

April 28, 2023
Project No. 211415

Tom Komlanc, PE
City Engineer
City of Gahanna Ohio
Department of Public Service and Engineering
200 South Hamilton Road
Gahanna, OH 43230
Email: tom.komlanc@gahanna.gov

**Proposal for Professional Consulting & Design Services
Creekside Garage Flood Impact Mitigation
Gahanna, Ohio**

Dear Tom:

Fishbeck is pleased to provide this proposal for professional consulting and design services for the Creekside Garage Flood Impact Mitigation project.

Project Understanding

The Creekside Development is a keystone of Gahanna's historic downtown, supporting strong pedestrian and vehicular connectivity. The development was constructed in the mid-2000s along Big Walnut Creek and includes multiple buildings, uses, and ownership. The three privately owned buildings were constructed with finish floor elevations at least one foot above Big Walnut Creek's 100-year base flood elevation, while the parking floor elevation is more than ten feet below the 100-year base flood elevation.

The primary focus of this project is to improve the Creekside Development's flood protection measures to meet NFIP standards. This includes mitigating flood impacts on the public parking garage, public plaza, and systems within the parking garage that support the private buildings above. Relatedly, opportunities for improving or replacing infrastructure and public plaza amenities will be studied and implemented.

The previous and initial phase of the project included the review of existing conditions and determined recommendations for improvement. The resulting conclusions and recommendations have been documented in the Flood Impact Mitigation Report.

Project Scope

The scope of this proposal includes design, bidding, and construction administration services for the project scope outlined in the Creekside Garage Flood Impact Mitigation report prepared by Fishbeck, dated August 12, 2022, and for the reconstruction of the Creekside Plaza.

Our understanding of the scope of services is summarized in this section and the attached proposals from Fishbeck's subconsultants. The outcome of the public outreach and engagement process will determine the plaza reconstruction scope. As such, the design and consulting fees provided for design and construction administration services are estimated for an assumed plaza construction cost budget of approximately \$11 Million. This assumed construction cost budget is based on renderings provided by POD Design and includes replacement of the structured plaza's waterproofing system and drainage improvements. Design and consulting fees may need to be revised for the final plaza reconstruction scope at the conclusion of the public engagement and conceptual design phase.

A parking structure evaluation may be performed as an optional service and the scope is summarized at the end of this section.

Plaza Public Engagement and Conceptual Design – Approximately 20 Weeks

Public Relations

1. Communications on call consulting for project information that may need to be shared with stakeholders and the public. As requested, an allowance has been included for public relations consulting that is outside the scope of the plaza public outreach.

Public Engagement

1. POD Design will lead the public engagement process as outlined in their attached proposal.
2. Fishbeck will be responsible for overall project management, attend progress meetings chaired by POD Design, and participate in the public outreach process as appropriate, including up to two onsite meetings.
3. Fishbeck will provide a 3D model of the existing site conditions to assist with graphics and conceptual design. The model will be created from the point cloud generated by our previously completed LiDAR survey and will be available in both Revit and Sketchup formats.

Construction Documents – Approximately 44 Weeks plus Bidding

Public Relations

1. Communications on call consulting for project information that may need to be shared with stakeholders and public. As requested, an allowance has been included for public relations consulting.

Construction Documents for Plaza Reconstruction and Flood Impact Mitigation Improvements

1. Coordinate the work of the design team to confirm conformance with project requirements.
2. Chair a virtual kickoff meeting and bi-weekly progress coordination meetings, including up to two onsite meetings.
3. Perform a site visit(s) as necessary to review existing conditions and confirm design, including an evaluation of the existing plaza waterproofing system.
4. Prepare Schematic Design, Design Development, and final Construction Documents, including all plans, details, specifications, and information necessary for the plaza reconstruction and construction of the flood impact mitigation improvements. Intermediate submittals for City review and QAQC are anticipated at 30%, 60%, and 90% document completion.
5. The Creekside Garage Flood Impact Mitigation Report outlines recommended flood improvements to dry-floodproof the development. The recommended improvements included are as follows:
 - a. Restoration, replacement, and additional clay cap installations on the west side of the development.
 - b. Relocate or construct protected area wells for mechanical ventilation openings located below the design flood elevation.
 - c. Strengthen the existing CMU pump room walls to withstand the required soil and hydrostatic pressures.
 - d. Where inadequate, seal or plug penetrations in the exterior concrete foundation walls below the design flood elevation.
 - e. Infill door openings below the design flood elevation where convenient and not required for egress to limit the extent of temporary flood walls that need to be installed in a flood event.
 - f. Install pressure relief devices in the lowest level parking slab as an extra measure of protection against damage from hydrostatic pressures. With clay cap improvements and per SME's groundwater analysis, additional slab-on-grade improvements should not be required.
 - g. Refurbish the existing temporary flood wall assemblies' seals and hardware to reduce water intrusion.
 - h. Strengthen temporary flood wall supports where inadequate.
 - i. Install backflow prevention devices in stormwater utility piping.

