



DRAFT

**Local Public Agency
Engineering Services Agreement**

Using Federal Funds? Yes No

Agreement For
CB-PE

Agreement Type
Original

Using State Funds (Non-MFT)? Yes No

LOCAL PUBLIC AGENCY

Local Public Agency		County	Section Number	Job Number
Lake		Lake	24-00999-10-DR	
Project Number	Contact Name	Phone Number	Email	
	Michael Burke	(847) 377-7400	mjburke@lakecountyil.com	

SECTION PROVISIONS

Local Street/Road Name	Key Route	Length	Structure Number
LCDOT Culverts #1263 and #2002			
Location Termini			Add Location
Robert McClory Bikepath over Waukegan River & Deerfield Parkway over Aptakisic Creek			Remove Location

Project Description
The project will include removal and replacement of Culverts 1263 and 2002, staging and traffic control, pavement restoration, and landscape restoration.

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

AGREEMENT FOR

Phase I - Preliminary Engineering Phase II - Design Engineering

CONSULTANT

Prime Consultant (Firm) Name	Contact Name	Phone Number	Email	
Bravo Company Engineering	Joseph Kozial	(630) 702-7855	jkozial@bravocoeng.com	
Address	City	State	Zip Code	
550 Warrenville Road, Suite 220	Lisle	IL	60532	

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

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

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

Regional Engineer Deputy Director, Office of Highways Project Implementation, Regional Engineer, Department of Transportation

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 Summary Sheet
- Subconsultant Proposals
- _____
- _____

I. THE ENGINEER AGREES,

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

II. THE LPA AGREES,

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

shall be due and payable to the ENGINEER.

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

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

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

Method of Compensation:

- Percent
- Lump Sum
- Specific Rate
- Cost plus Fixed Fee: Fixed

Total Compensation = DL + DC + OH + FF

Where:

DL is the total Direct Labor,

DC is the total Direct Cost,

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

FF is the Fixed Fee.

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

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

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

III. IT IS MUTUALLY AGREED,

1. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amount, recipients and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records and supporting documents related to the contract shall be available for review and audit by the Auditor General, and the DEPARTMENT; the Federal Highways Administration (FHWA) or any authorized representative of the federal government, and to provide full access to all relevant materials. Failure to maintain the books, records and supporting documents required by this section shall establish a presumption in favor of the DEPARTMENT for the recovery of any funds paid by the DEPARTMENT under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.
2. That the ENGINEER shall be responsible for any all damages to property or persons out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and save harmless the LPA, the DEPARTMENT, and their officers, agents and employees from all suits, claims, actions or damages liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.

The LPA will notify the ENGINEER of any error or omission believed by the LPA to be caused by the negligence of the ENGINEER as soon as practicable after the discovery. The LPA reserves the right to take immediate action to remedy any error or omission if notification is not successful; if the ENGINEER fails to reply to a notification; or if the conditions created by the error or omission are in need of urgent correction to avoid accumulation of additional construction costs or damages to property and reasonable notice is not practicable.
3. This AGREEMENT may be terminated by the LPA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LPA all drawings, plats, surveys, reports, permits, agreements, soils and foundation analysis, provisions, specifications, partial and completed estimates and data, if any from soil survey and subsurface investigation with the understanding that all such materials becomes the property of the LPA. The LPA will be responsible for reimbursement of all eligible expenses incurred under the terms of this AGREEMENT up to the date of the written notice of termination.

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

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

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

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

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

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

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

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

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

Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act, the ENGINEER and LPA 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
Bravo Company Engineering	82-2099477	\$425,395.27

Subconsultants	TIN/FEIN/SS Number	Agreement Amount
Jorgensen & Associates, Inc.	36-3668574	\$97,474.00
Huff & Huff, Inc.	04-2393851	\$33,039.00
Midland Standard Engineering and Testing	20-2435502	\$11,545.00
Engineering Resource Associates	36-3686466	\$278,621.48
Santacruz Land Acquisitions	36-3851733	\$68,800.00
Subconsultant Total		\$489,479.48
Prime Consultant Total		\$425,395.27
Total for all work		\$914,874.75

AGREEMENT SIGNATURES

Executed by the LPA:

Attest: The Local Public Agency Type of Local Public Agency

By (Signature & Date)

By (Signature & Date)

Local Public Agency Local Public Agency Type Clerk

Title

(SEAL)

Executed by the ENGINEER:

Attest: Prime Consultant (Firm) Name

By (Signature & Date)
 4-3-2026

Title

By (Signature & Date)
 4-3-2026

Title

For information about IDOTs collection and use of confidential information review the department's [Identity Protection Policy](#).

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	Bravo Company Engineering	Lake	24-00999-10-DR

**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

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	Bravo Company Engineering	Lake	24-00999-10-DR

**EXHIBIT B
PROJECT SCHEDULE**

See Attached

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	Bravo Company Engineering	Lake	24-00999-10-DR

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

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

Form Not Applicable (engineering services less than the threshold)

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

		No	Yes
1	Do the written QBS policies and procedures discuss the initial administration (procurement, management and administration) concerning engineering and design related consultant services?	<input type="checkbox"/>	<input type="checkbox"/>
2	Do the written QBS policies and procedures follow the requirements as outlined in Section 5-5 and specifically Section 5-5.06 (e) of the BLRS Manual?	<input type="checkbox"/>	<input type="checkbox"/>
3	Was the scope of services for this project clearly defined?	<input type="checkbox"/>	<input type="checkbox"/>
4	Was public notice given for this project?	<input type="checkbox"/>	<input type="checkbox"/>
5	Do the written QBS policies and procedures cover conflicts of interest?	<input type="checkbox"/>	<input type="checkbox"/>
6	Do the written QBS policies and procedures use covered methods of verification for suspension and debarment?	<input type="checkbox"/>	<input type="checkbox"/>
7	Do the written QBS policies and procedures discuss the methods of evaluation?	<input type="checkbox"/>	<input type="checkbox"/>
Project Criteria		Weighting	
8	Do the written QBS policies and procedures discuss the method of selection?	<input type="checkbox"/>	<input type="checkbox"/>
Selection committee (titles) for this project			
Top three consultants ranked for this project in order			
1			
2			
3			
9	Was an estimated cost of engineering for this project developed in-house prior to contract negotiation?	<input type="checkbox"/>	<input type="checkbox"/>
10	Were negotiations for this project performed in accordance with federal requirements.	<input type="checkbox"/>	<input type="checkbox"/>
11	Were acceptable costs for this project verified?	<input type="checkbox"/>	<input type="checkbox"/>
12	Do the written QBS policies and procedures cover review and approving for payment, before forwarding the request for reimbursement to IDOT for further review and approval?	<input type="checkbox"/>	<input type="checkbox"/>
13	Do the written QBS policies and procedures cover ongoing and finalizing administration of the project (monitoring, evaluation, closing-out a contract, records retention, responsibility, remedies to violations or breaches to a contract, and resolution of disputes)?	<input type="checkbox"/>	<input type="checkbox"/>
14	QBS according to State requirements used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15	Existing relationship used in lieu of QBS process?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16	LPA is a home rule community (Exempt from QBS).	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Exhibit
Direct Costs Worksheet**

Local Public Agency	County	Section Number	Job Number
Lake	Lake	24-00999-10-DR	

Consultant/Subconsultant Name

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Per Diem (Per Federal GSA)	Up to Federal rate maximum			
Lodging (per Federal GSA)	Actual Cost (Up to Federal rate maximum)			
Lodging Taxes and Fees (per Federal GSA)	Actual Cost			
Air Fare	Coach rate, actual cost, requires minimum two weeks; notice, with prior IDOT approval			
Vehicle Mileage (per Federal GSA)	Up to federal rate maximum			
Vehicle Owned or Leased (No mileage charged allowed)	\$32.50/half day (4 hours or less) or \$65/full			
Vehicle Rental	Actual Cost (Up to \$55/day)			
Tolls	Actual Cost			
Parking	Actual Cost			
Overtime	Premium portion (Submit supporting documentation)			
Shift Differential	Actual Cost (Based on firm's policy)			
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			
Project Specific Insurance	Actual Cost			
Monuments (Permanent)	Actual Cost			
Photo Processing	Actual Cost			
2-Way Radio (Survey or Phase III Only)	Actual Cost			
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			
CADD	Actual Cost (Max \$15/hour)			
Web Site	Actual Cost (Submit supporting documentation)			
Advertisements	Actual Cost (Submit supporting documentation)			
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			
Recording Fees	Actual Cost			
Transcriptions (specific to project)	Actual Cost			
Courthouse Fees	Actual Cost			
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			

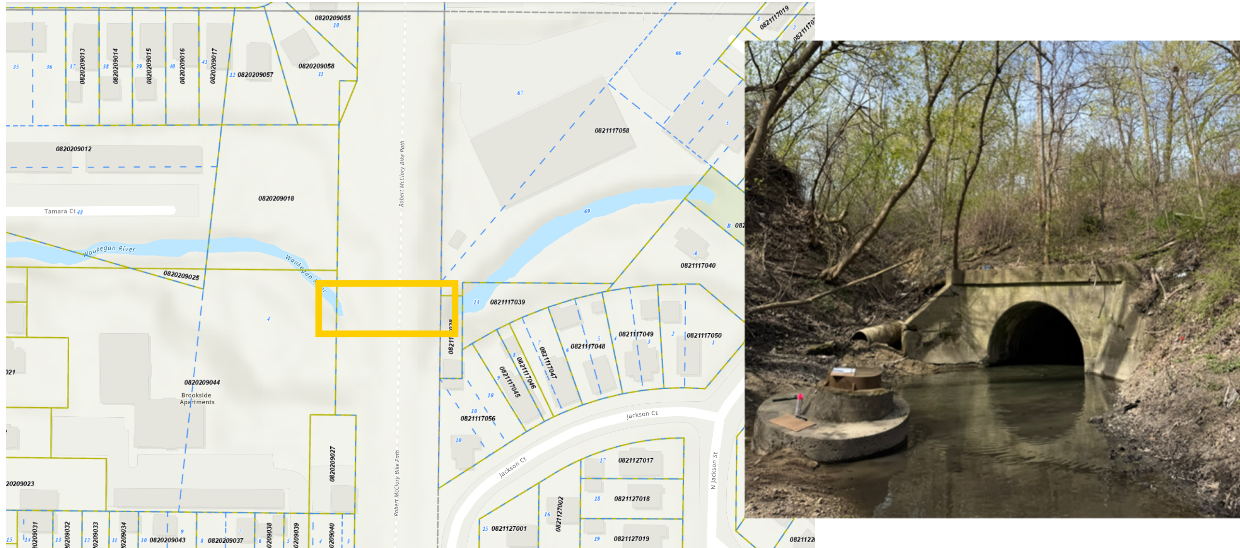
ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			
Utility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			
Testing of Soil Samples	Actual Cost			
Lab Services	Actual Cost (Provide breakdown of each cost)			
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			
TOTAL DIRECT COSTS:				

EXHIBIT A – SCOPE OF SERVICES

I. TECHNICAL APPROACH AND PROJECT UNDERSTANDING

The Lake County Division of Transportation is seeking a firm that is knowledgeable and responsible for Phase 2 engineering services assigned to design two culvert improvement projects. Bravo Company Engineering previously completed the initial culvert inspections of the two sites, analyzed the inspection results to identify deficiencies, and recommended improvement alternatives as part of a preliminary design contract. From this preliminary design, preferred culvert improvement alternatives were selected by LCDOT to be implemented through this Phase 2 design. Bravo will now complete the Phase 2 culvert plans, specifications, and cost estimates for the two locations and, together with the LCDOT, advertise and award the projects for construction.

Culvert #1263 conveys the Waukegan River under Robert McClory Bikepath. It is a 97-foot long, 10-foot concrete arch pipe located in the City of Waukegan and includes concrete headwalls and wingwalls on both ends. This culvert will be fully removed and replaced with a new single cell precast concrete box culvert including cast in place end sections. Improvements will also include stream bank stabilization of shoreline areas that exhibit significant erosion. Robert McClory Bikepath will be closed and detoured during construction.



Culvert #2002 conveys Aptakisic Creek under Deerfield Parkway. It is a 133-foot, 132"x66" half arch CMP located in the Village of Buffalo Grove and includes a concrete flume and spillway on its upstream and downstream ends. This culvert will also be removed and replaced with a new single cell precast concrete box culvert. The proposed improvement will require either staged construction with a half-road closure or a full closure of Deerfield Parkway.



II. SCOPE OF ENGINEERING SERVICES

Bravo's services will include preparation of two standalone Phase 2 design contracts, inclusive of separate milestone submittals, contract documents, and lettings schedules. Our engineering approach involves record data research, field investigation, production of condition reports, and hydraulic analysis.

1. Culvert 1263 – Robert McClory Bikepath

1.1 Early Coordination and Data Collection

A. Initial Meetings with the LCDOT – We will conduct initial virtual meetings with the County staff involved with the project to discuss the project scope, goals, and schedule.

B. SUE Study and Utility Coordination

i. Level D Atlas Research – Bravo will submit a JULIE design stage request to determine which utilities are within the project area. We will contact each utility company listed on the JULIE ticket and request they provide atlases pages within our project limits. Utility facilities depicted in these atlases will be drafted into a Level D utility base file for use during the preliminary design and subsequent Level B field investigation.

ii. Level B Field Investigation – The Level D utility base file will be plotted to plan sheets and used to create working plan sheets to be referenced during a Level B field investigation. During this investigation, Bravo will utilize electronic depth measurement tools to survey the approximate horizontal and vertical locations of utilities within the project limits. Bravo is prequalified with IDOT to prepare SUE studies and will perform this work accordance with ASCE standard 38-22.

Bravo staff, along with LCDOT personnel, will walk through the project with draft SUE in-hand to verify and look for items in the field that may indicate presence of an unlocated facility

iii. Level A Potholing – If needed, potholing will be performed to determine the exact horizontal and vertical locations of existing utilities to determine such elements are in conflict and will require relocation. This proposal includes contingency of four potholes at the subject culvert.

iv. Conflict analysis and Additional Utility Coordination – Bravo will utilize all available utility information and perform an analysis of utility locations as compared to proposed improvements. Should conflicts be identified, we will continue coordination with the affected utility company and ensure relocation plans are created and executed before construction of culvert improvements begins. SUE Sheets will be shared with LCDOT for review and provided to utility companies to aid in conflict resolution. At each milestone submittal, full plans will be shared with each utility identified within the project limits. Once final plans are complete and all ROW acquisitions are finalized, Bravo will submit LCDOT 90 day letters to all utility companies. A Status of Utilities specification will be prepared and included in the contract documents.

Bravo will review any utility relocation permit submittals to ensure any identified conflicts are accounted for and new utility locations do not conflict with proposed LCDOT improvements. Vertical clearance between existing underground lines and proposed culverts will be reviewed and verified for compliance.

C. Geotechnical Investigation – Bravo, along with our subconsultant Midland Standard Engineering and Testing will perform a structural soil boring to better understand the underlying geotechnical characteristics within the project site. The soil boring will be analyzed and a geotechnical report will be provided to include recommendations for culvert and headwall design and subgrade treatments.

1.2 Field Survey and Preparation of Base Drawings

- A. Topographic and Hydraulic Survey – Bravo Company Engineering, along with our subconsultant Jorgensen & Associates, Inc, will perform a survey of the culvert project area utilizing the horizontal and vertical controls, and survey guidelines as set forth by the LCDOT Design Survey Procedures. The survey will generally extend 100-ft north and south of the culvert span as well as 150-ft upstream and downstream of each respective end section. Elements to be included in survey pickup will include but not be limited to existing culvert structural elements, pavement and curb features, pedestrian facilities, utility structures including inverts, trees and other large vegetation features, and fencelines, among other things.

All visible above ground utilities and utility markings in the field will be picked up during survey. After collecting and organizing the survey data and available imagery, Bravo Company Engineering will use the available data to develop base sheets for the design plan preparation.

The survey will include the necessary title research of underlying ownership and establishment of existing ROW lines occupied by the railroad within the project limits. As needed, acquisitions will be confirmed to extended to the existing centerline and will include all areas of ambiguous ownership within the existing roadway ROW.

Outside of the immediate project limits, we will also conduct a hydraulic survey that will extend 1000-ft upstream and downstream (Thalweg) and include cross sections at face of structure, 50-ft, 250-ft and 500-ft. This information will be incorporated into the stormwater report submittal.

- B. Preparation of Base CAD Drawings – Bravo will utilize topographic survey information, aerial imagery, record utility atlases, field surveyed electronic depth measurements, record drawings, and all other available resources to create existing base CAD drawings. These drawings will serve as a starting point for detailed Phase 2 design work. We will create proposed culvert design linework, drawn in space and consistent with existing linework to be referenced in plan sheets. As part of this work, Bravo will also utilize the latest OpenRoads software to create 3D existing and proposed models of the project site. These models will provide an improved level of detail during design and allow for streamlined conflict analysis and quantity calculations.

1.3 Data Evaluation and Project Review

A. Environmental Review

- i. Wetlands – Wetland delineations will be performed within the project limits. Once delineation is complete and the preliminary project design has advanced, a Wetland Impact Evaluation form will be completed. A joint application to the IDNR and Army Corps of Engineers will be completed for the potential work within the floodplain and wetlands in the project area, and potential isolated wetland permitting procedures through LCSCMC with Boundary Verifications and Preliminary Jurisdictional Determinations.
- ii. Biological – An EcoCAT submittal will be made using the online web tool to determine if the project site is in the vicinity of protected natural resources. We will also conduct a bat assessment according to Circular Letter 2022-28. The Bridge/Structure Bat Assessment form, with photographs, will be completed, signed, and submitted to the County. To further screen for northern-long eared bat habitat within the project limits, a tree survey will be performed on all trees 3" diameter or greater that are proposed for removal. Depending on contract timing, tree removal will be included within the contract plans. Otherwise, LCDOT forces may also perform tree removals outside of the restricted period to avoid impacting bat habitat.

- iii. Cultural – A review will be requested through the Illinois State Historic Preservation Office (SHPO) to determine if historically significant site have potential to be impacted by the improvements. The SHPO submittal will include supporting exhibits including:
 - Location Map
 - Wetland and Waterway Exhibit
 - Historic & Architectural Resources Geographic Information System (HARGIS)
 - Site Photographs
 - Preliminary Plans
- iv. Special Waste – Bravo and its subconsultant GZA will perform a database review of the project site including historic uses and adjacent property characteristics to identify potential impacted properties that may contain contaminated soil. Soil borings will be taken and analyzed to determine the exact categorization of soils to be excavated during construction. We will prepare the LPC-663 form and seek pre-approval letters from multiple disposal facilities in the area.

B. Hydraulic and Structural Analysis

- i. Hydraulic Studies and Modeling
 - A stream hydrology/hydraulic analysis and hydraulic report will be prepared for calculating a culvert size which meets regulatory requirements. This crossing is over the Waukegan River within a FEMA Zone X – an area of minimal flood hazard – with no delineated base flood limits. According to USGS StreamStats data, the watershed tributary area is 5.98-sq.mi. flowing from the north to the southeast.
 - Field review and data collection for the project will be performed including field inspection and field interviews to validate the model.
 - A review of existing FEMA and USGS records will be conducted.
 - We will develop an existing hydraulic model to include surveyed stream cross sections and structure information and preparation of existing conditions, natural conditions, and proposed conditions hydraulic models. The results of the analysis will be used in developing the waterway information table.
 - Impacts to the floodplain will be determined and the need for compensatory storage
 - HEC-18 scour analysis will be performed for the preferred alternative.
 - The stormwater report will be submitted to IDNR-OWR to obtain a floodway construction permit. The Stormwater Report will contain the following:
 - Location Map
 - Permit Summary for Floodway Construction in Northeastern Illinois (D1 PD0024)
 - Narrative – Description of services that includes flooding history, correlation of datum, discussion of hydraulic analysis, description of area and sensitive flood receptor considerations
 - FIS Datum Correlation with Survey
 - Hydraulic Report Data Sheets
 - Waterway Information Table (WIT)
 - Stream Profile & Cross Sections
 - Plan & Profile of path
 - FIRM Map excerpt
 - Floodway and floodplain fill and compensatory storage calculations
 - Modeling Calculations
 - HGL for 10, Design, 50 and 100-Year events
- ii. Structural Studies – We will design the culvert and end section for AASHTO H-10 truck loading, pedestrian loading and the soil embankment loading over the culvert. The Robert McClory Bike Path will be a full closure during construction of the culvert.

C. Permitting

- i. IDNR-OWR Floodway Construction Permit – Complete and submit a floodway construction permit for the Illinois Department of Natural Resources – Office of Water Resources (IDNR-OWR). The review fee will be paid by the LPA.
- ii. Lake County Stormwater Management Ordinance – Complete and submit permit application.
- iii. Section 404 Permit – Prepare and submit the joint application. This application packet is designed to simplify the approval process from the (USACE), Illinois Department of Natural Resources/Office of Water Resources (IDNR/OWR) and the Illinois Environmental Protection Agency (IEPA).
- iv. NPDES Permit – Complete and submit the National Pollutant Discharge Elimination System (NPDES) Permit, Stormwater Pollution Prevention Plan (SWPPP), Notice of Intent (NOI) and Erosion and Sediment Control Plans to IEPA. Complete BDE Forms 2342 and 2342A for inclusion into the Special Provisions. A review fee is not required since the LPA is an MS4 community.

1.4 Prefinal Plans, Special Provisions, and Engineer's Estimate of Cost

- A. Bravo Company Engineering will prepare and complete the contract documents in accordance with the applicable Lake County Division of Transportation policies and standards as set forth by the LCDOT Plan Preparation Guidelines. The base sheets for use in the development of the construction documents shall be at an appropriate scale which can be printed to pdf for electronic distribution. We can provide initial submittals to the County and other invested parties to demonstrate progress and to ensure needs and desires are being addressed. Detailed quantity calculations will be developed based on the plans and the electronic base drawings to establish an engineer's estimate of cost. We can also meet periodically with the County to review design details and the project schedule and cost if desired. Prior to milestone submittals, Bravo design and construction staff will perform QA/QC reviews of all contract items to verify design accuracy as well as constructability. Our prefinal plans will include the following sections:
 - i. Cover Sheet
 - ii. General Notes
 - iii. Summary of Quantities
 - iv. Typical Sections – Existing and Proposed bikepath
 - v. Removal Plan
 - vi. Bikepath Plan and Profile
 - vii. Bikepath Detour Plan
 - viii. Erosion Control and Landscape Restoration Plan
 - ix. SUE Study Sheets – unique linestyles differentiating Level B vs. Level D information
 - x. Plats of Highway
 - xi. Structural Plans
 - General Plan and Longitudinal Section – Including 2-year, 24-hour storm flow in CFS along with estimated water surface elevation.
 - Dewatering: 2-year, 24-hour storm flow will be determined including estimated water surface elevation for design of cofferdams.
 - General Data
 - Culvert Elevations
 - End Sections
 - Culvert Details
 - Soil Boring Logs
 - Existing Plans
 - xii. Project Specific Construction Details
 - xiii. Lake County Standard Details
 - xiv. IDOT Standard Details

1.5 Right of Way Acquisition – temporary or permanent ROW impacts are anticipated at five parcels, identified by PIN numbers: 08-20-209-018, 08-20-209-044, 08-21-117-038, 08-21-117-058, and 08-21-117-039

A. Plats and Legals – Bravo Company Engineering, along with our subconsultant Jorgensen & Associates, Inc, will prepare Plats of Highway and legal descriptions of all ROW acquisitions necessary to complete the culvert improvements as identified through the detailed design process. As part of this process, title documents will be reviewed to determine ownership of all parcels, including the bikepath ROW previously owned by the Chicago, North Shore & Milwaukee Railroad. Additionally, locations where private property lines are determined extend to roadway centerlines will be cleaned up to ensure Lake County ROW lines are consistent along the corridor.

B. Appraisals and Negotiations – Following approval of the plat of highways, Bravo and its subconsultant Santacruz Land Acquisitions will perform subsequent steps to allow for the acquisitions of all necessary easements and ROW. We will ensure that the appraisals, review appraisal, and negotiation processes proceed efficiently and smoothly and do not jeopardize the overall project schedule.

1.6 Final Plans, Special Provisions, and Engineer's Estimate of Cost

Bravo Company Engineering will submit the contract documents to the Lake County Division of Transportation for final plan review. If necessary, we will also meet with the County or any other agencies and utilities to discuss review comments or to resolve conflicts. Plans will be submitted in a printable pdf electronic format, as well as hard paper copies when requested, and the Engineer's Estimate of Cost will be submitted in Excel format (for both pre-final and final). A disposition of comments will be provided to address the LCDOT comments from the review submittal. Upon project completion, all CADD files will be provided to LCDOT.

1.7 Project Meetings, Administration, Bid Support, Award Recommendation, & Pre-Construction Assistance

Throughout the design process, Bravo will hold monthly virtual meetings with the LCDOT Project Manager to discuss progress of design tasks, outstanding issues impacting the schedule, tasks completed outside the original contract scope, and any other pertinent project updates.

Bravo understands that the culvert construction project will be advertised and let locally through the Lake County Division of Transportation. Bravo will provide a final bid package to include plans specifications, and estimates of cost for the DOT to post for advertisement. We will assist in providing any additional information during the advertising process. After the letting, we will evaluate all bids received and provide a final award recommendation.

1.8 Construction Engineering Services

Bravo Company Engineering will be available to answer any questions during construction, assist with issues such as addendums between plan posting and bid, and we will create new plan details and solutions for any unforeseen issues that may arise during construction. We will also be available for review and approval of shop drawings. Our team recognizes communication is essential with residents, businesses, and schools in the area to ensure pedestrian safety and minimal impacts to the community and businesses operations.

2. Culvert 2002 – Deerfield Parkway

2.1 Early Coordination and Data Collection

A. Initial Meetings with the LCDOT – We will conduct initial virtual meetings with the County staff involved with the project to discuss the project scope, goals, and schedule.

B. SUE Study and Utility Coordination

i. Level D Atlas Research – Bravo will submit a JULIE design stage request to determine which utilities are within the project area. We will contact each utility company listed on the JULIE ticket and request they provide atlases pages within our project limits. Utility facilities depicted

in these atlases will be drafted into a Level D utility base file for use during the preliminary design and subsequent Level B field investigation.

- ii. Level B Field Investigation – The Level D utility base file will be plotted to plan sheets and used to create working plan sheets to be referenced during a Level B field investigation. During this investigation, Bravo will utilize electronic depth measurement tools to survey the approximate horizontal and vertical locations of utilities within the project limits. Bravo is prequalified with IDOT to prepare SUE studies and will perform this work accordance with ASCE standard 38-22.

Bravo staff, along with LCDOT personnel, will walk through the project with draft SUE in-hand to verify and look for items in the field that may indicate presence of an unlocated facility.

- iii. Level A Potholing – If needed, potholing will be performed to determine the exact horizontal and vertical locations of existing utilities to determine such elements are in conflict and will require relocation. This proposal includes contingency of four potholes at the subject culvert.
- iv. Conflict analysis and Additional Utility Coordination – Bravo will utilize all available utility information and perform an analysis of utility locations as compared to proposed improvements. Should conflicts be identified, we will continue coordination with the affected utility company and ensure relocation plans are created and executed before construction of culvert improvements begins. SUE Sheets will be shared with LCDOT for review and provided to utility companies to aid in conflict resolution. At each milestone submittal, full plans will be shared with each utility identified within the project limits. Once final plans are complete and all ROW acquisitions are finalized, Bravo will submit LCDOT 90 day letters to all utility companies. A Status of Utilities specification will be prepared and included in the contract documents.

Bravo will review any utility relocation permit submittals to ensure any identified conflicts are accounted for and new utility locations do not conflict with proposed LCDOT improvements. Vertical clearance between existing underground lines and proposed culverts will be reviewed and verified for compliance.

- C. Geotechnical Investigation – Bravo, along with our subconsultant Midland Standard Engineering and Testing will perform a structural soil boring to better understand the underlying geotechnical characteristics within the project site. The soil boring will be analyzed and a geotechnical report will be provided to include recommendations for culvert and headwall design and subgrade treatments.

2.2 Field Survey and Preparation of Base Drawings

- A. Topographic and Hydraulic Survey – Bravo Company Engineering, along with our subconsultant Jorgensen & Associates, Inc, will perform a survey of the culvert project area utilizing the horizontal and vertical controls, and survey guidelines as set forth by the LCDOT Design Survey Procedures. The survey will generally extend 100-ft north and south of the culvert span as well as 150-ft upstream and downstream of each respective end section. Elements to be included in survey pickup will include but not be limited to existing culvert structural elements, pavement and curb features, pedestrian facilities, utility structures including inverts, trees and other large vegetation features, and fencelines, among other things.

All visible above ground utilities and utility markings in the field will be picked up during survey. After collecting and organizing the survey data and available imagery, Bravo Company Engineering will use the available data to develop base sheets for the design plan preparation.

The survey will include the necessary research and establishment of existing ROW lines occupied by the railroad within the project limits.

Outside of the immediate project limits, we will also conduct a hydraulic survey that will extend 1000-ft upstream and downstream (Thalweg) and include cross sections at face of structure, 50-ft, 250-ft and 500-ft. This information will be incorporated into the stormwater report submittal.

The survey will include the necessary title research of underlying ownership and establishment of existing ROW lines. As needed, acquisitions will be confirmed to extended to the existing roadway centerline and will include all areas of ambiguous ownership within the existing roadway ROW.

- B. Preparation of Base CAD Drawings – Bravo will utilize topographic survey information, aerial imagery, record utility atlases, field surveyed electronic depth measurements, record drawings, and all other available resources to create existing base CAD drawings. These drawings will serve as a starting point for detailed Phase 2 design work. We will create proposed culvert design linework, drawn in space and consistent with existing linework to be referenced in plan sheets. As part of this work, Bravo will also utilize the latest OpenRoads software to create 3D existing and proposed models of the project site. These models will provide an improved level of detail during design and allow for streamlined conflict analysis and quantity calculations.

