampling intervals, presentation of the analytical results, comparison to the MAC values, and soil classifications presented in a summary table per IDOT Article 669.05 to aid Client in the identification of necessary soil handling and disposal considerations for inclusion in estimating pay items and standard/special provisions to be included in the bidding documents.
- Tables of analytical results;
- Figures depicting the project corridor, PIPs, soil boring locations, soil classifications, and if necessary CCDD exclusion zones and/or areas requiring construction worker caution notification in the bidding documents;
- A copy off the ISGS PESA Report as the due diligence in support of the sampling;
- Soil boring logs;
- A photo-log; and
- Other supporting documentation as needed based on the due diligence and soil sampling.

Consistent with LCDOT approach, H&H will coordinate with at least three CCDD facilities to seek a review and if acceptable, provide pre-authorization letters for inclusion in the bidding documents. Though it is important to note, pre-authorization of acceptance does not guarantee that all spoils from a project that are deemed to be eligible for acceptance will be ultimately accepted due to the nature of the acceptance procedures being load-specific with visual and photo-ionization detector (PID) screening of every incoming load.

E. Project Management

Time has been included for project administration and management activities that include cost and schedule tracking; coordination with Client on authorized activities; obtaining right-of-entry permits; memo production and other in-house management activities; and project closeout.

F. QA/QC

Time has been included Quality Assurance/Quality Control (QA/QC) time for the LPC-663 document as described above

2. LEVEL OF EFFORT AND SCHEDULE

Costs are proposed to be on a time and materials basis and are included on the attached spreadsheets in IDOT BLR CPFF format. The CCDD Assessment work will commence within 5 business days of project approval, with a target completion date of twelve (12) weeks from the date of the Notice to Proceed. Please notify H&H if an expedited schedule is necessary to meet project deadlines.



3. TERMS AND CONDITIONS

CONDITIONS OF ENGAGEMENT

The conditions of engagement are described in the attached Terms and Conditions for Professional Services. H&H’s report will be prepared on behalf of and for the exclusive use of Client. Client acknowledges and agrees that the report and the findings in the report shall not, in whole or in part, be disseminated or conveyed to any other party, or used or relied upon by any other party, in whole or in part, except for the specific purpose and to the specific parties alluded to above, without the written consent of H&H. H&H would be pleased to discuss the conditions associated with any additional dissemination, use, or reliance by other parties.

ACCEPTANCE

This agreement may be accepted by signing in the appropriate space below and returning one complete copy to H&H. Issuance of a Purchase Order implicitly acknowledges acceptance of this proposal. This proposal is valid for a period of 30 days from the date of issue. We appreciate the opportunity to submit this proposal. Please feel free to contact the undersigned at (630) 684-9100 with any questions.

Very truly yours,
Huff & Huff, Inc.

Jeremy J. Reynolds, P.G.
Associate Principal

Attachments: Terms and Conditions
IDOT BLR 05514 CPFF Cost Sheets
Client Provided Information

This Proposal for Services, Schedule of Fees and Terms and Conditions for Professional Services are hereby accepted and executed by a duly authorized signatory, who by execution hereof, warrants that he/she has full authority to act for, in the name, and on behalf of HR Green, Inc.

By: _____ Title: _____

Printed/Typed Name: _____ Date: _____

The Proposal for Services, Schedule of Fees and Terms and Conditions for Professional Services may be executed in two or more counterparts, each of which together shall be deemed an original, but all of which together shall constitute one and the same instrument. In the event that any signature is delivered by facsimile transmission or by an e-mail delivery of a document in “.pdf” format, each such signature shall create a valid and binding obligation of the party executing the document, or on whose behalf each document is executed, with the same force and effect as if each such facsimile or “.pdf” signature were an original thereof.



August 15, 2024
HR Green, Inc. – IL 137/Buckley Road MUP Project – LCDOT, Lake County, IL
Phase II Environmental Services (CCDD Assessment and Documentation)
Proposal No.: 81.P013065.25
ATTACHMENTS

APPENDIX A
PROPOSED COST SHEETS



Local Public Agency Lake County Division of Transportation	County Lake	Section Number 24-00289-03-BT
Prime Consultant (Firm) Name HR Green, Inc.,	Prepared By JJR	Date 8/15/2024
Consultant / Subconsultant Name Huff & Huff, Inc., a subsidiary of GZA, Inc.	Job Number 	

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

Remarks

LCDOT IL 137 MUP (Phase II CCDD Services Assuming sampling at non-REC sites along IDOT ROW)

PAYROLL ESCALATION TABLE

CONTRACT TERM	48	MONTHS	OVERHEAD RATE	190.00%
START DATE	9/1/2024		COMPLEXITY FACTOR	0
RAISE DATE	3/1/2025		% OF RAISE	2.00%
END DATE	8/31/2028			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	9/1/2024	3/1/2025	6	12.50%
1	3/2/2025	3/1/2026	12	25.50%
2	3/2/2026	3/1/2027	12	26.01%
3	3/2/2027	3/1/2028	12	26.53%
4	3/2/2028	9/1/2028	6	13.53%

The total escalation = 4.07%

Local Public Agency County **Section Number**

Lake County Division of Transportation Lake 24-00289-03-BT

Consultant / Subconsultant Name **Job Number**

Huff & Huff, Inc., a subsidiary of GZA, Inc.

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	4.07%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal	\$85.96	\$86.00
Associate Principal III	\$83.37	\$86.00
Associate Principal II	\$76.01	\$79.10
Associate Principal I	\$71.92	\$74.85
Senior Project Manager III	\$73.19	\$76.17
Senior Project Manager I	\$56.56	\$58.86
Senior Landscape Architect	\$61.47	\$63.97
Senior Planning PM	\$59.03	\$61.43
Senior Technical Specialist II	\$62.64	\$65.19
Senior Technical Specialist I	\$55.79	\$58.06
Senior Scientist PM II	\$61.17	\$63.66
Senior Technical Scientist	\$57.15	\$59.48
Scientist PM II	\$53.34	\$55.51
Scientist PM I	\$46.97	\$48.88
Assistant PM Scientist	\$39.32	\$40.92
Environmental Engineer PM II	\$49.99	\$52.02
Environmental Engineer PM I	\$47.00	\$48.91
Assistant PM Engineer I	\$41.15	\$42.83
Engineer II	\$31.75	\$33.04
Engineer I	\$35.69	\$37.14
Scientist SI	\$34.50	\$35.90
Scientist SII	\$30.16	\$31.39
Technical Graphics Technician	\$27.73	\$28.86
Administrative Executive	\$52.42	\$54.55
Senior Administrative Assistant	\$36.31	\$37.79
Billing Administrator	\$25.00	\$26.02

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	24-00289-03-BT
Consultant / Subconsultant Name		Job Number
Huff & Huff, Inc., a subsidiary of GZA, Inc.		

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant
Total	0.00	0.00

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

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

Huff & Huff, Inc., a subsidiary of GZA, Inc.