- j. Install backwater valves in the sanitary piping that connects to any floor drains or fixtures in the parking structure.
 - k. Relocate the domestic water booster pump and the fire booster pump above the design flood elevation. A pump room could be constructed in the above grade parking structure to house both systems.
 - l. Relocate the natural gas service entrances for Buildings A and B/C above the design flood elevation.
 - m. Relocate the fuel tank that supplies the generator for Building A. A room could be constructed in the above-grade parking structure to house the fuel tank.
 - n. Add water sensors in the elevator pits.
6. The plaza reconstruction scope will be further defined during the public engagement phase.
 7. A topographic and boundary survey was performed during the previous project phase. Additional survey work is not included but can be provided in a separate proposal if necessary.

Bidding and Permitting

1. Consult with project team during the bidding and procurement phase, answer questions, and prepare addenda as required.
2. Submit all necessary documents and coordinate the required permit and approval processes.

Construction Cost Estimating and Phasing

1. Prepare cost estimates for each design phase submittal.
2. Provide consulting for construction phasing based on City schedule priorities with consideration for impacts on surrounding areas.

Construction Administration – Approximately 24 Months

1. Attend preconstruction meeting to review specifications and design requirements with contractors.
2. Participate in progress meetings.
3. Participate in pre-installation meetings and other meetings as necessary for communication of project expectations.
4. Review appropriate shop drawings and submittals required by the technical specifications during the construction phase of the project. Such review will be for general conformance with the design concept of the project and general compliance with the information given in the Construction Documents.
5. Provide ongoing consultation throughout the construction phase. Assist in preparing clarifications and interpretations of the contract documents and responding to contractor Requests for Information (RFIs) as required.
6. Assist in preparing and reviewing bulletin items to document changes in the work.
7. Conduct construction observation visits at intervals deemed appropriate for timely and proper performance of the work. Site visits anticipated are as follows:
 - a. Project Manager – 6 Site Visits
 - b. Civil – 3 Site Visits
 - c. Structural – 3 Site Visits
 - d. Architectural – 3 Site Visits
 - e. Mechanical/Plumbing – 3 Site Visits
 - f. Electrical – 3 Site Visits
 - g. Landscape Architect – Refer to attached POD Design proposal
8. Review materials testing reports, including geotechnical, soil compaction, and concrete quality.
9. Review and approve contractor applications for payment.
10. Prepare certificate of substantial completion.
11. Assist in preparing the punch list.
12. Prepare record drawings based on documentation provided by contractors.
13. Develop a Flood Emergency Operations Plan.

14. Develop a Flood Inspection and Maintenance Plan.
15. Exclusions:
 - a. Design and detailing required during the construction phase to address contractor means and methods or issues created by the contractor.
 - b. Demolition of existing buildings.
 - c. Special inspections and materials testing.
 - d. Zoning/variance approval representation.

Optional Services – Parking Structure Evaluation

Coordination

1. Conduct a virtual kick-off meeting with appropriate City staff to review the project objectives, including scope, deliverables, and schedule.
2. Establish guidelines for the field investigation to minimize interferences with parking operations.

Research

1. Review existing parking structure documents, including original design drawings, previous engineering reports and repair plans, previous repair documents, etc.
2. Interview onsite personnel to help understand the history of the parking structure, if available.

Field Investigation

1. Perform a visual review of structural concrete elements to locate and quantify areas of deterioration.
2. Perform a chain drag (mechanical sounding) of representative areas at the supported slab to identify deterioration due to corrosion of steel reinforcement and to estimate the quantity of slab repairs required.
3. Review the effectiveness and remaining service life of joint sealants, expansion joints, traffic coatings, and other waterproofing elements. Note that evaluation of the plaza waterproofing is included in the Phase 2 base scope of services.
4. Provide a visual review of other components and systems to identify the general condition, including:
 - a. Architectural systems, hardware, and components, such as barriers, railings, paint, doors, etc.
 - b. Plumbing to determine the condition of floor drains and piping.
 - c. Floor slab drainage, including slope and ponding within the facility.
 - d. Electrical components and systems, such as exposed electrical conduit and light fixtures.
5. Additional material testing and specialty inspections may be recommended to further assess the condition of the structure, to be performed under a separate proposal.