2.3 Data Evaluation and Project Review

A. Environmental Review

- i. Wetlands – Wetland delineations will be performed within the project limits. Once delineation is complete and the preliminary project design has advanced, a Wetland Impact Evaluation form will be completed. A joint application to the IDNR and Army Corps of Engineers will be completed for the potential work within the floodplain and wetlands in the project area, and potential isolated wetland permitting procedures through LCSMC with Boundary Verifications and Preliminary Jurisdictional Determinations.
- ii. Biological – An EcoCAT submittal will be made using the online web tool to determine if the project site is in the vicinity of protected natural resources. We will also conduct a bat assessment according to Circular Letter 2022-28. The Bridge/Structure Bat Assessment form, with photographs, will be completed, signed, and submitted to the County. To further screen for northern-long eared bat habitat within the project limits, a tree survey will be performed on all trees 3" diameter or greater that are proposed for removal. Depending on contract timing, tree removal will be included within the contract plans. Otherwise, LCDOT forces may also perform tree removals outside of the restricted period to avoid impacting bat habitat.
- iii. Cultural – A review will be requested through the Illinois State Historic Preservation Office (SHPO) to determine if historically significant site have potential to be impacted by the improvements. The SHPO submittal will include supporting exhibits including:
 - Location Map
 - Wetland and Waterway Exhibit
 - Historic & Architectural Resources Geographic Information System (HARGIS)
 - Site Photographs
 - Preliminary Plans
- iv. Special Waste – Bravo and its subconsultant GZA will perform a database review of the project site including historic uses and adjacent property characteristics to identify potential impacted properties that may contain contaminated soil. Soil borings will be taken and analyzed to determine the exact categorization of soils to be excavated during construction. We will prepare the LPC-663 form and seek pre-approval letters from multiple disposal facilities in the area.

B. Hydraulic and Structural Analysis

- i. Hydraulic Studies and Modeling

- A stream hydrology/hydraulic analysis and hydraulic report will be prepared for calculating a culvert size which meets regulatory requirements. This crossing is over the Waukegan River within a FEMA Zone X – an area of minimal flood hazard – with no delineated base flood limits. According to USGS StreamStats data, the watershed tributary area is 5.98-sq.mi. flowing from the north to the southeast.
- Field review and data collection for the project will be performed including field inspection and field interviews to validate the model.
- A review of existing FEMA and USGS records will be conducted.
- We will develop an existing hydraulic model to include surveyed stream cross sections and structure information and preparation of existing conditions, natural conditions, and proposed conditions hydraulic models. The results of the analysis will be used in developing the waterway information table.
- Impacts to the floodplain will be determined and the need for compensatory storage
- HEC-18 scour analysis will be performed for the preferred alternative.
- The stormwater report will be submitted to IDNR-OWR to obtain a floodway construction permit. The Stormwater Report will contain the following:
 - Location Map
 - Permit Summary for Floodway Construction in Northeastern Illinois (D1 PD0024)
 - Narrative – Description of services that includes flooding history, correlation of datum, discussion of hydraulic analysis, description of area and sensitive flood receptor considerations
 - FIS Datum Correlation with Survey
 - Hydraulic Report Data Sheets
 - Waterway Information Table (WIT)
 - Stream Profile & Cross Sections
 - Plan & Profile of path
 - FIRM Map excerpt
 - Floodway and floodplain fill and compensatory storage calculations
 - Modeling Calculations
 - HGL for 10, Design, 50 and 100-Year events
- ii. Structural Studies – We will design the culvert and end section for AASHTO H-10 truck loading, pedestrian loading and the soil embankment loading over the culvert.

C. Permitting

- i. IDNR-OWR Floodway Construction Permit – Complete and submit a floodway construction permit for the Illinois Department of Natural Resources – Office of Water Resources (IDNR-OWR). The review fee will be paid by the LPA.
- ii. Lake County Stormwater Management Ordinance – Complete and submit permit application.
- iii. Section 404 Permit – Prepare and submit the joint application. This application packet is designed to simplify the approval process from the (USACE), Illinois Department of Natural Resources/Office of Water Resources (IDNR/OWR) and the Illinois Environmental Protection Agency (IEPA).
- iv. NPDES Permit – Complete and submit the National Pollutant Discharge Elimination System (NPDES) Permit, Stormwater Pollution Prevention Plan (SWPPP), Notice of Intent (NOI) and Erosion and Sediment Control Plans to IEPA. Complete BDE Forms 2342 and 2342A for inclusion into the Special Provisions. A review fee is not required since the LPA is an MS4 community.
- v. Highway Permitting – Construction of the Culvert #2002 will impact Deerfield Parkway traffic and likely require a detour route along roadways outside the jurisdiction of LCDOT. Bravo we

prepare highway permit applications including standard forms and supporting exhibits and submit for approval to the governing jurisdiction.

D. MOT Analysis

Due to the location of Culvert #2002, full reconstruction of the culvert will require impacts to Deerfield Parkway above. Depending on the staging strategy and the acceptable impacts to traffic, culvert improvements may be constructed under an half or full road closure and include corresponding detour routes. The nearby Deerfield Parkway and Weiland Road intersection will also require additional consideration as it may limit temporary traffic configuration options and lane shifts.

Bravo will analyze construction staging and maintenance of traffic alternatives including consideration of detour routes, temporary traffic configurations, impacts to the surrounding Deerfield parkway corridor, and project duration, among other things. A technical memorandum will be prepared and submitted to LCDOT for review. Once a final staging alternative is selected, Bravo will incorporate the corresponding Maintenance of Traffic strategy into the prefinal and final contract documents.

2.4 Prefinal Plans, Special Provisions, and Engineer's Estimate of Cost

A. Bravo Company Engineering will prepare and complete the contract documents in accordance with the applicable Lake County Division of Transportation policies and standards as set forth by the LCDOT Plan Preparation Guidelines. The base sheets for use in the development of the construction documents shall be at an appropriate scale which can be printed to pdf for electronic distribution. We can provide initial submittals to the County and other invested parties to demonstrate progress and to ensure needs and desires are being addressed. Detailed quantity calculations will be developed based on the plans and the electronic base drawings to establish an engineer's estimate of cost. We can also meet periodically with the County to review design details and the project schedule and cost if desired. Prior to milestone submittals, Bravo design and construction staff will perform QA/QC reviews of all contract items to verify design accuracy as well as constructability. Our prefinal plans will include the following sections:

- i. Cover Sheet
- ii. General Notes
- iii. Summary of Quantities
- iv. Typical Sections – Existing and Proposed Deerfield Parkway section
- v. Removal Plan
- vi. Roadway Plan and Profile
- vii. Maintenance of Traffic General Notes and Typical Sections
- viii. Maintenance of Traffic Plans – 2 stages
- ix. Detour Plan
- x. Erosion Control and Landscape Restoration Plan
- xi. SUE Study Sheets – unique linestyles differentiating Level B vs. Level D information
- xii. Plats of Highway
- xiii. Structural Plans
 - General Plan and Longitudinal Section – Including 2-year, 24-hour storm flow in CFS along with estimated water surface elevation.
 - Dewatering: 2-year, 24-hour storm flow will be determined including estimated water surface elevation for design of cofferdams.
 - General Data
 - Culvert Elevations
 - End Sections
 - Culvert Details

- Soil Boring Logs
 - Existing Plans
- xiv. Project Specific Construction Details
 - xv. Lake County Standard Details
 - xvi. IDOT Standard Details

2.5 Right of Way Acquisition – temporary or permanent ROW impacts are anticipated at three parcels, identified by PIN numbers: 15-28-403-040, 15-28-400-018, and 15-28-400-018.

- A. Plats and Legals – Bravo Company Engineering, along with our subconsultant Jorgensen & Associates, Inc, will prepare Plats of Highway and legal descriptions of all ROW acquisitions necessary to complete the culvert improvements as identified through the detailed design process. As part of this process, title documents will be reviewed to determine ownership of all parcels. Additionally, locations where private property lines are determined extend to roadway centerlines will be cleaned up to ensure Lake County ROW lines are consistent along the corridor.
- B. Appraisals and Negotiations – Following approval of the plat of highways, Bravo and its subconsultant Santacruz Land Acquisitions will perform subsequent steps to allow for the acquisitions of all necessary easements and ROW. We will ensure that the appraisals, review appraisal, and negotiation processes proceed efficiently and smoothly and do not jeopardize the overall project schedule.

2.6 Final Plans, Special Provisions, and Engineer’s Estimate of Cost

Bravo Company Engineering will submit the contract documents to the Lake County Division of Transportation for final plan review. If necessary, we will also meet with the County or any other agencies and utilities to discuss review comments or to resolve conflicts. Plans will be submitted in a printable pdf electronic format, as well as hard paper copies when requested, and the Engineer’s Estimate of Cost will be submitted in Excel format (for both pre-final and final). A disposition of comments will be provided to address the LCDOT comments from the review submittal. Upon project completion, all CADD files will be provided to LCDOT.

2.7 Project Meetings, Administration, Bid Support, Award Recommendation, & Pre-Construction Assistance

Throughout the design process, Bravo will hold monthly virtual meetings with the LCDOT Project Manager to discuss progress of design tasks, outstanding issues impacting the schedule, tasks completed outside the original contract scope, and any other pertinent project updates.

Bravo understands that the culvert construction project will be advertised and let locally through the Lake County Division of Transportation. Bravo will provide a final bid package to include plans specifications, and estimates of cost for the DOT to post for advertisement. We will assist in providing any additional information during the advertising process. After the letting, we will evaluate all bids received and provide a final award recommendation.

2.8 Construction Engineering Services

Bravo Company Engineering will be available to answer any questions during construction, assist with issues such as addendums between plan posting and bid, and we will create new plan details and solutions for any unforeseen issues that may arise during construction. We will also be available for review and approval of shop drawings. Our team recognizes communication is essential with residents, businesses, and schools in the area to ensure pedestrian safety and minimal impacts to the community and businesses operations.

III. PROJECT SCHEDULE

A project schedule is a strategic and important tool for guiding a project successfully to its target letting date. Bravo Company Engineering’s milestone schedule is a summary that allows the project team to review and identify all the significant and major project related milestones that are to be achieved during the project. Our milestones are significant events in the project usually marked by the completion of a major deliverable. A tentative schedule is as follows and will be adjusted based upon the County’s input and permitting requirements. Additional schedule details are included as Appendix B.

Milestone	Culvert #1263 – Robert McClory	Culvert #2002 – Deerfield Parkway
Board Approval & Design NTP	May 12, 2026	
Topographic Survey Completed	June 22, 2026	August 3, 2026
MOT Tech Memo Submittal to LCDOT	N/A	September 28, 2026
Prefinal PS&E and Plat Submittal to LCDOT	October 5, 2026	February 8, 2027
Final Submittal	January 8, 2027	May 17, 2027
ROW Certified	April 9, 2027	August 20, 2027
Letting	May 4, 2027	September 7, 2027
Construction NTP	July 20, 2027	November 23, 2027
Construction Completion	January 3, 2028	August 4, 2028

IV. OTHER FACTORS

Bravo Company Engineering and our assembled team of engineers can meet this contract obligation with our current staff and have the knowledge and experience to perform the tasks assigned while also fulfilling the schedule required. Having a team with surveyors, engineers, technicians, and sub-consultants will ensure we can provide the proper staff when required. We can abide by the County’s standard form agreement, and we have no conflicts of interest or other factors impacting the value and quality of our work.

Bravo Company Engineering and its team commit to making the necessary expertise and manpower available to meet the needs of this project. We are confident that our team has what it takes to produce a successful project and quality product that the County, our team, and the community can be proud of. Very fitting for this project is Bravo Company Engineering’s philosophy mantra of

BE, KNOW, DO! Be the expert, Know the job, and Do the difficult!



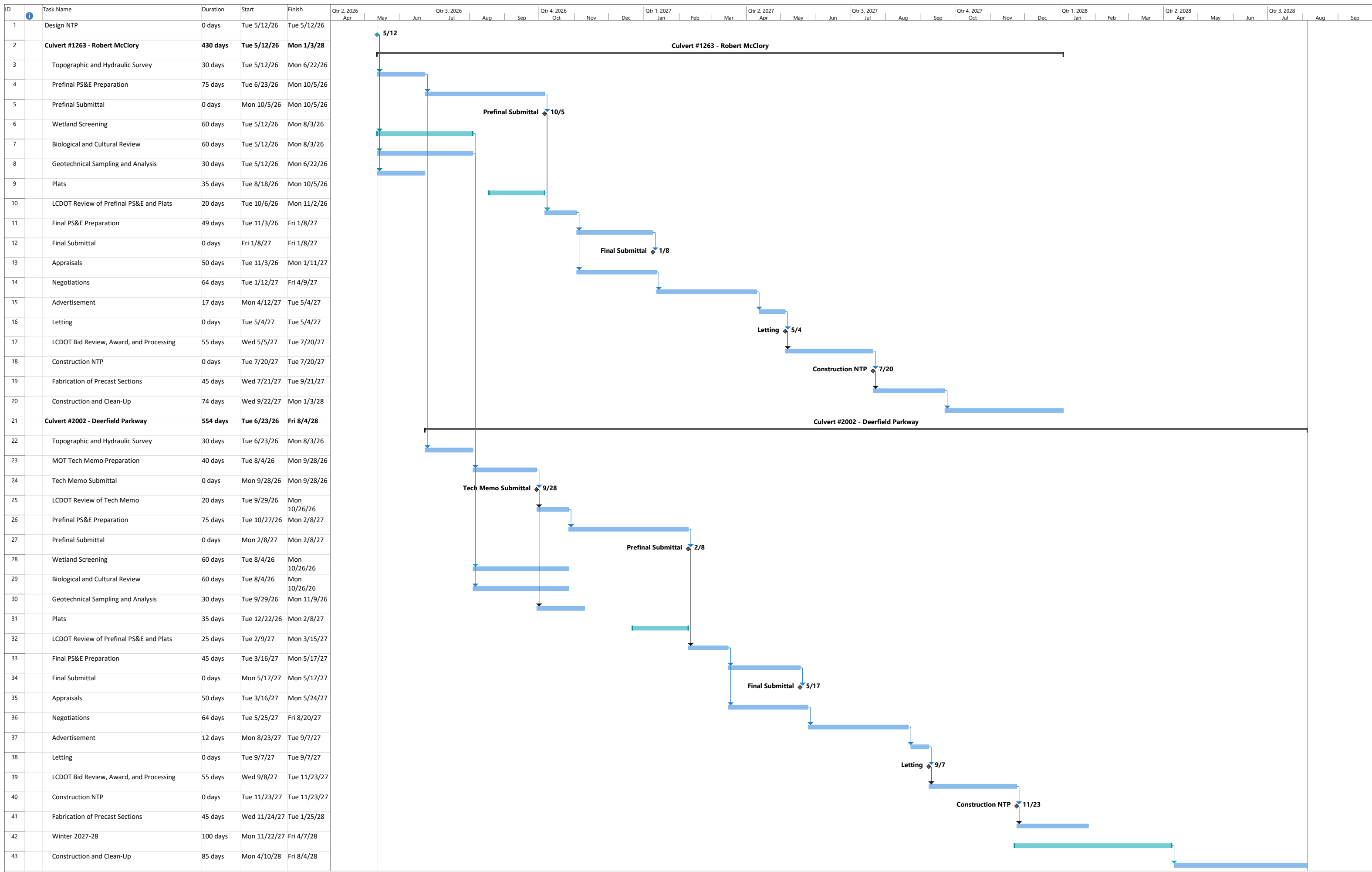


Exhibit A-2 Preliminary Engineering

Route: Culvert Reconstructions 2026
 Local Agency: Lake County Division of Transportation
 Section: 24-00999-10-DR
 Project: M-XXXX(XXX)
 Job No: D-XX-XXX-XX

*Firm's approved rates on file with IDOT's Bureau of Accounting and Auditing:	
Overhead Rate (OH)	1.2
Complexity Factor (R)	0.000
Calendar Days	360

Method of Compensation:

- Cost Plus Fixed Fee 1 14.5%[DL + R(DL) + OH(DL) + IHDC]
 Cost Plus Fixed Fee 2 14.5%[DL + R(DL) + 1.5(DL) + IHDC]
 Cost Plus Fixed Fee 3 14.5%[(2.3 + R)DL + IHDC]
 Specific Rate
 Lump Sum

See Exhibit A-1 for Scope of Services

See Exhibit A-3 for a detailed Workhour Estimate.

See Exhibit A-4 for detailed Services by Others and In-House Direct Costs.

Cost Estimate of Consultant's Services

Element of Work	Employee Classification	Man-hours	Payroll Rate	Payroll Costs (DL)	Overhead*	In-House Direct Costs (IHDC)	Services by Others	Profit	Total	
1. Culvert #1263 - Robert McClory Bikepath										
1.1	Early Coordination and Data Collection					\$ 20,000.00	\$ 5,715.00	\$ -	\$ 25,715.00	
	\$55,925.37									
	Project Manager	15.0	\$ 65.00	\$ 975.00	\$ 1,170.00			\$ 311.03	\$ 2,456.03	
	Engineer IV	44.0	\$ 55.00	\$ 2,420.00	\$ 2,904.00			\$ 771.98	\$ 6,095.98	
	Engineer III	82.0	\$ 48.00	\$ 3,936.00	\$ 4,723.20			\$ 1,255.58	\$ 9,914.78	
	Engineer II	126.0	\$ 37.00	\$ 4,662.00	\$ 5,594.40			\$ 1,487.18	\$ 11,743.58	
1.2	Field Survey and Preparation of Base Drawings					\$ -	\$ 27,399.00	\$ -	\$ 27,399.00	
	\$50,132.98									
	Project Manager	3.0	\$ 65.00	\$ 195.00	\$ 234.00			\$ 62.21	\$ 491.21	
	Engineer IV	42.0	\$ 55.00	\$ 2,310.00	\$ 2,772.00			\$ 736.89	\$ 5,818.89	
	Engineer III	68.0	\$ 48.00	\$ 3,264.00	\$ 3,916.80			\$ 1,041.22	\$ 8,222.02	
	Engineer II	88.0	\$ 37.00	\$ 3,256.00	\$ 3,907.20			\$ 1,038.66	\$ 8,201.86	
1.3	Data Evaluation and Project Review					\$ -	\$ 157,498.74	\$ -	\$ 157,498.74	
	\$166,466.38									
	Project Manager	24.0	\$ 65.00	\$ 1,560.00	\$ 1,872.00			\$ 497.64	\$ 3,929.64	
	Engineer IV	24.0	\$ 55.00	\$ 1,320.00	\$ 1,584.00			\$ 421.08	\$ 3,325.08	
	Engineer III	8.0	\$ 48.00	\$ 384.00	\$ 460.80			\$ 122.50	\$ 967.30	
	Engineer II	8.0	\$ 37.00	\$ 296.00	\$ 355.20			\$ 94.42	\$ 745.62	
1.4	Pre-Final Plans, Special Provisions, and Engineer's Estimate of Cost					\$ -	\$ -	\$ -	\$ -	
	\$72,126.53									
	Project Manager	23.0	\$ 65.00	\$ 1,495.00	\$ 1,794.00			\$ 476.91	\$ 3,765.91	
	Engineer IV	116.0	\$ 55.00	\$ 6,380.00	\$ 7,656.00			\$ 2,035.22	\$ 16,071.22	
	Engineer III	212.0	\$ 48.00	\$ 10,176.00	\$ 12,211.20			\$ 3,246.14	\$ 25,633.34	
	Engineer II	286.0	\$ 37.00	\$ 10,582.00	\$ 12,698.40			\$ 3,375.66	\$ 26,656.06	
1.5	Right of Way Acquisition					\$ -	\$ 72,188.00	\$ -	\$ 72,188.00	
	\$87,427.95									
	Project Manager	42.0	\$ 65.00	\$ 2,730.00	\$ 3,276.00			\$ 870.87	\$ 6,876.87	
	Engineer IV	48.0	\$ 55.00	\$ 2,640.00	\$ 3,168.00			\$ 842.16	\$ 6,650.16	
	Engineer III	8.0	\$ 48.00	\$ 384.00	\$ 460.80			\$ 122.50	\$ 967.30	
	Engineer II	8.0	\$ 37.00	\$ 296.00	\$ 355.20			\$ 94.42	\$ 745.62	
1.6	Final Plans, Special Provisions, and Engineer's Estimate of Cost					\$ -	\$ -	\$ -	\$ -	
	\$23,980.88									
	Project Manager	8.0	\$ 65.00	\$ 520.00	\$ 624.00			\$ 165.88	\$ 1,309.88	
	Engineer IV	40.0	\$ 55.00	\$ 2,200.00	\$ 2,640.00			\$ 701.80	\$ 5,541.80	
	Engineer III	80.0	\$ 48.00	\$ 3,840.00	\$ 4,608.00			\$ 1,224.96	\$ 9,672.96	
	Engineer II	80.0	\$ 37.00	\$ 2,960.00	\$ 3,552.00			\$ 944.24	\$ 7,456.24	
1.7	Project Administration, Bid Support, Award Recommendation, & Pre-Construction Assistance					\$ -	\$ -	\$ -	\$ -	
	\$7,975.15									
	Project Manager	22.0	\$ 65.00	\$ 1,430.00	\$ 1,716.00			\$ 456.17	\$ 3,602.17	
	Engineer IV	20.0	\$ 55.00	\$ 1,100.00	\$ 1,320.00			\$ 350.90	\$ 2,770.90	
	Engineer III	4.0	\$ 48.00	\$ 192.00	\$ 230.40			\$ 61.25	\$ 483.65	
	Engineer II	12.0	\$ 37.00	\$ 444.00	\$ 532.80			\$ 141.64	\$ 1,118.44	
1.8	Construction Engineering Services					\$ -	\$ -	\$ -	\$ -	
	\$7,919.74									
	Project Manager	8.0	\$ 65.00	\$ 520.00	\$ 624.00			\$ 165.88	\$ 1,309.88	
	Engineer IV	16.0	\$ 55.00	\$ 880.00	\$ 1,056.00			\$ 280.72	\$ 2,216.72	
	Engineer III	24.0	\$ 48.00	\$ 1,152.00	\$ 1,382.40			\$ 367.49	\$ 2,901.89	
	Engineer II	16.0	\$ 37.00	\$ 592.00	\$ 710.40			\$ 188.85	\$ 1,491.25	
	Culvert # 1263 Subtotal			1,605.0	75,091.0	90,109.2	0.0	262,800.74	23,954.03	471,954.97

Exhibit A-2 Preliminary Engineering

Route: Culvert Reconstructions 2026
 Local Agency: Lake County Division of Transportation
 Section: 24-00999-10-DR
 Project: M-XXXX(XXX)
 Job No: D-XX-XXX-XX

*Firm's approved rates on file with IDOT's Bureau of Accounting and Auditing:	
Overhead Rate (OH)	1.2
Complexity Factor (R)	0.000
Calendar Days	360

Method of Compensation:

- Cost Plus Fixed Fee 1 14.5%[DL + R(DL) + OH(DL) + IHDC]
 Cost Plus Fixed Fee 2 14.5%[DL + R(DL) + 1.5(DL) + IHDC]
 Cost Plus Fixed Fee 3 14.5%[(2.3 + R)DL + IHDC]
 Specific Rate
 Lump Sum

See Exhibit A-1 for Scope of Services

See Exhibit A-3 for a detailed Workhour Estimate.

See Exhibit A-4 for detailed Services by Others and In-House Direct Costs.

Cost Estimate of Consultant's Services

Element of Work	Employee Classification	Man-hours	Payroll Rate	Payroll Costs (DL)	Overhead*	In-House Direct Costs (IHDC)	Services by Others	Profit	Total
2. Culvert #2002 - Deerfield Parkway									
2.1 Early Coordination and Data Collection						\$ -	\$ 5,830.00	\$ -	\$ 5,830.00
\$36,040.37	Project Manager	15.0	\$ 65.00	\$ 975.00	\$ 1,170.00			\$ 311.03	\$ 2,456.03
	Engineer IV	44.0	\$ 55.00	\$ 2,420.00	\$ 2,904.00			\$ 771.98	\$ 6,095.98
	Engineer III	82.0	\$ 48.00	\$ 3,936.00	\$ 4,723.20			\$ 1,255.58	\$ 9,914.78
	Engineer II	126.0	\$ 37.00	\$ 4,662.00	\$ 5,594.40			\$ 1,487.18	\$ 11,743.58
2.2 Field Survey and Preparation of Base Drawings						\$ -	\$ 17,275.00	\$ -	\$ 17,275.00
\$40,008.98	Project Manager	3.0	\$ 65.00	\$ 195.00	\$ 234.00			\$ 62.21	\$ 491.21
	Engineer IV	42.0	\$ 55.00	\$ 2,310.00	\$ 2,772.00			\$ 736.89	\$ 5,818.89
	Engineer III	68.0	\$ 48.00	\$ 3,264.00	\$ 3,916.80			\$ 1,041.22	\$ 8,222.02
	Engineer II	88.0	\$ 37.00	\$ 3,256.00	\$ 3,907.20			\$ 1,038.66	\$ 8,201.86
2.3 Data Evaluation and Project Review						\$ -	\$ 154,161.74	\$ -	\$ 154,161.74
\$182,178.06	Project Manager	30.0	\$ 65.00	\$ 1,950.00	\$ 2,340.00			\$ 622.05	\$ 4,912.05
	Engineer IV	56.0	\$ 55.00	\$ 3,080.00	\$ 3,696.00			\$ 982.52	\$ 7,758.52
	Engineer III	56.0	\$ 48.00	\$ 2,688.00	\$ 3,225.60			\$ 857.47	\$ 6,771.07
	Engineer II	92.0	\$ 37.00	\$ 3,404.00	\$ 4,084.80			\$ 1,085.88	\$ 8,574.68
2.4 Pre-Final Plans, Special Provisions, and Engineer's Estimate of Cost						\$ -	\$ -	\$ -	\$ -
\$80,164.66	Project Manager	26.0	\$ 65.00	\$ 1,690.00	\$ 2,028.00			\$ 539.11	\$ 4,257.11
	Engineer IV	128.0	\$ 55.00	\$ 7,040.00	\$ 8,448.00			\$ 2,245.76	\$ 17,733.76
	Engineer III	236.0	\$ 48.00	\$ 11,328.00	\$ 13,593.60			\$ 3,613.63	\$ 28,535.23
	Engineer II	318.0	\$ 37.00	\$ 11,766.00	\$ 14,119.20			\$ 3,753.35	\$ 29,638.55
2.5 Right of Way Acquisition						\$ -	\$ 49,412.00	\$ -	\$ 49,412.00
\$64,651.95	Project Manager	42.0	\$ 65.00	\$ 2,730.00	\$ 3,276.00			\$ 870.87	\$ 6,876.87
	Engineer IV	48.0	\$ 55.00	\$ 2,640.00	\$ 3,168.00			\$ 842.16	\$ 6,650.16
	Engineer III	8.0	\$ 48.00	\$ 384.00	\$ 460.80			\$ 122.50	\$ 967.30
	Engineer II	8.0	\$ 37.00	\$ 296.00	\$ 355.20			\$ 94.42	\$ 745.62
2.6 Final Plans, Special Provisions, and Engineer's Estimate of Cost						\$ -	\$ -	\$ -	\$ -
\$23,980.88	Project Manager	8.0	\$ 65.00	\$ 520.00	\$ 624.00			\$ 165.88	\$ 1,309.88
	Engineer IV	40.0	\$ 55.00	\$ 2,200.00	\$ 2,640.00			\$ 701.80	\$ 5,541.80
	Engineer III	80.0	\$ 48.00	\$ 3,840.00	\$ 4,608.00			\$ 1,224.96	\$ 9,672.96
	Engineer II	80.0	\$ 37.00	\$ 2,960.00	\$ 3,552.00			\$ 944.24	\$ 7,456.24
2.7 Project Administration, Bid Support, Award Recommendation, & Pre-Construction Assistance						\$ -	\$ -	\$ -	\$ -
\$7,975.15	Project Manager	22.0	\$ 65.00	\$ 1,430.00	\$ 1,716.00			\$ 456.17	\$ 3,602.17
	Engineer IV	20.0	\$ 55.00	\$ 1,100.00	\$ 1,320.00			\$ 350.90	\$ 2,770.90
	Engineer III	4.0	\$ 48.00	\$ 192.00	\$ 230.40			\$ 61.25	\$ 483.65
	Engineer II	12.0	\$ 37.00	\$ 444.00	\$ 532.80			\$ 141.64	\$ 1,118.44
2.8 Construction Engineering Services						\$ -	\$ -	\$ -	\$ -
\$7,919.74	Project Manager	8.0	\$ 65.00	\$ 520.00	\$ 624.00			\$ 165.88	\$ 1,309.88
	Engineer IV	16.0	\$ 55.00	\$ 880.00	\$ 1,056.00			\$ 280.72	\$ 2,216.72
	Engineer III	24.0	\$ 48.00	\$ 1,152.00	\$ 1,382.40			\$ 367.49	\$ 2,901.89
	Engineer II	16.0	\$ 37.00	\$ 592.00	\$ 710.40			\$ 188.85	\$ 1,491.25
Culvert # 2002 Subtotal		1,846.0		85,844.0	103,012.8	0.0	\$ 226,678.74	\$ 27,384.24	\$ 442,919.78
CONTRACT TOTAL		3,451.0		160,935.0	193,122.0	0.0	\$ 489,479.48	\$ 51,338.27	\$ 914,874.75