Job Number

DIRECT COSTS WORKSHEET

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

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	750	\$0.67	\$502.50
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day			\$0.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost	6	\$6.80	\$40.80
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)	4	\$2,750.00	\$11,000.00
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	40	\$740.00	\$29,600.00
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
Driller (\$3,000/Day)	Actual Cost	4	\$3,000.00	\$12,000.00
PID	Weekly Rate	1	\$300.00	\$300.00
Field Kit-Expendibles	Daily Rate	4	\$30.00	\$120.00
Database Corridor Package - If Needed	Actual Cost	0	\$675.00	\$0.00
TOTAL DIRECT COSTS:				\$53,563.30

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

Huff & Huff, Inc., a subsidiary of GZA, Inc.

Job Number**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
CCDD Assessment & LPC663	53,563	164	6,628	12,593	2,187	0	21,408	28.56%
Subconsultant DL							\$0.00	
Direct Costs Total ==>	\$53,563.30						\$53,563.30	71.45%
TOTALS		164	6,628	12,593	2,187	-	74,971	100.00%

19,221

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

24-00289-03-BT

Consultant / Subconsultant Name

Huff & Huff, Inc., a subsidiary of GZA, Inc.

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			CCDD Assessment & LPC663														
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
Principal	86.00	0.0																	
Associate Principal III	86.00	0.0																	
Associate Principal II	79.10	8.0	4.88%	3.86	8	4.88%	3.86												
Associate Principal I	74.85	8.0	4.88%	3.65	8	4.88%	3.65												
Senior Project Manager III	76.17	0.0																	
Senior Project Manager II	62.90	0.0																	
Senior Project Manager I	58.86	0.0																	
Senior Landscape Architect	63.97	0.0																	
Senior Planning PM	61.43	0.0																	
Senior Technical Specialist II	65.19	0.0																	
Senior Technical Specialist I	58.06	0.0																	
Senior Scientist PM II	63.66	0.0																	
Senior Technical Scientist	59.48	0.0																	
Scientist PM II	55.51	0.0																	
Scientist PM I	48.88	15.0	9.15%	4.47	15	9.15%	4.47												
Assistant PM Scientist	40.92	25.0	15.24%	6.24	25	15.24%	6.24												
Environmental Engineer PM II	52.02	0.0																	
Environmental Engineer PM I	48.91	0.0																	
Assistant PM Engineer I	42.83	0.0																	
Engineer II	33.04	45.0	27.44%	9.07	45	27.44%	9.07												
Engineer I	37.14	0.0																	
Scientist SI	35.90	45.0	27.44%	9.85	45	27.44%	9.85												
Scientist SII	31.39	0.0																	
Technical Graphics Technician	28.86	16.0	9.76%	2.82	16	9.76%	2.82												
Administrative Executive	54.55	0.0																	
Senior Administrative Assistant	37.79	2.0	1.22%	0.46	2	1.22%	0.46												
Billing Administrator	26.02	0.0																	
TOTALS		164.0	100%	\$40.41	164.0	100.00%	\$40.41	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

HUFF & HUFF, INC.
SUMMARY OF DIRECT COSTS
 Project: HRGreen - LCDOT IL 137 MUP CCDD

							<u>DIRECT</u>
Task 1 - CCDD Assessment and Documentation							
Trips	125 miles	x	6	x	\$ 0.670	= \$	502.50
Tolls	1 trip	x	6	x	\$ 6.80	= \$	40.80
PID	1 week	x	1	x	\$ 300.00	= \$	300.00
Field Kit (expendibles)	1 day	x	4	x	\$ 30.00	= \$	120.00
Database 3-mi. Add	1 ea	x	0	x	\$ 675.00	= \$	-
Druiller (day) w/permit	1 day	x	4	x	\$ 3,000.00	= \$	12,000.00
Traffic Control	1 day	x	4	x	\$ 2,750.00	= \$	11,000.00
Laboratory Analysis (IDOT Protocol)						\$	-
VOCs+5035	1 ea	x	40	x	\$ 145.00	= \$	5,800.00
SVOCs	1 ea	x	40	x	\$ 160.00	= \$	6,400.00
TAL (22) Metals	1 ea	x	40	x	\$ 135.00	= \$	5,400.00
SPLP (15) Metals	1 ea	x	40	x	\$ 145.00	= \$	5,800.00
TCLP (15) Metals	1 ea	x	40	x	\$ 145.00	= \$	5,800.00
Soil pH	1 ea	x	40	x	\$ 10.00	= \$	400.00
						Task Total	\$ 53,563.30
<i>Cost per Sample (IDOT Style)</i>							<i>\$ 740.00</i>

Task 2 - Project Management

	0	x	\$	-	=	\$	-
						Task Total	\$ -

Task 3 - QA/QC

	0	x	\$	-	=	\$	-
						Task Total	\$ -

GRAND TOTAL \$ 53,563.30

HUFF & HUFF, INC.
SUMMARY OF SERVICES BY OTHERS
 Project: HRGreen - LCDOT IL 137 MUP CCDD

					<u>OUTSIDE</u>
Task 1 - CCDD Assessment and Documentation					
_____	0 x	\$	-	=	\$
					-
			Task Total		\$
					-
Task 2 - Project Management					
_____	0 x	\$	-	=	\$
					-
			Task Total		\$
					-
Task 3 - QA/QC					
_____	0 x	\$	-	=	\$
					-
			Task Total		\$
					-
GRAND TOTAL					\$
					-



August 15, 2024
HR Green, Inc. – IL 137/Buckley Road MUP Project – LCDOT, Lake County, IL
Phase II Environmental Services (CCDD Assessment and Documentation)
Proposal No.: 81.P013065.25
ATTACHMENTS

APPENDIX B
TERMS AND CONDITIONS



TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES

© 2023 by Huff & Huff, Inc., a Subsidiary of GZA GeoEnvironmental, Inc.

Client ("You"): HR Green, Inc.

Proposal No: 81.P013065.25

Site: LCDOT IL 137 MUP

These Terms and Conditions, together with Huff & Huff, Inc.'s (H&H's) Proposal, make up the Agreement between H&H and you, Client, named above.

BEFORE SIGNING THE PROPOSAL, BE SURE YOU READ AND UNDERSTAND THE PARAGRAPHS ENTITLED "INDEMNIFICATION" AND "LIMITATION OF REMEDIES" WHICH DEAL WITH THE ALLOCATION OF RISK BETWEEN YOU AND H&H.