Analysis and Reporting

1. Prepare an itemized probable construction cost table summarizing our recommendations, based on our research and field investigation. The cost table will include estimated quantities and unit rates for each recommended repair, preventative maintenance, and optional items.
2. Provide photographs of typical failures and deteriorations.
3. Meet (virtually) with the City to review findings and recommendations.
4. Prioritize recommendations into a multi-year repair approach to assist with budgeting, if necessary.
5. Deliverables include a cover letter, repair plan/construction cost table, and photolog.
6. For an additional fee, a formal report may be provided that summarizes our findings, analysis, and recommendations in further detail.

Professional Services Fees

We propose to provide our services on an hourly, not-to-exceed basis for the estimated fees shown below at the rates identified in our attached Rate Schedule. Fees and expenses for our subconsultants (Legat, SME, and POD Design) will be invoiced at cost. Architectural design services performed by Legat are included in the Construction Documents fees. Reimbursable expenses will be invoiced at cost and include travel (mileage, hotel, and meal per diem), reproduction, and shipping.

Plaza Public Engagement and Conceptual Design

Public Relations – Fishbeck	\$ 10,000
Project Management and Support – Fishbeck	\$ 20,000
<u>Landscape Architecture – POD Design</u>	<u>\$ 75,000</u>
Total Fee	\$ 105,000
Reimbursable Expenses	\$ 2,000

Construction Documents and Bidding

Public Relations – Fishbeck	\$ 10,000
FIM Improvements – Fishbeck and Legat	\$ 216,000
Plaza Reconstruction – Fishbeck and Legat	\$ 280,000
Landscape Architecture – POD Design	\$ 320,000
Cost Estimating and Phasing – Fishbeck	\$ 36,000
<u>Geotechnical Consulting – SME</u>	<u>\$ 10,000</u>
Total Fee	\$ 872,000
Reimbursable Expenses	\$ 8,000

Construction Administration

Fishbeck	\$ 172,000
<u>POD Design</u>	<u>\$ 105,000</u>
Total Fee	\$ 277,000
Reimbursable Expenses	\$ 12,000

Contract Total **\$ 1,276,000**

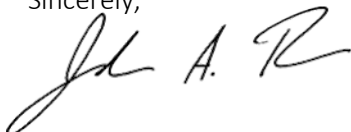
Optional Services – Parking Structure Evaluation

Labor Fee	\$ 12,500
<u>Reimbursable Expenses</u>	<u>\$ 2,000</u>

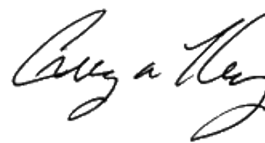
Total Optional Services **\$ 14,500**

If you have any questions or require additional information, please contact me at 269.544.6940 or jrozeboom@fishbeck.com.

Sincerely,



Joshua A. Rozeboom, PE
Project Manager – Parking and Restoration



Gregory A. Tkacz, PE, LEED AP BD+C
Senior Vice President/Principal

By email
Attachments

Rate Schedule

June 11, 2022

Principal		\$257
Architect Construction Engineer/Manager/Administrator Engineer Estimator Geologist Hydrogeologist Industrial Hygienist Interior Designer Project Manager Scientist Surveyor	Senior Level	\$152-\$249
	Mid Level	\$132-\$152
	Staff Level	\$92-\$132
Architectural Specialist Engineering Specialist Environmental Specialist Health & Safety Specialist Operations Specialist Technical Specialist Project Superintendent Survey Specialist	Senior Level	\$152-\$225
	Mid Level	\$109-\$152
	Staff Level	\$88-\$109
Technician	Senior Level	\$118-\$140
	Mid Level	\$103-\$118
	Staff Level	\$80-\$103
Production Support		\$92
Photocopies		\$0.10/Copy
Mileage/Passenger Vehicles		\$0.70/Mile
Field and Service Vehicles		\$0.95/Mile
Equipment Schedule		Separate Schedule
Expenses and Outside Services		Cost Plus 10%

Compensation to be at one and one-half times the hourly rate for approved overtime.