Exhibit A-3 Preliminary Engineering

Workhour Estimate							
Item No.	Task	Staff Classifications & Workhours				Total Workhours	% of Workhours
		Project Manager	Engineer IV	Engineer III	Engineer I		
Scope of Services							
1. Culvert #1263 - Robert McClory Bikepath							
1.1 Early Coordination and Data Collection							
A.	Initial Kick-Off Meeting with the LCDOT staff	2.0	2.0	2.0	2.0	8.0	3.0%
B.	SUE Study and Utility Coordination						
	Level D Atlas Research	1.0	2.0	8.0	32.0	43.0	16.1%
	Level B Field Investigation	4.0	16.0	32.0	32.0	84.0	31.5%
	Level A Potholing	2.0	2.0			4.0	1.5%
	Conflict analysis and Additional Utility Coordination	4.0	20.0	40.0	60.0	124.0	46.4%
C.	Geotechnical Investigation	2.0	2.0			4.0	1.5%
	Item 1.1 Subtotal	15.0	44.0	82.0	126.0	267.0	100.0%
1.2 Field Survey and Preparation of Base Drawings							
A.	Topographic and Hydraulic Survey	2.0	2.0	8.0	8.0	20.0	10.0%
B.	Preparation of Base CAD Drawings	1.0	40.0	60.0	80.0	181.0	90.0%
	Item 1.2 Subtotal	3.0	42.0	68.0	88.0	201.0	100.0%
1.3 Data Evaluation and Project Review							
A.	Environmental Review						
	i. Wetlands	2.0	2.0			4.0	6.3%
	ii. Biological	2.0	2.0			4.0	6.3%
	iii. Cultural	2.0	2.0			4.0	6.3%
	iv. Special Waste - Includes CCDD Permitting with IEPA LPC 663 Preparation	2.0	2.0	8.0	8.0	20.0	31.3%
B.	Hydraulic and Structural Analysis						
	i. Hydraulic Studies and Modeling	4.0	4.0			8.0	12.5%
	ii. Structural Studies	4.0	4.0			8.0	12.5%
C.	Permitting						
	i. IDNR-OWR Floodway Construction Permit	2.0	2.0			4.0	6.3%
	ii. Lake County Stormwater Management Ordinance	2.0	2.0			4.0	6.3%
	iii. Section 404 Permit	2.0	2.0			4.0	6.3%
	iv. NPDES Permit	2.0	2.0			4.0	6.3%
	Item 1.3 Subtotal	24.0	24.0	8.0	8.0	64.0	100.0%
1.4 Pre-Final Plans, Special Provisions, and Engineer's Estimate of Cost							
A.	Plans						
	Title Sheet/Index of Sheets/State and LCDOT Standards (1 sheet)		2.0	4.0	8.0	14.0	2.2%
	General Notes and List of Commitments (2 sheets)		2.0	4.0	8.0	14.0	2.2%
	Summary of Quantities (4 sheets)		4.0	4.0	8.0	16.0	2.5%
	Typical Bikepath Sections (1 sheet)		8.0	16.0	24.0	48.0	7.5%
	Removal Sheets - 1" = 20' (1 sheet)		2.0	16.0	24.0	42.0	6.6%
	Bikepath Plan & Profile Sheets - dual pane 1"=20' (1 sheet)	1.0	6.0	16.0	40.0	63.0	9.9%
	Bikepath Detour Plan (1 sheet)	1.0	4.0	16.0	24.0	45.0	7.1%
	Erosion Control and Landscape Restoration Plan 1" = 20' (1 sheet)	1.0	4.0	16.0	24.0	45.0	7.1%
	SUE Study - 1" = 50' (1 sheet)	1.0	4.0	16.0	24.0	45.0	7.1%
	Plat of Highways (5 sheets)		1.0	2.0	2.0	5.0	0.8%
	Culvert Modification Plans (12 Sheets)	1.0	2.0	4.0	4.0	11.0	1.7%
	Project Specific Details (2 sheets)		2.0	8.0	16.0	26.0	4.1%
	Roadway Construction Details and LCDOT Std. Highway Details (3 sheets)		1.0	4.0	16.0	21.0	3.3%
	IDOT Bureau Of Design Stds. w/ BD's and TC's, and Std. Highway Details (10 sheets)		2.0	6.0	32.0	40.0	6.3%
B.	Special Provisions	8.0	24.0	40.0		72.0	11.3%
C.	Quantity Calculations and Estimate of Cost	2.0	16.0	32.0	32.0	82.0	12.9%
D.	QA/QC Review	8.0	32.0	8.0		48.0	7.5%
	Item 1.4 Subtotal	23.0	116.0	212.0	286.0	637.0	100.0%
1.5 Right of Way Acquisition							
A.	Plat of Highways and Legal Descriptions	2.0	8.0	8.0	8.0	26.0	24.5%
B.	Appraisals and Neogotiations	40.0	40.0			80.0	75.5%
	Item 1.5 Subtotal	42.0	48.0	8.0	8.0	106.0	100.0%
1.6 Final Plans, Special Provisions, and Engineer's Estimate of Cost							
A.	Final Contract Document Modifications (Plan, Special Provisions, Quantities)	8.0	40.0	80.0	80.0	208.0	100.0%
	→ includes a disposition of comments to address the review comments received						
	Item 1.6 Subtotal	8.0	40.0	80.0	80.0	208.0	100.0%
1.7 Project Administration, Bid Support, Award Recommendation, & Pre-Construction Assistance							
A.	Project Administration (invoice preparation and job-file documentation)	8.0			8.0	16.0	27.6%
B.	Monthly Project Status Meetings with LCDOT Staff	12.0	12.0			24.0	41.4%
C.	Bid Support, Award Recommendations, and Pre-Construction Assistance	2.0	8.0	4.0	4.0	18.0	31.0%
	Item 1.7 Subtotal	22.0	20.0	4.0	12.0	58.0	100.0%
1.8 Construction Engineering Services							
A.	Shop Drawing Review, Response to Contractor RFI's, and Additional Supporting Info.	8.0	16.0	24.0	16.0	64.0	100.0%
	Item 1.8 Subtotal	8.0	16.0	24.0	16.0	64.0	100.0%
	Culvert #1263 Workhours Subtotal:	145.0	350.0	486.0	624.0	1,605.0	
	% of Workhours:	9.0%	21.8%	30.3%	38.9%	100.0%	



Exhibit A-3 Preliminary Engineering

Workhour Estimate							
Item No.	Task	Staff Classifications & Workhours				Total Workhours	% of Workhours
		Project Manager	Engineer IV	Engineer III	Engineer I		
Scope of Services							
2. Culvert #2002 - Deerfield Parkway							
2.1 Early Coordination and Data Collection							
A.	Initial Kick-Off Meeting with the LCDOT staff	2.0	2.0	2.0	2.0	8.0	3.0%
B.	SUE Study and Utility Coordination						
	Level D Atlas Research	1.0	2.0	8.0	32.0	43.0	16.1%
	Level B Field Investigation	4.0	16.0	32.0	32.0	84.0	31.5%
	Level A Potholing	2.0	2.0			4.0	1.5%
	Conflict analysis and Additional Utility Coordination	4.0	20.0	40.0	60.0	124.0	46.4%
C.	Geotechnical Investigation	2.0	2.0			4.0	1.5%
	Item 2.1 Subtotal	15.0	44.0	82.0	126.0	267.0	100.0%
2.2 Field Survey and Preparation of Base Drawings							
A.	Topographic and Hydraulic Survey	2.0	2.0	8.0	8.0	20.0	10.0%
B.	Preparation of Base CAD Drawings	1.0	40.0	60.0	80.0	181.0	90.0%
	Item 2.2 Subtotal	3.0	42.0	68.0	88.0	201.0	100.0%
2.3 Data Evaluation and Project Review							
A.	Environmental Review						
	i. Wetlands	2.0	2.0			4.0	1.7%
	ii. Biological	2.0	2.0			4.0	1.7%
	iii. Cultural	2.0	2.0			4.0	1.7%
	iv. Special Waste - Includes CCDD Permitting with IEPA LPC 663 Preparation	2.0	2.0	8.0	8.0	20.0	8.5%
B.	Hydraulic and Structural Analysis						
	i. Hydraulic Studies and Modeling	4.0	4.0			8.0	3.4%
	ii. Structural Studies	4.0	4.0			8.0	3.4%
C.	Permitting						
	i. IDNR-OWR Floodway Construction Permit	2.0	2.0			4.0	1.7%
	ii. Lake County Stormwater Management Ordinance	2.0	2.0			4.0	1.7%
	iii. Section 404 Permit	2.0	2.0			4.0	1.7%
	iv. NPDES Permit	2.0	2.0			4.0	1.7%
	v. Highway Permitting	2.0	8.0	8.0	4.0	22.0	9.4%
D.	MOT Analysis	4.0	24.0	40.0	80.0	148.0	63.2%
	Item 2.3 Subtotal	30.0	56.0	56.0	92.0	234.0	100.0%
2.4 Pre-Final Plans, Special Provisions, and Engineer's Estimate of Cost							
A.	Plans						
	Title Sheet/Index of Sheets/State and LCDOT Standards (1 sheet)		2.0	4.0	8.0	14.0	2.0%
	General Notes and List of Commitments (2 sheets)		2.0	4.0	8.0	14.0	2.0%
	Summary of Quantities (4 sheets)		4.0	4.0	8.0	16.0	2.3%
	Typical Roadway Sections (1 sheet)		8.0	16.0	24.0	48.0	6.8%
	Removal Sheets - 1" = 20' (1 sheet)		2.0	16.0	24.0	42.0	5.9%
	Roadway Plan & Profile Sheets - dual pane 1"=20' (1 sheet)	1.0	6.0	16.0	40.0	63.0	8.9%
	Maintenance of Traffic Notes and Typical (1 sheet)	1.0	4.0	8.0	16.0	29.0	4.1%
	Maintenance of Traffic Plans - 1" = 50' - 2 stages (2 sheets)	2.0	8.0	16.0	16.0	42.0	5.9%
	Detour Plan (1 sheet)	1.0	4.0	16.0	24.0	45.0	6.4%
	Erosion Control and Landscape Restoration Plan 1" = 20' (1 sheet)	1.0	4.0	16.0	24.0	45.0	6.4%
	SUE Study - 1" = 50' (1 sheet)	1.0	4.0	16.0	24.0	45.0	6.4%
	Plat of Highways (3 sheets)		1.0	2.0	2.0	5.0	0.7%
	Culvert Modification Plans (12 Sheets)	1.0	2.0	4.0	4.0	11.0	1.6%
	Project Specific Details (2 sheets)		2.0	8.0	16.0	26.0	3.7%
	Roadway Construction Details and LCDOT Std. Highway Details (3 sheets)		1.0	4.0	16.0	21.0	3.0%
	IDOT Bureau Of Design Stds. w/ BD's and TC's, and Std. Highway Details (10 sheets)		2.0	6.0	32.0	40.0	5.6%
B.	Special Provisions	8.0	24.0	40.0		72.0	10.2%
C.	Quantity Calculations and Estimate of Cost	2.0	16.0	32.0	32.0	82.0	11.6%
D.	QA/QC Review	8.0	32.0	8.0		48.0	6.8%
	Item 2.4 Subtotal	26.0	128.0	236.0	318.0	708.0	100.0%
2.5 Right of Way Acquisition							
A.	Plat of Highways and Legal Descriptions	2.0	8.0	8.0	8.0	26.0	24.5%
B.	Appraisals and Neogotiations	40.0	40.0			80.0	75.5%
	Item 2.5 Subtotal	42.0	48.0	8.0	8.0	106.0	100.0%
2.6 Final Plans, Special Provisions, and Engineer's Estimate of Cost							
A.	Final Contract Document Modifications (Plan, Special Provisions, Quantities)	8.0	40.0	80.0	80.0	208.0	100.0%
	→ includes a disposition of comments to address the review comments received						
	Item 2.6 Subtotal	8.0	40.0	80.0	80.0	208.0	100.0%
2.7 Project Administration, Bid Support, Award Recommendation, & Pre-Construction Assistance							
A.	Project Administration (invoice preparation and job-file documentation)	8.0			8.0	16.0	27.6%
B.	Monthly Project Status Meetings with LCDOT Staff	12.0	12.0			24.0	41.4%
C.	Bid Support, Award Recommendations, and Pre-Construction Assistance	2.0	8.0	4.0	4.0	18.0	31.0%
	Item 2.7 Subtotal	22.0	20.0	4.0	12.0	58.0	100.0%
2.8 Construction Engineering Services							
A.	Shop Drawing Review, Response to Contractor RFI's, and Additional Supporting Info.	8.0	16.0	24.0	16.0	64.0	100.0%
	Item 2.8 Subtotal	8.0	16.0	24.0	16.0	64.0	100.0%
	Culvert #2002 Workhours Subtotal:	154.0	394.0	558.0	740.0	1,846.0	
	% of Workhours:	8.3%	21.3%	30.2%	40.1%	100.0%	

Preliminary Engineering Cost Estimate of Consultant's Services

Exhibit A-3

Page 1 of 1



Exhibit A-3 Preliminary Engineering

Workhour Estimate							
Item No.	Task	Staff Classifications & Workhours				Total Workhours	% of Workhours
		Project Manager	Engineer IV	Engineer III	Engineer I		
<u>Scope of Services</u>							
	Contract Workhours Total	299.0	744.0	1044.0	1364.0	3451.0	
	% of Workhours:	8.7%	21.6%	30.3%	39.5%	100.0%	

Exhibit A - 4 Preliminary Engineering

Services by Others and In-House Direct Costs			
Item No.	Task	In-House Direct Cost	Sub-Consultant Cost
1. Culvert #1263 - Robert McClory Bikepath			
1.1 Early Coordination and Data Collection			
	Sub-Consultant: Midland Standard Engineering and Testing (Geotechnical)		\$5,715.00
	Direct Cost: Level A Potholing (4 Potholes)	\$20,000.00	
	Item 1.1 Subtotal	\$20,000.00	\$5,715.00
1.2 Field Survey and Preparation of Base Drawings			
	Sub-Consultant: Jorgensen & Associates, Inc. (Topographic Survey)		\$27,399.00
	Item 1.2 Subtotal	\$0.00	\$27,399.00
1.3 Data Evaluation and Project Review			
	Sub-Consultant: Engineering Resource Associates (Environmental Review, Structural and Hydraulic Designs)		\$134,710.74
	Sub-Consultant: GZA (Special Waste Screening and LPC-663 Preparation)		\$22,788.00
	Item 1.3 Subtotal	\$0.00	\$157,498.74
1.4 Pre-Final Plans, Special Provisions, and Engineer's Estimate of Cost			
	Item 1.4 Subtotal	\$0.00	\$0.00
1.5 Right of Way Acquisition			
	Sub-Consultant: Sub-Consultant: Jorgensen & Associates, Inc. (Plats)		\$29,188.00
	Sub-Consultant: Santacruz Land Acquisitions (Appraisals, Negotiations)		\$43,000.00
	Item 1.5 Subtotal	\$0.00	\$72,188.00
1.6 Final Plans, Special Provisions, and Engineer's Estimate of Cost			
	Item 1.6 Subtotal	\$0.00	\$0.00
1.7 Project Administration, Bid Support, Award Recommendation, & Pre-Construction Assistance			
	Item 1.7 Subtotal	\$0.00	\$0.00
1.8 Construction Engineering Services			
	Item 1.8 Subtotal	\$0.00	\$0.00
	Culvert #1263 Subtotal	\$20,000.00	\$262,800.74

Exhibit A - 4 Preliminary Engineering

Services by Others and In-House Direct Costs			
Item No.	Task	In-House Direct Cost	Sub-Consultant Cost
2. Culvert #2002 - Deerfield Parkway			
2.1 Early Coordination and Data Collection			
	Sub-Consultant: Midland Standard Engineering and Testing (Geotechnical)		\$5,830.00
	Direct Cost: Level A Potholing (4 Potholes)	\$20,000.00	
	Item 2.1 Subtotal	\$20,000.00	\$5,830.00
2.2 Field Survey and Preparation of Base Drawings			
	Sub-Consultant: Jorgensen & Associates, Inc. (Topographic Survey)		\$17,275.00
	Item 2.2 Subtotal	\$0.00	\$17,275.00
2.3 Data Evaluation and Project Review			
	Sub-Consultant: Engineering Resource Associates (Environmental Review, Structural and Hydraulic Designs)		\$143,910.74
	Sub-Consultant: GZA (Special Waste Screening and LPC-663 Preparation)		\$10,251.00
	Item 2.3 Subtotal	\$0.00	\$154,161.74
2.4 Pre-Final Plans, Special Provisions, and Engineer's Estimate of Cost			
	Item 2.4 Subtotal	\$0.00	\$0.00
2.5 Right of Way Acquisition			
	Sub-Consultant: Sub-Consultant: Jorgensen & Associates, Inc. (Plats)		\$23,612.00
	Sub-Consultant: Santacruz Land Acquisitions (Appraisals, Negotiations)		\$25,800.00
	Item 2.5 Subtotal	\$0.00	\$49,412.00
2.6 Final Plans, Special Provisions, and Engineer's Estimate of Cost			
	Item 2.6 Subtotal	\$0.00	\$0.00
2.7 Project Administration, Bid Support, Award Recommendation, & Pre-Construction Assistance			
	Item 2.7 Subtotal	\$0.00	\$0.00
2.8 Construction Engineering Services			
	Item 2.8 Subtotal	\$ -	\$ -
	Culvert #2002 Subtotal	\$20,000.00	\$ 226,678.74
	Contract Total In-House Direct Costs:	\$40,000.00	
	Contract Total Subconsultant Costs:		\$489,479.48
	TOTAL IN-HOUSE DIRECT & SUBCONSULTANT COSTS:	\$529,479.48	



JORGENSEN & ASSOCIATES, INC.
LAND SURVEYORS
Est. 1990

January 23, 2026

Mr. Trent Bruns, P.E.
Bravo Company Engineering
550 Warrenville Road
Suite 220
Lisle, Illinois 60532

Re: Robert McClory Bike Path over Waukegan River Survey Proposal

Dear Mr. Bruns:

Enclosed please find our revised proposal to prepare a topographic survey and a statutory plat of highways and legal descriptions for the referenced project. Our proposal is based on your email of September 10th, 2025 and January 21st, 2026 and our telephone conversations.

I would like to thank you for considering Jorgensen & Associates for this project. We look forward to developing a working relationship with your firm. Should you have any questions, comments or require any further information concerning our proposal, please feel free to call me at (847)356-3371.

Respectfully submitted,
Jorgensen & Associates, Inc.

Kirk J. Ruter, P.L.S.

CHJ/pt

Enclosures

E:\Bravo\Lake\McClory Bike Path\Revised\Letter

SCOPE OF SERVICES

Topographic Survey

General: The topographic survey to include: structures, ground shots, fences, path, guardrails, utilities, locate trees 6" and larger, soil borings and storm and sanitary sewer inverts within the project corridor.

The project corridor being the Robert McClory Bike Path R.O.W. extending 100 feet north and 100 feet south of the culvert span. Also extending 150 feet upstream and 150 feet downstream of the ends of the culvert. The survey will include the establishment of the R.O.W. lines of the old railroad within the project limits.

Perform a hydraulic survey with the limits of 1,000 feet upstream and downstream of culvert including cross sections at the face of the structure, 50 feet, 250 feet, 500 feet, and 1,000 feet along both the upstream and downstream sides.

Establish bench marks and horizontal control points based on NGS geodetic survey monuments with G.P.S. survey methods. Locate and describe bench marks. The project will be based on NAD '83(2011) and NGVD '88 datums.

Prepare "MicroStation" base file of the topographic survey and provide "GEOPAK" T.I.N.

All work will be completed according to the current Lake County Design Survey Procedures dated 2/22/2021.

Land Acquisition Survey

General: Prepare a Plat of Highways and legal descriptions for 5 parcels requiring 5 title commitments.

The project involves land surveying to reference the public land lines to the location of property boundaries, preparation of a statutory plat of highways and legal descriptions, monumentation of the proposed right of way, if applicable, and/or establishment of easements, if applicable. The preparation and recording of "Monument Record" documents for all U.S. public land survey monuments referenced in the plat of highways.

Search for and locate boundary monumentation and locate appraisal topography on all affected parcels.

Research at County Recorder for any pertinent boundary documentation. Provide and review title commitments, calculate parcel boundaries, proposed center line alignments, if provided, and proposed right of way lines, if applicable, and/or any proposed easements.

Prepare preliminary plat of highways and legal descriptions.

Monument center line alignments, if provided, and proposed right of way, if applicable, section corners and quarter corners.

Prepare final plat of highways and legal descriptions, submit to client for recording.

Route: Robert McClory Bike Path
Section: @ Waukegan River
County: Lake
Job No.:

Exhibit "A"

Payroll Burden & Fringe Costs

	<u>% of Direct Productive Payroll</u>
Federal Insurance Contributions Act _____	11.96%
State Unemployment Compensation _____	0.32%
Federal Unemployment Compensation _____	0.13%
Workmen's Compensation Insurance _____	1.35%
Paid Holidays, Vacation, Sick Leave, Personal Leave _____	11.22%
Bonus _____	4.12%
401(K) _____	0.88%
Group Insurance _____	<u>42.24%</u>
Total Payroll Burden & Fringe Costs	72.22%

Route: Robert McClory Bike Path
 Section: @ Waukegan River
 County: Lake
 Job No.:

Exhibit "B"

Overhead and Indirect Costs

	<u>% of Direct Productive Payroll</u>
Business Insurance _____	4.26%
Depreciation _____	4.22%
Indirect wages and salaries _____	43.10%
Office Expenses _____	1.18%
Office Supplies _____	2.59%
Dues & Subscriptions _____	0.54%
Computer Software _____	4.32%
Professional Fees _____	1.57%
Telephone _____	2.77%
Fees, license & dues _____	0.05%
Repairs and maintenance _____	2.30%
Business space rent _____	4.74%
Facilities - capital _____	0.33%
In-house mileage _____	-5.71%
Survey Supplies _____	0.80%
Automobile/travel expense _____	7.16%
Miscellaneous Expense _____	0.54%
State Income Tax _____	0.39%
Recruiting _____	1.05%
Postage _____	0.10%
Educational & Professional Registrations _____	0.26%
Tech _____	<u>1.66%</u>
 Total Overhead	 78.22%



Local Public Agency Lake County Division of Transportation	County Lake	Section Number
Prime Consultant (Firm) Name Jorgensen & Associates, Inc.	Prepared By Kirk J. Ruter	Date 1/23/2026
Consultant / Subconsultant Name Bravo Engineering Company	Job Number 	

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

Remarks

PAYROLL ESCALATION TABLE

CONTRACT TERM	24	MONTHS	OVERHEAD RATE	150.44%
START DATE	1/23/2026		COMPLEXITY FACTOR	0
RAISE DATE	6/1/2026		% OF RAISE	3.00%
END DATE	1/22/2028			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	1/23/2026	6/1/2026	4	16.67%
1	6/2/2026	6/1/2027	12	51.50%
2	6/2/2027	2/1/2028	8	35.36%

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

Consultant / Subconsultant Name

Bravo Engineering Company

Job Number

DIRECT COSTS WORKSHEET

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

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	944	\$0.70	\$660.80
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day			\$0.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost			\$0.00
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)	7	\$5.00	\$35.00
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	2	\$70.00	\$140.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost	130	\$1.00	\$130.00
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:				\$965.80

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

Consultant / Subconsultant Name

Bravo Engineering Company

Job Number

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

SHEET 1 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			(1) Field-Topographic Survey			(2) Office-Compile Field Data			(3) Office-Create Topography Base File			(4) Office-Create T.I.N. & Contours			(5) QC/QA		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Survey Party Chief, P.L.S.	37.79	94.0	15.41%	5.82				18	54.55%	20.61							6	100.00%	37.79
Survey Party Chief	31.32	206.0	33.77%	10.58	136	50.00%	15.66												
Instrument Operator	21.74	206.0	33.77%	7.34	136	50.00%	10.87												
Cadd Supervisor	39.60	104.0	17.05%	6.75				15	45.45%	18.00	20	100.00%	39.60	4	100.00%	39.60			
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
TOTALS		610.0	100%	\$30.49	272.0	100.00%	\$26.53	33.0	100%	\$38.61	20.0	100%	\$39.60	4.0	100%	\$39.60	6.0	100%	\$37.79

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

Consultant / Subconsultant Name

Bravo Engineering Company

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 2 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	(6) Pre-Survey Phase			(7) Survey Reconnaissance			(8) Project Survey Plan			(9) First Submittal Plat of Hyws. & Descriptions			(10) Survey (Field)			(11) Survey (Office)		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Survey Party Chief, P.L.S.	37.79										8	19.05%	7.20				40	83.33%	31.49
Survey Party Chief	31.32				16	50.00%	15.66							54	50.00%	15.66			
Instrument Operator	21.74				16	50.00%	10.87							54	50.00%	10.87			
Cadd Supervisor	39.60	8	100.00%	39.60				8	100.00%	39.60	34	80.95%	32.06				8	16.67%	6.60
TOTALS		8.0	100%	\$39.60	32.0	100%	\$26.53	8.0	100%	\$39.60	42.0	100%	\$39.26	108.0	100%	\$26.53	48.0	100%	\$38.09

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

Consultant / Subconsultant Name

Bravo Engineering Company

Job Number

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

SHEET 3 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	(12) Final Submittal Plat of Hwys & Descriptions			(13) QC/QA														
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Survey Party Chief, P.L.S.	37.79	2	22.22%	8.40	20	100.00%	37.79												
Survey Party Chief	31.32																		
Instrument Operator	21.74																		
Cadd Supervisor	39.60	7	77.78%	30.80															
TOTALS		9.0	100%	\$39.20	20.0	100%	\$37.79	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

Route: Robert McClory Bike Path
 Section: @ Waukegan River
 County: Lake
 Job No.:

**Manhour Breakdown
 Topographic Survey Estimate**

Robert McClory Bike Path $\pm \frac{675'}{5280} = \pm 0.128$ mile

Total Length $\pm 675' = \pm 0.128$ mile

1. Field – Topographic Survey

- a. Measure traverse, level circuit & G.P.S. survey
 12 hours x 2 men = 24 MH
- b. Search & locate existing R.O.W. & section lines
 12 hours x 2 men = 24 MH
- c. Locate existing topography & inverts
 32 hours x 2 men = 64 MH
- d. Locate hydraulic sections & stream survey
 80 hours x 2 men = 160 MH

Sub-total Item #1 272 MH

2. Office - Compile Field Data

- a. Compute traverse, level circuit & G.P.S. survey
 6 hours x 1 man = 6 MH
- b. Edit & compile field data
 12 hours x 1 man = 12 MH
- c. Research records
 3 hours x 1 man = 3 MH
- d. Compute existing R.O.W. lines & section lines
 12 hours x 1 man = 12 MH

Sub-total Item #2 33 MH

3. Office - Create Existing Topography Base File		
a. Layout and drafting		
20 hours x 1 man =		20 MH
4. Office - Create T.I.N. & Contours		
a. Compute contours		
4 hours x 1 man =		4 MH
5. QC/QA		
a. Check topographic survey		
5 hours x 1 man =		5 MH
b. Check contours		
1 hour x 1 man =		<u>1 MH</u>
	Sub-total Item #5	6 MH

Route: Robert McClory Bike Path
 Section: @ Waukegan River
 County: Lake
 Job No.:

**Manhour Breakdown
 Land Acquisition Estimate**

Length of Project

Robert McClory Bike Path $\pm 675' = \pm 0.128$ mile

Total Length $\pm 675' = \pm 0.128$ mile

5 Parcels: 5 Fee Simple/Easements

6. Pre-Survey Phase
 Research available records

a.	Title Co.)	
)	
b.	Recorder's Office)	8 MH
)	
c.	I.D.O.T.)	
)	
d.	Utilities)	
)	
e.	Private Surveyors)	
)	
f.	Land Owners)	

Sub-total Item # 6 8 MH

7. Reconnaissance Survey 2 Men 32 MH

8.	Project Survey Plan		$\pm 2,640'$ /sheet - 1 sheet	
	a.	Alignment info)	
)	
	b.	Existing R.O.W. info)	
)	
	c.	Land line data)	
)	
	d.	Subdivision data)	1 sheet
				<u>8 MH</u>
			Sub-total Item #8	8 MH
9.	First Submittal Plat of Highways & Descriptions			
	a.	Ownership info)	
)	
	b.	Total holding boundaries)	
)	
	c.	Total holding area listing)	4 MH
)	
	d.	Private survey info)	
)	
	e.	Deed calculated closures)	
	f.	Layout and drafting	$\pm 500'$ /sht. ± 2 sheets	
		16 hours x 1 man =		16 MH
		Cover Sheet	1 sheet	
		1 hour x 1 man =		1 MH
		Index Sheet	1 sheet	
		1 hour x 1 man =		1 MH
		Alignment sheets	1 sheet	
		4 hours x 1 man =		4 MH
		Total Holding sheets	2 sheets	
		8 hours x 1 man =		8 MH
	g.	Legal descriptions	5 descriptions	<u>8 MH</u>
			Sub-total Item #9	42 MH

10.	Survey (Field)		
a.	Measure existing property lines 32 hours x 2 men =		64 MH
b.	Appraisal topography 16 hours x 2 men =		32 MH
c.	Monument & reference section & quarter corners 6 hours x 2 men =		<u>12 MH</u>
		Sub-total Item #10	108 MH
11.	Survey (Office)		
a.	Compute traverse 6 hours x 1 man =		6 MH
b.	Compute existing property lines 24 hours x 1 man =		24 MH
c.	Compile appraisal topography 8 hours x 1 man =		8 MH
d.	Compute center line alignment 2 hours x 1 man =		2 MH
e.	Compute proposed takes/easements 8 hours x 1 man =		<u>8 MH</u>
		Sub-total Item #11	48 MH

12.	Final Submittal Plat of Highways & Descriptions	
a.	Final drafting \pm 7 sheets 3 hours x 1 man =	3 MH
b.	Final descriptions 5 descriptions	1 MH
c.	Prepare & record Monument Records 2 Monument Records	4 MH
d.	Assembly of final papers	<u>1 MH</u>
	Sub-total Item #12	9 MH
13.	QC/QA	
a.	Check preliminary plats 7 sheets	16 MH
b.	Check preliminary legal descriptions 5 legal descriptions	2 MH
c.	Check final plats 7 sheets	1 MH
d.	Check final legal descriptions 5 legal descriptions	<u>1 MH</u>
	Sub-total Item #13	20 MH
	Total All Items	610 MH

Route: Robert McClory Bike Path
Section: @ Waukegan River
County: Lake
Job No.:

**Breakdown of
In House Direct Costs**

Item

1. Field – Topographic Survey

a. Trips to project site – 17 each
± 32 miles/trip x 17 trips = ± 544 miles
± 544 miles @ \$0.70/mile = \$ 380.80

2. Office – Compile Field Data

a. Trips to County Recorder – 1 each
± 30 miles/trip x 1 trip = ± 30 miles
± 30 miles @ \$0.70/mile = \$ 21.00

b. Subdivisions & Monument Records \$ 100.00

Sub-total Item #2 \$ 121.00

6. Pre-Survey Phase

a. Trips to County Recorder – 1 each
± 30 miles/trip x 1 trip = ± 30 miles
± 30 miles @ \$0.70/mile = \$ 21.00

b. Deeds \$ 30.00

Sub-total Item 6 \$ 51.00

7. Reconnaissance Survey

a. Trips to project site – 2 each
± 32 miles/trip x 2 trips = ± 64 miles
± 64 miles @ \$0.70/mile = \$ 44.80

10. Survey (Field)

- a. Trips to project site – 7 each
± 32 miles/trip x 7 trips = ± 224 miles
± 224 miles @ \$0.70/mile = \$ 156.80

12. Final Submittal Plat of Highways & Descriptions

- a. Plat of Highways Mylars
7 sheets @ \$5.00/sheet = \$ 35.00
- b. Trips to County Recorder
± 30 miles/trip x 1 trip = ± 30 miles
± 30 miles @ \$0.70/mile = \$ 21.00
- c. Record Monument Records
2 Monument Record @ \$70 = \$ 140.00
- d. Deliver Final Papers to Lake County office
± 22 miles/trip x 1 trip = ± 22 miles
± 22 miles @ \$0.70/mile = \$ 15.40

Total All Items \$ 965.80

Route: Robert McClory Bike Path
Section: @ Waukegan River
County: Lake
Job No.:

**Breakdown of
Services by Others**

Item

6. Pre-Survey Phase

- | | |
|---|-------------|
| a. Commitments for Title Insurance
5 Commitments @ \$580.00 each = | \$ 2,900.00 |
|---|-------------|



JORGENSEN & ASSOCIATES, INC.

