

ILLINOIS DEPARTMENT OF TRANSPORTATION
Request for Approval
of Change in Consultant Contract

Date: 3/22/2022 Local Agency: LAKE COUNTY
Request: No. 2 Name: IL Rte. 59 at Grand Ave.
To: Lake County Division of Transportation Section: 10-00279-01-CH
Consultant: Benesch

I recommend that an addition be made to the above consultant contract.

The estimated work is listed below

Original contract amount for services described:	\$739,049.00
Sum of all previous contract change orders:	\$71,610.00

Item #	Description	Additions	Deductions
1	Amendment to scope of services to include updates to the environmental clearances, new decorative street and pedestrian lighting at the request of the Village, and land acquisition exhibits and coordination based on negotiations with property owners.	\$138,991.00	
TOTALS		\$138,991.00	\$0.00
NET CHANGE		\$138,991.00	\$0.00

Net ADDITION change to date \$210,601.00 which is 28.496 % of the original contract amount for services described

State fully the nature and reason for change:

Please see attached.

Revised contract amount for services described:	\$949,650.00
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When the net increase or decrease in the cost of the contract is \$10,000 or more, or the time of completion is increased or decreased by 30 days or more, one of the following statements shall be checked.

XXX The undersigned determined that the circumstances which necessitated this change were not reasonably foreseeable at the time the contract was signed.

_____ The undersigned has determined that the change is germane to the original contract as signed.

_____ The undersigned determined that this change is in the best interest of the local agency and is authorized by law.

Project Manager/Engineer _____ Date _____

Department Head _____ Date _____

Chief Accounting Specialist _____ Date _____

Approved _____ Date _____
County Engineer



March 22, 2022

Mr. Thomas Somodji
Project Manager
Lake County Division of Transportation
600 Winchester Road
Libertyville, IL 60048

RE: **Phase II Engineering Services
IL Route 59 and Grand Avenue Intersection Improvements
Lake County
Section 10-00279-01-CH**

Dear Mr. Somodji:

With this letter Alfred Benesch & Company is requesting a supplement to the Phase II Engineering Services project at IL Route 59 and Grand Avenue. Additional services are required to address design elements that were not included in the original scope of work, as well as changes needed due to the extended project duration. The original notice to proceed was received in October of 2016 with an anticipated completion date of June of 2018. Currently, the anticipated letting date is in the fall of 2022. A delayed letting into 2023 would not require a further supplement.

The total for supplement is \$138,991 which brings the total contract to \$949,650.00 Additional services included are described in the following paragraphs.

Environmental PESA, PSI/ CCDD, (Huff and Huff) - \$23,266.23

A PESA was previously completed by Huff and Huff in August 2014, which has since expired. Per IDOT BLRS and BDE manuals, PESAs require validation after 180 days have lapsed and a new PESA is required after 3 years have lapsed. Additionally, the project limits have been expanded since August 2014 to include an approximate 400-foot extension at the southern end of Washington Street as well as an approximate 600-foot extension at the western end of Grand Ave. Additional services for a new PESA, PSI and CCDD to complete the contract documents are described in the attached Huff & Huff scope. The total fee is \$28,896.00, with a credit for the \$5,229.77 in the original contract, totaling to \$23,266.23 in additional services required.

Subsurface Utility Investigation (American Surveying and Engineering) – \$11,988.80

The revised Subsurface Utility Investigation reflects updated pricing from the original 2016 proposal to 2021 and is based on the same 2016 scope (Level B distance 220'; 11 cores; traffic control, survey bond, flowable fill). See attached scope from ASE for details. The total fee is \$45,905.00, with a credit for the \$33,916.20 in the original contract, totaling to \$211,988.80 in additional services required.

Decorative and Multi-Use Path Lighting Design – \$43,937.00

The Village of Fox Lake requested lighting modifications within the corridor. The first change is to utilize the Nippersink decorative light poles along Grand Ave and Washington St. The second is to light the multi-use path along Grand Ave, IL Route 59, and Washington Street. The total construction cost of these additions is estimated to be \$631,000. The design fee of this addition equates to 43,938 (338 hours).

ROW Exhibits and Stakeholder Support - \$17,679.00

During ROW negotiations, additional support was required for negotiations with the Moulis family, Timber Oaks parcel and Grant High School. Timber Oaks included exhibit creation denoting the easement and right of way locations; tree impacts; and limits of construction verification along the parcels. Grant High School included two meetings to prepare and create exhibits for the school board presentation. Design and sheet files were exported, prepared, and transferred to the high school's parking lot consultant Eriksson Engineering Associates. The combined effort for these tasks was 136 hours. An additional 40 hours of future meeting time and exhibit creation is included within this item.

Incorporation of Updated Wetland Information - \$5,200.00

The wetland delineation from the Phase I expired. Incorporation of the updated wetland information into the Microstation dgn files, exhibits, impact calculations, plans, and specifications were 40 hours.