1. **Services.** H&H will perform the services set forth in its Proposal and any amendments or change orders authorized by you (the "Services"). Any request or direction from you that would require extra work or additional time for performance or would result in an increase in H&H's costs will be the subject of a negotiated amendment or change order.
2. **Standard of Care; Warranties.**
 - a. H&H will perform professional Services with the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services at the same time under similar conditions in the same or similar locality.
 - c. **EXCEPT AS SET FORTH IN SUBSECTIONS 2a ABOVE, NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTY OF MARKETABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS MADE OR INTENDED BY H&H'S PROPOSAL OR BY ANY OF H&H'S ORAL OR WRITTEN REPORTS.**
 - d. H&H assigns to you any manufacturers' warranties of equipment or materials purchased from others, to the extent they are assignable, and your sole recourse will be against the manufacturer. Full risk of loss of materials and equipment will pass to you upon delivery to the Site, and you will be responsible for insuring and otherwise protecting them against theft and damage.
3. **Payment.**
 - a. Except as otherwise stated in the Proposal, you will compensate H&H for the Services at the rates set forth in the applicable Proposal, amendment or change order; reimburse its expenses, which will include a communication fee calculated as a percentage of labor invoiced; and pay any sales or similar taxes thereon.
 - b. Any retainer specified in H&H's Proposal shall be due prior to the start of Services and will be applied to the final invoice for Services.
 - c. H&H will submit invoices periodically, and payment will be due within 20 days from invoice date. Overdue payments will bear interest at 1½ percent per month or, if lower, the maximum lawful rate. H&H may terminate the Services upon 10 days' written notice anytime your payment is overdue on this or any other project and you will pay for all Services through termination, plus termination costs. You will reimburse H&H's costs of collecting overdue invoices, including reasonable attorneys' fees (including costs for time expended by in-house counsel, which will be charged to you at the prevailing market rate for attorneys of similar experience practicing in the jurisdiction).
4. **Your Responsibilities.**
 - a. Except as otherwise agreed in writing, you will secure the access agreements, approvals, permits, licenses and consents necessary for performance of the Services. If you are the owner or operator of the Site, you will provide H&H with all documents, plans, information concerning underground structures (including but not limited to utilities, conduits, pipes, and tanks), information related to hazardous materials or other environmental or geotechnical conditions at the Site (including, if applicable, asbestos containing materials ["ACM"]) and other information that may be pertinent to the Services or, if you are not the owner or operator of the Site, you agree to make reasonable efforts to obtain these same documents and provide them to H&H. Unless otherwise indicated in writing, H&H will be entitled to rely on documents and information you provide.
 - b. If you use the services of a contractor or construction manager at the Site, you agree to use best and reasonable efforts to include in your agreement(s) with the construction contractor provisions obligating the latter:
 - (i) to defend, indemnify and hold harmless, to the fullest extent permitted by law, you and H&H and its officers, directors, members, partners, agents, employees, and subconsultants (the "H&H Indemnitees"), for or on account of any claims, liabilities, costs and expenses, including attorneys' fees, arising out of or relating to the design or implementation of construction means, methods, procedures, techniques, and sequences of construction, including safety precautions or programs, of the contractor, or any of its subcontractors or any engineer engaged by it;
 - (ii) to name you and H&H as additional insureds under general liability and builder's risk insurance coverages maintained by the contractor, or any of its subcontractors, and to ensure that such policies are primary and noncontributory with regard to the above indemnity obligations; and
 - (iii) to require that all of its subcontractors agree and be bound to the obligations set forth in (i) and (ii) above.
 - c. In the event that you are unable to secure such provisions in the agreement(s) with the construction contractor, you shall promptly (but in any event prior to the commencement of the Services) notify H&H and H&H shall have the opportunity to negotiate with you reasonable substitute risk allocation and insurance indemnities and protections.
5. **Right of Entry; Site Restoration.** You grant H&H and its subcontractor(s) permission to enter the Site to perform the Services. If you do not own the Site, you represent and warrant that the owner has granted permission for H&H to enter the Site and perform the Services; you will provide reasonable verification on request; and you will indemnify the H&H Indemnitees for any claims by the Site owner related to alleged trespass by H&H or its subcontractors. Although H&H will exercise reasonable care to limit damage to landscaping, paving, systems and structures at the Site, you acknowledge that some damage may occur even with the exercise of due care and you agree to compensate H&H for any restoration it is asked to perform, unless otherwise indicated in the Proposal.
6. **Underground Facilities.** H&H's only responsibility under this Agreement will be to provide proper notification to the applicable state utility "Call-Before-You-Dig" program. You further agree to assume responsibility for and to defend, indemnify and hold harmless H&H with respect to personal injury and property damages due to H&H's interference with subterranean structures including but not limited to utilities, conduits, pipes, and tanks:
 - (i) that are not correctly shown on any plans and information you or governmental authorities provide to H&H; or
 - (ii) that are not correctly marked by the appropriate utility.