LAND SURVEYORS

Est. 1990

January 23, 2026

Mr. Trent Bruns, P.E.
Bravo Company Engineering
550 Warrenville Road
Suite 220
Lisle, Illinois 60532

Re: Deerfield Parkway over Aptakisic Creek Survey Proposal

Dear Mr. Bruns:

Enclosed please find our revised proposal to prepare a topographic survey and a statutory plat of highways and legal descriptions for the referenced project. Our proposal is based on your email of September 10th, 2025 and January 21st, 2026 and our telephone conversations.

I would like to thank you for considering Jorgensen & Associates for this project. We look forward to developing a working relationship with your firm. Should you have any questions, comments or require any further information concerning our proposal, please feel free to call me at (847)356-3371.

Respectfully submitted,
Jorgensen & Associates, Inc.

Kirk J. Ruter, P.L.S.

CHJ/pt

Enclosures

E:\Bravo\Lake\Deerfield Pkwy\Revised\Letter

SCOPE OF SERVICES

Topographic Survey

General: The topographic survey to include: structures, ground shots, fences, sidewalks, roadway, median, guardrails, utilities, locate trees 6" and larger, soil borings and storm and sanitary sewer inverts within the project corridor.

The project corridor being the Deerfield Parkway R.O.W. extending 100 feet east and 100 feet west of the culvert span. Also extending 150 feet upstream and 150 feet downstream of the ends of the culvert. The survey will include the establishment of the R.O.W. lines of Deerfield Parkway within the project limits.

Perform a hydraulic survey with the limits of 1,000 feet upstream and downstream of culvert including cross sections at face of structure, 50 feet, 250 feet, 500 feet, and 1,00 feet upstream and downstream.

Establish bench marks and horizontal control points based on NGS geodetic survey monuments with G.P.S. survey methods. Locate and describe bench marks. The project will be based on NAD '83(2011) and NGVD '88 datums.

Prepare "MicroStation" base file of the topographic survey and provide "GEOPAK" T.I.N.

All work will be completed according to the current Lake County Design Survey Procedures dated 2/22/2021.

Land Acquisition Survey

General: Prepare a Plat of Highways and legal descriptions for 3 parcels requiring 3 title commitments.

The project involves land surveying to reference the highway center lines to public land lines, the location of property boundaries, preparation of a statutory plat of highways and legal descriptions, monumentation of the proposed right of way, if applicable, and/or establishment of easements, if applicable.

Search for and locate boundary monumentation and locate appraisal topography on all affected parcels.

Research at County Recorder for any pertinent boundary documentation. Provide and review title commitments, calculate parcel boundaries, proposed center line alignments, if provided, and proposed right of way lines, if applicable, and/or any proposed easements.

Prepare preliminary plat of highways and legal descriptions.

Monument center line alignments, if provided, and proposed right of way, if applicable.

Prepare final plat of highways and legal descriptions, submit to client for recording.

Route: Deerfield Parkway
Section: @ Aptakisic Creek
County: Lake
Job No.:

Exhibit "A"

Payroll Burden & Fringe Costs

	<u>% of Direct Productive Payroll</u>
Federal Insurance Contributions Act _____	11.96%
State Unemployment Compensation _____	0.32%
Federal Unemployment Compensation _____	0.13%
Workmen's Compensation Insurance _____	1.35%
Paid Holidays, Vacation, Sick Leave, Personal Leave _____	11.22%
Bonus _____	4.12%
401(K) _____	0.88%
Group Insurance _____	<u>42.24%</u>
Total Payroll Burden & Fringe Costs	72.22%

Route: Deerfield Parkway
Section: @ Aptakistic Creek
County: Lake
Job No.:

Exhibit "B"

Overhead and Indirect Costs

	<u>% of Direct Productive Payroll</u>
Business Insurance _____	4.26%
Depreciation _____	4.22%
Indirect wages and salaries _____	43.10%
Office Expenses _____	1.18%
Office Supplies _____	2.59%
Dues & Subscriptions _____	0.54%
Computer Software _____	4.32%
Professional Fees _____	1.57%
Telephone _____	2.77%
Fees, license & dues _____	0.05%
Repairs and maintenance _____	2.30%
Business space rent _____	4.74%
Facilities - capital _____	0.33%
In-house mileage _____	-5.71%
Survey Supplies _____	0.80%
Automobile/travel expense _____	7.16%
Miscellaneous Expense _____	0.54%
State Income Tax _____	0.39%
Recruiting _____	1.05%
Postage _____	0.10%
Educational & Professional Registrations _____	0.26%
Tech _____	<u>1.66%</u>
 Total Overhead	 78.22%



Local Public Agency Lake County Division of Transportation	County Lake	Section Number
Prime Consultant (Firm) Name Jorgensen & Associates, Inc.	Prepared By Kirk J. Ruter	Date 1/23/2026
Consultant / Subconsultant Name Bravo Engineering Company	Job Number 	

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

Remarks

PAYROLL ESCALATION TABLE

CONTRACT TERM	24	MONTHS			OVERHEAD RATE	150.44%
START DATE	1/23/2026				COMPLEXITY FACTOR	0
RAISE DATE	6/1/2026				% OF RAISE	3.00%
END DATE	1/22/2028					

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	1/23/2026	6/1/2026	4	16.67%
1	6/2/2026	6/1/2027	12	51.50%
2	6/2/2027	2/1/2028	8	35.36%

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

Consultant / Subconsultant Name

Bravo Engineering Company

Job Number

DIRECT COSTS WORKSHEET

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

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	904	\$0.70	\$632.80
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day			\$0.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost			\$0.00
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)	7	\$5.00	\$35.00
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	130	\$1.00	\$130.00
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:				\$797.80

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

Consultant / Subconsultant Name

Bravo Engineering Company

Job Number

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

SHEET 1 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			(1) Field-Topographic Survey			(2) Office-Compile Field Data			(3) Office-Create Topography Base File			(4) Office-Create T.I.N. & Contours			(5) QC/QA		
		Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg
Survey Party Chief, P.L.S.	37.79	79.0	17.83%	6.74				12	50.00%	18.89							2	100.00%	37.79
Survey Party Chief	31.32	148.0	33.41%	10.46	84	50.00%	15.66												
Instrument Operator	21.74	148.0	33.41%	7.26	84	50.00%	10.87												
Cadd Supervisor	39.60	68.0	15.35%	6.08				12	50.00%	19.80	12	100.00%	39.60	4	100.00%	39.60			
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
TOTALS		443.0	100%	\$30.54	168.0	100.00%	\$26.53	24.0	100%	\$38.69	12.0	100%	\$39.60	4.0	100%	\$39.60	2.0	100%	\$37.79

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

Consultant / Subconsultant Name

Bravo Engineering Company

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 2 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	(6) Pre-Survey Phase			(7) Survey Reconnaissance			(8) Project Survey Plan			(9) First Submittal Plat of Hwys. & Descriptions			(10) Survey (Field)			(11) Survey (Office)		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Survey Party Chief, P.L.S.	37.79										4	12.50%	4.72				40	90.91%	34.35
Survey Party Chief	31.32				16	50.00%	15.66							48	50.00%	15.66			
Instrument Operator	21.74				16	50.00%	10.87							48	50.00%	10.87			
Cadd Supervisor	39.60	2	100.00%	39.60				4	100.00%	39.60	28	87.50%	34.65				4	9.09%	3.60
TOTALS		2.0	100%	\$39.60	32.0	100%	\$26.53	4.0	100%	\$39.60	32.0	100%	\$39.37	96.0	100%	\$26.53	44.0	100%	\$37.95

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

Consultant / Subconsultant Name

Bravo Engineering Company

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 3 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	(12) Final Submittal Plat of Hwys & Descriptions			(13) QC/QA														
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Survey Party Chief, P.L.S.	37.79	2	50.00%	18.89	19	100.00%	37.79												
Survey Party Chief	31.32																		
Instrument Operator	21.74																		
Cadd Supervisor	39.60	2	50.00%	19.80															
TOTALS		4.0	100%	\$38.69	19.0	100%	\$37.79	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

Route: Deerfield Parkway
 Section: @ Aptakisic Creek
 County: Lake
 Job No.:

**Manhour Breakdown
 Topographic Survey Estimate**

Deerfield Parkway $\pm \underline{675'} = \pm \underline{0.128 \text{ mile}}$

Total Length $\pm 675' = \pm 0.128 \text{ mile}$

1. Field – Topographic Survey

- a. Measure traverse, level circuit & G.P.S. survey
 8 hours x 2 men = 16 MH
- b. Search & locate existing R.O.W. & section lines
 12 hours x 2 men = 24 MH
- c. Locate existing topography & inverts
 12 hours x 2 men = 24 MH
- d. Locate hydraulic sections & stream survey
 52 hours x 2 men = 104 MH

Sub-total Item #1 168 MH

2. Office - Compile Field Data

- a. Compute traverse, level circuit & G.P.S. survey
 4 hours x 1 man = 4 MH
- b. Edit & compile field data
 10 hours x 1 man = 10 MH
- c. Research records
 2 hours x 1 man = 2 MH
- d. Compute existing R.O.W. lines & section lines
 8 hours x 1 man = 8 MH

Sub-total Item #2 24 MH

3. Office - Create Existing Topography Base File		
a. Layout and drafting		
12 hours x 1 man =		12 MH
4. Office - Create T.I.N. & Contours		
a. Compute contours		
4 hours x 1 man =		4 MH
5. QC/QA		
a. Check topographic survey		
1 hour x 1 man =		1 MH
b. Check contours		
1 hour x 1 man =		<u>1 MH</u>
	Sub-total Item #5	2 MH

Route: Deerfield Parkway
 Section: @ Aptakistic Creek
 County: Lake
 Job No.:

**Manhour Breakdown
 Land Acquisition Estimate**

Length of Project

Deerfield Parkway ± 675' = ± 0.128 mile

Total Length ± 675' = ± 0.128 mile

3 Parcels: 3 Fee Simple/Easements

6. Pre-Survey Phase
 Research available records

a.	Title Co.)	
)	
b.	Recorder's Office)	2 MH
)	
c.	I.D.O.T.)	
)	
d.	Utilities)	
)	
e.	Private Surveyors)	
)	
f.	Land Owners)	

Sub-total Item # 6 2 MH

7. Reconnaissance Survey 2 Men 32 MH

8.	Project Survey Plan		$\pm 2,640'$ /sheet - 1 sheet	
	a.	Alignment info)	
)	
	b.	Existing R.O.W. info)	
)	
	c.	Land line data)	
)	
	d.	Subdivision data)	1 sheet
				<u>4 MH</u>
			Sub-total Item #8	4 MH
9.	First Submittal Plat of Highways & Descriptions			
	a.	Ownership info)	
)	
	b.	Total holding boundaries)	
)	
	c.	Total holding area listing)	4 MH
)	
	d.	Private survey info)	
)	
	e.	Deed calculated closures)	
	f.	Layout and drafting	$\pm 500'$ /sht. ± 2 sheets	
		16 hours x 1 man =		16 MH
		Cover Sheet	1 sheet	
		1 hour x 1 man =		1 MH
		Index Sheet	1 sheet	
		1 hour x 1 man =		1 MH
		Alignment sheets	1 sheet	
		2 hours x 1 man =		2 MH
		Total Holding sheets	1 sheet	
		4 hours x 1 man =		4 MH
	g.	Legal descriptions	3 descriptions	<u>4 MH</u>
			Sub-total Item #9	32 MH

10.	Survey (Field)		
	a.	Measure existing property lines 24 hours x 2 men =	48 MH
	b.	Appraisal topography 16 hours x 2 men =	32 MH
	c.	Monument proposed R.O.W. & alignment points 8 hours x 2 men =	<u>16 MH</u>
		Sub-total Item #10	96 MH
11.	Survey (Office)		
	a.	Compute traverse 6 hours x 1 man =	6 MH
	b.	Compute existing property lines 24 hours x 1 man =	24 MH
	c.	Compile appraisal topography 4 hours x 1 man =	4 MH
	d.	Compute center line alignment 2 hours x 1 man =	2 MH
	e.	Compute proposed takes/easements 8 hours x 1 man =	<u>8 MH</u>
		Sub-total Item #11	44 MH

12.	Final Submittal Plat of Highways & Descriptions	
a.	Final drafting \pm 7 sheets 2 hours x 1 man =	2 MH
b.	Final descriptions: 3 descriptions	1 MH
c.	Assembly of final papers	<u>1 MH</u>
	Sub-total Item #12	4 MH
13.	QC/QA	
a.	Check preliminary plats 7 sheets	16 MH
b.	Check preliminary legal descriptions 3 legal descriptions	1 MH
c.	Check final plats 7 sheets	1 MH
d.	Check final legal descriptions 3 legal descriptions	<u>1 MH</u>
	Sub-total Item #13	19 MH
	Total All Items	443 MH

Route: Deerfield Parkway
Section: @ Aptakisic Creek
County: Lake
Job No.:

**Breakdown of
In House Direct Costs**

Item

1. Field – Topographic Survey

a. Trips to project site – 11 each
 $\pm 44 \text{ miles/trip} \times 4 \text{ trips} = \pm 484 \text{ miles}$
 $\pm 484 \text{ miles @ } \$0.70/\text{mile} =$ \$ 338.80

2. Office – Compile Field Data

a. Trips to County Recorder – 1 each
 $\pm 30 \text{ miles/trip} \times 1 \text{ trip} = \pm 30 \text{ miles}$
 $\pm 30 \text{ miles @ } \$0.70/\text{mile} =$ \$ 21.00

b. Subdivisions & Monument Records \$ 100.00

Sub-total Item #2 \$ 121.00

6. Pre-Survey Phase

a. Trips to County Recorder – 1 each
 $\pm 30 \text{ miles/trip} \times 1 \text{ trip} = \pm 30 \text{ miles}$
 $\pm 30 \text{ miles @ } \$0.70/\text{mile} =$ \$ 21.00

b. Deeds \$ 30.00

Sub-total Item 6 \$ 51.00

7. Reconnaissance Survey

a. Trips to project site – 2 each
 $\pm 44 \text{ miles/trip} \times 2 \text{ trips} = \pm 88 \text{ miles}$
 $\pm 88 \text{ miles @ } \$0.70/\text{mile} =$ \$ 61.60

10. Survey (Field)

a. Trips to project site – 5 each
± 44 miles/trip x 5 trips = ± 220 miles
± 220 miles @ \$0.70/mile = \$ 154.00

12. Final Submittal Plat of Highways & Descriptions

a. Plat of Highways Mylars
7 sheets @ \$5.00/sheet = \$ 35.00

b. Trips to County Recorder
± 30 miles/trip x 1 trip = ± 30 miles
± 30 miles @ \$0.70/mile = \$ 21.00

c. Deliver Final Papers to Lake County office
± 22 miles/trip x 1 trip = ± 22 miles
± 22 miles @ \$0.70/mile = \$ 15.40

Total All Items \$ 797.80

Route: Deerfield Parkway
Section: @ Aptakistic Creek
County: Lake
Job No.:

**Breakdown of
Services by Others**

Item

6. Pre-Survey Phase

- | | |
|---|-------------|
| a. Commitments for Title Insurance
3 Commitments @ \$580.00 each = | \$ 1,740.00 |
|---|-------------|



A Subsidiary of GZA



September 26, 2025

Trent Bruns, P.E.
Project Engineer
Bravo Company Engineering
550 Warrenville Road, Suite 220
Lisle, Illinois 60532

Via Email: tbruns@bravocoeng.com

**Re: CCDD Spoils Management Assistance
Culvert #1263 Replacement Project
City of Waukegan, Lake County, Illinois
Proposal No.: 81.P002013.26**

Dear Mr. Bruns:

Huff & Huff, Inc., a subsidiary of GZA, Inc. (GZA) is pleased to submit this proposal to Bravo Company Engineering (Client or Bravo) to perform soil management services for documentation of final disposition at Clean Construction and Demolition Debris (CCDD) facilities. This proposal presents our project approach, the scope of services, cost, and schedule for completing the project.

1. INTRODUCTION

Client has provided reference documents which shall serve as the basis of our understanding to prepare this scope and fee. The reference documents include project location, site photos, and historical plan excerpts and we understand Lake County Division of Transportation (LCDOT) is proposing full removal and replacement of Culvert #1263 – Robert McClory Bike Path over Waukegan River (10-foot concrete pipe arch culvert, approximately 84-feet in length).

We anticipate that excavation and off-site final disposition of spoils, including soil and sediment, is anticipated to accommodate these improvements. Since this project involves a culvert below a former railroad corridor and sediments, we anticipate this project requiring the LPC-663 Form approach with sampling for potential contaminants of concern, regardless of if adjacent sites are identified as potentially impacted properties (PIPs).

Additionally, since it is possible these projects will proceed on separate timelines and in consideration of the scope for each requiring different sampling methodology the scope presented herein includes an individual task for each project location.

2. SCOPE OF SERVICES

Task 1 – LPC-663 CCDD Assessment and Documentation Culvert #1263

The following sub-tasks are included for the LPC-663 assessment and documentation.

Sub-Task A: Research and Listing Confirmation and Permit Coordination

GZA will obtain a database for the Culvert #1263 project location, and the database will be reviewed to identify potentially impacted properties (PIPs) that would indicate potential for contaminated soil at the project area. The database report includes a search of standard state and federal environmental record databases in accordance with the specifications of ASTM

- 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



standards. This information is utilized to determine if sites exist within close enough proximity to impact the project corridor and to identify the potential contaminants of concern that would require laboratory analysis to confirm or deny the presence of contaminants that may affect soil disposal considerations.

Since the work is proposed along the Robert McClory Bike Path, we have included labor (GZA and drilling subcontractor) to coordinate permit access and assumed temporary path closure to conduct the proposed soil borings, though since the work is being conducted for LCDOT, we assume that permit fees would be waived.

Sub-Task B: Soil Sampling

An initial site visit will be conducted for Culvert #1263 to mark boring locations for utility locates and to assess the project corridor. GZA proposes to conduct a total of up to four (4) soil borings, including two (2) on each the north and south sides of the existing culvert, from the Robert McClory Bike Path over Waukegan River to depths generally consistent with the proposed improvements, currently estimated to be approximately 20-feet below ground surface. Soil samples will be collected continuously to terminal depth and field assessed with a photo-ionization detector (PID) to aid in determining which samples to submit for laboratory analysis.

In addition, we propose collecting up to two (2) sediment samples from within Waukegan River.

Sub-Task C: Laboratory Analytical

A total of up to four (4) soil borings with up to two (2) samples from each boring and up to two (2) sediment samples for a total of up to ten (10) samples will be laboratory analyzed for the contaminants of concern (COCs) per IDOT District One protocol, which includes:

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

Sub-Task D: Prepare LPC-663 Form Documentation and CCDD Facility Coordination

The analytical results will be compared to the maximum allowable concentration (MAC) values, including the pH-range of 6.25 to 9.0 to be eligible for CCDD facility disposal consideration and will generate the LPC-663 form document inclusive of results that achieve the MAC values and citing results that are ineligible, if applicable. The LPC-Form deliverable will include a cover memo summarizing the research, sampling, and results. The LPC-663 Form will be signed by a GZA P.E or P.G. and supporting documentation including a narrative of the due diligence, sampling and analytical results, photo-log, database, figures, and other supporting documentation pertinent to the project.

Analytical results that do not achieve the MAC values (ineligible for CCDD disposal) will be cited as exclusion zones. Further, based on the results, we will provide recommendations regarding options for handling, reuse (if possible), and/or disposal at a Sanitary Landfill, if necessary. It should be noted that if Sanitary Landfill disposal is necessary, additional analytical parameters will be required to obtain a profile to dispose of material as non-special waste. Landfill disposal characterization costs are not included with this proposal and will require a supplement, if necessary, to complete.

Sub-Task E: CCDD Facility Coordination

Time under this task will be used to coordinate with various CCDD and/or uncontaminated soil fill operation (USFO) facilities that are pre-approved for receiving uncontaminated soil and/or CCDD from Client projects. GZA will submit LPC-Form documentation from this specific project to two (2) facilities, including Thelen Sand & Gravel and one (1) additional facility. The LPC-663 document will be submitted to CCDD facilities to request a review and to provide pre-authorization of acceptance letters for incorporation into the bidding specifications.



3. PROJECT COSTS AND SCHEDULE

We propose completing the identified scope of work on for a not to exceed cost included on the attached Cost Plus Fixed Fee worksheets (IDOT BLR 05514 format). GZA will begin within two (2) days of the notice to proceed with each task, and each task will require up to twelve (12) weeks to complete and provide the LPC-663 Form deliverables.

4. TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES

CONDITIONS OF ENGAGEMENT

The conditions of engagement are described in the attached Terms and Conditions for Professional Services. GZA'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 GZA. GZA 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 GZA. 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. / GZA, Inc.

Jeremy J. Reynolds, P.G.
Associate Principal

Attachments: Client Provided Information
Terms and Conditions
Proposed Costs and Schedule of Fees



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 **BRAVO COMPANY ENGINEERING**.

By: _____ Title: _____

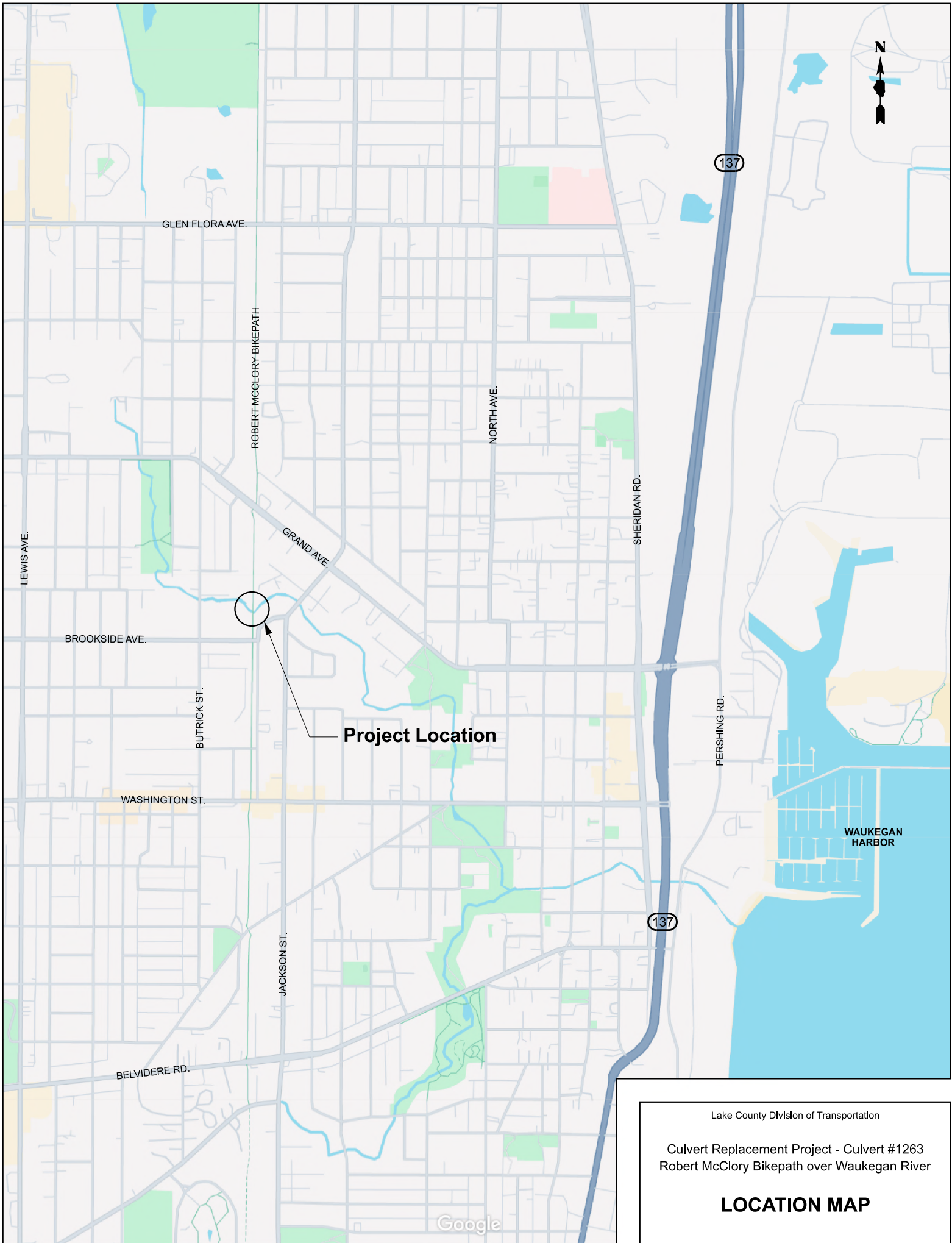
Printed/Typed Name: _____ Date: _____

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.



September 26, 2025
81.P002013.25 – Spoils Management Services – CCDD Documentation
LCDOT Culvert #1263 Replacement
City of Waukegan, Lake County, Illinois
ATTACHMENTS

ATTACHMENT 1
CLIENT PROVIDED PROJECT INFORMATION



Lake County Division of Transportation

Culvert Replacement Project - Culvert #1263
Robert McClory Bikepath over Waukegan River

LOCATION MAP



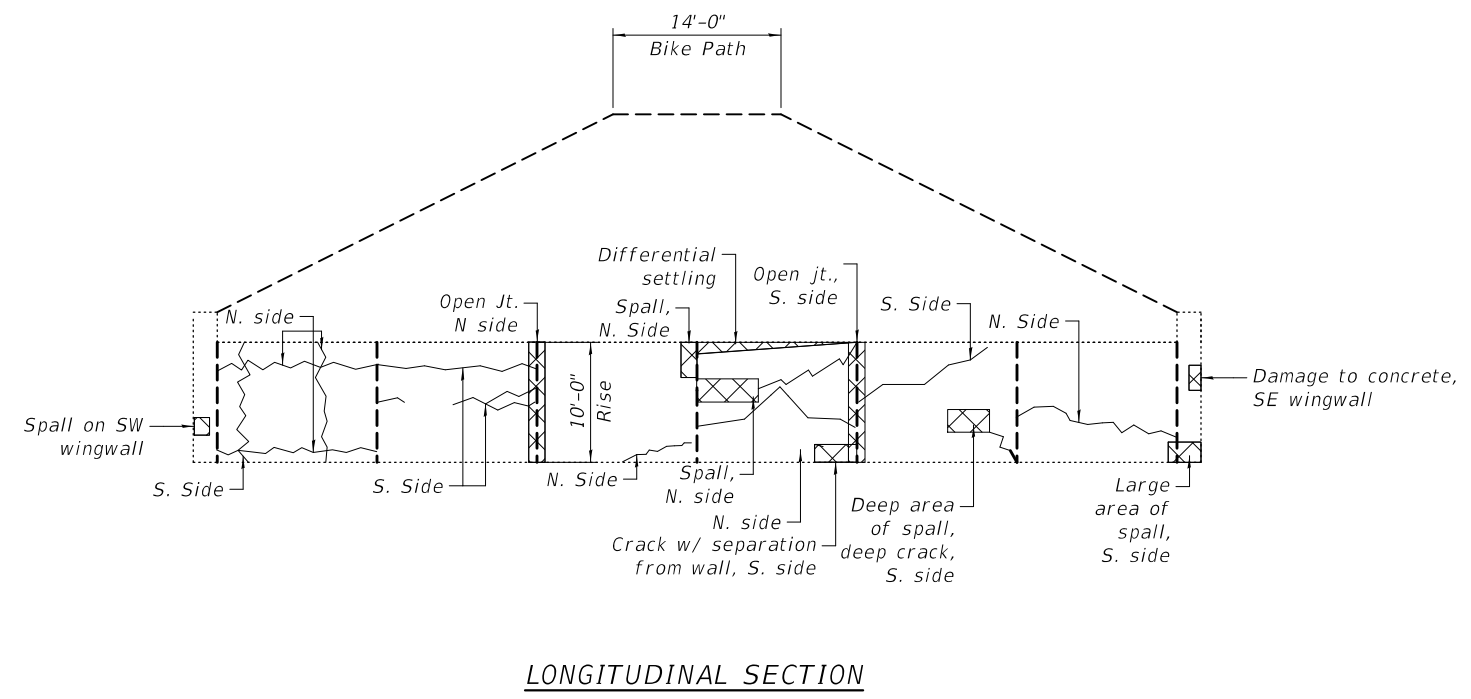
Photograph 1- West Elevation (Looking East at Headwall)



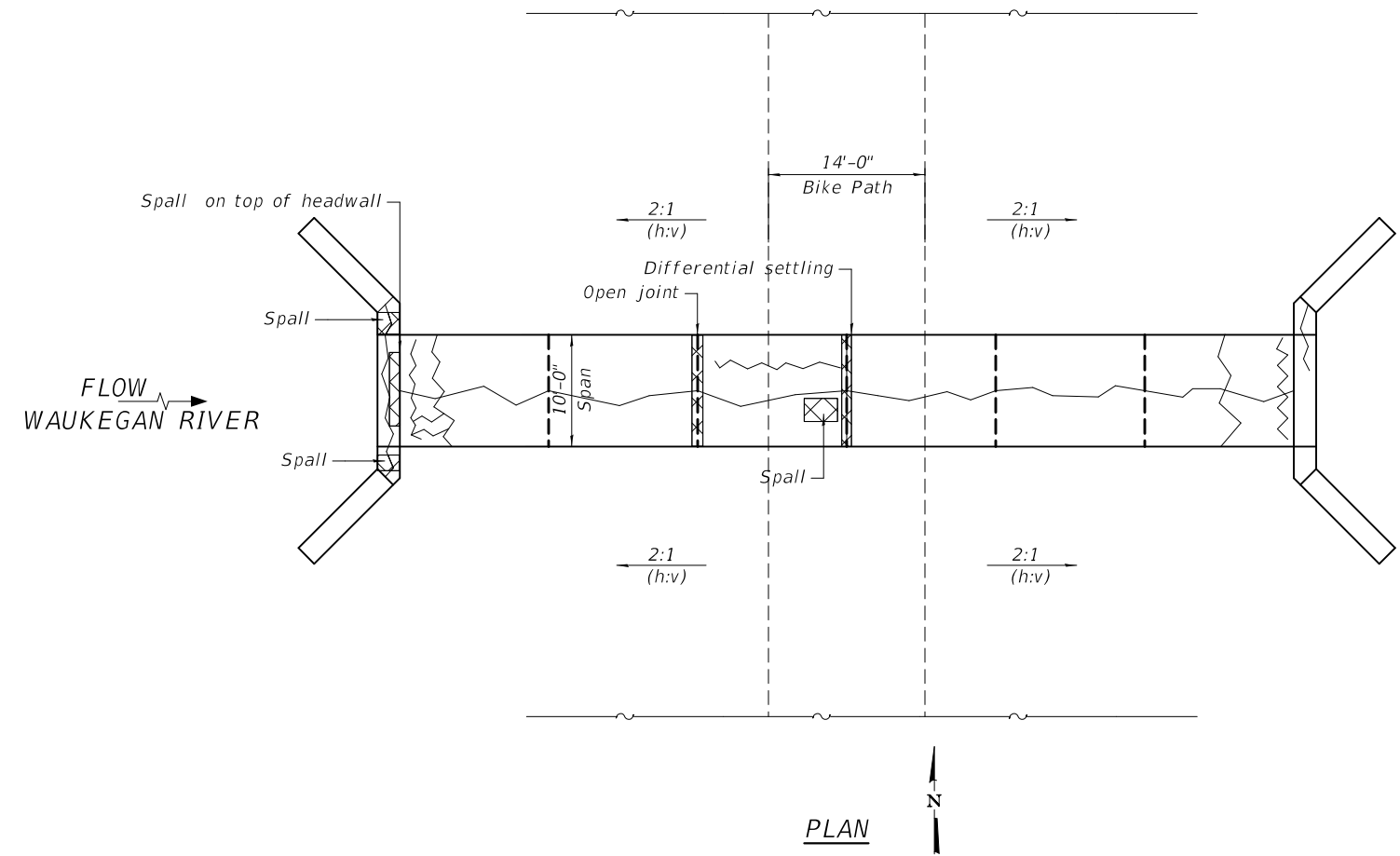
Photograph 2- West Elevation, Scour at Drainage structure



Photograph 25 - Downstream



LONGITUDINAL SECTION



PLAN

LEGEND

- Cracking with Efflorescence
-

**GENERAL PLAN & LONGITUDINAL SECTION
ROBERT MCCLORY BIKE PATH
OVER WAUKEGAN RIVER
CULVERT 1263
LAKE COUNTY**

MODEL: Default
FILE NAME: V:\Bravo\W25085.00 Lake Co. Culvert Inspections\CADD\SS10_04_Structural\03_Sheet\Culvert 1263\W25085_Ex_Culvert_1263.dgn

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

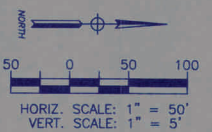
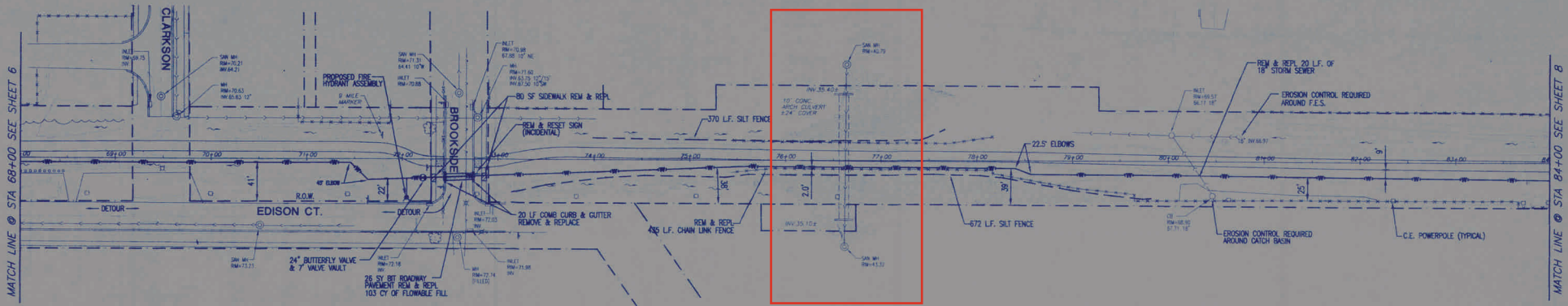
**LAKE COUNTY
DIVISION OF TRANSPORTATION**

**EXISTING CONCRETE ARCH PIPE CULVERT
CULVERT 1263**

SHEET C1 OF C1 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE		
CONTRACT NO.				