Survey and Wetlands Update - \$9,880.00

This effort will incorporate additional pickup survey associated with the subsurface utility investigations. The effort is 44 hours. As noted above, the updated wetland boundaries also require an updated survey, this effort is 32 hours. The total is 76 hours.

IDOT Specification Update and Agency Formatting- \$7,020.00

Following the October 2021 submittal, the project was again delayed. The next round of submittals will require an additional design verification and updating to incorporate recent IDOT 2022 specification changes in effect for a Fall 2022 or 2023 letting. The anticipated effort is 30 hours. If the project were to be moved to an IDOT letting with IDOT funding, the specifications would require reformatting from LCDOT standards to IDOT standards. That reformatting effort is 24 hours. The total for specification modifications is 54 hours.

ESR Renewal - \$3,120.00

Preparation of exhibits, coordination and required documentation for the ESR renewal. The effort is 24 hours.

Site Visit to Verify Existing Conditions - \$3,640.00

Given the time delay a field visit was performed to verify the existing conditions and denote any changes between 2018 and October of 2021. Total field visit time, documentation, and incorporation of data is 28 hours.

Cross Section Spacing at Super Elevated Sections - \$9,100.00

A Lake County Comment requested additional cross sections to be cut at 25' spacing through the super elevated sections to assist in field layout. The original scope was based on IDOT cross section requirements at 50' spacing. With 2,300 feet of super elevated sections, an addition 46 sections will be required. The effort to cut the sections and incorporate them into the existing sheets is 70 hours.

Project Administration/QC Related to Out-of-Scope Items - \$4,160.00

Additional QC effort is required to for out-of-scope items described above, as well as additional administrative time due to the extended contract duration. This total is 32 hours.

We appreciate the opportunity to work with the Lake County Department of Transportation. Please contact Travis Kluegel, P.E., Illinois Group Manager at tkluegel@benesch.com with any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "A. Keaschall".

Andrew Keaschall

Senior Vice President - Illinois Division Manager

COST ESTIMATE OF CONSULTANT SERVICES

Sheet: 1 of 1

Project: Phase II Grand Avenue at IL Route 59

Section: 10-00279-01-CH

Firm: ALFRED BENESCH & COMPANY

Date: March 22, 2022

County: Lake

Overhead Rate: 151.68

Complexity Factor: 0

Job No.: _____

Estimate Prepared By: _____ State _____ Firm _____

Item	Number of Staff hours (A)	Estimated Cost In Dollars					Subtotal (E)	Profit (F)	Ineligible Direct Costs (D1)	Services By Others* (G)	Total (H)	Percent Of Grand Total (I)
		Adjusted Hourly Rate (A1)	Payroll (B)	Overhead Fringe Benefits (C)	Eligible Direct Costs (D)							
PROJECT TASKS												
1.0 Project Coordination		45.50	0	0		0	0			0	0.0	
2.0 Cost Management		45.11	0	0		0	0			0	0.0	
3.0 Civil Plans	586	45.11	26,434	40,096		66,530	9,647		11,989	88,166	63.4	
4.0 Landscaping Plans		43.80	0	0		0	0			0	0.0	
5.0 Public Involvement		43.00	0	0		0	0			0	0.0	
6.0 Submittals		45.45	0	0		0	0			0	0.0	
7.0 Quality Assurance		47.25	0	0		0	0			0	0.0	
8.0 Administration		47.00	0	0		0	0			0	0.0	
9.0 Survey	76	45.11	3,428	5,200		8,628	1,251			9,880	7.1	
10.0 Land Acquisition	136	45.11	6,135	9,306		15,440	2,239			17,679	12.7	
11.0 PESA, CCDD and Geotechnical		45.00	0	0		0	0		23,266	23,266	16.7	
Sub-totals	798		35,998	54,601	0	90,599	13,137	0	35,255	138,991	100.0	



A Subsidiary of GZA

GEOTECHNICAL

ENVIRONMENTAL

ECOLOGICAL

WATER

CONSTRUCTION
MANAGEMENT

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November 5, 2021

via email: JHayes@benesch.com

Ms. Jill Hayes, P.E.
Project Manager
Alfred, Benesch, & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601

**Re: Phase II Special Waste Environmental Services
Grand Avenue at Illinois Route 59 Improvement Project
Village of Fox Lake, Lake County, Illinois
Proposal No. 81.P013087.22**

Dear Ms. Hayes:

Huff & Huff, Inc., a subsidiary of GZA, Inc. (GZA) is pleased to submit this proposal to Alfred, Benesch, & Company (Client) to complete a Phase II Environmental Services for the local roads portion for the Lake County Division of Transportation (LCDOT) Grand Avenue at Illinois Route 59 (IL 59) Improvement Project located within the Village of Fox Lake, Lake County, Illinois. Specifically, Client has requested scope for completing a Preliminary Environmental Site Assessment (PESA), a Preliminary Site Investigation (PSI) including LPC-663 documentation for consideration of off-site final disposition of spoils at a Clean Construction and Demolition Debris (CCDD) facility. This proposal presents our project understanding and the scope of services.