- 7. Reliance.** The services, information, and other data furnished by you shall be at your expense, and H&H may rely upon all information and data that you furnish, including the accuracy and completeness thereof. You acknowledge that the quality of the Services provided by H&H is directly related to the accuracy and completeness of the information and data that you furnish to H&H. **H&H'S REPORTS ARE PREPARED FOR AND MADE AVAILABLE FOR YOUR SOLE USE. YOU ACKNOWLEDGE AND AGREE THAT USE OF OR RELIANCE UPON THE REPORT OR THE FINDINGS IN THE REPORT BY ANY OTHER PARTY, OR FOR ANY OTHER PROJECT OR PURPOSE, SHALL BE AT YOUR OR SUCH OTHER PARTY'S SOLE RISK AND WITHOUT ANY LIABILITY TO H&H. YOU SHALL INDEMNIFY AND HOLD HARMLESS THE H&H INDEMNITEES FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEYS' FEES, ARISING OUT OF OR RESULTING FROM ANY USE, REUSE, OR MODIFICATION OF THE DOCUMENTS WITHOUT WRITTEN VERIFICATION, COMPLETION, OR ADAPTATION BY H&H AND SUCH LIMITED LICENSE TO YOU SHALL NOT CREATE ANY RIGHTS IN THIRD PARTIES.**
- 8. Lab Tests and Samples.** H&H is entitled to rely on the results of laboratory tests using generally accepted methodologies. H&H may dispose of samples in accordance with applicable laws 30 days after submitting test results to you unless you request in writing for them to be returned to you or to be held longer, in which case you will compensate H&H for storage and/or shipping beyond 30 days.
- 9. H&H Professionals.** H&H employees or consultants may act as licensed, certified or registered professionals (including but not limited to Professional Engineers, Licensed Site or Environmental Professionals, Certified Hazardous Materials Managers,, or Certified Industrial Hygienists collectively referred to in this section as "H&H Professionals") whose duties may include the rendering of independent professional opinions. You acknowledge that a federal, state or local agency or other third party may audit the Services of H&H or other contractor/consultant(s), which audit may require additional Services, even though H&H and such H&H Professionals have each performed such Services in accordance with the standard of care set forth herein. You agree to compensate H&H for all Services performed in response to such an audit, or to meet additional requirements resulting from such an audit, at the rates set forth in the applicable Proposal, amendment or change order.
- 10. Hazardous Materials; H&H "Not a Generator".** Before any hazardous or contaminated materials, including, if applicable, ACMs (the "Wastes") are removed from the Site, you will sign manifests naming you as the generator of the Wastes (or, if you are not the generator, you will arrange for the generator to sign). You will select the treatment or disposal facility to which any Wastes are taken. H&H will not be the generator or owner of, nor will it possess, take title to, or assume legal liability for any Wastes at or removed from the Site. H&H will not have responsibility for or control of the Site or of operations or activities at the Site other than its own. H&H will not undertake, arrange for or control the handling, treatment, storage, removal, shipment, transportation or disposal of any Wastes at or removed from the Site, other than any laboratory samples it collects or tests. You agree to defend, indemnify and hold the H&H Indemnitees harmless for any costs or liability incurred by H&H in defense of or in payment for any legal actions in which it is alleged that H&H is the owner, generator, treater, storer or disposer of any Wastes.
- 11. Limits on H&H's Responsibility.** H&H will not be responsible for the acts or omissions of contractors or others at the Site, except for its own subcontractors and employees. H&H will not supervise, direct or assume control over or the authority to stop any contractor's work, nor shall H&H's professional activities nor the presence of H&H or its employees and subcontractors be construed to imply that H&H has authority over or responsibility for the means, methods, techniques, sequences or procedures of construction, for work site health or safety precautions or programs, or for any failure of contractors to comply with contracts, plans, specifications or laws. Any opinions by H&H of probable costs of labor, materials, equipment or services to be furnished by others are strictly estimates and are not a guarantee that actual costs will be consistent with the estimates.
- 12. Changed Conditions.**
- You recognize the uncertainties related to the Services (including, without limitation, environmental and geotechnical Services), which often require a phased or exploratory approach, with the need for additional Services becoming apparent during the initial Services. You also recognize that actual conditions encountered may vary significantly from those anticipated, that laws and regulations are subject to change, and that the requirements of regulatory authorities are often unpredictable.
 - If changed or unanticipated conditions or delays make additional Services necessary or result in additional costs or time for performance, H&H will notify you and the parties will negotiate appropriate changes to the scope of Services, compensation and schedule.
 - If no agreement can be reached, H&H will be entitled to terminate the Services and to be equitably compensated for the Services already performed. H&H will not be responsible for delays or failures to perform due to weather, labor disputes, intervention by or inability to get approvals from public authorities, acts or omissions on your part, or any other causes beyond H&H's reasonable control, and you will compensate H&H for any resulting increase in its costs.
- 13. Documents and Information.** All documents, data, calculations and work papers prepared or furnished by H&H are instruments of service and will remain H&H's property. Designs, reports, data and other work product delivered to you are for your use only, for the limited purposes disclosed to H&H. Any delayed use, use at another site, use on another project, or use by a third party will be at the user's sole risk, and without any liability to H&H. Any technology, methodology or technical information learned or developed by H&H will remain its property. Provided H&H is not in default under this Agreement, H&H's designs will not be used to complete this project by others, except by written agreement relating to use, liability and compensation.
- 14. Electronic Media.** In accepting and utilizing any drawings, reports and data on any form of electronic media generated by H&H, you covenant and agree that all such electronic files are instruments of service of H&H, who shall be deemed the author and shall retain all common law, statutory law and other rights, including copyrights. In the event of a conflict between the signed documents prepared by H&H and electronic files, the signed documents shall govern. You agree not to reuse these electronic files, in whole or in part, for any purpose or project other than the project that is the subject of this Agreement. Any transfer of these electronic files to others or reuse or modifications to such files by you without the prior written consent of H&H will be at the user's sole risk and without any liability to H&H.
- 15. Confidentiality; Subpoenas.** Information about this Agreement and H&H's Services and information you provide to H&H regarding your business and the Site, other than information available to the public and information acquired from third parties, will be maintained in confidence and will not be disclosed to others without your consent, except as H&H reasonably believes is necessary: (a) to perform the Services; (b) to comply with professional standards to protect public health, safety and the environment; and (c) to comply with laws, regulations, court orders and professional obligations. H&H will make reasonable efforts to give you prior notice of any disclosure under (b) or (c) above. Information available to the public and information acquired from third parties will not be considered confidential. You will reimburse H&H for responding to any subpoena or governmental inquiry or audit related to the Services, at the rates set forth in the applicable Proposal, amendment or change order.



- 16. Insurance.** During performance of the Services, H&H will maintain workers' compensation, commercial general liability, automobile liability, and professional liability/contractor's pollution liability insurance. H&H will furnish you certificates of such insurance on request.
- 17. Indemnification.** You agree to hold harmless, indemnify, and defend the H&H Indemnitees against all claims, suits, fines and penalties, including mandated cleanup costs and attorneys' fees and other costs of settlement and defense, which claims, suits, fines, penalties or costs arise out of or are related to this Agreement or the Services, except to the extent they are caused by H&H's negligence or willful misconduct.
- 18. Limitation of Remedies.**
- To the fullest extent permitted by law and notwithstanding anything else in this Agreement to the contrary, the aggregate liability of H&H and its affiliates and subcontractors and their employees, officers, directors and agents (collectively referred to in this paragraph as "H&H") for all claims arising out of this Agreement or the Services is limited to \$50,000 or, if greater, 10% of the compensation received by H&H under this Agreement.
 - You may elect to increase the limit of liability by paying an additional fee, such fee to be negotiated prior to the execution of this Agreement.
 - Any claim will be deemed waived unless written notice of such claim is received by H&H within one year of substantial completion of the Services.
 - H&H will not be liable for lost profits, loss of use of property, delays, or other special, indirect, incidental, consequential, punitive, exemplary, or multiple damages.
 - H&H will not be liable to you or the Site owner for injuries or deaths suffered by H&H's or its subcontractors' employees.
 - You will look solely to H&H for your remedy for any claim arising out of or relating to this Agreement, including any claim arising out of or relating to alleged negligence or errors or omissions of any H&H principal, officer, employee or agent. To the extent damages are covered by property insurance or any other insurance, both you and H&H waive all rights against each other and against the contractors, consultants, agents, and employees of the other, for damages, except such rights as they may have to the proceeds of such insurance as set forth in this Agreement. The you or H&H, as appropriate, shall require of the contractors, consultants, agents, and employees of any of them, similar waivers in favor of the other parties enumerated herein.
- 19. Disputes.**
- All disputes between you and H&H shall be subject to non-binding mediation.
 - Either party may demand mediation by serving a written notice stating the essential nature of the dispute, the amount of time or money claimed, and requiring that the matter be mediated within forty-five (45) days of service of notice.
 - The mediation shall be administered by the American Arbitration Association in accordance with its most recent Construction Mediation Rules, or by such other person or organization as the parties may agree upon.
 - No action or suit may be commenced unless mediation has occurred but did not resolve the dispute, or unless a statute of limitation period would expire if suit were not filed prior to such forty-five (45) days after service of notice. However, where non-payment of an invoice has occurred and H&H sends you a final demand letter for payment, your failure to respond within ten (10) days of receipt (or, for certified mail, the date of the first attempt to deliver the letter to your address of record if you ultimately do not accept receipt of the letter) of such letter will be deemed to be a waiver of your right to enforce this mediation clause and H&H may immediately file suit to enforce the terms of this Agreement.
- 20. Miscellaneous.**
- This Agreement and all claims relating thereto shall be governed by the substantive and procedural laws of the State of Illinois, as they presently exist or may hereafter be amended, without regard to principles of conflict of laws.
 - The above terms and conditions regarding Limitation of Remedies and Indemnification shall survive the completion of the Services under this Agreement and the termination of the contract for any cause.
 - Any amendment to these Terms and Conditions must be in writing and signed by both parties. No modification of these Terms and Conditions will be binding against H&H unless specifically approved in writing by a Principal of H&H.
 - Having received these Terms and Conditions, your oral authorization to commence Services, your acceptance of performance of the Services, your actions, or your use of the Report or Work Product constitutes your acceptance of them.
 - This Agreement supersedes any contract terms, purchase orders or other documents issued by you, even if signed by an authorized representative of H&H.
 - Neither party may assign or transfer this Agreement or any rights or duties hereunder without the written consent of the other party.
 - Your failure or the failure of your successors or assigns to receive payment, reimbursement, insurance proceeds or grant funds from any other party for any reason whatsoever shall not absolve you, your successors or assigns of any obligation to pay any sum to H&H under this agreement.
 - These Terms and Conditions shall govern over any inconsistent terms in H&H's Proposal.
 - The provisions of this Agreement are severable; if any provision is unenforceable it shall be appropriately limited and given effect to the extent it is enforceable.
 - The covenants and agreements contained in this Agreement shall apply to, inure to the benefit of and be binding upon the parties hereto and upon their respective successors and assigns.
 - Any reports generated by H&H will be subject to H&H's standard report limitations for that particular type of report.
- 21. Asbestos Abatement Services (If Applicable).** If the Services include asbestos abatement services, then the following terms and conditions will apply and will supersede any conflicting terms contained elsewhere in this Agreement.
- You acknowledge that conditions can vary from those encountered at the times and locations of explorations and data collection, and that the limitation on available data may result in some level of uncertainty with respect to the interpretation of those conditions, despite due professional care. H&H therefore cannot guaranty specific results such as the identification or removal of all asbestos or other contamination.