ILLINOIS FED. AID PROJECT



NORTH SHORE PATH



NOTE: DIMENSIONS SHOWN ARE NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY:	JIB	5/22/98
DRAWN BY:	AUT/DWT	6/13/98
CHECKED BY:	CH/JIB	6/31/98
APPROVED BY:	JIB	5/10/98
ACTIVITY	INITIALS	DATE

1	10/18/98	GENERAL REVISIONS
2	10/27/98	PER CITY OF WAUKEGAN
3	11/18/98	L.C.D.O.T. COMMENTS

Clark Dietz
ENGINEERING ARCHITECTURE

CHAMPAIGN, ILLINOIS
CHICAGO, ILLINOIS
EVANSVILLE, INDIANA
INDIANAPOLIS, INDIANA
KENOSHA, WISCONSIN

PLAN & PROFILE
STA: 68+00 TO STA: 84+00

NORTH SHORE PATH WATER TRANSMISSION MAIN
CITY OF WAUKEGAN
LAKE COUNTY, IL.

W07030
SHEET NO.
7

P:\101200\1068.dwg, Plot No: 18, 10, 21, 9898



September 26, 2025
81.P002013.25 – Spoils Management Services – CCDD Documentation
LCDOT Culvert #1263 Replacement
City of Waukegan, Lake County, Illinois
ATTACHMENTS

ATTACHMENT 2 TERMS AND CONDITIONS



TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES

© 2025 by GZA GeoEnvironmental, Inc.

These Terms and Conditions, together with GZA's Proposal, make up the Agreement between GZA and You, the Client, named in the Proposal. If the attached GZA Proposal is styled as a Master Services Agreement, then these Terms and Conditions will apply to any and all Services ordered by you and performed by GZA.

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

- 1) **Services.** GZA 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 GZA's costs will be the subject of a negotiated amendment or change order. All Services performed by GZA will be governed by this Agreement, even if performed prior to your execution of the Proposal.
- 2) **Term.** If the attached GZA proposal is styled as a Master Services Agreement, then the term of this Agreement will begin on the date of execution of the proposal (the "Effective Date"), and either party may terminate this Agreement for convenience upon thirty (30) days' written notice, provided that GZA will be paid for all services performed through the date of termination.
- 3) **Standard of Care; Warranties.**
 - a) GZA 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. GZA's sole responsibility with regard to Services which do not meet the foregoing standard of care is to reperform such Services, at GZA's expense, but only if you provide GZA written notice of such non-conformity within ninety (90) days after completion of the Services.
 - b) **NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTY OF MARKETABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS MADE OR INTENDED BY GZA'S PROPOSAL OR BY ANY OF GZA'S REPORTS OR OTHER CONDUCT.**
 - c) GZA 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.
- 4) **Payment.**
 - a) Except as otherwise stated in the Proposal, you will compensate GZA 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 GZA's Proposal shall be due prior to the start of Services and will be applied to the final invoice for Services.
 - c) GZA will submit invoices periodically, and payment will be due within 20 days from invoice date. You will notify GZA in writing of any invoice disputes within 10 days of the invoice date, and if no written notice of dispute is received, the invoice will be deemed approved in full. Overdue payments will bear interest at 1½ percent per month or, if lower, the maximum lawful rate. GZA 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 GZA'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). Any amounts paid by you to GZA will be applied first to interest and costs incurred by GZA, and then to the principal balance.
- 5) **Your Responsibilities.**
 - a) If the Services involve entry onto a third-party property or otherwise require access to property you do not own or control, you will secure the access agreements, approvals, permits, licenses and consents necessary for performance of the Services, without GZA becoming a party to or otherwise being required to sign any such agreements, approvals, permits, licenses and consents. If you are the owner or operator of the Site, you will provide GZA 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 GZA. GZA is entitled to rely on the accuracy and completeness of documents and information you provide. You acknowledge that the quality of the Services provided by GZA is directly related to the accuracy and completeness of the information and data that you furnish to GZA.
 - 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 contractor or construction manager provisions obligating the latter:
 - i) to defend, indemnify and hold harmless, to the fullest extent permitted by law, GZA, its affiliates and subsidiaries, and each of their officers, directors, members, partners, agents, insurers, employees, and subconsultants (the "GZA Indemnitees") and you, 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, the construction manager, or any of their subcontractors or any engineer engaged by them;
 - ii) to name you and GZA as additional insureds under general liability and builder's risk insurance coverages maintained by the contractor or construction manager, or any of their 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 their 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 contractor or construction manager, you shall promptly (but in any event prior to the commencement of the Services) notify GZA and GZA shall have the opportunity to negotiate with you reasonable substitute risk allocation and insurance indemnities and protections. Failure to provide such notice will be a material breach of this Agreement.
 - d) To the extent you are entitled to indemnification (either contractual or at common law) or are otherwise indemnified by the contractor or construction manager and/or their subcontractors, you agree to waive any claim (including without limitation indemnification or insurance claims) against GZA.
- 6) **Right of Entry; Site Restoration.** You grant GZA 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 GZA to enter the Site and perform the Services; you will provide reasonable verification on request; and you will indemnify the GZA Indemnitees for any claims by the Site owner related to alleged trespass by GZA or its subcontractors. Although GZA 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 GZA for any restoration it is asked to perform, unless otherwise indicated in the Proposal.

- 7) **Underground Facilities.** GZA'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 GZA with respect to personal injury and property damages due to GZA's interference with subterranean structures including but not limited to utilities, conduits, pipes, and tanks:
- that are not correctly shown on any plans and information you or governmental authorities provide to GZA; or
 - that are not correctly marked by the appropriate utility.
- 8) **Reliance.** The services, information, and other data furnished by you shall be at your expense, and GZA 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 GZA is directly related to the accuracy and completeness of the information and data that you furnish to GZA. **GZA'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 GZA. YOU SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS THE GZA 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 GZA AND SUCH LIMITED LICENSE TO YOU SHALL NOT CREATE ANY RIGHTS IN THIRD PARTIES.** However, in GZA's sole discretion, which may be withheld for any reason whatsoever, if you request that GZA extend reliance to a third party, then such reliance will be conditioned upon the third party's acceptance of such reliance on GZA's standard reliance terms and you will be obligated to pay GZA a reliance fee calculated as 10% of GZA's original fee for the report upon which reliance is being extended.
- 9) **Lab Tests and Samples.** GZA is entitled to rely on the results of laboratory tests using generally accepted methodologies. GZA 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 GZA for storage and/or shipping beyond 30 days.
- 10) **GZA Professionals.** GZA 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 "GZA 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 GZA or other contractor/consultant(s), which audit may require additional Services, even though GZA and such GZA Professionals have each performed such Services in accordance with the standard of care set forth herein. You agree to compensate GZA 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.
- 11) **Hazardous Materials; GZA "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. GZA 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. GZA will not have responsibility for or control of the Site or of operations or activities at the Site other than its own. GZA 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 GZA Indemnitees harmless for any costs or liability incurred by GZA in defense of or in payment for any legal actions in which it is alleged that GZA is the owner, generator, treater, storer or disposer of any Wastes.
- 12) **Limits on GZA's Responsibility.** GZA will not be responsible for the acts or omissions of contractors or others at the Site, except for its own subcontractors and employees. GZA will not supervise, direct or assume control over or the authority to stop any contractor's work, nor shall GZA's professional activities nor the presence of GZA or its employees and subcontractors be construed to imply that GZA 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 GZA 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.
- 13) **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 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, GZA will notify you and the parties will negotiate appropriate changes to the scope of Services, compensation and schedule.
 - If no agreement can be reached, GZA will be entitled to terminate the Services and to be equitably compensated for the Services already performed. GZA 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 GZA's reasonable control, and you will compensate GZA for any resulting increase in its costs.
- 14) **Documents and Information.** All documents, data, calculations and work papers prepared or furnished by GZA are instruments of service and will remain GZA's property. Designs, reports, data and other work product delivered to you are for your use only, for the limited purposes disclosed to GZA. 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 GZA. Any technology, methodology or technical information learned or developed by GZA will remain its property. Provided GZA is not in default under this Agreement, GZA's designs will not be used to complete this project by others, except by written agreement relating to use, liability and compensation.
- 15) **Electronic Media.** In accepting and utilizing any drawings, reports and data on any form of electronic media generated by GZA, you covenant and agree that all such electronic files are instruments of service of GZA, 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 GZA 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 GZA will be at the user's sole risk and without any liability to GZA.
- 16) **Confidentiality; Subpoenas.** Information about this Agreement and GZA's Services and information you provide to GZA 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 GZA 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. GZA 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 GZA 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 (including, without limitation, for outside counsel expenses incurred by GZA and/or 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). Notwithstanding the foregoing, GZA shall be entitled to use your name and a general description of the Services in promotional materials.

- 17) Insurance.** During performance of the Services, GZA will maintain workers' compensation, commercial general liability, automobile liability, and professional liability/contractor's pollution liability insurance. GZA will furnish you certificates of such insurance on request.
- 18) Indemnification.** You agree to hold harmless, indemnify, and defend the GZA 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 GZA's negligence or willful misconduct. The duty to defend will be triggered upon a claim, suit, fine and/or penalty being alleged or threatened, and will only terminate when and to the extent GZA's proportion of negligence is finally adjudicated by a court of competent jurisdiction. If the foregoing indemnification is determined to be void or unenforceable as a matter of law, then it shall be automatically reformed to apply the original intent of the clause to the maximum extent permissible by law.
- 19) Limitation of Remedies.**
- a) To the fullest extent permitted by law and notwithstanding anything else in this Agreement to the contrary, the aggregate liability of GZA and its affiliates, parents and subsidiaries and subcontractors and each of their employees, insurers, principals, officers, directors, partners and agents (collectively referred to in this paragraph as "GZA") for all claims (arising in tort, by contract or otherwise, and specifically including any indemnification or contribution obligation owed by GZA, arising under contract or at common law, if any) arising out of this Agreement or in any way related to GZA's Services is limited to \$50,000 or, if greater, 10% of the compensation received by GZA under this Agreement.
 - b) 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.
 - c) Any claim (as described in 19(a)) against GZA related in any way to the Services provided pursuant to this Proposal, or the terms herein, is waived unless suit is commenced in a proper jurisdiction within one year of substantial completion of GZA's Services. This waiver may not be construed to extend any applicable statute of limitations.
 - d) GZA will not be liable for lost profits, loss of use of property, delays, contractual penalties or other special, indirect, incidental, consequential, punitive, exemplary, liquidated, or multiple damages. This includes but is not limited to fines and/or penalties and/or sanctions imposed by any local, state, or federal government, agency, or regulatory body.
 - e) GZA will not be liable to you or the Site owner for injuries or deaths suffered by GZA's or its subcontractors' employees.
 - f) You will look solely to GZA 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 GZA principal, officer, employee or agent. To the extent damages are covered by property insurance or any other insurance, both you and GZA 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. You or GZA, 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.
- 20) Disputes.**
- a) Subject to the provisions of 20(d) below, all disputes between you and GZA shall be subject to non-binding mediation.
 - b) 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.
 - c) 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.
 - d) No action or suit may be commenced unless mediation has occurred but did not resolve the dispute, or unless a statute of limitations period or the one-year waiver period described in 19(c) above 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 GZA sends you a final demand letter for payment, your failure to remit payment in full (including interest, costs, attorneys fees and all other charges permitted by Section 4(c)) 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 or the letter is otherwise undeliverable to your address of record with GZA or with the Secretary of State in the jurisdiction where you are organized) of such letter will be deemed to be a waiver of your right to enforce this mediation clause and GZA may immediately file suit to enforce the terms of this Agreement.
 - e) In the event GZA commences litigation to recover payment of an unpaid invoice, you shall not be permitted to interpose any counterclaim. Any claim against GZA which remains viable under the terms of this Agreement must instead be brought in a separate action against GZA, subject to the terms of this Agreement, including, without limitation, the pre-suit certification requirement contained in Section 20(g).
 - f) You agree to pay reasonable attorneys' fees and all other costs and expenses (including, but not limited to reasonable investigative expenses and expert and consultant expenses) which may be incurred by GZA in the enforcement of this Agreement in the event that (a) it is finally adjudicated by a court of competent jurisdiction that you have breached this Agreement; or (b) where you allege that GZA has breached this Agreement or otherwise acted negligently and it is finally adjudicated by a court of competent jurisdiction that GZA did not in fact breach this Agreement or act negligently. If for any reason it is adjudicated that the foregoing provision is in violation of applicable law, is subject to a state statute automatically converting this clause to be reciprocal between the parties, is contrary to public policy or is unconscionable or a contract of adhesion, then the foregoing clause will be null and void and of no effect. Under no circumstances shall the foregoing clause be replaced with a reciprocal clause.
 - g) You shall make no claim against GZA for professional negligent acts, errors, omissions and/or alleged breach of contract either directly, indirectly, as a counterclaim or crossclaim, or in a third party claim, unless you have first provided GZA with a written certification executed by an independent professional practicing in the same discipline as GZA and licensed in the jurisdiction in which GZA provided you its Services. This certification must (i) identify the name and license of the certifier, (ii) specify each and every act or omission that the certifier contends is a violation of the standard of care expected of professional performing professional services under similar circumstances; and (iii) state in complete detail the basis for certifier's opinion that each such act or omission constitutes a violation of the standard of care. This certificate must be provided to GZA no less than thirty (30) days prior to the submission of a formal claim.

- h) With regard to Sections 5, 6, 8, 19 and 20 of this Agreement, the terms "claim", "any claim" and "all claims" shall be defined as broadly as legally possible, including without limitation any and all claims arising in contract (including indemnification obligations owed by GZA, if any), tort or by any other legal theory or argument.
- 21) Miscellaneous.**
- a) This Agreement and all claims relating thereto shall be governed by the substantive and procedural laws of the Commonwealth of Massachusetts, as they presently exist or may hereafter be amended, without regard to principles of conflict of laws.
 - b) 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 reason.
 - c) 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 GZA unless specifically approved in writing by a principal of GZA.
 - d) 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.
 - e) This Agreement supersedes any contract terms, purchase orders or other documents issued by you, even if signed by an authorized representative of GZA.
 - f) Neither party may assign or transfer this Agreement or any rights or duties hereunder without the written consent of the other party.
 - g) 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 GZA under this agreement.
 - h) These Terms and Conditions shall govern over any inconsistent terms in GZA's Proposal.
 - i) Any provision of this Agreement later held to be unenforceable for any reason shall be deemed void, and all remaining provisions shall continue in full force and effect on the parties, who agree that the Agreement shall be reformed to replace such voided provision with a valid and enforceable provision that comes as close as possible to expressing the intention of the voided provision.
 - j) 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.
 - k) Any reports generated by GZA will be subject to GZA's standard report limitations for that particular type of report.
 - l) To the extent applicable to GZA's Services, you acknowledge and agree that GZA cannot anticipate the effects of climate change/extreme weather on any report, design or other document produced by GZA, unless such analysis is specifically within the scope of GZA's Services.
 - m) You agree that during the performance of GZA's Services and for a period of twelve (12) months completion of those Services, you will not encourage, induce, or otherwise solicit, or actively assist any other person or organization to encourage, induce or otherwise solicit, directly or indirectly, any employee of the GZA or any of its affiliates to terminate their employment with GZA or any of its affiliates, or otherwise interfere with the advantageous business relationship of GZA or any of its affiliates with their employees. You agree that if you violate this non-solicitation provision, you will pay GZA liquidated damages in an amount equal to the total earnings of the solicited employee during the last twelve (12) months of their employment with GZA.
 - n) This Agreement does not create any third-party beneficiaries and is intended for the benefit of the parties hereto and their respective successors and permitted assigns, and is not for the benefit of, nor may any provision hereof be enforced by, anyone else.
- 22) 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.
- a) 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. GZA therefore cannot guarantee specific results such as the identification or removal of all asbestos or other contamination.
- 23) 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. 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.
- 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 which grow 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 GZA has neither control or responsibility, GZA 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. GZA therefore cannot guarantee 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 GZA's efforts, some Microbial locations may remain undetected. In such situations, you agree that you will have no claim against GZA provided GZA followed the applicable standard of care and all applicable laws and regulations pertaining to the Work.
 - d) You further agree that when GZA performs Services intended to minimize the risk of Microbial infestations, GZA 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. You agree to waive any Microbial infestation claim(s) against GZA and you agree to indemnify, defend and hold the GZA Indemnitees harmless from any claim alleging that GZA's Services caused or aggravated a Microbial infestation or did not prevent a Microbial infestation from recurring.



September 26, 2025
81.P002013.25 – Spoils Management Services – CCDD Documentation
LCDOT Culvert #1263 Replacement
City of Waukegan, Lake County, Illinois
ATTACHMENTS

ATTACHMENT 3
SUPPORTING COST SHEETS



Local Public Agency Lake County Division of Transportation	County Lake	Section Number
Prime Consultant (Firm) Name Bravo Company Engineering	Prepared By JJR	Date 9/26/2025
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

Culvert #1263 Replacement

PAYROLL ESCALATION TABLE

CONTRACT TERM	18	MONTHS		OVERHEAD RATE	184.39%
START DATE	11/1/2025			COMPLEXITY FACTOR	0
RAISE DATE	3/1/2026			% OF RAISE	3.00%
END DATE	4/30/2027				

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	11/1/2025	3/1/2026	4	22.22%
1	3/2/2026	3/1/2027	12	68.67%

The total escalation = 2.68%

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	
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	90.00
ESCALATION FACTOR	2.68%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal	\$90.00	\$90.00
Associate Principal II	\$78.91	\$81.02
Associate Principal I	\$72.41	\$74.35
Senior Consultant II	\$70.00	\$71.87
Senior Consultant I	\$64.97	\$66.71
Senior Project Manager III	\$75.84	\$77.87
Senior Project Manager II	\$63.84	\$65.55
Senior Project Manager I	\$59.95	\$61.55
Senior Landscape Architect	\$63.40	\$65.10
Senior Planning PM	\$61.44	\$63.08
Senior Technical Specialist II	\$63.69	\$65.39
Scientist PM II	\$54.41	\$55.87
Scientist PM I	\$47.56	\$48.83
Assistant PM Scientist	\$39.04	\$40.08
Environmental Engineer PM II	\$52.00	\$53.39
Environmental Engineer PM I	\$48.90	\$50.21
Geotechnical Engineer PM I	\$52.74	\$54.15
Assistant PM Engineer I	\$41.12	\$42.22
Engineer I	\$37.27	\$38.27
Engineer II	\$32.70	\$33.58
Scientist SI	\$35.30	\$36.24
Scientist SII	\$31.77	\$32.62
Technical Graphics Technician	\$29.42	\$30.21
Architectural Historian	\$44.36	\$45.55
Administrative Executive	\$54.99	\$56.46
Administrative Manager	\$46.97	\$48.23
Senior Administrative Assistant	\$37.90	\$38.91

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

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	236	\$0.70	\$165.20
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	4	\$3.40	\$13.60
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)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost			\$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)	10	\$740.00	\$7,400.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Photoionization Detector (PID)	Daily Rate	1	\$110.00	\$110.00
Field Kit	Daily Rate	1	\$35.00	\$35.00
Record Search E4 Package	Actual Cost	1	\$285.00	\$285.00
Driller (#1263) w/permit	Actual Cost - estimated	1	\$7,000.00	\$7,000.00
TOTAL DIRECT COSTS:				\$15,008.80

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number**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
LPC-663 Culvert #1263	15,009	61	2,451	4,519	809	0	7,779	34.14%
Subconsultant DL							\$0.00	
Direct Costs Total ==>	\$15,008.80						\$15,008.80	65.86%
TOTALS		61	2,451	4,519	809	-	22,788	100.00%

6,970

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

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			LPC-663 Culvert #1263														
		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	90.00	0.0																	
Associate Principal II	81.02	3.0	4.92%	3.98	3	4.92%	3.98												
Associate Principal I	74.35	0.0																	
Senior Consultant II	71.87	3.0	4.92%	3.53	3	4.92%	3.53												
Senior Consultant I	66.71	0.0																	
Senior Project Manager III	77.87	0.0																	
Senior Project Manager II	65.55	0.0																	
Senior Project Manager I	61.55	0.5	0.82%	0.50	0.5	0.82%	0.50												
Senior Landscape Architect	65.10	0.0																	
Senior Planning PM	63.08	0.0																	
Senior Technical Specialist II	65.39	0.0																	
Scientist PM II	55.87	0.0																	
Scientist PM I	48.83	0.0																	
Assistant PM Scientist	40.08	16.0	26.23%	10.51	16	26.23%	10.51												
Environmental Engineer PM II	53.39	0.0																	
Environmental Engineer PM I	50.21	3.0	4.92%	2.47	3	4.92%	2.47												
Geotechnical Engineer PM I	54.15	0.0																	
Assistant PM Engineer I	42.22	0.0																	
Engineer I	38.27	0.0																	
Engineer II	33.58	16.0	26.23%	8.81	16	26.23%	8.81												
Scientist SI	36.24	0.0																	
Scientist SII	32.62	16.0	26.23%	8.56	16	26.23%	8.56												
Technical Graphics Technician	30.21	3.0	4.92%	1.49	3	4.92%	1.49												
Architectural Historian	45.55	0.0																	
Administrative Executive	56.46	0.0																	
Administrative Manager	48.23	0.0																	
Senior Administrative Assistant	38.91	0.5	0.82%	0.32	0.5	0.82%	0.32												
TOTALS		61.0	100%	\$40.17	61.0	100.00%	\$40.17	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: Bravo LCDOT Culvert 1263

							<u>DIRECT</u>
Task 1 - LPC-663 Culvert #1263							
Trips	118 miles	x	2	x	\$ 0.700	= \$	165.20
Tolls			4	x	\$ 3.40	= \$	13.60
IDOT Lab Sample Protocol						\$	-
VOC w/5035 kit	1 ea	x	10	x	\$ 100.00	= \$	1,000.00
SVOC	1 ea	x	10	x	\$ 155.00	= \$	1,550.00
TAL Total Metals	1 ea	x	10	x	\$ 162.00	= \$	1,620.00
SPLP Metals	1 ea	x	10	x	\$ 161.50	= \$	1,615.00
TCLP Metals	1 ea	x	10	x	\$ 161.50	= \$	1,615.00
pH	1 ea	x	10	x	\$ -	= \$	-
<i>\$/IDOT Sample</i>			1	=	\$ 740.00		
PID	1 day	x	1	x	\$ 110.00	= \$	110.00
Driller w/permit	1 day	x	1	x	\$ 7,000.00	= \$	7,000.00
Field Kit	1 day	x	1	x	\$ 35.00	= \$	35.00
Database Package	1 ea	x	1	x	\$ 285.00	= \$	285.00
Task Total							\$ 15,008.80

GRAND TOTAL \$ 15,008.80



A Subsidiary of GZA



September 26, 2025

Trent Bruns, P.E.
Project Engineer
Bravo Company Engineering
550 Warrenville Road, Suite 220
Lisle, Illinois 60532

Via Email: tbruns@bravocoeng.com

**Re: CCDD Spoils Management Assistance
Culvert #2002 Replacement Project
Village of Buffalo Grove, Lake County, Illinois
Proposal No.: 81.P002016.26**

Dear Mr. Bruns:

Huff & Huff, Inc., a subsidiary of GZA, Inc. (GZA) is pleased to submit this proposal to Bravo Company Engineering (Client or Bravo) to perform soil management services for documentation of final disposition at Clean Construction and Demolition Debris (CCDD) facilities. This proposal presents our project approach, the scope of services, cost, and schedule for completing the project.

1. INTRODUCTION

Client has provided reference documents which shall serve as the basis of our understanding to prepare this scope and fee. The reference documents include project location, site photos, and historical plan excerpts and we understand Lake County Division of Transportation (LCDOT) is proposing full removal and replacement of Culvert #2002 – Deerfield Parkway over Aptakisic Creek [11-foot corrugated metal pipe (CMP), approximately 133-feet in length).

We anticipate that excavation and off-site final disposition of spoils, including soil and sediment, is anticipated to accommodate these improvements. Since this involves a culvert and sediments that include roadway runoff, we anticipate this project requiring the LPC-663 Form approach with sampling for potential contaminants of concern, regardless of if adjacent sites are identified as potentially impacted properties (PIPs).

Additionally, since it is possible these projects will proceed on separate timelines and in consideration of the scope for each requiring different sampling methodology the scope presented herein includes an individual task for each project location.

2. SCOPE OF SERVICES

Task 1 – LPC-663 CCDD Assessment and Documentation Culvert #2002

The following sub-tasks are included for the LPC-663 assessment and documentation.

Sub-Task A: Research and Listing Confirmation and Permit Coordination

GZA will obtain a database for the Culvert #2002 project location, and the database will be reviewed to identify potentially impacted properties (PIPs) that would indicate potential for contaminated soil at the project area. The database report includes a search of standard state

- 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



and federal environmental record databases in accordance with the specifications of ASTM standards. This information is utilized to determine if sites exist within close enough proximity to impact the project corridor and to identify the potential contaminants of concern that would require laboratory analysis to confirm or deny the presence of contaminants that may affect soil disposal considerations.

Sub-Task B: Soil Sampling

An initial site visit will be conducted for Culvert #2002 to mark boring locations for utility locates and to assess the project corridor. GZA proposes to conduct a total of up to four (4) soil borings, including two (2) on each the north and south sides of Deerfield Parkway / east and west sides of the existing culvert to depths generally consistent with the proposed improvements, currently estimated to be approximately 8-feet below ground surface. Soil samples will be collected continuously to depths of up to 8 feet deep (or to depths achievable with hand auger method based on field conditions) and field assessed with a photo-ionization detector (PID) to aid in determining which samples to submit for laboratory analysis. In addition, we propose collecting up to two (2) sediment samples from within the waterway.