GZA understands that the LCDOT is proposing to reroute Washington Avenue south of the intersection of IL 59 and Grand Avenue, creating a new signalized intersection with IL 59 and the Grant Community High School Entrance as the existing IL 59 at Grand Avenue intersection has several deficiencies, which include congestion and lack of left-turn lanes on IL 59 which lead to difficulty in maneuvering the intersection.

GZA understands the project limits to include the following:

- The existing roadway right-of-way (ROW) along IL 59 beginning approximately 300 feet north of Delvin Road, and extending north/northeast for approximately 3,200 feet;
- The existing roadway ROW along Washington Street beginning approximately 300 feet north of Moulis Terrace and extending north/northwest for to Grand Avenue;
- The existing roadway ROW along Grand Avenue between the IL 59 and Washington Street intersection and Rushmore Road; and
- The area of the proposed rerouted Washington Avenue located north of Moulis Terrace, between IL 59 and the existing Washington Avenue.

In preparing this proposal, GZA has made the following assumptions.

- Access to all areas within the project limits to conduct field investigations will be provided by Client.
- The scope includes completion of a PESA, PSI, and CCDD Documentation for the Local Roads portions of the project limits and does not include sampling or documentation along IL 59.



A PESA was previously completed by GZA (August 2014), which has since expired. Per IDOT BLRS and BDE Manuals, PESAs require validation after 180 days have lapsed and a new PESA is required after 3 years have lapsed. Additionally, the project limits have been expanded since August 2014 to include an approximate 400-foot extension at the southern end of Washington Street as well as an approximate 600-foot extension at the western end of Grand Avenue.

The findings of the 2014 PESA identified eight sites as a potentially impacted property (PIP) that have the potential to affect the local roads portion of the proposed construction, including:

Site Name	PESA Site ID	Address	Reason(s)
Fox Lake Harbor	2	400 E Grand Ave	LUST, SPILL, UST, AST, drums
Vacant Building (former restaurant/possible former gas station)	3	400 Block of East Grand Avenue	Possible former gas station
Grant Community High School	4	285 E Grand Ave	RCRA, UST, LUST, SPILL
Com Ed Substation	6	Between Washington Street and IL 59, south of Grand Avenue	Staining on ground
Munson Marine	9	501 E Grand Ave	ERNS, SPILL, LUST
J&L Oil Inc./Mobil	10	511 E Grand Ave	LUST
Chain O Lakes Marina/Boat Basin Group	11	500 E Grand Ave	UST, NOV, monitoring well
Pearson Automotive	A	272 E Grand Ave	RCRA, UST, LUST, SPILL

Additionally, GZA conducted a PESA in February 2018 which extended along Grand Avenue approximately 1.3 miles west of the intersection with Route 59 (inclusive of portions of the project limits). The February 2018 PESA identified PIPs among which included:

Site Name	PESA Site ID	Address	Reason(s)
Fox Lake #2 ESS /AT&T	28	277 E Grand Ave	UST
Pearson Automotive	29	272 E Grand Ave	LUST, RCRA, SPILLS, UST
Grant Community High School	31	285 E Grand Ave	LUST, RCRA, SPILLS, UST
Fox Lake Harbor	32	400 E Grand Ave	LUST, SPILLS, UST
Chain O Lakes Marina/Boat Basin Group	33	500 E Grand Ave	AST, UST, LUST, SPILLS, SPILLS2
Munson Marine	35	501 E Grand Ave	ERNS, Boat Sales/ Service
J&L Oil Inc./Mobil	36	511 E Grand Ave	LUST, SPILLS, UST



1. SCOPE OF SERVICES

GZA will provide the following scope of services for the proposed project:

Task 1 – Preliminary Environmental Site Assessment (PESA)

Since the previous PESA has expired, a new PESA will be completed for local roads portions of the project and the process will follow general protocols contained within:

- A Manual for Conducting Preliminary Environmental Site Assessments for Illinois Department of Transportation (IDOT) Highway Projects (Erdmann et al., 2012)
- ASTM International (ASTM) standard 1527-13
- The IDOTs Bureau of Design and Environment (BDE) Procedure Memorandum Number 10-07, *Special Waste Procedures*. This memo was incorporated into Chapter 27-3 of the IDOT BDE Manual in June 2012.
- IDOT Bureau of Local Roads and Streets (BLRS) Manual, Chapter 20-12, *Special Waste*, July 2013.
- Public Act 96-1416
- Clean Construction or Demolition Debris Fill Operations (CCDD) and Uncontaminated Soil Fill Operations: Amendments to 35 Illinois Administrative Code 1100. Effective on August 27, 2012.

A. Historical Research

The site's historical land use/ownership record will be developed from standard historical sources. Historic aerial photographs will be reviewed to identify land use over time and potential areas of environmental concern, such as areas of surface disturbance and outside storage.