- 22. Microbial Services (If Applicable).** If the Services include microbial services, then the following terms and conditions will apply and will supersede any conflicting terms contained elsewhere in this Agreement.
- a. You recognize that meeting the standard of care does not establish an assurance that corrective procedures will be permanent. Because Microbial infestations are created by near-omnipresent living microscopic spores, grows very quickly and are influenced by nanoclimatological conditions that are very difficult to detect and sources of water intrusion, elevated moisture or relative humidity over which H&H has neither control or responsibility, H&H cannot and does not claim that its Services will eliminate the risk of a Microbial infestation recurring.
 - b. You acknowledge that the Services entail risk of personal injury and property damage (including cross-contamination) that cannot be avoided, even with the exercise of due care. You also acknowledge that environmental conditions can vary from those encountered at the times and locations of explorations and data collection, and that the limitation on available data may result in some level of uncertainty with respect to the interpretation of these conditions, despite due care. H&H therefore cannot guaranty specific results such as the identification of all contamination or other environmental conditions or problems nor their resolution.
 - c. You acknowledge that Microbial infestations may be hidden from view and concealed in locations that are difficult to discover. Accordingly, you agree that despite H&H's efforts, some Microbial locations may remain undetected. In such situations, you agree that you will have no claim against H&H provided H&H followed all applicable laws and regulations pertaining to the Work.
 - d. For purposes of this Agreement, Microbial is defined as any and all fungal and/or bacterial growth including but not limited to mold, mildew, yeast, fungus, fungi, bacteria, spores, odors, particulates, vapors, gas, or other emissions produced by or arising out of or toxins emanating therefrom.
 - e. You further agree that where H&H shall performs Services intended to minimize the risk of Microbial infestations, H&H shall not be liable for damages resulting from Microbial contamination including but not limited to fungal or bacterial infestations and water damage or dry or wet rot and you agree to waive any Microbial infestation claim(s) against H&H, and you agree to indemnify, defend and hold the H&H Indemnitees harmless from any claim alleging that H&H's Services caused or aggravated a Microbial infestation or did not prevent a Microbial infestation from re-occurring.



August 15, 2024
HR Green, Inc. – IL 137/Buckley Road MUP Project – LCDOT, Lake County, IL
Phase II Environmental Services (CCDD Assessment and Documentation)
Proposal No.: 81.P013065.25
ATTACHMENTS

APPENDIX D

CLIENT PROVIDED INFORMATION



EVALUATION OF SPECIAL WASTE AREAS

SECTION 1 - IL 21/MILWAUKEE to SAGE/BROOK HAVEN.

REC SITE #s - 3, 6, 10, 11, 12, 15, 19, 22, 23, 26, 28

REC → SITE 3 (OFF ROW) → 200 FT

NON-REC LENGTHS - 620 FT RECS. - 260'

- 2,950 FT - 550'

- 3700 FT - 180'

- 3500 FT - 240'

- 960 FT - 130'

- 460 FT - 200'

- 700 FT - 700'

- 12,890

2,260

SECTION 2 - SAGE/BROOK HAVEN to IL 43/N Waukegan.

NON REC LENGTHS 690' RECS. 980' (TOUWAY)

2800'

3,490'

980'

SECTION 3 IL 43 N. Waukegan to Great Lakes Drive.

NON REC LENGTHS 2900' REC 3300'

SECTION 4 Great Lakes Drive to End.

SECTION 4 - ALL REC → 1.25 miles

6600 miles

TOTAL NON REC = 19,280

3.65 mile

EXECUTIVE SUMMARY

This report presents the results of an environmental site assessment for the improvements to IL 137 from the Des Plaines River Trail to the Robert McClory Bike Path, Libertyville, Green Oaks, North Chicago, and Great Lakes, Lake County. This report was prepared on behalf of the Illinois Department of Transportation (IDOT) by the Illinois State Geological Survey (ISGS).

The following sites were examined for this project. The tables below list sites along the project for which recognized environmental conditions (RECs)* were identified for each address or address range (Table 1); sites along the project for which only de minimis conditions were identified (Table 2); sites along the project for which no RECs or de minimis conditions were identified (Table 3); and sites adjoining but not on the project that were identified on environmental databases (Table 4). Further investigation of sites with RECs may be desired.

Table 1. The following sites along the project were determined to contain RECs:

Property name IDOT parcel #	ISGS site #	REC(s), including de minimis conditions	Regulatory database(s)	Land use
Independence Grove Forest Preserve NA	3497/A-1	Former USTs with documented releases; potential UST(s); potential monitoring wells; evidence of chemical use; potential drums; fill; landfill; former dumping; potential solid waste; impacted soil, sediment, surface water, and groundwater; VOCs, SVOCs, and metals; likely past pesticide and/or herbicide use; natural gas pipeline; transformer; potential ACM and lead paint	Active SEMS, RCRA, BOL, LUST, UST, IEMA	Recreational
Adler Park School NA	3497/A-3	Potential UST; VOCs, SVOCs, and metals; soil pile; transformer; potential ACM and lead paint	UST	Educational
Des Plaines River NA	3497/A-6	Non-attainment of water quality; likely natural gas pipeline	None	Stream