Sub-Task C: Laboratory Analytical

A total of up to four (4) soil borings with one (1) sample from each boring and up to two (2) sediment samples for a total of up to six (6) samples will be laboratory analyzed for the contaminants of concern (COCs) per IDOT District One protocol, which includes:

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

Sub-Task D: Prepare LPC-663 Form Documentation and CCDD Facility Coordination

The analytical results will be compared to the maximum allowable concentration (MAC) values, including the pH-range of 6.25 to 9.0 to be eligible for CCDD facility disposal consideration and will generate the LPC-663 form document inclusive of results that achieve the MAC values and citing results that are ineligible, if applicable. The LPC-Form deliverable will include a cover memo summarizing the research, sampling, and results. The LPC-663 Form will be signed by a GZA P.E or P.G. and supporting documentation including a narrative of the due diligence, sampling and analytical results, photo-log, database, figures, and other supporting documentation pertinent to the project.

Analytical results that do not achieve the MAC values (ineligible for CCDD disposal) will be cited as exclusion zones. Further, based on the results, we will provide recommendations regarding options for handling, reuse (if possible), and/or disposal at a Sanitary Landfill, if necessary. It should be noted that if Sanitary Landfill disposal is necessary, additional analytical parameters will be required to obtain a profile to dispose of material as non-special waste. Landfill disposal characterization costs are not included with this proposal and will require a supplement, if necessary, to complete.

Sub-Task E: CCDD Facility Coordination

Time under this task will be used to coordinate with various CCDD and/or uncontaminated soil fill operation (USFO) facilities that are pre-approved for receiving uncontaminated soil and/or CCDD from Client projects. GZA will submit LPC-Form documentation from this specific project to two (2) facilities, including Thelen Sand & Gravel and one (1) additional facility. The LPC-663 document will be submitted to CCDD facilities to request a review and to provide pre-authorization of acceptance letters for incorporation into the bidding specifications.



3. PROJECT COSTS AND SCHEDULE

We propose completing the identified scope of work on for a not to exceed cost included on the attached Cost Plus Fixed Fee worksheets (IDOT BLR 05514 format). GZA will begin within two (2) days of the notice to proceed with each task, and each task will require up to twelve (12) weeks to complete and provide the LPC-663 Form deliverables.

4. TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES

CONDITIONS OF ENGAGEMENT

The conditions of engagement are described in the attached Terms and Conditions for Professional Services. GZA'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 GZA. GZA 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 GZA. 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. / GZA, Inc.

Jeremy J. Reynolds, P.G.
Associate Principal

Attachments: Client Provided Information
Terms and Conditions
Proposed Costs and Schedule of Fees



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 **BRAVO COMPANY ENGINEERING**.

By: _____ Title: _____

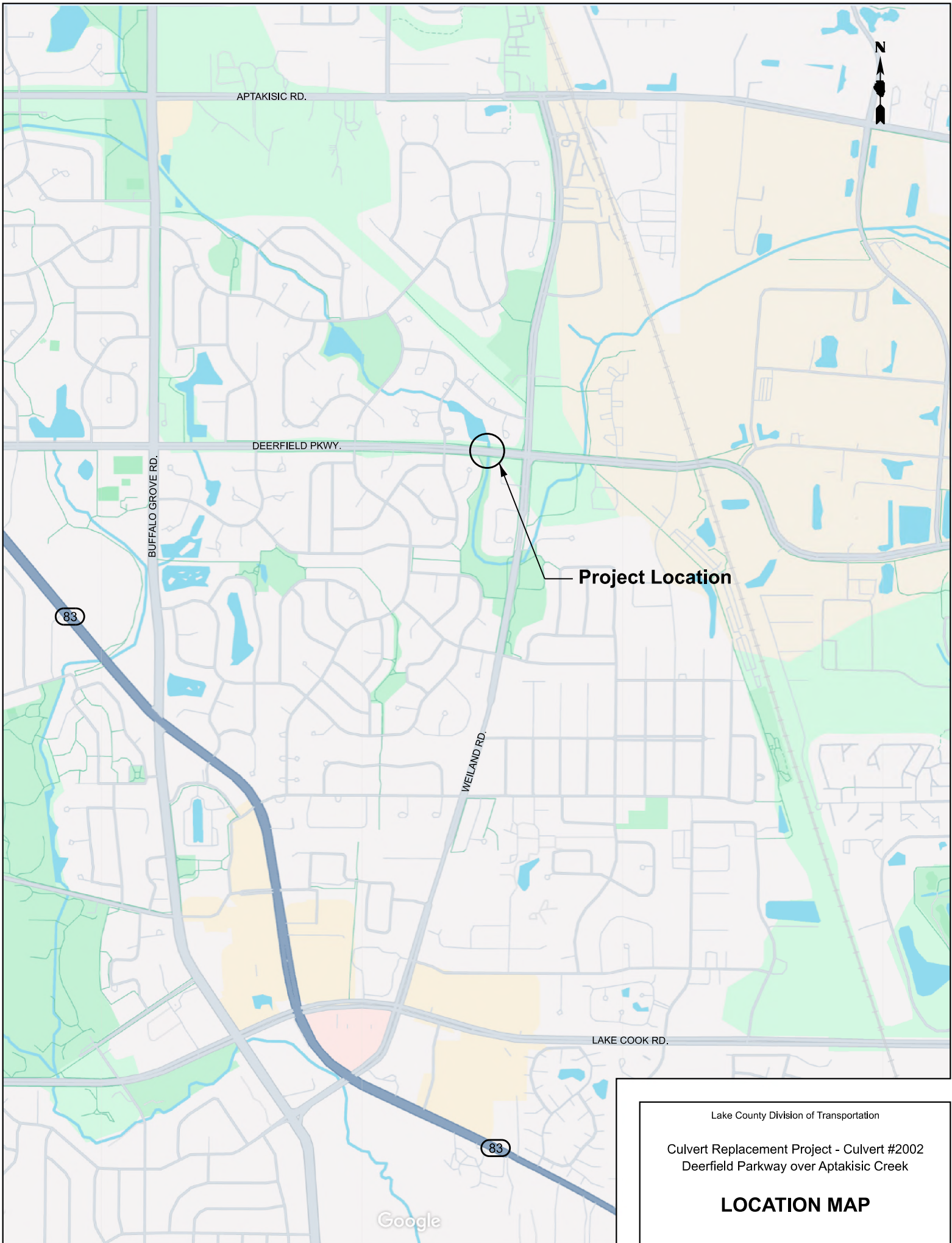
Printed/Typed Name: _____ Date: _____

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.



September 26, 2025
81.P002013.25 – Spoils Management Services – CCDD Documentation
LCDOT Culvert #2002 Replacement
Village of Buffalo Grove, Lake County, Illinois
ATTACHMENTS

ATTACHMENT 1
CLIENT PROVIDED PROJECT INFORMATION



Lake County Division of Transportation

Culvert Replacement Project - Culvert #2002
Deerfield Parkway over Aptakisic Creek

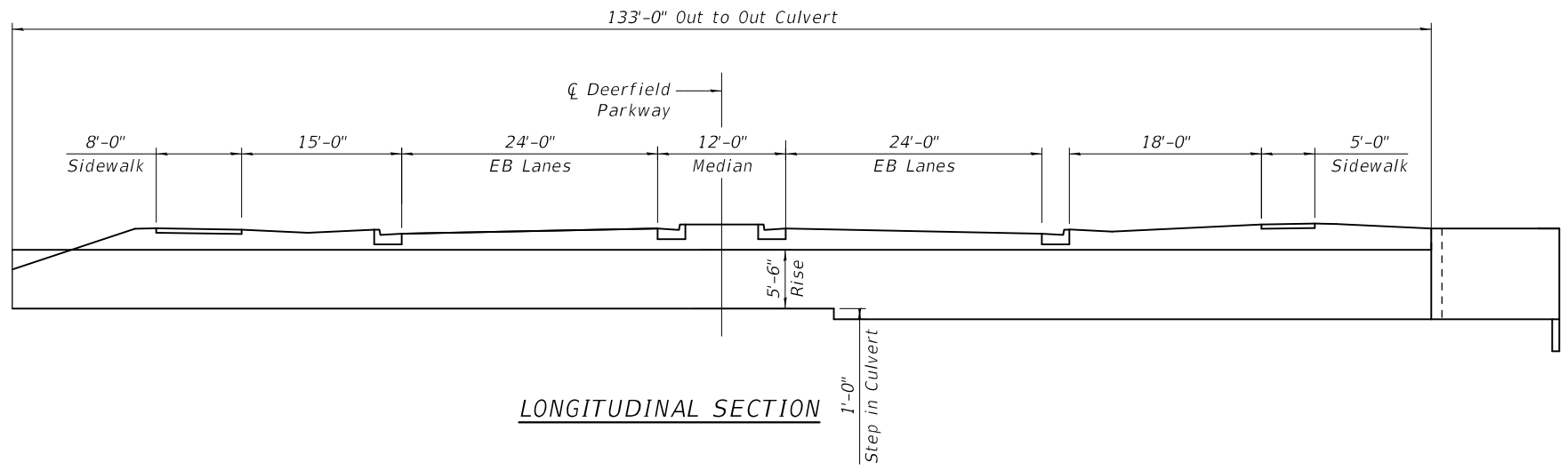
LOCATION MAP



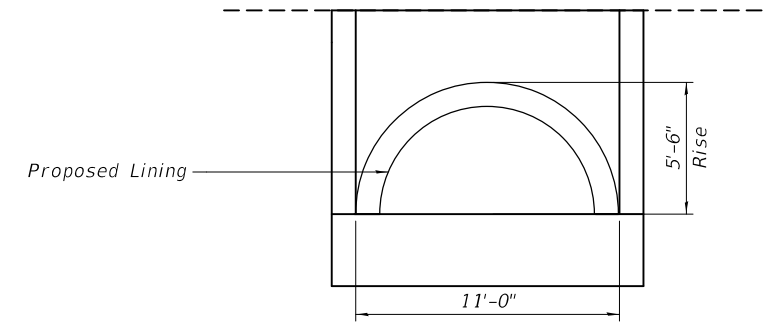
Photograph 1–Downstream End Section (Looking Upstream)



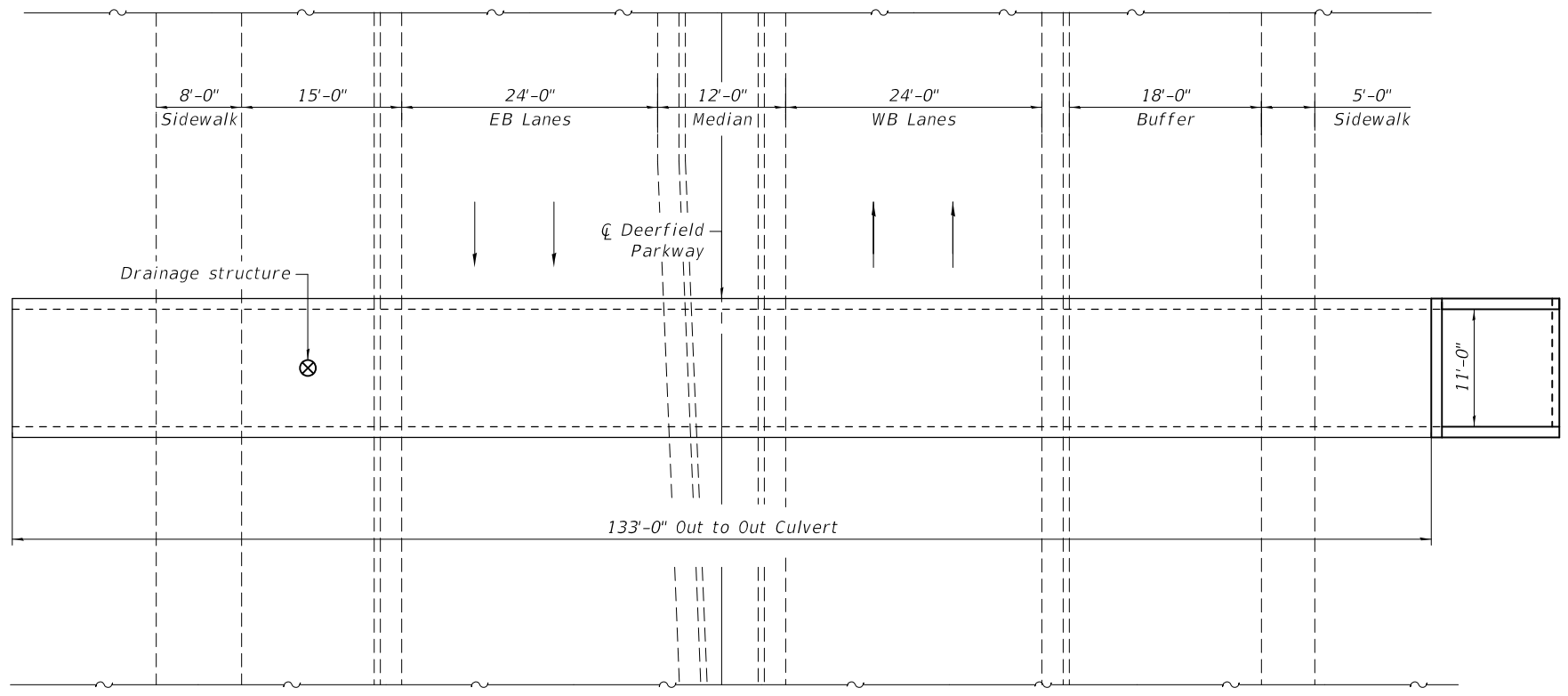
Photograph 2–Looking over Culvert (dip in Sidewalk)



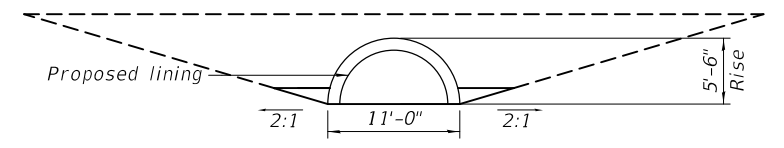
LONGITUDINAL SECTION



Upstream Section



PLAN



Downstream Section

ALTERNATIVE #1- PIPE LINING
GENERAL PLAN & LONGITUDINAL SECTION
DEERFIELD PARKWAY
OVER APTAKISIC CREEK
CULVERT 2002
LAKE COUNTY

MODEL: Default
 FILE NAME: V:\Bravo\W25085.00 Lake Co. Culvert Inspections\CADD\SS10_04_Structural\03_Sheet\Culvert 2002\W25085_Ex_Culvert_2002.dgn

Flow ←
 Aptakasic Creek

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

LAKE COUNTY
DIVISION OF TRANSPORTATION

GENERAL PLAN & LONGITUDINAL SECTION
CULVERT 2002

SHEET 1 OF 1 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE		
CONTRACT NO.				

ILLINOIS FED. AID PROJECT



September 26, 2025
81.P002013.25 – Spoils Management Services – CCDD Documentation
LCDOT Culvert #2002 Replacement
Village of Buffalo Grove, Lake County, Illinois
ATTACHMENTS

ATTACHMENT 2
TERMS AND CONDITIONS



TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES

© 2025 by GZA GeoEnvironmental, Inc.

These Terms and Conditions, together with GZA's Proposal, make up the Agreement between GZA and You, the Client, named in the Proposal. If the attached GZA Proposal is styled as a Master Services Agreement, then these Terms and Conditions will apply to any and all Services ordered by you and performed by GZA.

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

- 1) **Services.** GZA 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 GZA's costs will be the subject of a negotiated amendment or change order. All Services performed by GZA will be governed by this Agreement, even if performed prior to your execution of the Proposal.
- 2) **Term.** If the attached GZA proposal is styled as a Master Services Agreement, then the term of this Agreement will begin on the date of execution of the proposal (the "Effective Date"), and either party may terminate this Agreement for convenience upon thirty (30) days' written notice, provided that GZA will be paid for all services performed through the date of termination.
- 3) **Standard of Care; Warranties.**
 - a) GZA 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. GZA's sole responsibility with regard to Services which do not meet the foregoing standard of care is to reperform such Services, at GZA's expense, but only if you provide GZA written notice of such non-conformity within ninety (90) days after completion of the Services.
 - b) **NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTY OF MARKETABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS MADE OR INTENDED BY GZA'S PROPOSAL OR BY ANY OF GZA'S REPORTS OR OTHER CONDUCT.**
 - c) GZA 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.
- 4) **Payment.**
 - a) Except as otherwise stated in the Proposal, you will compensate GZA 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 GZA's Proposal shall be due prior to the start of Services and will be applied to the final invoice for Services.
 - c) GZA will submit invoices periodically, and payment will be due within 20 days from invoice date. You will notify GZA in writing of any invoice disputes within 10 days of the invoice date, and if no written notice of dispute is received, the invoice will be deemed approved in full. Overdue payments will bear interest at 1½ percent per month or, if lower, the maximum lawful rate. GZA 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 GZA'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). Any amounts paid by you to GZA will be applied first to interest and costs incurred by GZA, and then to the principal balance.
- 5) **Your Responsibilities.**
 - a) If the Services involve entry onto a third-party property or otherwise require access to property you do not own or control, you will secure the access agreements, approvals, permits, licenses and consents necessary for performance of the Services, without GZA becoming a party to or otherwise being required to sign any such agreements, approvals, permits, licenses and consents. If you are the owner or operator of the Site, you will provide GZA 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 GZA. GZA is entitled to rely on the accuracy and completeness of documents and information you provide. You acknowledge that the quality of the Services provided by GZA is directly related to the accuracy and completeness of the information and data that you furnish to GZA.
 - 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 contractor or construction manager provisions obligating the latter:
 - i) to defend, indemnify and hold harmless, to the fullest extent permitted by law, GZA, its affiliates and subsidiaries, and each of their officers, directors, members, partners, agents, insurers, employees, and subconsultants (the "GZA Indemnitees") and you, 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, the construction manager, or any of their subcontractors or any engineer engaged by them;
 - ii) to name you and GZA as additional insureds under general liability and builder's risk insurance coverages maintained by the contractor or construction manager, or any of their 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 their 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 contractor or construction manager, you shall promptly (but in any event prior to the commencement of the Services) notify GZA and GZA shall have the opportunity to negotiate with you reasonable substitute risk allocation and insurance indemnities and protections. Failure to provide such notice will be a material breach of this Agreement.
 - d) To the extent you are entitled to indemnification (either contractual or at common law) or are otherwise indemnified by the contractor or construction manager and/or their subcontractors, you agree to waive any claim (including without limitation indemnification or insurance claims) against GZA.
- 6) **Right of Entry; Site Restoration.** You grant GZA 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 GZA to enter the Site and perform the Services; you will provide reasonable verification on request; and you will indemnify the GZA Indemnitees for any claims by the Site owner related to alleged trespass by GZA or its subcontractors. Although GZA 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 GZA for any restoration it is asked to perform, unless otherwise indicated in the Proposal.

- 7) **Underground Facilities.** GZA'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 GZA with respect to personal injury and property damages due to GZA's interference with subterranean structures including but not limited to utilities, conduits, pipes, and tanks:
- that are not correctly shown on any plans and information you or governmental authorities provide to GZA; or
 - that are not correctly marked by the appropriate utility.
- 8) **Reliance.** The services, information, and other data furnished by you shall be at your expense, and GZA 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 GZA is directly related to the accuracy and completeness of the information and data that you furnish to GZA. **GZA'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 GZA. YOU SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS THE GZA 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 GZA AND SUCH LIMITED LICENSE TO YOU SHALL NOT CREATE ANY RIGHTS IN THIRD PARTIES.** However, in GZA's sole discretion, which may be withheld for any reason whatsoever, if you request that GZA extend reliance to a third party, then such reliance will be conditioned upon the third party's acceptance of such reliance on GZA's standard reliance terms and you will be obligated to pay GZA a reliance fee calculated as 10% of GZA's original fee for the report upon which reliance is being extended.
- 9) **Lab Tests and Samples.** GZA is entitled to rely on the results of laboratory tests using generally accepted methodologies. GZA 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 GZA for storage and/or shipping beyond 30 days.
- 10) **GZA Professionals.** GZA 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 "GZA 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 GZA or other contractor/consultant(s), which audit may require additional Services, even though GZA and such GZA Professionals have each performed such Services in accordance with the standard of care set forth herein. You agree to compensate GZA 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.
- 11) **Hazardous Materials; GZA "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. GZA 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. GZA will not have responsibility for or control of the Site or of operations or activities at the Site other than its own. GZA 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 GZA Indemnitees harmless for any costs or liability incurred by GZA in defense of or in payment for any legal actions in which it is alleged that GZA is the owner, generator, treater, storer or disposer of any Wastes.
- 12) **Limits on GZA's Responsibility.** GZA will not be responsible for the acts or omissions of contractors or others at the Site, except for its own subcontractors and employees. GZA will not supervise, direct or assume control over or the authority to stop any contractor's work, nor shall GZA's professional activities nor the presence of GZA or its employees and subcontractors be construed to imply that GZA 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 GZA 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.
- 13) **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 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, GZA will notify you and the parties will negotiate appropriate changes to the scope of Services, compensation and schedule.
 - If no agreement can be reached, GZA will be entitled to terminate the Services and to be equitably compensated for the Services already performed. GZA 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 GZA's reasonable control, and you will compensate GZA for any resulting increase in its costs.
- 14) **Documents and Information.** All documents, data, calculations and work papers prepared or furnished by GZA are instruments of service and will remain GZA's property. Designs, reports, data and other work product delivered to you are for your use only, for the limited purposes disclosed to GZA. 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 GZA. Any technology, methodology or technical information learned or developed by GZA will remain its property. Provided GZA is not in default under this Agreement, GZA's designs will not be used to complete this project by others, except by written agreement relating to use, liability and compensation.
- 15) **Electronic Media.** In accepting and utilizing any drawings, reports and data on any form of electronic media generated by GZA, you covenant and agree that all such electronic files are instruments of service of GZA, 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 GZA 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 GZA will be at the user's sole risk and without any liability to GZA.
- 16) **Confidentiality; Subpoenas.** Information about this Agreement and GZA's Services and information you provide to GZA 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 GZA 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. GZA 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 GZA 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 (including, without limitation, for outside counsel expenses incurred by GZA and/or 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). Notwithstanding the foregoing, GZA shall be entitled to use your name and a general description of the Services in promotional materials.

- 17) Insurance.** During performance of the Services, GZA will maintain workers' compensation, commercial general liability, automobile liability, and professional liability/contractor's pollution liability insurance. GZA will furnish you certificates of such insurance on request.
- 18) Indemnification.** You agree to hold harmless, indemnify, and defend the GZA 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 GZA's negligence or willful misconduct. The duty to defend will be triggered upon a claim, suit, fine and/or penalty being alleged or threatened, and will only terminate when and to the extent GZA's proportion of negligence is finally adjudicated by a court of competent jurisdiction. If the foregoing indemnification is determined to be void or unenforceable as a matter of law, then it shall be automatically reformed to apply the original intent of the clause to the maximum extent permissible by law.
- 19) Limitation of Remedies.**
- a) To the fullest extent permitted by law and notwithstanding anything else in this Agreement to the contrary, the aggregate liability of GZA and its affiliates, parents and subsidiaries and subcontractors and each of their employees, insurers, principals, officers, directors, partners and agents (collectively referred to in this paragraph as "GZA") for all claims (arising in tort, by contract or otherwise, and specifically including any indemnification or contribution obligation owed by GZA, arising under contract or at common law, if any) arising out of this Agreement or in any way related to GZA's Services is limited to \$50,000 or, if greater, 10% of the compensation received by GZA under this Agreement.
 - b) 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.
 - c) Any claim (as described in 19(a)) against GZA related in any way to the Services provided pursuant to this Proposal, or the terms herein, is waived unless suit is commenced in a proper jurisdiction within one year of substantial completion of GZA's Services. This waiver may not be construed to extend any applicable statute of limitations.
 - d) GZA will not be liable for lost profits, loss of use of property, delays, contractual penalties or other special, indirect, incidental, consequential, punitive, exemplary, liquidated, or multiple damages. This includes but is not limited to fines and/or penalties and/or sanctions imposed by any local, state, or federal government, agency, or regulatory body.
 - e) GZA will not be liable to you or the Site owner for injuries or deaths suffered by GZA's or its subcontractors' employees.
 - f) You will look solely to GZA 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 GZA principal, officer, employee or agent. To the extent damages are covered by property insurance or any other insurance, both you and GZA 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. You or GZA, 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.
- 20) Disputes.**
- a) Subject to the provisions of 20(d) below, all disputes between you and GZA shall be subject to non-binding mediation.
 - b) 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.
 - c) 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.
 - d) No action or suit may be commenced unless mediation has occurred but did not resolve the dispute, or unless a statute of limitations period or the one-year waiver period described in 19(c) above 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 GZA sends you a final demand letter for payment, your failure to remit payment in full (including interest, costs, attorneys fees and all other charges permitted by Section 4(c)) 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 or the letter is otherwise undeliverable to your address of record with GZA or with the Secretary of State in the jurisdiction where you are organized) of such letter will be deemed to be a waiver of your right to enforce this mediation clause and GZA may immediately file suit to enforce the terms of this Agreement.
 - e) In the event GZA commences litigation to recover payment of an unpaid invoice, you shall not be permitted to interpose any counterclaim. Any claim against GZA which remains viable under the terms of this Agreement must instead be brought in a separate action against GZA, subject to the terms of this Agreement, including, without limitation, the pre-suit certification requirement contained in Section 20(g).
 - f) You agree to pay reasonable attorneys' fees and all other costs and expenses (including, but not limited to reasonable investigative expenses and expert and consultant expenses) which may be incurred by GZA in the enforcement of this Agreement in the event that (a) it is finally adjudicated by a court of competent jurisdiction that you have breached this Agreement; or (b) where you allege that GZA has breached this Agreement or otherwise acted negligently and it is finally adjudicated by a court of competent jurisdiction that GZA did not in fact breach this Agreement or act negligently. If for any reason it is adjudicated that the foregoing provision is in violation of applicable law, is subject to a state statute automatically converting this clause to be reciprocal between the parties, is contrary to public policy or is unconscionable or a contract of adhesion, then the foregoing clause will be null and void and of no effect. Under no circumstances shall the foregoing clause be replaced with a reciprocal clause.
 - g) You shall make no claim against GZA for professional negligent acts, errors, omissions and/or alleged breach of contract either directly, indirectly, as a counterclaim or crossclaim, or in a third party claim, unless you have first provided GZA with a written certification executed by an independent professional practicing in the same discipline as GZA and licensed in the jurisdiction in which GZA provided you its Services. This certification must (i) identify the name and license of the certifier, (ii) specify each and every act or omission that the certifier contends is a violation of the standard of care expected of professional performing professional services under similar circumstances; and (iii) state in complete detail the basis for certifier's opinion that each such act or omission constitutes a violation of the standard of care. This certificate must be provided to GZA no less than thirty (30) days prior to the submission of a formal claim.

- h) With regard to Sections 5, 6, 8, 19 and 20 of this Agreement, the terms "claim", "any claim" and "all claims" shall be defined as broadly as legally possible, including without limitation any and all claims arising in contract (including indemnification obligations owed by GZA, if any), tort or by any other legal theory or argument.
- 21) Miscellaneous.**
- a) This Agreement and all claims relating thereto shall be governed by the substantive and procedural laws of the Commonwealth of Massachusetts, as they presently exist or may hereafter be amended, without regard to principles of conflict of laws.
 - b) 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 reason.
 - c) 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 GZA unless specifically approved in writing by a principal of GZA.
 - d) 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.
 - e) This Agreement supersedes any contract terms, purchase orders or other documents issued by you, even if signed by an authorized representative of GZA.
 - f) Neither party may assign or transfer this Agreement or any rights or duties hereunder without the written consent of the other party.
 - g) 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 GZA under this agreement.
 - h) These Terms and Conditions shall govern over any inconsistent terms in GZA's Proposal.
 - i) Any provision of this Agreement later held to be unenforceable for any reason shall be deemed void, and all remaining provisions shall continue in full force and effect on the parties, who agree that the Agreement shall be reformed to replace such voided provision with a valid and enforceable provision that comes as close as possible to expressing the intention of the voided provision.
 - j) 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.
 - k) Any reports generated by GZA will be subject to GZA's standard report limitations for that particular type of report.
 - l) To the extent applicable to GZA's Services, you acknowledge and agree that GZA cannot anticipate the effects of climate change/extreme weather on any report, design or other document produced by GZA, unless such analysis is specifically within the scope of GZA's Services.
 - m) You agree that during the performance of GZA's Services and for a period of twelve (12) months completion of those Services, you will not encourage, induce, or otherwise solicit, or actively assist any other person or organization to encourage, induce or otherwise solicit, directly or indirectly, any employee of the GZA or any of its affiliates to terminate their employment with GZA or any of its affiliates, or otherwise interfere with the advantageous business relationship of GZA or any of its affiliates with their employees. You agree that if you violate this non-solicitation provision, you will pay GZA liquidated damages in an amount equal to the total earnings of the solicited employee during the last twelve (12) months of their employment with GZA.
 - n) This Agreement does not create any third-party beneficiaries and is intended for the benefit of the parties hereto and their respective successors and permitted assigns, and is not for the benefit of, nor may any provision hereof be enforced by, anyone else.
- 22) 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.
- a) 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. GZA therefore cannot guarantee specific results such as the identification or removal of all asbestos or other contamination.
- 23) 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. 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.
- 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 which grow 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 GZA has neither control or responsibility, GZA 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. GZA therefore cannot guarantee 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 GZA's efforts, some Microbial locations may remain undetected. In such situations, you agree that you will have no claim against GZA provided GZA followed the applicable standard of care and all applicable laws and regulations pertaining to the Work.
 - d) You further agree that when GZA performs Services intended to minimize the risk of Microbial infestations, GZA 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. You agree to waive any Microbial infestation claim(s) against GZA and you agree to indemnify, defend and hold the GZA Indemnitees harmless from any claim alleging that GZA's Services caused or aggravated a Microbial infestation or did not prevent a Microbial infestation from recurring.