B. Site Evaluation

Current environmental features and conditions of sites adjacent to the right-of-way/project area will be evaluated. A site walkover of potential right-of-way/project areas designated for excavation and/or acquisition will be conducted for first-hand evaluation of current environmental conditions within the project limits. All of the features and conditions listed above will be investigated and, as appropriate, documented in photographs. The land-use and housekeeping practices of adjacent properties also will be evaluated in accordance with ASTM protocols.

C. Records Review

A new database will be obtained for the project corridor and we will compare the findings of the original PESA to the current findings.

A records review will be conducted to determine potential environmental concerns within the study area. It will include a search of standard state and federal environmental record databases in accordance with the specifications of ASTM standards. This search is based on the outline of the study area.

Specifically, Consultant will search each database to identify any potential sources requiring further investigation. As appropriate, Freedom of Information Act (FOIA) requests will be filed with the IEPA to obtain additional data pertaining to identified sites.

D. Report Preparation

A PESA Report summarizing the results of the evaluation will be prepared. The following information will be included in this report:

- a) The project location and description



- b) Historical uses of corridor.
- c) The area geology and hydrology.
- d) The environmental status of sites adjacent to the corridor regarding chemical use and storage, underground and aboveground storage tanks, solid waste, special waste, and hazardous waste, and PCBs.
- e) An analysis of the site inspection.
- f) A summary of the findings regarding environmental concerns. This will include IDOT's BDE Manual Chapter 27-3, Special Waste Procedures, and identification of Potentially Impacted Properties (PIPs) per Subpart F, Section 1100, 35 IAC, related to Clean Construction or Demolition Debris management.
- g) Comparison of current findings to findings from the prior PESA.

Task 2 – Preliminary Site Investigation (PSI) / CCDD

A. Soil Borings and Soil Sampling

It is anticipated that one (1) day of field effort will be required with up to fifteen (15) soil borings completed, assumed with the aid of a drilling (GeoProbe) subcontractor with the aid of traffic control services. The borings will be advanced and soil samples collected for laboratory analysis to address sites identified as RECs/PIPs and for additional project coverage of non-REC/PIP for soil disposal considerations, specifically at locations identified for proposed excavation. The depths of the soil borings will be dependent upon design details to account for depths of proposed disturbance. Consultant will finalize depths of planned borings prior to mobilization consistent with project plans as provided by Client, in conjunction with PESA findings.

Currently, it is estimated that borings will be advanced to maximum depths of approximately 8 to 10 feet below ground surface. Soils will be collected in 2-foot intervals for field screening and select samples prepared for laboratory analysis as discussed below. It is anticipated that soil samples will be submitted to the analytical laboratory for intervals of 0 to 5 bgs and 5 to 10 feet bgs, with up to one interval analyzed per boring. Based on dense vegetation within the areas of the proposed borings for Washington Street, collection of samples using hand auger methods may be necessary. Hand auger sampling may result in collection of samples from limited depths. Additionally, this task assumes that hand auger sampling will be completed when frost is absent from the soils, generally corresponding with sampling during the months of April to November.

B. Analytical

A total of fifteen (15) soil boring locations are proposed and we anticipate collecting up to one (1) sample in each of the borings, for a total of up to fifteen (15) samples total, dependent upon the total depth of improvements at a given location. The soil samples will be analyzed for the contaminants of concern (COCs) per IDOT protocol, which include:

- 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)
- Soil pH

C. PSI Report Preparation

A report summarizing the results of the soil and sediment sample collection activities and analytical results will be prepared. This document will present information pertinent for the bidding documents regarding conditions of soils tested, handling and final disposition considerations. Time has also been included to assist Client in preparing draft special



provisions and pay items associated with the soil classifications identified in the PSI report consistent with IDOT Article 669.05.

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

The soil sample results will be compared to the Maximum Allowable Concentrations (MACs) associated with CCDD facility acceptance, including the soil pH range of 6.25 to 9.0. If results achieve the MAC values, GZA will prepare the LPC-663 document that will be signed/stamped by GZA. Locations that do not achieve the MACs (including soil pH range) will be identified as exclusion zones, not acceptable for CCDD facility disposal. Consistent with IDOT spoils management, exclusion zones within any of the soils within the borings will be considered to include the full excavation depth.

GZA will coordinate with up to three CCDD facilities to request pre-approval of CCDD acceptable soils, consistent with historical requested by Lake County DOT.

Task 3 – Project Management

Time under this task includes project administration and management activities that include cost and schedule tracking, coordination with Client on authorized activities, and other in-house management activities, and project closeout.

Task 4 – QA/QC

Time under this task includes QA/QC time for the PESA, PSI reports and CCDD documentation as described above.

2. LEVEL OF EFFORT AND SCHEDULE

PESA work will commence within two (2) business days of project approval, with a target completion date of five (5) weeks from the date of approval. The PSI/CCDD work will commence within two (2) business days of the notice to proceed (NTP) and will require eight (8) weeks to complete.

3. 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.