Lake County Forest Preserve District NA	3497/A-10	Potential UST(s); potential former chemical use; likely past pesticide and/or herbicide use; natural gas pipelines	None	Recreational
Ascension Cemetery NA	3497/A-11	Former USTs with a documented release; ASTs; drums; chemical container; natural gas pipelines; soil and gravel piles; transformers; potential ACM and lead paint	BOL, LUST, UST, IEMA	Cemetery
Rosborough Partners, Inc. NA	3497/A-12	Drum; potential ACM and lead paint	None	Commercial
Vacant lot NA	3497/A-15	Chemical container; likely natural gas pipeline	None	Vacant
Residence NA	3497/A-19	Drum; transformer; potential ACM and lead paint	None	Residential
Green Oaks Village Office NA	3497/A-22	Potential former chemical use; likely natural gas pipeline; transformer; potential ACM and lead paint	None	Government
Vacant land NA	3497/A-23	Fill; natural gas pipelines	None	Vacant
Residence NA	3497/A-26	Potential AST; chemical container; likely natural gas pipeline; transformer; potential ACM and lead paint	None	Residential
Lake Kathryn NA	3497/A-28	Fill; likely natural gas pipeline; transformer	None	Recreational
ROW NA	3497/A-31	AST; fill; natural gas pipeline; likely natural gas pipeline; transformer; potential ACM and lead paint	None	Transportation

Abbott/AbbVie west campus NA	3497/A-36	UST; former USTs with documented releases; potential monitoring wells; evidence of chemical use (including radioactive materials); potential injection well; potential drums; potential spills; potential air releases; impacted soil; natural gas pipeline; transformers; potential ACM and lead paint	RCRA, BOL, LUST, UST, IEMA, TRI	Industrial
Abbott/AbbVie east campus NA	3497/A-38	Former USTs with documented releases; evidence of chemical use (including radioactive materials); potential injection well; potential drums; spill; potential spills; air releases; potential air releases; impacted soil and groundwater; natural gas pipelines; transformers; potential ACM and lead paint	RCRA, BOL, LUST, UST, IEMA, ERNS, TRI	Industrial
City of North Chicago Fire Department NA	3497/A-40	Potential chemical use; likely natural gas pipeline; transformer; potential ACM and lead paint	None	Municipal
Vacant land NA	3497/A-42	Spill; potential spill; impacted soil; likely past pesticide and/or herbicide use; natural gas pipelines	BOL, SRP, IEMA, ERNS	Vacant
Commercial building NA	3497/A-47	Former USTs; potential UST(s); potential former chemical use; VOCs; natural gas pipelines; transformer; potential ACM and lead paint	UST	Commercial

Vacant lot NA	3497/A-48	Presence on the RCRA, BOL, LUST, UST, and IEMA lists; HAA; likely natural gas pipeline	RCRA, BOL, LUST, UST, IEMA, HAA, AUL	Vacant
ROW NA	3497/A-49	Spills	BOL, IEMA	Transportation
Railroad NA	3497/A-50	Railroad signal box; spills; potential spill; potentially impacted soil; HAA; likely natural gas pipeline; transformers	BOL, IEMA, HAA, AUL	Transportation
Vacant land NA	3497/A-51	Evidence of former chemical use; potential drums; potential spill; potential air release	Archived SEMS, RCRA, BOL, IEMA	Vacant
Utility corridor NA	3497/A-52	VOCs; likely natural gas pipeline	None	Utilities
Commercial building NA	3497/A-53	Presence on the UST, ERNS, and TRI lists; potential former AST; evidence of chemical use; potential spills; potential air releases	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Commercial
Navy Exchange Administrative Offices NA	3497/A-54	Presence on the UST, ERNS, and TRI lists; potential former AST; evidence of chemical use; former drums; potential spills; potential air releases; likely natural gas pipeline; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Commercial
Guard station NA	3497/A-55	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential spills; potential air releases; likely natural gas pipeline; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Military

Skokie River NA	3497/A-56	Non-attainment of water quality (including chloride); potential spill; impacted sediment and surface water; likely natural gas pipeline	Active SEMS, BOL, IEMA	Stream
US Marine Corps NA	3497/A-57	Presence on the SEMS, UST, IEMA, ERNS, and TRI lists; potential AST; evidence of chemical use; potential spills; potential air releases; natural gas pipeline; transformer; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Military
Child Development Center NA	3497/A-58	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential former chemical use; potential spills; potential air releases; natural gas pipeline; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Commercial
Residential building NA	3497/A-59	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential spills; potential air releases; transformer; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Residential building NA	3497/A-60	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential spills; potential air releases; natural gas pipeline; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential

Residential building NA	3497/A-61	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential spills; potential air releases; likely natural gas pipeline; transformer; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Willow Glen Golf Course NA	3497/A-62	Presence on the ERNS and TRI lists; former UST with a documented release; potential UST(s); former ASTs; potential ASTs; monitoring wells; potential monitoring wells; evidence of chemical use; potential drums; landfill; potential surface impoundments; potential spills; potential air releases; impacted soil, groundwater, surface water, and sediment; transformers; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, LUST, UST IEMA, ERNS, TRI, AULs	Commercial
Vacant lot NA	3497/A-63	Presence on the SEMS, UST, IEMA, and TRI lists; potential former AST; evidence of chemical use; former drums; former chemical containers; potential spills; potential air releases; natural gas pipeline	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Vacant

US Military Entrance Processing Command NA	3497/A-64	Presence on the TRI list; UST; former USTs with documented releases; AST; former monitoring well; potential monitoring wells; evidence of chemical use; former drums; chemical container; spill; potential spills; potential air releases; impacted soil and groundwater; transformers; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, LUST, UST IEMA, ERNS, TRI, AULs	Military
Residential building NA	3497/A-65	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential spills; potential air releases; natural gas pipeline; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Residence NA	3497/A-66	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential spills; potential air releases; likely natural gas pipeline; transformer; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Residence NA	3497/A-67	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential spills; potential air releases; likely natural gas pipeline; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential

Residence NA	3497/A-68	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential spills; potential air releases; likely natural gas pipeline; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Residence NA	3497/A-69	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential spills; potential air releases; likely natural gas pipeline; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Residential building NA	3497/A-70	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential spills; potential air releases; likely natural gas pipeline; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Residence NA	3497/A-71	Presence on the SEMS, RCRA, UST, and TRI lists; potential former AST; evidence of chemical use; potential spills; potential air releases; natural gas pipeline; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential

Residential building NA	3497/A-72	Presence on the SEMS, RCRA, UST, and TRI lists; potential former AST; evidence of chemical use; potential spills; potential air releases; natural gas pipeline; transformer; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
ROW NA	3497/A-73	Potential UST(s); potential former chemical use; spill	BOL, IEMA	Transportation
Mobil gas station NA	3497/A-74	USTs; potential UST(s); monitoring wells; potential former chemical use; transformers; potential ACM and lead paint	BOL, UST	Commercial
Tokyo at Siam NA	3497/A-75	Potential UST(s); potential former chemical use; drum; potential ACM and lead paint	None	Commercial
Residence NA	3497/A-76	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; potential spills; potential air releases; transformer; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Residence NA	3497/A-77	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; potential spills; potential air releases; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential

Residence NA	3497/A-78	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; potential spills; potential air releases; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Residence NA	3497/A-79	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; potential spills; potential air releases; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Residence NA	3497/A-80	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; potential spills; potential air releases; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Residence NA	3497/A-81	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; potential spills; potential air releases; transformer; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Residence NA	3497/A-82	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; potential spills; potential air releases; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Residential building NA	3497/A-83	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; potential spills; potential air releases; transformer; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential

Residential building NA	3497/A-84	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; potential spills; potential air releases; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Vacant land NA	3497/A-85	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; drums; potential spills; potential air releases	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Vacant
Captain James A. Lovell Federal Healthcare Center NA	3497/A-86	USTs; former USTs with documented releases; potential UST; former AST; potential AST; evidence of chemical use; potential drums; potential chemical containers; spills; impacted soil; natural gas pipeline; transformers; potential ACM and lead paint	Active SEMS, RCRA, BOL, LUST, UST, IEMA, ERNS	Commercial
Residential building NA	3497/A-87	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential spills; potential air releases; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Residential building NA	3497/A-88	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential spills; potential air releases; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential

Residence NA	3497/A-89	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential spills; potential air releases; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Residential building NA	3497/A-90	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential spills; potential air releases; transformer; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential
Vacant lot NA	3497/A-91	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential spills; potential air releases; transformer	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Vacant
Great Lakes Fire Department NA	3497/A-92	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; AST; potential chemical use; potential spills; potential air releases; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Municipal
Railroad NA	3497/A-93	Railroad signal box; transformers	None	Transportation
Water distribution building NA	3497/A-94	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; potential spills; potential air releases; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Utility

Armed Forces Bank NA	3497/A-95	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential former AST; potential spills; potential air releases; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Commercial
Commercial buildings NA	3497/A-96	Presence on the SEMS, RCRA, UST, and TRI lists; potential AST; spill; potential spills; potential air releases; transformer; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Commercial
Guard station NA	3497/A-97	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; potential spills; potential air releases; transformer; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Military
ROW NA	3497/A-98	Spill; potential spill	IEMA, ERNS	Transportation
Guard station NA	3497/A-99	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; potential spills; potential air releases; transformers; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Military
Vacant lot NA	3497/A-100	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; spill; potential spills; potential air releases	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Vacant

Military buildings NA	3497/A-101	Presence on the UST and TRI lists; potential AST; potential monitoring wells; evidence of chemical use; drums; landfills; spill; potential spills; air release; potential air releases; impacted soil and groundwater; transformer; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI, AULs	Military
Guard station NA	3497/A-102	Presence on the UST, IEMA, ERNS, and TRI lists; potential AST; evidence of chemical use; potential spills; potential air releases; transformers; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Military
ROW NA	3497/A-104	Fill; potential spill	ERNS	Transportation
US Army Corps of Engineers and US Air Force Civil Air Patrol offices NA	3497/A-105	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; protruding pipe; potential spills; potential air releases; transformer; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Military
Navy Operational Support Center Chicago NA	3497/A-106	Presence on the SEMS, UST, IEMA, ERNS, and TRI lists; potential AST; evidence of chemical use; potential spills; potential air releases; transformers; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Military

Guard station NA	3497/A-107	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; potential spills; potential air releases; potential ACM and lead paint	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Military
Barracks NA	3497/A-108	Presence on the SEMS, RCRA, UST, IEMA, ERNS, and TRI lists; potential AST; potential spills; potential air releases; transformers; potential ACM	Active SEMS, RCRA CORRACTS, RCRA, BOL, IEMA, ERNS, TRI	Residential

Table 2. The following sites along the project were determined to contain de minimis conditions only:

Property name IDOT parcel #	ISGS site #	De minimis condition(s)	Land use
Holiday Inn Express NA	3497/A-2	Transformer; potential ACM and lead paint	Commercial
Adler Park NA	3497/A-4	Potential ACM and lead paint	Recreational
Bridge NA	3497/A-5	Potential ACM	Transportation
Residences NA	3497/A-7	Transformers; potential ACM and lead paint	Residential
Matigan Preschool NA	3497/A-8	Potential ACM and lead paint	Educational
Residences NA	3497/A-9	Transformers; potential ACM and lead paint	Residential
Residences NA	3497/A-13	Transformer; potential ACM and lead paint	Residential
Vacant land NA	3497/A-14	Likely past pesticide and/or herbicide use	Vacant
Residences and vacant lot NA	3497/A-16	Transformers; potential ACM and lead paint	Residential/ vacant

Attachment 2, page 1. Site location map, Site 3497/A-1.

All site boundaries are approximate and should not be used as actual parcel boundaries.



2402181
⊗ = REC

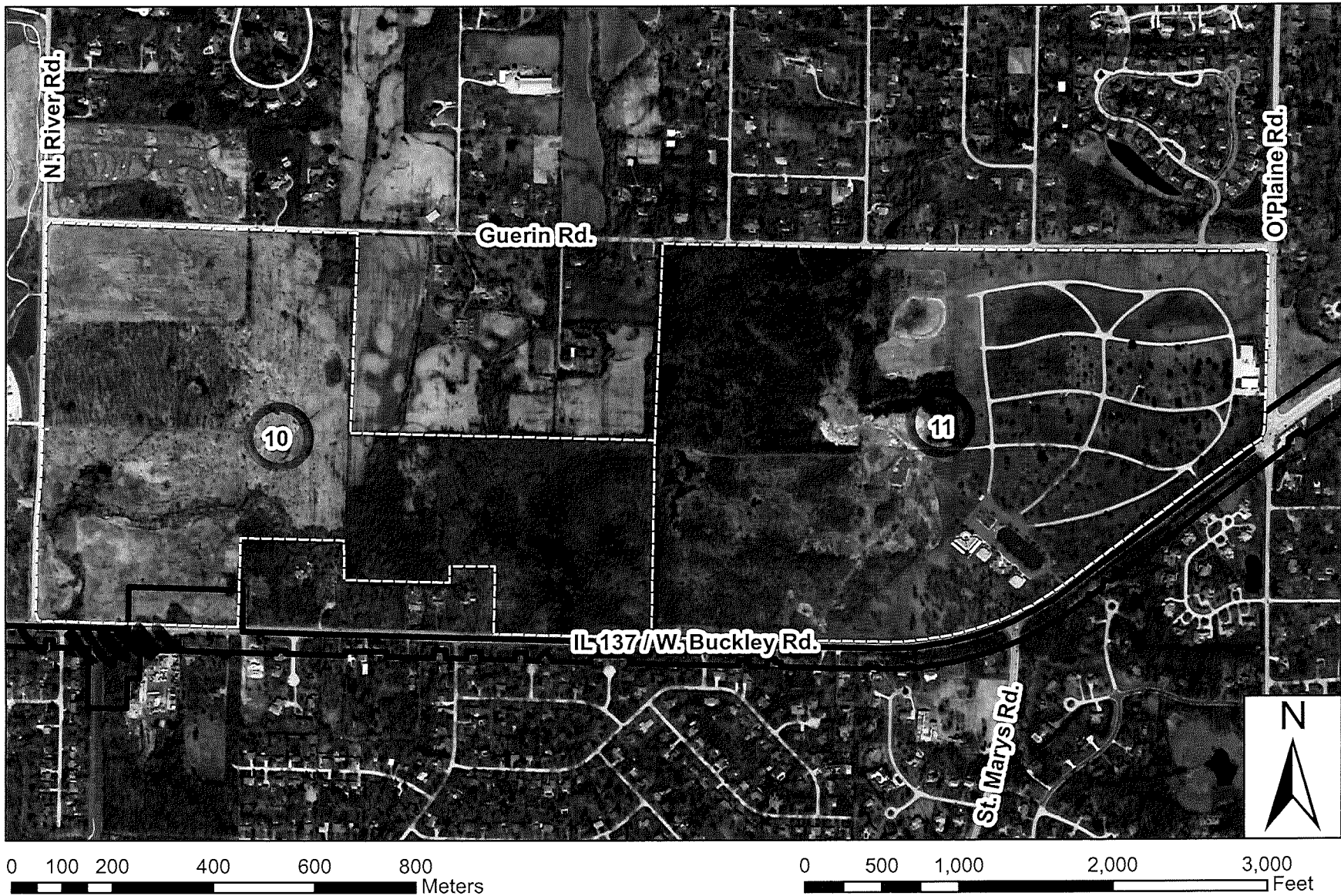
Attachment 2, page 2. Site location map, Sites 3497/A-2 through 3497/A-9.
All site boundaries are approximate and should not be used as actual parcel boundaries.