September 26, 2025
81.P002013.25 – Spoils Management Services – CCDD Documentation
LCDOT Culvert #2002 Replacement
Village of Buffalo Grove, Lake County, Illinois
ATTACHMENTS

ATTACHMENT 3 SUPPORTING COST SHEETS



Local Public Agency Lake County Division of Transportation	County Lake	Section Number
Prime Consultant (Firm) Name Bravo Company Engineering	Prepared By JJR	Date 9/26/2025
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

Culvert #2002 Replacement

PAYROLL ESCALATION TABLE

CONTRACT TERM	18	MONTHS	OVERHEAD RATE	184.39%
START DATE	11/1/2025		COMPLEXITY FACTOR	0
RAISE DATE	3/1/2026		% OF RAISE	3.00%
END DATE	4/30/2027			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	11/1/2025	3/1/2026	4	22.22%
1	3/2/2026	3/1/2027	12	68.67%

The total escalation = 2.68%

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	
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	90.00
ESCALATION FACTOR	2.68%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal	\$90.00	\$90.00
Associate Principal II	\$78.91	\$81.02
Associate Principal I	\$72.41	\$74.35
Senior Consultant II	\$70.00	\$71.87
Senior Consultant I	\$64.97	\$66.71
Senior Project Manager III	\$75.84	\$77.87
Senior Project Manager II	\$63.84	\$65.55
Senior Project Manager I	\$59.95	\$61.55
Senior Landscape Architect	\$63.40	\$65.10
Senior Planning PM	\$61.44	\$63.08
Senior Technical Specialist II	\$63.69	\$65.39
Scientist PM II	\$54.41	\$55.87
Scientist PM I	\$47.56	\$48.83
Assistant PM Scientist	\$39.04	\$40.08
Environmental Engineer PM II	\$52.00	\$53.39
Environmental Engineer PM I	\$48.90	\$50.21
Geotechnical Engineer PM I	\$52.74	\$54.15
Assistant PM Engineer I	\$41.12	\$42.22
Engineer I	\$37.27	\$38.27
Engineer II	\$32.70	\$33.58
Scientist SI	\$35.30	\$36.24
Scientist SII	\$31.77	\$32.62
Technical Graphics Technician	\$29.42	\$30.21
Architectural Historian	\$44.36	\$45.55
Administrative Executive	\$54.99	\$56.46
Administrative Manager	\$46.97	\$48.23
Senior Administrative Assistant	\$37.90	\$38.91

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

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	140	\$0.70	\$98.00
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	4	\$3.40	\$13.60
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)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost			\$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)	6	\$740.00	\$4,440.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Photoionization Detector (PID)	Daily Rate	1	\$110.00	\$110.00
Field Kit	Daily Rate	1	\$35.00	\$35.00
Record Search E4 Package	Actual Cost	1	\$285.00	\$285.00
				\$0.00
TOTAL DIRECT COSTS:				\$4,981.60

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number**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
LPC-663 Culvert #2002	4,982	41	1,660	3,061	548	0	5,269	51.40%
Subconsultant DL							\$0.00	
Direct Costs Total ==>	\$4,981.60						\$4,981.60	48.60%
TOTALS		41	1,660	3,061	548	-	10,251	100.00%

4,721

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

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			LPC-663 Culvert #2002														
		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	90.00	0.0																	
Associate Principal II	81.02	2.0	4.88%	3.95	2	4.88%	3.95												
Associate Principal I	74.35	0.0																	
Senior Consultant II	71.87	2.0	4.88%	3.51	2	4.88%	3.51												
Senior Consultant I	66.71	0.0																	
Senior Project Manager III	77.87	0.0																	
Senior Project Manager II	65.55	0.0																	
Senior Project Manager I	61.55	0.5	1.22%	0.75	0.5	1.22%	0.75												
Senior Landscape Architect	65.10	0.0																	
Senior Planning PM	63.08	0.0																	
Senior Technical Specialist II	65.39	0.0																	
Scientist PM II	55.87	0.0																	
Scientist PM I	48.83	0.0																	
Assistant PM Scientist	40.08	10.0	24.39%	9.78	10	24.39%	9.78												
Environmental Engineer PM II	53.39	0.0																	
Environmental Engineer PM I	50.21	3.0	7.32%	3.67	3	7.32%	3.67												
Geotechnical Engineer PM I	54.15	0.0																	
Assistant PM Engineer I	42.22	0.0																	
Engineer I	38.27	0.0																	
Engineer II	33.58	10.0	24.39%	8.19	10	24.39%	8.19												
Scientist SI	36.24	0.0																	
Scientist SII	32.62	10.0	24.39%	7.96	10	24.39%	7.96												
Technical Graphics Technician	30.21	3.0	7.32%	2.21	3	7.32%	2.21												
Architectural Historian	45.55	0.0																	
Administrative Executive	56.46	0.0																	
Administrative Manager	48.23	0.0																	
Senior Administrative Assistant	38.91	0.5	1.22%	0.47	0.5	1.22%	0.47												
TOTALS		41.0	100%	\$40.49	41.0	100.00%	\$40.49	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: Bravo LCDOT Culvert 2002

							<u>DIRECT</u>
Task 1 - LPC-663 Culvert #2002							
Trips	70 miles	x	2 x	\$	0.700	= \$	98.00
Tolls	1 ea	x	4 x	\$	3.40	= \$	13.60
IDOT Lab Sample Protocol						\$	-
VOC w/5035 kit	1 ea	x	6 x	\$	100.00	= \$	600.00
SVOC	1 ea	x	6 x	\$	155.00	= \$	930.00
TAL Total Metals	1 ea	x	6 x	\$	162.00	= \$	972.00
SPLP Metals	1 ea	x	6 x	\$	161.50	= \$	969.00
TCLP Metals	1 ea	x	6 x	\$	161.50	= \$	969.00
pH	1 ea	x	6 x	\$	-	= \$	-
<i>\$/IDOT Sample</i>			1 =	\$	740.00		
PID	1 day	x	1 x	\$	110.00	= \$	110.00
Field Kit	1 day	x	1 x	\$	35.00	= \$	35.00
Database Package	1 ea	x	1 x	\$	285.00	= \$	285.00
Task Total							\$ 4,981.60

GRAND TOTAL	\$ 4,981.60
--------------------	--------------------

SCOPE OF WORK PROPOSAL

9/15/25

Mr. Trent Bruns, PE
Bravo Company Engineering
 550 Warrenville Road, Suite 220
 Lisle, Illinois 60532
tbruns@bravocoeng.com

From: William Wyzgala, P.E.
Midland Standard
Engineering & Testing, Inc.
 410 Nolen Drive
 South Elgin, Illinois 60177
 (847) 844-1895

Culvert #1263 Robert McClory Bikepath over Waukegan River
 Lake County, IL

For culvert replacement design, perform one (1) soil borings with split-spoon sampling at 2.5 foot intervals to a depth of forty-five (45) feet below the surface. Conduct field soil strength tests, obtain soil samples, and conduct laboratory testing to determine moisture content of all soil samples, with visual soil classifications. Provide soil strength parameters and analysis for culvert and headwall design including boring logs, test results, site location plan in an IDOT SGR report format.

SERVICES	UNIT PRICE	EST QTY	BUDGET EXTENSION
Field			
Engineering Services required for boring layout & JULIE clearance, per hour	\$180.00	4	\$720.00
Mobilization of Drill Rig, Equipment & Crew, day	\$450.00	1	\$450.00
Structure Soil Boring with Split Spoon Sampling at 2.5 foot intervals, per foot	\$23.00	45	\$1,035.00
Drilling supervision and logging of soil samples, per hr	\$105.00	6	\$630.00
Taffic Control, signs, flagman, per day	\$900.00		
Laboratory			
Moisture Content Test, each	\$6.00	20	\$120.00
Soil Classification, Atterberg & Hydrometer, each	\$250.00	1	\$250.00
Engineering Services			
Laboratory data review			
preparation of boring logs, and summary report			
providing soil parameters and recommendations for culvert and headwall design, subgrade treatments by a professional engineer.			
Principal Engineer, per hour	\$160.00	1	\$160.00
Geotechnical Engineer, per hour	\$150.00	12	\$1,800.00
Staff Engineer, per hour	\$110.00	5	\$550.00
Engineemg Technician, per hour	\$100.00		

PROJECT TOTAL
\$5,715.00

Accepted: _____ Date: _____

SCOPE OF WORK PROPOSAL

9/15/25

Mr. Trent Bruns, PE
Bravo Company Engineering
 550 Warrenville Road, Suite 220
 Lisle, Illinois 60532
tbruns@bravocoeng.com

From: William Wyzgala, P.E.
Midland Standard
Engineering & Testing, Inc.
 410 Nolen Drive
 South Elgin, Illinois 60177
 (847) 844-1895

Culvert #2002 Deerfield Parkway over Aptakisic Creek
 Lake County, IL

For culvert replacement design, perform two (2) soil borings with split-spoon sampling at 2.5 foot intervals to a depth of twenty-five (25) feet below the surface. Conduct field soil strength tests, obtain soil samples, and conduct laboratory testing to determine moisture content of all soil samples, with visual soil classifications. Provide soil strength parameters and analysis for culvert and headwall design including boring logs, test results, site location plan in an IDOT SGR report format.

SERVICES	UNIT PRICE	EST QTY	BUDGET EXTENSION
Field			
Engineering Services required for boring layout & JULIE clearance, per hour	\$180.00	4	\$720.00
Mobilization of Drill Rig, Equipment & Crew, day	\$450.00	1	\$450.00
Structure Soil Boring with Split Spoon Sampling at 2.5 foot intervals, per foot	\$23.00	50	\$1,150.00
Drilling supervision and logging of soil samples, per hr	\$105.00	6	\$630.00
Taffic Control, signs, flagman, per day	\$900.00		
Laboratory			
Moisture Content Test, each	\$6.00	20	\$120.00
Soil Classification, Atterberg & Hydrometer, each	\$250.00	1	\$250.00
Engineering Services			
Laboratory data review			
preparation of boring logs, and summary report			
providing soil parameters and recommendations for culvert and headwall design, subgrade treatments by a professional engineer.			
Principal Engineer, per hour	\$160.00	1	\$160.00
Geotechnical Engineer, per hour	\$150.00	12	\$1,800.00
Staff Engineer, per hour	\$110.00	5	\$550.00
Engineemg Technician, per hour	\$100.00		

PROJECT TOTAL
\$5,830.00

Accepted: _____ Date: _____



**PHASE II ENGINEERING FOR THE REPLACEMENT OF THE
CULVERT CARRYING ROBERT MCCLORY BIKE PATH**

Project Information. Phase 2 engineering for the replacement of the culvert carrying Robert McClory Bike path over the Waukegan River.

Summary. The *Scope of Services* for preliminary engineering involves the following tasks:

1. Data Collection and Review
2. Hydraulic Studies
3. Structural Studies
4. Environmental Studies
5. Plans, Specifications and Estimates (PS&E)
6. Permitting
7. Project Management

TASK 1 – DATA COLLECTION AND REVIEW

Coordinate with Bravo Co Engineering and verify project pertinent data.

Review Existing Data. Available information from the County will be obtained and reviewed including existing right-of-way data, existing roadway and culvert plans, County-based GIS digital topographic survey data and aerial photography, existing maintenance and flooding records.

TASK 2 – HYDRAULIC STUDIES

A stream hydrology/hydraulic analysis and hydraulic report will be prepared for calculating a culvert size which meets regulatory requirements. This crossing is over the Waukegan River within a FEMA Zone X – an area of minimal flood hazard – with no delineated base flood limits. According to USGS StreamStats data, the watershed tributary area is 5.98-sq.mi. flowing from the north to the southeast.

Field Review and Data Collection. Field review and data collection for the project will be performed including field inspection and field interviews to validate the model.

Review FEMA and USGS Data. A review of existing FEMA and USGS records will be conducted.

Develop Hydrologic/Hydraulic Models. Development of existing hydraulic model to include surveyed stream cross sections and structure information and preparation of existing conditions, natural conditions, and proposed conditions hydraulic models. The results of the analysis will be used in developing the waterway information table.

Determine Floodplain Impacts and Mitigation. Impacts to the floodplain will be determined and the need for compensatory storage

Perform HEC-18 Scour Analysis. A HEC-18 scour analysis will be performed for the preferred alternative.

Stormwater Report. The Stormwater Report will contain the following:





- Location Map
- Permit Summary for Floodway Construction in Northeastern Illinois (D1 PD0024)
- Narrative – Description of services that includes flooding history, correlation of datum, discussion of hydraulic analysis, description of area and sensitive flood receptor considerations
- FIS Datum Correlation with Survey
- Hydraulic Report Data Sheets
- Waterway Information Table (WIT)
- Stream Profile & Cross Sections
- Plan & Profile of path
- FIRM Map excerpt
- Floodway and floodplain fill and compensatory storage calculations
- Modeling Calculations
- HGL for 10, Design, 50 and 100-Year events

The stormwater report will be submitted to IDNR-OWR to obtain a floodway construction permit.

TASK 3 – STRUCTURAL STUDIES

Structural Design. Design the culvert and end section for AASHTO H-10 truck loading, pedestrian loading and the soil embankment loading over the culvert. The Robert McClory Bike Path will be a full closure for the construction of the culvert.

TASK 4 – ENVIRONMENTAL STUDIES

Wetland Delineation and Report. Wetland and/or waters are anticipated to be present in the study area. The following tasks will be performed:

- Obtain preliminary information including aerial photos, wetland maps, United States Geological Survey (USGS), soils mapping, FEMA map, hydrologic atlas, and other data necessary for the wetland delineation.
- Conduct wetland and water delineations based on methodology approved by United States Army Corps of Engineers (USACE). Wetland and waters will be differentiated to determine impacts to each.
- Field stake perimeter of wetlands and survey their locations.
- Prepare wetland delineation report, including resource evaluation, support data, and graphics.

Wetland Impact Evaluation. Based on the wetland delineation report and proposed improvements, a Wetland Impact Evaluation (WIE) will be prepared as follows:

- Prepare wetland impact exhibit and evaluate wetland impacts for permitting.

Bridge Bat Assessment. Conduct bat assessment according to *DEPARTMENT* Circular Letter 2022-28. The Bridge/Structure Bat Assessment form, with photographs, will be completed, signed, and submitted to the County.



Ecological Compliance Assessment Toll (EcoCAT). Complete the EcoCAT assessment to determine if our project may be in the vicinity of protected natural resources.

Illinois State Historic Preservation Office Review. Request a SHPO review through email SHPO.Review@illinois.gov. The following exhibits needed for SHPO review include:

- Location Map
- Wetland and Waterway Exhibit
- Historic & Architectural Resources Geographic Information System (HARGIS)
- Site Photographs
- Preliminary Plans

TASK 5 – PLANS, SPECIFICATIONS AND ESTIMATES (PS&E)

The following plans will be developed and included in the contract documents.

Structural Plans

- General Plan and Longitudinal Section
- General Data
- Culvert Elevations
- End Sections
- Culvert Details
- Soil Boring Logs
- Existing Plans

Specifications. Special provisions for structural pay items only will be developed for non-standard pay items.

Structural Quantities and Cost Estimate. Quantify structural quantities by using utilize standard pay items and generate an estimate of cost for construction.

TASK 6 – PERMITTING

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

Lake County Stormwater Management Ordinance. Complete and submit permit application.

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

NPDES Permit. Complete and submit the National Pollutant Discharge Elimination System (NPDES) Permit, Stormwater Pollution Prevention Plan (SWPPP), Notice of Intent (NOI) and Erosion and Sediment





Control Plans to IEPA. Complete BDE Forms 2342 and 2342A for inclusion into the Special Provisions. A review fee is not required since the **LPA** is an MS4 community.

TASK 7 - PROJECT MANAGEMENT

Successful management of a project requires scheduling and reporting of the progress of the project. Services will include the following tasks:

- Project setup includes contract administration, budget control and internal project team meetings.
- Prepare and submit monthly invoices and progress reports during months when engineering activities occur, and invoices are due.

Exclusions to the Scope of Services

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

- Public information meeting or public hearing
- Public notices
- Wetland and stream mitigation fee
- Subsurface Utility Engineering (SUE) investigation
- Land acquisition services (POH, Legals, appraisals, negotiations, closings, and certification)
- Permitting fees
- Conditional Letter of Map Revision (CLOMR) or Letter of Map Revision (LOMR)
- McHenry-Lake County Soil and Water Conservation District (MLSWCD) Review.





3s701 West Ave, Suite 150
 Warrenville, IL 60555
 Phone: 630-393-3060
 Fax: 630-393-2152
 www.eraconsultants.com

CLIENT: Bravo Company
 PROJECT: 1263 Culvert Replacement
 PROJECT LOCATION: Robert McClory Bike Path over
 Waukegan River

PAYROLL CLASSIFICATION	HOURLY RATE	TOTAL HRS	Data Collection and Review			Hydraulic Studies			Structural Studies			Environmental Studies		
			HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE
Structural Engineer IV	\$257.19	264.0	6	50.0%	\$128.60	40	16.4%	\$42.15	32	100.0%	\$257.19			
Professional Engineer III	\$183.92	28.0												
Staff Engineer III	\$143.55	322.0	6	50.0%	\$71.77	204	83.6%	\$120.02				50	34.7%	\$49.84
Staff Engineer II	\$119.62	0.0												
Staff Engineer I	\$114.39	0.0												
Ecological Services Director	\$193.64	28.0										16	11.1%	\$21.51
Environmental Specialist IV	\$192.89	8.0										8	5.6%	\$10.72
Environmental Specialist II	\$118.13	50.0										50	34.7%	\$41.01
Environmental Specialist I	\$92.71	20.0										20	13.9%	\$12.88
Administrative Staff III	\$118.13	2.0												
	\$0.00	0.0												
	\$0.00	0.0												
	\$0.00	0.0												
	\$0.00	0.0												
	\$0.00	0.0												
	\$0.00	0.0												
	\$0.00	0.0												
	\$0.00	0.0												
TOTALS		722.00	12	100.0%	\$200.37	244	100.0%	\$162.17	32	100.0%	\$257.19	144	100.0%	\$135.97



3s701 West Ave, Suite 150
 Warrenville, IL 60555
 Phone: 630-393-3060
 Fax: 630-393-2152
 www.eraconsultants.com

CLIENT: Bravo Company
 PROJECT: 1263 Culvert Replacement
 PROJECT LOCATION: Robert McClory Bike Path over Waukegan River
 COUNTY: Lake County

Date: 2/4/26
 Consultant: Engineering Resource Associates, Inc.
 Project Manager: M. Lange
 PP/PL No.: PL2511.35

PAYROLL CLASSIFICATION	HOURLY RATE	Plans, Specifications and Estimates (PS&E)			Permitting			Project Management					
		HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE
Structural Engineer IV	\$257.19	170	81.0%	\$208.20				16	88.9%	\$228.62			
Professional Engineer III	\$183.92				28	45.2%	\$83.06						
Staff Engineer III	\$143.55	40	19.1%	\$27.35	22	35.5%	\$50.93						
Staff Engineer II	\$119.62												
Staff Engineer I	\$114.39												
Ecological Services Director	\$193.64				12	19.4%	\$37.47						
Environmental Specialist IV	\$192.89												
Environmental Specialist II	\$118.13												
Environmental Specialist I	\$92.71												
Administrative Staff III	\$118.13							2	11.1%	\$13.12			
	\$0.00												
	\$0.00												
	\$0.00												
	\$0.00												
	\$0.00												
	\$0.00												
	\$0.00												
	\$0.00												
TOTALS		210	100.0%	\$235.54	62	100.0%	\$171.46	18	100.0%	\$241.74	0	0.0%	\$0.00

**CULVERT CARRYING ROBERT MCCLORY BIKE PATH
PHASE II ENGINEERING**

TASK AND DESCRIPTION	<u>TOTAL</u>
TASK 1 DATA COLLECTION AND REVIEW	
<i>Review Existing Data</i>	12
SUBTOTAL	12
TASK 2 HYDRAULIC STUDIES	
<i>Field Review and Data Collection</i>	6
<i>Review FEMA and USGA Data</i>	6
<i>Develop Hydrologic/ Hydraulic Models</i>	80
<i>Determine Floodplain Impacts and Mitigations</i>	80
<i>Perform HEC-18 Scour Analysis</i>	12
<i>Stormwater Report</i>	60
SUBTOTAL	244
TASK 3 STRUCTURAL STUDIES	
<i>Culvert Design</i>	32
SUBTOTAL	32
TASK 4 ENVIRONMENTAL STUDIES	
<i>Wetland Delineation and Report</i>	40
<i>Wetland Impact Evaluation</i>	32
<i>Culvert Bat Assessment</i>	16
<i>EcoCAT</i>	24
<i>ISHPO Review</i>	32
SUBTOTAL	144
TASK 5 PLANS, SPECIFICATIONS AND ESTIMATES (PS&E)	
<i>Plans</i>	162
<i>Specifications</i>	16
<i>Quantities and Estimate</i>	32
SUBTOTAL	210
TASK 6 PERMITTING	
<i>IDNR-OWR Floodway Construction Permit</i>	24
<i>USACOE Section 404</i>	32
<i>NPDES</i>	6
SUBTOTAL	62
TASK 7 PROJECT MANAGEMENT	
<i>Project Management</i>	12
<i>Invoicing</i>	6
SUBTOTAL	18
GRAND TOTAL	722

**CULVERT CARRYING ROBERT MCCLORY BIKE PATH
DIRECT COSTS**

PRINTING COSTS

8 1/2" x11" B&W \$0.12
 11" x 17" B&W \$0.24
 22"x 34" B&W \$1.20
 22"x 34" Mylars \$5.00

VEHICLE MILEAGE

2025 Mileage Rate = \$0.725

TASK 1 – EARLY COLLECTION AND REVIEW

TASK 1 TOTAL = \$0.00

TASK 2 - HYDRAULIC STUDIES

TASK 2 TOTAL = \$0.00

TASK 3 - STRUCTURAL STUDIES

TASK 3 TOTAL = \$0.00

TASK 4 - ENVIRONMENTAL STUDIES

Bat Assessment

Task	No. of Visits	Total Mileage	Cost
Wetland Delineation	1	130	\$94.25
Bat Assessment	1	130	\$94.25
		260	\$188.50

TASK 4 TOTAL = \$188.50

TASK 5 - PLANS, SPECIFICATIONS AND ESTIMATES (PS&E)

TASK 5 TOTAL = \$0.00

TASK 6 -PERMITTING

IDNR-OWR Permit Package

Size	Items	No. of Pages	Cost/ sheet	Cost
11" x 17" B&W	Plans	116	\$0.24	\$27.84
8 1/2" x11" B&W	Report	200	\$0.12	\$24.00
			Subtotal:	\$51.84
			No. of Submittals:	2
			Subtotal:	\$103.68

**CULVERT CARRYING ROBERT MCCLORY BIKE PATH
DIRECT COSTS**

LCSMO Package

Size	Items	No. of Pages	Cost/ sheet	Cost
11" x 17" B&W	Plans	116	\$0.24	\$27.84
8 1/2" x11" B&W	Application	15	\$0.12	\$1.80
				\$29.64
			No. of Submittals:	2
			Subtotal:	\$59.28

USACOE Package

Size	Items	No. of Pages	Cost/ sheet	Cost
11" x 17" B&W	Plans	116	\$0.24	\$27.84
8 1/2" x11" B&W	Application	15	\$0.12	\$1.80
				\$29.64
			No. of Submittals:	2
			Subtotal:	\$59.28

TASK 6 TOTAL = \$222.24

TASK 7 - PROJECT MANAGEMENT

TASK 7 TOTAL = \$0.00

TOTAL ALL TASKS = \$410.74

ROBERT MCCLORY BIKE PATH SUMMARY - DIRECT COST

8 1/2" x11" B&W	\$460.00	\$55.20
11" x 17" B&W	696	\$167.04
Mileage	260	\$188.50
		\$410.74

**CULVERT CARRYING ROBERT MCCLORY BIKE PATH
PHASE II ENGINEERING**

TASK 5	STRUCTURAL SHEETS	<u># Shts</u>	<u>Hrs/Sht</u>	<u>Total Hrs</u>
	General Plan and Longitudinal Section	1	80	80
	General Data	1	16	16
	Culvert Plan and Details	3	16	48
	Culvert Details	1	16	16
	Soil Borings	1	2	2
	SUBTOTAL	7		162



**PHASE II ENGINEERING FOR THE REPLACEMENT OF THE
CULVERT CARRYING DEERFIELD PARKWAY OVER APTAKISIC CREEK**

Project Information. Phase 2 engineering for the replacement of the culvert carrying Deerfield Parkway over Aptakisic Creek.

Summary. The *Scope of Services* for preliminary engineering involves the following tasks:

1. Data Collection and Review
2. Hydraulic Studies
3. Structural Studies
4. Environmental Studies
5. Plans, Specifications and Estimates (PS&E)
6. Permitting
7. Project Management

TASK 1 – DATA COLLECTION AND REVIEW

Coordinate with Bravo Co Engineering and verify project pertinent data.

Review Existing Data. Available information from the County will be obtained and reviewed including existing right-of-way data, existing roadway and culvert plans, County-based GIS digital topographic survey data and aerial photography, existing maintenance and flooding records.

TASK 2 – HYDRAULIC STUDIES

A stream hydrology/hydraulic analysis and hydraulic report will be prepared for calculating a culvert size which meets regulatory requirements. This crossing is over the Waukegan River within a FEMA Zone X – an area of minimal flood hazard – with no delineated base flood limits. According to USGS StreamStats data, the watershed tributary area is 5.98-sq.mi. flowing from the north to the southeast.

Field Review and Data Collection. Field review and data collection for the project will be performed including field inspection and field interviews to validate the model.

Review FEMA and USGS Data. A review of existing FEMA and USGS records will be conducted.

Develop Hydrologic/Hydraulic Models. Development of existing hydraulic model to include surveyed stream cross sections and structure information and preparation of existing conditions, natural conditions, and proposed conditions hydraulic models. The results of the analysis will be used in developing the waterway information table.

Determine Floodplain Impacts and Mitigation. Impacts to the floodplain will be determined and the need for compensatory storage

Perform HEC-18 Scour Analysis. A HEC-18 scour analysis will be performed for the preferred alternative.

Stormwater Report. The Stormwater Report will contain the following:





- Location Map
- Permit Summary for Floodway Construction in Northeastern Illinois (D1 PD0024)
- Narrative – Description of services that includes flooding history, correlation of datum, discussion of hydraulic analysis, description of area and sensitive flood receptor considerations
- FIS Datum Correlation with Survey
- Hydraulic Report Data Sheets
- Waterway Information Table (WIT)
- Stream Profile & Cross Sections
- Plan & Profile of path
- FIRM Map excerpt
- Floodway and floodplain fill and compensatory storage calculations
- Modeling Calculations
- HGL for 10, Design, 50 and 100-Year events

The stormwater report will be submitted to IDNR-OWR to obtain a floodway construction permit.

TASK 3 – STRUCTURAL STUDIES

Structural Design. Design the culvert and end section for AASHTO HL-93 truck loading with a fill height of 2-ft over the culvert. The Deerfield Parkway culvert will be constructed under stage construction.

TASK 4 – ENVIRONMENTAL STUDIES

Wetland Delineation and Report. Wetland and/or waters are anticipated to be present in the study area. The following tasks will be performed:

- Obtain preliminary information including aerial photos, wetland maps, United States Geological Survey (USGS), soils mapping, FEMA map, hydrologic atlas, and other data necessary for the wetland delineation.
- Conduct wetland and water delineations based on methodology approved by United States Army Corps of Engineers (USACE). Wetland and waters will be differentiated to determine impacts to each.
- Field stake perimeter of wetlands and survey their locations.
- Prepare wetland delineation report, including resource evaluation, support data, and graphics.

Wetland Impact Evaluation. Based on the wetland delineation report and proposed improvements, a Wetland Impact Evaluation (WIE) will be prepared as follows:

- Prepare wetland impact exhibit and evaluate wetland impacts for permitting.

Bridge Bat Assessment. Conduct bat assessment according to *DEPARTMENT* Circular Letter 2022-28. The Bridge/Structure Bat Assessment form, with photographs, will be completed, signed, and submitted to the County.





Ecological Compliance Assessment Toll (EcoCAT). Complete the EcoCAT assessment to determine if our project may be in the vicinity of protected natural resources.

Illinois State Historic Preservation Office Review. Request a SHPO review through email SHPO.Review@illinois.gov. The following exhibits needed for SHPO review include:

- Location Map
- Wetland and Waterway Exhibit
- Historic & Architectural Resources Geographic Information System (HARGIS)
- Site Photographs
- Preliminary Plans

TASK 5 – PLANS, SPECIFICATIONS AND ESTIMATES (PS&E)

The following plans will be developed and included in the contract documents.

Structural Plans

- General Plan and Longitudinal Section
- General Data
- Stage Construction Details
- Culvert Elevations
- End Sections
- Culvert Details
- Soil Boring Logs
- Existing Plans

Specifications. Special provisions for structural pay items only will be developed for non-standard pay items.

Structural Quantities and Cost Estimate. Quantify structural quantities by using utilize standard pay items and generate an estimate of cost for construction.

TASK 6 – PERMITTING

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

Lake County Stormwater Management Ordinance. Complete and submit permit application.

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

NPDES Permit. Complete and submit the National Pollutant Discharge Elimination System (NPDES) Permit, Stormwater Pollution Prevention Plan (SWPPP), Notice of Intent (NOI) and Erosion and Sediment





Control Plans to IEPA. Complete BDE Forms 2342 and 2342A for inclusion into the Special Provisions. A review fee is not required since the **LPA** is an MS4 community.

TASK 7 - PROJECT MANAGEMENT

Successful management of a project requires scheduling and reporting of the progress of the project. Services will include the following tasks:

- Project setup includes contract administration, budget control and internal project team meetings.
- Prepare and submit monthly invoices and progress reports during months when engineering activities occur, and invoices are due.