GZA is submitting this proposal with the belief that we will be able to fulfill the scope requirements during this COVID-19 Pandemic crisis. If performance is rendered impossible because of the impacts of COVID-19, GZA will notify Client of that Force Majeure event.



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,

GZA, Inc.

Jeremy J. Reynolds, P.G.
Associate Principal

Attachments: Terms and Conditions

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 _____.

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.

**TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES
Including Site Investigation, Remediation, Geotechnical, Construction, And Testing**

© 2021 by GZA GeoEnvironmental, Inc.

These Terms and Conditions, together with GZA’s Proposal, make up the Agreement between GZA and you, Client, named in the attached proposal.

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

1. **Services.** GZA will perform the services set forth in its Proposal and any amendments or change orders authorized by you. 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.



2. Standard of Care; Warranties.

- a. GZA will perform the 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.
- b. GZA warrants that its construction services will be of good quality, free of faults and defects and in conformance with the Proposal.
- c. **EXCEPT AS SET FORTH IN SUBSECTIONS 2a AND 2b, ABOVE, 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 ORAL OR WRITTEN REPORTS.**
- d. 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.

3. 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. Overdue payments will bear interest at 1½ percent per month or, if lower, the maximum lawful rate. GZA may terminate its 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.

4. Your Responsibilities.

- a. Except as otherwise agreed, you will secure the approvals, permits, licenses and consents necessary for performance of the services. 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 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. Unless otherwise indicated in writing, GZA will be entitled to rely on documents and information you provide.
- b. If you use the services of a construction manager at the Site, you agree to use best and reasonable efforts to include in your agreement(s) with the construction contractor provisions obligating the latter:
 - (i) to indemnify and hold harmless, to the fullest extent permitted by law, you and GZA, its officers, employees and principals, for or on account of any claims, liabilities, costs and expenses, including attorneys' fees, arising out of or relating to the design or implementation of construction means, methods, procedures, techniques, and sequences of construction, including safety precautions or programs, of the contractor, or any of its subcontractors or any engineer engaged by it;
 - (ii) to name you and GZA as additional insureds under general liability and builder's risk insurance coverages maintained by the contractor, or any of its subcontractors; and
 - (iii) to require that all of its subcontractors agree and be bound to the obligations set forth in (i) and (ii) above.
- c. In the event that you are unable to secure such provisions in the agreement(s) with the construction contractor, you shall promptly notify GZA and GZA shall have the opportunity to negotiate with you reasonable substitute risk allocation and insurance indemnities and protections.



5. Right of Entry; Site Restoration. You grant 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 GZA for any claims by the Site owner related to alleged trespass by GZA or its subcontractors. GZA will exercise reasonable care to limit damage to landscaping, paving, systems and structures at the Site that may occur and you agree to compensate GZA for any restoration it is asked to perform, unless otherwise indicated in the Proposal.

6. Underground Facilities. GZA's only responsibility under this Section 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:

- (i) that are not correctly shown on any plans and information you or governmental authorities provide to GZA; or
- (ii) that are not correctly marked by the appropriate utility.

7. Reliance. The services, information, and other data furnished by you shall be at your expense, and 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.**

8. 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.

9. 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, 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.

10. Hazardous Materials; GZA "Not a Generator". Before any hazardous or contaminated materials are removed from the Site, you will sign manifests naming you as the generator of the waste (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 waste is taken. GZA will not be the generator or owner of, nor will it possess, take title to, or assume legal liability for any hazardous or contaminated materials 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 hazardous or contaminated materials at or removed from the Site, other than any laboratory samples it collects or tests. You agree to defend, indemnify and hold GZA 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 hazardous waste.

11. 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.



12. Changed Conditions.

- a. You recognize the uncertainties related to environmental and geotechnical services, which often require a phased or exploratory approach, with the need for additional services becoming apparent during the initial services. You also recognize that actual conditions encountered may vary significantly from those anticipated, that laws and regulations are subject to change, and that the requirements of regulatory authorities are often unpredictable.
- b. 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.
- c. If no agreement can be reached, GZA will be entitled to terminate its 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.

13. 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.

14. 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.

15. 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 its services; (b) to comply with professional standards to protect public health, safety and the environment; and (c) to comply with laws and court orders. 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.

16. 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.

17. Indemnification. You agree to hold harmless, indemnify, and defend GZA and its affiliates and subcontractors and their employees, officers, directors and agents (collectively referred to in this paragraph as "GZA") 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.

18. 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 and subcontractors and their employees, officers, directors and agents (collectively referred to in this paragraph as "GZA") for all claims arising out of this Agreement or the services is limited to \$50,000 or, if greater, 10% of the compensation received by 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 will be deemed waived unless received by GZA within one year of substantial completion of the services.
- d. GZA will not be liable for lost profits, loss of use of property, delays, or other special, indirect, incidental, consequential, punitive, exemplary, or multiple damages.
- 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.

19. Disputes.

- a. 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 limitation period would expire if suit were not filed prior to such forty-five (45) days after service of notice.