SEE PAGE 4.

Attachment 2, page 3. Site location map, Sites 3497/A-10 through 3497/A-11.

All site boundaries are approximate and should not be used as actual parcel boundaries.



Attachment 2, page 4. Site location map, Sites 3497/A-12 through 3497/A-17.
All site boundaries are approximate and should not be used as actual parcel boundaries.



Attachment 2, page 5. Site location map, Sites 3497/A-18 through 3497/A-20.
All site boundaries are approximate and should not be used as actual parcel boundaries.



Attachment 2, page 6. Site location map, Sites 3497/A-21 through 3497/A-26.
All site boundaries are approximate and should not be used as actual parcel boundaries.



Attachment 2, page 7. Site location map, Sites 3497/A-27 through 3497/A-32.
All site boundaries are approximate and should not be used as actual parcel boundaries.



Attachment 2, page 8. Site location map, Sites 3497/A-33 through 3497/A-42.

All site boundaries are approximate and should not be used as actual parcel boundaries.



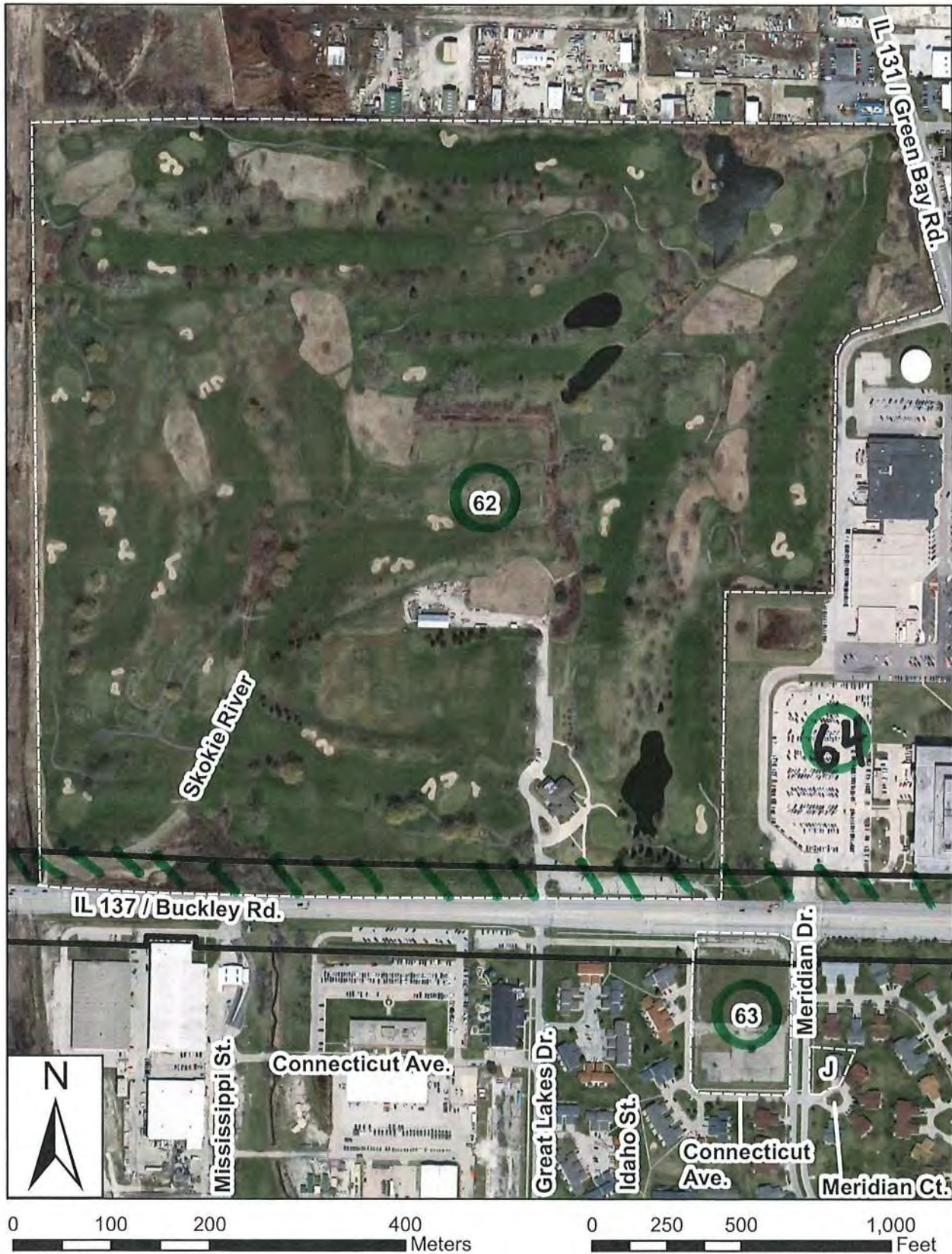
Attachment 2, page 9. Site location map, Sites 3497/A-43 through 3497/A-61.

All site boundaries are approximate and should not be used as actual parcel boundaries.



Attachment 2, page 10. Site location map, Sites 3497/A-62 and 3497/A-63.

All site boundaries are approximate and should not be used as actual parcel boundaries.



Attachment 2, page 11. Site location map, Sites 3497/A-64 through 3497/A-85.

All site boundaries are approximate and should not be used as actual parcel boundaries.



Attachment 2, page 12. Site location map, Site 3497/A-86.

All site boundaries are approximate and should not be used as actual parcel boundaries.



Attachment 2, page 13. Site location map, Sites 3497/A-87 through 3497/A-95.

All site boundaries are approximate and should not be used as actual parcel boundaries.



Attachment 2, page 14. Site location map, Sites 3497/A-96 through 3497/A-108.

All site boundaries are approximate and should not be used as actual parcel boundaries.