Exclusions to the Scope of Services

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

- Public information meeting or public hearing
- Public notices
- Wetland and stream mitigation fee
- Subsurface Utility Engineering (SUE) investigation
- Land acquisition services (POH, Legals, appraisals, negotiations, closings, and certification)
- Permitting fees
- Conditional Letter of Map Revision (CLOMR) or Letter of Map Revision (LOMR)
- McHenry-Lake County Soil and Water Conservation District (MLSWCD) Review





3s701 West Ave, Suite 150
 Warrenville, IL 60555
 Phone: 630-393-3060
 Fax: 630-393-2152
 www.eraconsultants.com

CLIENT: Bravo Company
 PROJECT: 2002 Culvert Replacement
 PROJECT LOCATION:Deerfield Parkway over Aptakisic
 Creek

PAYROLL CLASSIFICATION	HOURLY RATE	TOTAL HRS	Data Collection and Review			Hydraulic Studies			Structural Studies			Environmental Studies		
			HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE
Structural Engineer IV	\$257.19	264.0	6	50.0%	\$128.60	40	16.4%	\$42.15	32	50.0%	\$128.60			
Professional Engineer III	\$183.92	28.0												
Staff Engineer III	\$143.55	386.0	6	50.0%	\$71.77	204	83.6%	\$120.02	32	50.0%	\$71.77	50	34.7%	\$49.84
Staff Engineer II	\$119.62	0.0												
Staff Engineer I	\$114.39	0.0												
Ecological Services Director	\$193.64	28.0										16	11.1%	\$21.51
Environmental Specialist IV	\$192.89	8.0										8	5.6%	\$10.72
Environmental Specialist II	\$118.13	50.0										50	34.7%	\$41.01
Environmental Specialist I	\$92.71	20.0										20	13.9%	\$12.88
Administrative Staff III	\$118.13	2.0												
	\$0.00	0.0												
	\$0.00	0.0												
	\$0.00	0.0												
	\$0.00	0.0												
	\$0.00	0.0												
	\$0.00	0.0												
	\$0.00	0.0												
	\$0.00	0.0												
TOTALS		786.00	12	100.0%	\$200.37	244	100.0%	\$162.17	64	100.0%	\$200.37	144	100.0%	\$135.97



3s701 West Ave, Suite 150
 Warrenville, IL 60555
 Phone: 630-393-3060
 Fax: 630-393-2152
 www.eraconsultants.com

CLIENT: Bravo Company
 PROJECT: 2002 Culvert Replacement
 PROJECT LOCATION: Deerfield Parkway over Aptakisic Creek
 COUNTY: Lake County

Date: 2/4/26
 Consultant: Engineering Resource Associates, Inc.
 Project Manager: M. Lange
 PP/PL No.: PL2511.35

PAYROLL CLASSIFICATION	HOURLY RATE	Plans, Specifications and Estimates (PS&E)			Permitting			Project Management					
		HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE
Structural Engineer IV	\$257.19	170	70.3%	\$180.68				16	88.9%	\$228.62			
Professional Engineer III	\$183.92				28	45.2%	\$83.06						
Staff Engineer III	\$143.55	72	29.8%	\$42.71	22	35.5%	\$50.93						
Staff Engineer II	\$119.62												
Staff Engineer I	\$114.39												
Ecological Services Director	\$193.64				12	19.4%	\$37.47						
Environmental Specialist IV	\$192.89												
Environmental Specialist II	\$118.13												
Environmental Specialist I	\$92.71												
Administrative Staff III	\$118.13							2	11.1%	\$13.12			
	\$0.00												
	\$0.00												
	\$0.00												
	\$0.00												
	\$0.00												
	\$0.00												
	\$0.00												
	\$0.00												
TOTALS		242	100.0%	\$223.38	62	100.0%	\$171.46	18	100.0%	\$241.74	0	0.0%	\$0.00

**CULVERT CARRYING DEERFIELD PARKWAY OVER APTAKISIC CREEK
PHASE II ENGINEERING**

TASK AND DESCRIPTION	<u>TOTAL</u>
TASK 1 DATA COLLECTION AND REVIEW	
<i>Review Existing Data</i>	12
SUBTOTAL	12
TASK 2 HYDRAULIC STUDIES	
<i>Field Review and Data Collection</i>	6
<i>Review FEMA and USGA Data</i>	6
<i>Develop Hydrologic/ Hydraulic Models</i>	80
<i>Determine Floodplain Impacts and Mitigations</i>	80
<i>Perform HEC-18 Scour Analysis</i>	12
<i>Stormwater Report</i>	60
SUBTOTAL	244
TASK 3 STRUCTURAL STUDIES	
<i>Culvert Design</i>	32
<i>Stage Construction</i>	32
SUBTOTAL	64
TASK 4 ENVIRONMENTAL STUDIES	
Wetland Delineation and Report	40
Wetland Impact Evaluation	32
Culvert Bat Assessment	16
EcoCAT	24
ISHPO Review	32
SUBTOTAL	144
TASK 5 PLANS, SPECIFICATIONS AND ESTIMATES (PS&E)	
Plans	194
Specifications	16
Quantities and Estimate	32
SUBTOTAL	242
TASK 6 PERMITTING	
<i>IDNR-OWR Floodway Construction Permit</i>	24
<i>USACOE Section 404</i>	32
<i>NPDES</i>	6
SUBTOTAL	62
TASK 7 PROJECT MANAGEMENT	
<i>Project Management</i>	12
<i>Invoicing</i>	6
SUBTOTAL	18
GRAND TOTAL	786

**CULVERT CARRYING ROBERT MCCLORY BIKE PATH
DIRECT COSTS**

PRINTING COSTS

8 1/2" x11" B&W \$0.12
 11" x 17" B&W \$0.24
 22"x 34" B&W \$1.20
 22"x 34" Mylars \$5.00

VEHICLE MILEAGE

2025 Mileage Rate = \$0.725

TASK 1 – EARLY COLLECTION AND REVIEW

TASK 1 TOTAL = \$0.00

TASK 2 - HYDRAULIC STUDIES

TASK 2 TOTAL = \$0.00

TASK 3 - STRUCTURAL STUDIES

TASK 3 TOTAL = \$0.00

TASK 4 - ENVIRONMENTAL STUDIES

Bat Assessment

Task	No. of Visits	Total Mileage	Cost
Wetland Delineation	1	130	\$94.25
Bat Assessment	1	130	\$94.25
		260	\$188.50

TASK 4 TOTAL = \$188.50

TASK 5 - PLANS, SPECIFICATIONS AND ESTIMATES (PS&E)

TASK 5 TOTAL = \$0.00

TASK 6 -PERMITTING

IDNR-OWR Permit Package

Size	Items	No. of Pages	Cost/ sheet	Cost
11" x 17" B&W	Plans	116	\$0.24	\$27.84
8 1/2" x11" B&W	Report	200	\$0.12	\$24.00
			Subtotal:	\$51.84
			No. of Submittals:	2
			Subtotal:	\$103.68

LCSMO Package

Size	Items	No. of Pages	Cost/ sheet	Cost
11" x 17" B&W	Plans	116	\$0.24	\$27.84
8 1/2" x11" B&W	Application	15	\$0.12	\$1.80
				\$29.64
			No. of Submittals:	2
			Subtotal:	\$59.28

**CULVERT CARRYING ROBERT MCCLORY BIKE PATH
DIRECT COSTS**

USACOE Package

Size	Items	No. of Pages	Cost/ sheet	Cost
11" x 17" B&W	Plans	116	\$0.24	\$27.84
8 1/2" x11" B&W	Application	15	\$0.12	\$1.80
				\$29.64
			No. of Submittals:	2
			Subtotal:	\$59.28
			TASK 6 TOTAL =	\$222.24

TASK 7 - PROJECT MANAGEMENT

TASK 7 TOTAL =	\$0.00
TOTAL ALL TASKS =	\$410.74

ROBERT MCCLORY BIKE PATH SUMMARY - DIRECT COST

8 1/2" x11" B&W	\$460.00	\$55.20
11" x 17" B&W	696	\$167.04
Mileage	260	\$188.50
		<hr/>
		\$410.74

**CULVERT CARRYING ROBERT MCCLORY BIKE PATH
PHASE II ENGINEERING**

TASK 5	STRUCTURAL SHEETS	# Shts	Hrs/Sht	Total Hrs
	General Plan and Longitudinal Section	1	80	80
	General Data	1	16	16
	Stage Construction Sheeets	1	32	32
	Culvert Plan and Details	3	16	48
	Culvert Details	1	16	16
	Soil Borings	1	2	2
	SUBTOTAL	8		194

PROPOSAL FOR LAND ACQUISITION SERVICES

Culvert #1263 - Robert McClory Bikepath over Waukegan River Bravo Company Engineering for the benefit of Lake County Division of Transportation

Santacruz Land Acquisitions specializes in negotiating and acquiring parcels of land for right-of-way use by governmental bodies in roadway construction and other public infrastructure projects. Founded in 1992, we have been helping our clients acquire right-of-way on budget and in a timely manner to keep their projects on schedule. We have worked extensively with the Illinois Department of Transportation (IDOT), the Illinois State Toll Highway Authority (ISTHA), Cook County, Lake County, Will County and other local municipalities in facilitating property owners through the acquisition process with great success.

Having extensive experience with right of way projects, we understand the importance of keeping on schedule. On-time lettings gives the Lake County Division of Transportation, the Local Public Agency (“LPA”) the best use of its resources and strengthens the efficiencies in the implementation of its roadway improvement program. To achieve your goals, it is critical that your land acquisition consultant understands the importance and addresses three critical issues in your acquisition of right of way:

- Deliver the right of way on-time to meet the letting.
- Manage the acquisition risks, including the cost of condemnation litigation.
- Compliance with land acquisition policies and procedures and FWA policies that affect the certification and funding of your project.

Santacruz Land Acquisitions (“Santacruz”) will work with the staff for the LPA and/or, Bravo Company Engineering, Engineer for the LPA, (“Consultant”) to develop a land acquisition plan for the reconstruction of the culvert (#1263) for the Robert McClory Bikepath over Waukegan River (the “Project”) to assure that the goals are met.

Santacruz Land Acquisitions is certified as a Disadvantaged Business Enterprise (DBE) by the State of Illinois, Department of Transportation and a Minority Business Enterprise (MBE) with the City of Chicago and Cook County.

COMPENSATION

Santacruz shall be entitled to compensation, based on **five (5)** projected parcels of right-of-way, on a per parcel basis, as follows:

APPRAISALS:	\$19,000.00
NEGOTIATIONS:	\$19,500.00

In fulfillment of its project management responsibilities, Santacruz will attend and/or participate in meetings and conference calls for consultations on the project. This will include, without limitation, kick-off meetings, planning discussions, project strategy development and review of parcels with acquisition challenges.

DIRECT EXPENSES RELATED TO LAND ACQUISITION

LPA or Consultant, as the case may be, shall be responsible for any fees and charges related to the acquisitions including, without limitation, (i) the cost of the later date title commitments, (ii) the cost of title insurance policies obtained on the parcels to be acquired, (iii) the cost of recording any necessary documents to complete the conveyance and obtain clear

title, (iv) lender’s fees related to the processing of any partial releases needed to provide clear title, and (v) land trustee processing fees (“Direct Billable Expenses”). If requested by LPA, Santacruz shall pay all Direct Billable Expenses and invoice LPA or Consultant for said Direct Billable Expenses. Santacruz shall be entitled to additional compensation in the amount of said Direct Billable Expenses pursuant to a separate work order issued by LPA or Consultant.

Based on the projected total number of parcels of right-of-way to be acquired for the Project, the land acquisition negotiation services provided herein are offered at a cost not to exceed **\$38,500.00**.

OPTIONAL COVERAGE OF DIRECT EXPENSES

In the alternative, Santacruz shall invoice the LPA or Consultant for any fees and charges related to the acquisitions including, without limitation, (i) the cost of the later date title commitments, (ii) the cost of title insurance policies obtained on the parcels to be acquired, (iii) the cost of recording any necessary documents to complete the conveyance and obtain clear title, (iv) lender’s fees related to the processing of any partial releases needed to provide clear title, and (v) land trustee processing fees. Santacruz shall include **\$900.00** per parcel towards the payment of these charges. Santacruz shall pay any such fees and charges in excess of the **\$900.00** per parcel allowance for which Santacruz Land Acquisitions shall be entitled to additional compensation in the amount of any such payments pursuant to a separate work order issued.

Based on the projected total number of parcels of right-of-way to be acquired for the Project, with the Optional Coverage of Direct Expenses, the land acquisition negotiation services provided herein are offered at a cost not to exceed **\$43,000.00** as follows:

Land Acquisition Services	\$38,500.00
Estimated Direct Billable Expenses	\$4,500.00

The pricing on this proposal shall be good for twelve months from the date of this proposal: September 16, 2025.

See attached for Scope of Services and Team resumes.

We look forward to the opportunity of serving you on this project. If you have any questions, do not hesitate to contact Javier Steve Santacruz at 847-868-9620 or via email at javier@santacruz-associates.com.

Sincerely,



Javier Steve Santacruz

Accepted this ____ day of _____, 2025

Bravo Company Engineering

By: _____

Its: _____

PRICING SCHEDULE

Appraisal Services (per parcel)

Appraisals	\$3,800.00
Revision to appraisal due to change in ROW or plans ¹	\$1,900.00 - \$3,800.00

Negotiation Services (per parcel)

Negotiation and acquisition services for Right of Way including, without limitation, documentation of conveyance of property interest	\$3,900.00
Additional negotiations due to change in ownership or plans ¹	\$2,000.00 - \$3,900.00

Witness Services (if applicable)

Rate for each ½ day in pretrial conference or in court for Negotiator ¹	\$1,000.00
Rate for each ½ day in pretrial conference or in court for Appraiser ¹	\$1,000.00
Hourly rate for consultation not otherwise specifically provided for herein	\$250.00

Title Services (if applicable)

Later date commitment – In addition to actual recording costs + Administrative fee	\$25.00
Title insurance policies – In addition to actual recording costs + Administrative fee	\$25.00
Recording of Documents – In addition to actual recording costs + Administrative fee	\$25.00
Copies of recorded documents – In addition to actual copying costs & research fees + Administrative fee	\$25.00

¹ Requires supplemental work order.

LAND ACQUISITION SCOPE OF SERVICES

Santacruz Land Acquisitions (“Santacruz”) shall provide Right-of-Way Acquisition Services as follows:

- Project Management
- Appraisals
- Negotiations

All services shall be performed at the direction of the County and in accordance with the policies and procedures of IDOT, as applicable, the Federal Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (“Uniform Act”), as amended (49 CFR Part 24), the Illinois Eminent Domain Act (735 ILCS 30) (“Eminent Domain Act”), and the Illinois Code of Civil Procedure (“Code of Civil Procedure”).

- **Notice to Proceed.** Our services start after authorization to proceed from LPA and IDOT (as necessary).
- **Kick-off Meeting.** Santacruz will meet with LPA and Consultant to discuss the Project, identify issues and develop any necessary strategies to assure the timely completion of the Project.
- **Delivery and Review of Project Information.** LPA or Consultant will provide Santacruz 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, LPA or Consultant will also provide Santacruz with a set of project plans, including, (i) plan and profile, (ii) drainage and utilities, (iii) pavement markings and (iv) cross sections.
- **Introductory Notice to Owners.** The appraiser will notify the property owner of the proposed taking and will invite the property owner to be present during the inspection by the appraiser.
- **Appraisal.** The appraiser shall make a detailed inspection of the properties and make such investigations and studies as are consistent with industry standard and necessary to derive sound conclusions for the preparation of appraisal reports. As necessitated by a change of ownership, a revision to the right of way or for condemnation purposes, Santacruz will furnish and deliver updated or revised appraisals pursuant to a separate or supplemental work order.
- **Negotiation and Acquisition.** Santacruz shall commence negotiations after approval by LPA of the appraisals and the amount of just compensation to be offered to the property owner.
 - Before contacting the property owner, Santacruz will prepare and send the introductory letter to the property owner on the LPA’s letterhead.
 - Santacruz will present the property owner with an offer package, which shall contain the Offer to Purchase and other documents to assist the property owner with reviewing the right-of-way request.
 - Santacruz will make all reasonable efforts to complete the acquisition of the right-of-way from the property owner.
 - Santacruz will not have any authority to determine administrative settlements. Santacruz will consult with LPA for approval of any counter offers and upon acceptance by LPA of any such counter-offer, Santacruz will prepare the necessary documentation for administrative settlement.
 - Santacruz will review the title commitment provided for each parcel to determine the liens and encumbrances that will need to be addressed in order to complete the acquisition process for LPA.
 - If, during its discussions with the property owner, errors in the plans are discovered or the property owner requests design changes, Santacruz will immediately notify LPA and Consultant with this information. At any time during negotiations for situations involving design changes, errors in plans or for any other

reason, if requested by LPA or Consultant, Santacruz will cease negotiations on certain parcels until corrected information or further instruction is provided to Santacruz.

- Upon successful negotiations with the property owner, Santacruz will prepare all necessary conveyance documents in order to complete the acquisition and obtain title approval for the property. Santacruz will submit the completed parcel file with original conveyance documents, any documents necessary for title clearance, the Negotiator's Log documenting all negotiation activities, copies of all correspondence with the property owner, title commitments, plats, and all other documentation as required by LPA and IDOT (if applicable).
- **Project Management.** Santacruz shall appoint a Project Manager for this project. The Project Manager will provide proposed project time-line with milestones on delivery. The Project Manager will coordinate all deliverables, keep project on schedule and maintain the channels of communication with the LPA. The Project Manager will attend project kick-off meetings and project status meetings. In addition, when needed, the Project Manager will review construction plans and provide comments. The Project Manager shall provide QA/QC oversight for this contract. In addition to monthly status reports prepared for our clients in which we review the progress of each parcel, Santacruz meets on a bi-weekly basis with its production team to assure that projects are on schedule and proceeding to letting.

The paralegal team at Santacruz reviews every title commitment to alert the negotiator of title concerns and to prepare for title clearance. Also, all conveyance documents prepared by the paralegals are reviewed by the head paralegal and/or the negotiator. Finally, all final packages of settled or condemned parcels are compiled using QA/QC checklist and reviewed by the Project Manager to assure proper completion.

- **Condemnation Support.** Santacruz understands that appearances in court and/or pretrial conferences, which may include depositions, and preparation for litigation or pre-trial conferences may be required by the LPA so that it may complete the acquisition of the property through condemnation. In the event, after making every reasonable effort to contact and negotiate with a property owner, Santacruz is unable to obtain a settlement for the acquisition of the right-of-way, Santacruz shall refer the parcel to the LPA for acquisition by condemnation.

In such case, at the request of LPA or its trial counsel, the Appraiser assigned to appraise the parcel shall make any such appearances or complete such preparation work in order to assist with this process. In addition, at the request of LPA or its trial counsel, the Negotiator assigned to negotiate the parcel shall make any such appearances or complete such preparation work in order to assist with this process. Such requests for trial appearances or condemnation support will be pursuant to a separate or supplemental work order.

THE TEAM

Javier Steve Santacruz – President and Project Manager

Javier has more than 25 years of experience in providing right-of-way services for a variety of governmental agencies. He has assisted on planning of right-of-way during plan development stages, as well as worked as a right-of-way agent in the acquisition and facilitation of right-of-way necessary for the completion of a project. He has extensive experience working with the Illinois Department of Transportation and the Illinois State Toll Highway Authority gaining a thorough understanding of the policies and procedures of those agencies in meeting their right-of-way requirements. Javier has his B.S. in Accounting and a Juris Doctorate from DePaul University.

Jonathan Abplanalp – Vice President and Negotiator

Jonathan graduated from the University of Illinois with a B.S. in Architectural Studies. He has been with Santacruz since 2011 and has experience in all aspects of the land acquisition process. He is approved by IDOT – District 1 as a fee negotiator.

Dylan Santacruz – Vice President and Negotiator

Dylan graduated cum laude from Miami University in Oxford, OH where he obtained a B.S. in Business Analytics. He joined Santacruz in 2021. He is approved by IDOT – District 1 as a fee negotiator.

Agafya Gerovoy – Real Estate Paralegal

Agafya has been with Santacruz since 2017 and is realtor with extensive experience real estate and right-of-way transactions.



222 Northfield Road · Suite 201· Northfield, IL 60093
Telephone: 847.251.5800 | Facsimile: 847.868.9620
www.santacruz-associates.com

Providing Right-of-Way Acquisition services since 1992

PROPOSAL FOR LAND ACQUISITION SERVICES

Culvert #2002 - Deerfield Parkway over Aptakisic Creek Bravo Company Engineering for the benefit of Lake County Division of Transportation

Santacruz Land Acquisitions specializes in negotiating and acquiring parcels of land for right-of-way use by governmental bodies in roadway construction and other public infrastructure projects. Founded in 1992, we have been helping our clients acquire right-of-way on budget and in a timely manner to keep their projects on schedule. We have worked extensively with the Illinois Department of Transportation (IDOT), the Illinois State Toll Highway Authority (ISTHA), Cook County, Lake County, Will County and other local municipalities in facilitating property owners through the acquisition process with great success.

Having extensive experience with right of way projects, we understand the importance of keeping on schedule. On-time lettings gives the Lake County Division of Transportation, the Local Public Agency (“LPA”) the best use of its resources and strengthens the efficiencies in the implementation of its roadway improvement program. To achieve your goals, it is critical that your land acquisition consultant understands the importance and addresses three critical issues in your acquisition of right of way:

- Deliver the right of way on-time to meet the letting.
- Manage the acquisition risks, including the cost of condemnation litigation.
- Compliance with land acquisition policies and procedures and FWA policies that affect the certification and funding of your project.

Santacruz Land Acquisitions (“Santacruz”) will work with the staff for the LPA and/or, Bravo Company Engineering, Engineer for the LPA, (“Consultant”) to develop a land acquisition plan for the reconstruction of the culvert (#2002) for Deerfield Parkway over Aptakisic Creek (the “Project”) to assure that the goals are met.

Santacruz Land Acquisitions is certified as a Disadvantaged Business Enterprise (DBE) by the State of Illinois, Department of Transportation and a Minority Business Enterprise (MBE) with the City of Chicago and Cook County.

COMPENSATION

Santacruz shall be entitled to compensation, based on **three (3)** projected parcels of right-of-way, on a per parcel basis, as follows:

APPRAISALS:	\$11,400.00
NEGOTIATIONS:	\$11,700.00

In fulfillment of its project management responsibilities, Santacruz will attend and/or participate in meetings and conference calls for consultations on the project. This will include, without limitation, kick-off meetings, planning discussions, project strategy development and review of parcels with acquisition challenges.

DIRECT EXPENSES RELATED TO LAND ACQUISITION

LPA or Consultant, as the case may be, shall be responsible for any fees and charges related to the acquisitions including, without limitation, (i) the cost of the later date title commitments, (ii) the cost of title insurance policies obtained on the parcels to be acquired, (iii) the cost of recording any necessary documents to complete the conveyance and obtain clear

title, (iv) lender’s fees related to the processing of any partial releases needed to provide clear title, and (v) land trustee processing fees (“Direct Billable Expenses”). If requested by LPA, Santacruz shall pay all Direct Billable Expenses and invoice LPA or Consultant for said Direct Billable Expenses. Santacruz shall be entitled to additional compensation in the amount of said Direct Billable Expenses pursuant to a separate work order issued by LPA or Consultant.

Based on the projected total number of parcels of right-of-way to be acquired for the Project, the land acquisition negotiation services provided herein are offered at a cost not to exceed **\$23,100.00**.

OPTIONAL COVERAGE OF DIRECT EXPENSES

In the alternative, Santacruz shall invoice the LPA or Consultant for any fees and charges related to the acquisitions including, without limitation, (i) the cost of the later date title commitments, (ii) the cost of title insurance policies obtained on the parcels to be acquired, (iii) the cost of recording any necessary documents to complete the conveyance and obtain clear title, (iv) lender’s fees related to the processing of any partial releases needed to provide clear title, and (v) land trustee processing fees. Santacruz shall include **\$900.00** per parcel towards the payment of these charges. Santacruz shall pay any such fees and charges in excess of the **\$900.00** per parcel allowance for which Santacruz Land Acquisitions shall be entitled to additional compensation in the amount of any such payments pursuant to a separate work order issued.

Based on the projected total number of parcels of right-of-way to be acquired for the Project, with the Optional Coverage of Direct Expenses, the land acquisition negotiation services provided herein are offered at a cost not to exceed **\$25,800.00** as follows:

Land Acquisition Services	\$23,100.00
Estimated Direct Billable Expenses	\$2,700.00

The pricing on this proposal shall be good for twelve months from the date of this proposal: September 16, 2025.

See attached for Scope of Services and Team resumes.

We look forward to the opportunity of serving you on this project. If you have any questions, do not hesitate to contact Javier Steve Santacruz at 847-868-9620 or via email at javier@santacruz-associates.com.

Sincerely,



Javier Steve Santacruz

Accepted this ____ day of _____, 2025

Bravo Company Engineering

By: _____

Its: _____

PRICING SCHEDULE

Appraisal Services (per parcel)

Appraisals	\$3,800.00
Revision to appraisal due to change in ROW or plans ¹	\$1,900.00 - \$3,800.00

Negotiation Services (per parcel)

Negotiation and acquisition services for Right of Way including, without limitation, documentation of conveyance of property interest	\$3,900.00
Additional negotiations due to change in ownership or plans ¹	\$2,000.00 - \$3,900.00

Witness Services (if applicable)

Rate for each ½ day in pretrial conference or in court for Negotiator ¹	\$1,000.00
Rate for each ½ day in pretrial conference or in court for Appraiser ¹	\$1,000.00
Hourly rate for consultation not otherwise specifically provided for herein	\$250.00

Title Services (if applicable)

Later date commitment – In addition to actual recording costs + Administrative fee	\$25.00
Title insurance policies – In addition to actual recording costs + Administrative fee	\$25.00
Recording of Documents – In addition to actual recording costs + Administrative fee	\$25.00
Copies of recorded documents – In addition to actual copying costs & research fees + Administrative fee	\$25.00

¹ Requires supplemental work order.

LAND ACQUISITION SCOPE OF SERVICES

Santacruz Land Acquisitions (“Santacruz”) shall provide Right-of-Way Acquisition Services as follows:

- Project Management
- Appraisals
- Negotiations

All services shall be performed at the direction of the County and in accordance with the policies and procedures of IDOT, as applicable, the Federal Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (“Uniform Act”), as amended (49 CFR Part 24), the Illinois Eminent Domain Act (735 ILCS 30) (“Eminent Domain Act”), and the Illinois Code of Civil Procedure (“Code of Civil Procedure”).

- **Notice to Proceed.** Our services start after authorization to proceed from LPA and IDOT (as necessary).
- **Kick-off Meeting.** Santacruz will meet with LPA and Consultant to discuss the Project, identify issues and develop any necessary strategies to assure the timely completion of the Project.
- **Delivery and Review of Project Information.** LPA or Consultant will provide Santacruz 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, LPA or Consultant will also provide Santacruz with a set of project plans, including, (i) plan and profile, (ii) drainage and utilities, (iii) pavement markings and (iv) cross sections.
- **Introductory Notice to Owners.** The appraiser will notify the property owner of the proposed taking and will invite the property owner to be present during the inspection by the appraiser.
- **Appraisal.** The appraiser shall make a detailed inspection of the properties and make such investigations and studies as are consistent with industry standard and necessary to derive sound conclusions for the preparation of appraisal reports. As necessitated by a change of ownership, a revision to the right of way or for condemnation purposes, Santacruz will furnish and deliver updated or revised appraisals pursuant to a separate or supplemental work order.
- **Negotiation and Acquisition.** Santacruz shall commence negotiations after approval by LPA of the appraisals and the amount of just compensation to be offered to the property owner.
 - Before contacting the property owner, Santacruz will prepare and send the introductory letter to the property owner on the LPA’s letterhead.
 - Santacruz will present the property owner with an offer package, which shall contain the Offer to Purchase and other documents to assist the property owner with reviewing the right-of-way request.
 - Santacruz will make all reasonable efforts to complete the acquisition of the right-of-way from the property owner.
 - Santacruz will not have any authority to determine administrative settlements. Santacruz will consult with LPA for approval of any counter offers and upon acceptance by LPA of any such counter-offer, Santacruz will prepare the necessary documentation for administrative settlement.
 - Santacruz will review the title commitment provided for each parcel to determine the liens and encumbrances that will need to be addressed in order to complete the acquisition process for LPA.
 - If, during its discussions with the property owner, errors in the plans are discovered or the property owner requests design changes, Santacruz will immediately notify LPA and Consultant with this information. At any time during negotiations for situations involving design changes, errors in plans or for any other

reason, if requested by LPA or Consultant, Santacruz will cease negotiations on certain parcels until corrected information or further instruction is provided to Santacruz.

- Upon successful negotiations with the property owner, Santacruz will prepare all necessary conveyance documents in order to complete the acquisition and obtain title approval for the property. Santacruz will submit the completed parcel file with original conveyance documents, any documents necessary for title clearance, the Negotiator's Log documenting all negotiation activities, copies of all correspondence with the property owner, title commitments, plats, and all other documentation as required by LPA and IDOT (if applicable).
- **Project Management.** Santacruz shall appoint a Project Manager for this project. The Project Manager will provide proposed project time-line with milestones on delivery. The Project Manager will coordinate all deliverables, keep project on schedule and maintain the channels of communication with the LPA. The Project Manager will attend project kick-off meetings and project status meetings. In addition, when needed, the Project Manager will review construction plans and provide comments. The Project Manager shall provide QA/QC oversight for this contract. In addition to monthly status reports prepared for our clients in which we review the progress of each parcel, Santacruz meets on a bi-weekly basis with its production team to assure that projects are on schedule and proceeding to letting.

The paralegal team at Santacruz reviews every title commitment to alert the negotiator of title concerns and to prepare for title clearance. Also, all conveyance documents prepared by the paralegals are reviewed by the head paralegal and/or the negotiator. Finally, all final packages of settled or condemned parcels are compiled using QA/QC checklist and reviewed by the Project Manager to assure proper completion.

- **Condemnation Support.** Santacruz understands that appearances in court and/or pretrial conferences, which may include depositions, and preparation for litigation or pre-trial conferences may be required by the LPA so that it may complete the acquisition of the property through condemnation. In the event, after making every reasonable effort to contact and negotiate with a property owner, Santacruz is unable to obtain a settlement for the acquisition of the right-of-way, Santacruz shall refer the parcel to the LPA for acquisition by condemnation.

In such case, at the request of LPA or its trial counsel, the Appraiser assigned to appraise the parcel shall make any such appearances or complete such preparation work in order to assist with this process. In addition, at the request of LPA or its trial counsel, the Negotiator assigned to negotiate the parcel shall make any such appearances or complete such preparation work in order to assist with this process. Such requests for trial appearances or condemnation support will be pursuant to a separate or supplemental work order.

THE TEAM

Javier Steve Santacruz – President and Project Manager

Javier has more than 25 years of experience in providing right-of-way services for a variety of governmental agencies. He has assisted on planning of right-of-way during plan development stages, as well as worked as a right-of-way agent in the acquisition and facilitation of right-of-way necessary for the completion of a project. He has extensive experience working with the Illinois Department of Transportation and the Illinois State Toll Highway Authority gaining a thorough understanding of the policies and procedures of those agencies in meeting their right-of-way requirements. Javier has his B.S. in Accounting and a Juris Doctorate from DePaul University.

Jonathan Abplanalp – Vice President and Negotiator

Jonathan graduated from the University of Illinois with a B.S. in Architectural Studies. He has been with Santacruz since 2011 and has experience in all aspects of the land acquisition process. He is approved by IDOT – District 1 as a fee negotiator.

Dylan Santacruz – Vice President and Negotiator

Dylan graduated cum laude from Miami University in Oxford, OH where he obtained a B.S. in Business Analytics. He joined Santacruz in 2021. He is approved by IDOT – District 1 as a fee negotiator.

Agafya Gerovoy – Real Estate Paralegal

Agafya has been with Santacruz since 2017 and is realtor with extensive experience real estate and right-of-way transactions.