20. Miscellaneous.

- a. Illinois law shall govern this Agreement.
- 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 cause.
- c. Any amendment to these Terms and Conditions must be in writing and signed by both parties.
- d. Having received these Terms and Conditions, your oral authorization to commence 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.
- 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 or reimbursement 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. The provisions of this Agreement are severable; if any provision is unenforceable it shall be appropriately limited and given effect to the extent it is enforceable.
- 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.



Local Public Agency Village of Fox Lake	County Lake	Section Number 10-00279-01-CH
Consultant (Firm) Name Huff & Huff / GZA	Prepared By S. Cuplin / J. Novak	Date 11/5/2021

PAYROLL ESCALATION TABLE

CONTRACT TERM	16	MONTHS	OVERHEAD RATE	182.42%
START DATE	11/8/2021		COMPLEXITY FACTOR	
RAISE DATE	3/1/2022		% OF RAISE	2.00%
END DATE	3/7/2023			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	11/8/2021	3/1/2022	4	25.00%
1	3/2/2022	3/1/2023	12	76.50%

The total escalation = 1.50%

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

Village of Fox Lake

Lake

10-00279-01-CH

MAXIMUM PAYROLL RATE 78.00**ESCALATION FACTOR** 1.50%**PAYROLL RATES**

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Associate Principal II	\$69.10	\$70.14
Associate Principal I	\$62.14	\$63.07
Senior Consultant	\$70.16	\$71.21
Senior Project Manager III	\$61.88	\$62.81
Senior Project Manager II	\$50.21	\$50.96
Senior Project Manager I	\$43.74	\$44.40
Senior Landscape Architect	\$55.01	\$55.84
Senior Planning PM	\$51.85	\$52.63
Senior Geologist PM	\$54.03	\$54.84
Senior Technical Specialist I	\$50.43	\$51.19
Senior Scientist PM II	\$51.49	\$52.26
Senior Technical Scientist	\$48.82	\$49.55
Scientist PM II	\$46.53	\$47.23
Scientist PM I	\$39.16	\$39.75
Assistant PM Scientist	\$32.81	\$33.30
Environmental Engineer PM I	\$42.37	\$43.01
Geotechnical Engineer PM I	\$39.19	\$39.78
Architect PM	\$45.19	\$45.87
Assistant PM Engineer I	\$38.89	\$39.47
Engineer I	\$29.63	\$30.07
Scientist E1	\$29.93	\$30.38
Scientist E2	\$24.72	\$25.09
Technical Graphics Technician	\$24.60	\$24.97
Administrative Managers	\$44.42	\$45.09
Senior Administrative Assistant	\$31.22	\$31.69
Lead Word Processor	\$38.77	\$39.35

Local Public Agency Village of Fox Lake	County Lake	Section Number 10-00279-01-CH
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SUBCONSULTANTS

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

NAME	Direct Labor Total	Contribution to Prime Consultant

Total **0.00** **0.00**

Local Public Agency

Village of Fox Lake

County

Lake

Section Number

10-00279-01-CH

COST ESTIMATE WORKSHEET

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

OVERHEAD RATE 182.42%

COMPLEXITY FACTOR 0

TASK	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	DIRECT COSTS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Task 1: PESA	43	1,384	2,524	571	457	0	4,936	17.32%
Task 2: PSI/CCDD	74	2,539	4,632	9,053	838	4,250	21,312	74.79%
Task 3: Project Management	3	180	328	0	59	0	567	1.99%
Task 4: QAQC	9	533	972	0	176	0	1,681	5.90%
		-	-		-		-	
Subconsultant DL					0		-	
TOTALS	129	4,636	8,456	9,624	1,530	4,250	28,496	100.00%

13,092

Local Public Agency

Village of Fox Lake

County

Lake

Section Number

10-00279-01-CH

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultants Services Worksheet Fixed Raise

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Task 1: PESA			Task 2: PSI/CCDD			Task 3: Project Management			Task 4: QAQC					
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Associate Principal II	70.14	6.0	4.65%	3.26				2	2.70%	1.90	1	33.33%	23.38	3	33.33%	23.38			
Associate Principal I	63.07	0.0																	
Senior Consultant	71.21	0.0																	
Senior Project Manager III	62.81	0.0																	
Senior Project Manager II	50.96	0.0																	
Senior Project Manager I	44.40	0.0																	
Senior Landscape Architect	55.84	0.0																	
Senior Planning PM	52.63	3.0	2.33%	1.22										3	33.33%	17.54			
Senior Geologist PM	54.84	8.0	6.20%	3.40				3	4.05%	2.22	2	66.67%	36.56	3	33.33%	18.28			
Senior Technical Specialist I	51.19	0.0																	
Senior Scientist PM II	52.26	0.0																	
Senior Technical Scientist	49.55	3.0	2.33%	1.15	1	2.33%	1.15	2	2.70%	1.34									
Scientist PM II	47.23	0.0																	
Scientist PM I	39.75	18.0	13.95%	5.55	6	13.95%	5.55	12	16.22%	6.45									
Assistant PM Scientist	33.30	0.0																	
Environmental Engineer PM I	43.01	0.0																	
Geotechnical Engineer PM I	39.78	0.0																	
Architect PM	45.87	0.0																	
Assistant PM Engineer I	39.47	0.0																	
Engineer I	30.07	0.0																	
Scientist E1	30.38	80.0	62.02%	18.84	30	69.77%	21.19	50	67.57%	20.53									
Scientist E2	25.09	0.0																	
Technical Graphics Technician	24.97	8.0	6.20%	1.55	4	9.30%	2.32	4	5.41%	1.35									
Administrative Managers	45.09	1.0	0.78%	0.35	1	2.33%	1.05												
Senior Administrative Assistant	31.69	0.0																	
Lead Word Processor	39.35	2.0	1.55%	0.61	1	2.33%	0.92	1	1.35%	0.53									
		0.0																	
TOTALS		129.0	100%	\$35.93	43.0	100.00%	\$32.18	74.0	100%	\$34.31	3.0	100%	\$59.94	9.0	100%	\$59.20	0.0	0%	\$0.00

HUFF & HUFF, INC.
SUMMARY OF DIRECT COSTS
 Project: Benesch Grand Avenue Fox Lake

						<u>DIRECT</u>
Task 1 - PESA						
Trips	55 miles	x	2 x	\$ 0.56	= \$	61.60
Tolls			6 x	\$ 1.50	= \$	9.00
Database Package			1 x	\$ 500.00	= \$	500.00
Task Total						\$ 570.60
 Task 2 - PSI/CCDD						
Trips	55 miles	x	4 x	\$ 0.56	= \$	123.20
Tolls			12 x	\$ 1.50	= \$	18.00
Field Kit	1 day	x	1 x	\$ 30.00	= \$	30.00
PID	1 day	x	1 x	\$ 100.00	= \$	100.00
GPS	1 day	x	1 x	\$ 100.00	= \$	100.00
22 Metals total	1 ea	x	15 x	\$ 112.50	= \$	1,687.50
SPLP metals	1 ea	x	15 x	\$ 116.00	= \$	1,740.00
TCLP Metals	1 ea	x	15 x	\$ 116.00	= \$	1,740.00
VOCs	1 ea	x	15 x	\$ 72.50	= \$	1,087.50
SVOCs	1 ea	x	15 x	\$ 145.00	= \$	2,175.00
pH	1 ea	x	15 x	\$ 16.80	= \$	252.00
			0 x	\$ -	= \$	-
Task Total						\$ 9,053.20
 Task 3 - Project Management						
						0 x \$ - = \$ -
Task Total						\$ -
 Task 4 - QAQC						
						0 x \$ - = \$ -
Task Total						\$ -
GRAND TOTAL						\$ 9,623.80

HUFF & HUFF, INC.
SUMMARY OF SERVICES BY OTHERS
Project: Benesch Grand Avenue Fox Lake

	<u>OUTSIDE</u>		
Task 1 - PESA	<hr/>	Task Total	\$ -
Task 2 - PSI/CCDD			
Driller (day)	1 x	\$ 2,250.00 =	\$ 2,250.00
<u>Traffic Control (day)</u>	1 x	<u>\$ 2,000.00 =</u>	<u>\$ 2,000.00</u>
		Task Total	\$ 4,250.00
Task 3 - Project Management			
<hr/>	0 x	\$ - =	\$ -
		Task Total	\$ -
Task 4 - QAQC			
<hr/>	0 x	\$ - =	\$ -
		Task Total	\$ -
<hr/>			
		GRAND TOTAL	\$ 4,250.00



October 20, 2021

Travis Kluegel
Benesch
35 W. Wacker Drive, Suite 3300
Chicago, Illinois 60601

Re: SUE Level A Pricing Request for IL Rte. 59 and Grand Ave., intersection improvement in Fox Lake, IL. (ASE No. 216165U)

Mr. Kluegel:

American Surveying & Engineering, P.C. (ASE) offers to perform the SUE Level A survey as outlined in the accompanying scope for a lump sum fee of **\$45,905.00**.

The IDOT Permit could take a month or more to be approved.

Thank you for allowing us to propose on this important project.

Sincerely,

American Surveying & Engineering, P.C.

Coventine Fidis, President/CEO

Visit our website at: www.americansurvey.com

30 N. LaSalle Street | Suite 3440 | Chicago, IL 60602 | 312-277-2000 | FAX 312-277-2002
841 N. Galena Ave. | Dixon, IL 61021 | 815-288-6231 | FAX 815-288-6277
1548 N. Bond Street. | Suite 105 | Naperville, IL 60563 | 630-897-4105 | FAX 630-897-4121

Supplemental Scope



PROJECT SUMMARY

Project Name: SUE QLA Investigation – Fox Lake

ASE Proposal No. 216165 Update

Owner: IDOT

Date: October 20, 2021

Agent: Benesch

Revision Date:

Project Description – Provide Subsurface Utility Engineering Quality Level A Test Holes to confirm depth of utilities for an Engineering Design of the intersection of Grand Ave., and IL. Rte. 59 in The Village of Fox Lake, IL.

Project Limits – Eleven (11) SUE QL A test holes will be performed at locations to be determined by Benesch.

GENERAL CONDITIONS AND SCOPE ASSUMPTIONS

1. All professional services will be performed to appropriate Minimum Standards of practice and Section 1270.56, Minimum Standards of Practice for surveys in Illinois.
2. Subsurface Utility Engineering (SUE) standards referred to within this scope of work are in accordance with the CI/ASCE 38-02 Standard Guideline for the Collection & Depiction of Existing Subsurface Utility Data.
3. American Surveying & Engineering shall not be responsible for any erroneous information provided by underground utility providers.
4. All previous and relevant survey information such as Preliminary Surveys and construction plans if available and will be provided to ASE at no cost prior to starting the work.
5. Owner/Agent will provide a Letter of Introduction to facilitate field operations.
6. Hazardous Waste sites designated as requiring protective equipment “Class D” or greater will not be entered unless provided for otherwise in the Scope of Work Tasks.
7. American Surveying & Engineering is not signatory to any organized labor agreements. We will not provide services in any capacity where labor disputes may exist. We will not be responsible for costs or delays associated with labor disputes relevant to work on this project.
8. Field work performed on this project is subject to the vagaries of weather. In the event weather impairs our ability to perform any specified professional services, we will contact the Owner/Agent to determine changes in schedule or cost. No additional work will be performed until the Owner/Agent has reviewed and approved a revised cost or schedule.
9. If additional permit fees are required for access, we will contact the agent before proceeding.
10. This proposal is based on the assumption that 11 SUE Level A vacuum excavation exposures-will be necessary.

11. Level A exposures will be billed as direct costs at the following rates: This proposal assumes 11 SUE QL A exposures of 3.00-6.00 feet deep will be required. **ASE will bill for the actual number and depth of SUE Level A Exposures performed.**
 - a. Location holes 0-3.00 feet in depth will be billed at \$1,382.00 per hole.
 - b. Location holes 3.01-6.00 feet in depth will be billed at \$1,898.00 per hole.
 - c. Location holes 6.01-12.00 feet in depth will be billed at \$2,808.00 per hole.
 - d. Location holes 12.01-18.00 feet in depth will be billed at \$3,626.00 per hole.
 - e. Location holes 18.01 feet and over will be billed on an hourly rate.
12. This proposal does not assume any matting will be needed for excavations. If matting is necessary, that would be for an additional cost.

PROPOSED TASKS

1. Administration
 - 1.1. Meetings with Owner or Agent, including in-house meetings. Progress Reports, scheduling, invoicing and other project administrative tasks.
 - 1.2. Technical direction of staff.
 - 1.3. Project Management, resource coordination.
 - 1.4. Submit IDOT Permit
2. Document Compilation
 - 2.1. Obtain relevant project documents from Owner/Agent.
 - 2.2. Compile, review, and index information.
 - 2.3. Prepare compiled information for field and office tasks.
3. SUE Quality Level A Exposures - A total of 11 locations are anticipated.
 - 3.1. Call JULIE and schedule locate.
 - 3.2. Perform SUE Quality Level B to confirm location of the utility prior to the Level A Exposures.
 - 3.3. Perform Air vac excavation to expose specified utilities.
 - 3.4. Sketch location of QLA including depth of cover.
 - 3.5. Survey location of utility.
4. QA/QC
 - 4.1. Review contract documents and survey requirements to verify ASE project QA/QC requirements. Create project-specific QA/QC plan.
 - 4.2. Periodic project review to assure compliance with policy and contract documents.

DELIVERABLES

- Field sketch of QLA location with depth of cover.
- Spreadsheet of x, y, z of top center and width of utility.

DIRECT COST ITEMS

- A. Surety Bond - \$10,000 bond. - \$100 for bond.
- B. Traffic control. (Assume 11 days at \$1,000 per day. = \$11,000).

- C. Coring unit cost (Assume 11 cores at \$436/ea. = \$4,796).
- D. Level B (Assume 220 feet at \$2.67/foot = \$587.40).
- E. Flowable fill (Assume 11 at \$300/hole = \$3,300).

ITEMS SUPPLIED BY OTHERS

- A. Record plans, including any previous survey information (if available).
- B. Any and all pertinent site information including, but not limited to previous horizontal and vertical survey control survey information, boundary surveys, existing aerial photography, Right-of-Way plans, centerline alignment, construction plans, and plats of highway will be furnished to ASE, at no cost to ASE, prior to commencement of field operations.
- C. Permission and access to closed or locked areas requiring access to complete the survey.
- D. Letter of Introduction and written authorization for access to subject property for ASE's services on subject site.
- E. Project horizontal and vertical control.