Invoices are rendered every four weeks and payment is due upon receipt. A service charge of 1% per four-week period is added to accounts unpaid after 28 days from date of billing.



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Josh Rozeboom, PE
Project Manager-Parking & Restoration
Fishbeck
1515 Arboretum Drive S.E.
Grand Rapids, MI 49546

Re: Landscape Architecture Services Proposal for Gahanna-Creekside

Dear Josh:

Thank you for extending the opportunity for POD Design to provide professional landscape architectural services associated with the proposed renovations for the Gahanna-Creekside development, lagoon area and creek frontage located in Gahanna, Ohio. As requested, our assumptions, scope of services, and additional details follow:

ASSUMPTIONS

- The owner will be City of Gahanna. The consultant is POD Design
- Base information including, site survey, civil engineering, structural engineering, architectural services, environmental compliance and MEP engineering including photometrics are anticipated to be provided by others
- Anticipated sub-consultant services for geo-technical survey, tree survey, arborist assessments, and technical lighting design, are not included in this proposal
- The below listed scope of services is based on providing landscape architectural design and public engagement services to develop detailed design, construction documentation and construction observation based on concepts presented already
- The scope of work outlined below does not include LEED documentation
- Documents required for any necessary permitting will be completed by the design team but permit requests will be the responsibility of the selected contractor
- All work deemed necessary by the owner during the project that is not specified in the Scope of Services below will be considered additional services and will be billed on an hourly basis at our standard hourly rates.
- For the purposes of this proposal, the assumed construction budget for items to be documented by POD Design is \$6M

SCOPE OF SERVICES

POD Design will provide landscape architectural design services for improvements in and around the existing Creekside Development. The general geographic scope includes the north side frontage between 81 Mill Street and 151 Mill Street, the Creekside Plaza and the lagoon area, other areas between existing buildings and the west side of the development which may include modifications to the creek edge and bike path. The POD team will work closely with city officials and the other members of the design team throughout the process to help ensure solutions that are both fiscally and operationally sustainable. Specific anticipated phases for this project include:

CONCEPTUAL DESIGN

The POD team will lead a collaborative process between the design team and the designated team of representatives for the city to develop conceptual design that incorporates input from city staff, elected officials and Gahanna citizens. We will discuss potential phasing and budgeting along with a summary of the conceptual process for the city's review prior to proceeding with detailed documentation. Specific anticipated tasks for this work step include:



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- Conceptual Design (Previously Completed):
 - Conduct site visit to evaluate existing conditions
 - Review plans and base information available from client and other available resources
 - Project initiation with owner to discuss the scope of work and review key issues to be addressed
 - Site inventory and analysis to aid in the conceptual design process and to create base mapping information
 - Program development and verification
 - Provide three conceptual alternative options for owner review with supporting graphics and imagery
 - Attend review meeting to discuss preliminary conceptual options
- Public Engagement
 - Revise and refine two concept alternatives per city feedback for use in the public engagement process
 - Assist in the development of the project Vision and mission statement and guiding principles if requested
 - Develop and provide supporting graphics and meeting materials for presentations as required
 - Solicitation of public input in response to the conceptual alternative options and aspirational imagery through in person meetings and virtual feedback with assistance from the city's marketing department
 - Meetings with key stakeholders identified by the client
 - The POD team will be available to attend any public meetings and city council touch points as necessary to assist in solicitation of any additional input that could be incorporated into final conceptual design
- Final Conceptual Design
 - A final concept plan will synthesize input received from those involved with the public engagement process
 - We will present the final concept in a color rendered plan, section, or preliminary 3D perspective or any combination or other method that will assist in communicating the design intent with all involved
 - Attend presentation of the final conceptual design with city staff, elected officials and Gahanna citizens as necessary
 - Attend team meeting to determine preferred phasing, budget breakdown, next steps in documentation and establish schedule for remaining phases of project development

DESIGN DEVELOPMENT

Upon city approval of the conceptual design products listed above and authorization to proceed, POD will initiate the design development process. We will focus our efforts on refining the site design features depicted in conceptual design with specific attention paid to material selections, preliminary specifications, and preliminary details to assist with ongoing refinements to overall project budgeting and phasing. Specific anticipated tasks for this work step include:

- Attend DD kick-off meeting as needed to review critical dates, DD scope, budget updates, etc.
- Coordination with client and allied disciplines on updated base information
- Review flood mitigation plans for coordination with proposed landscape amenities
- Initiate preparation of DD level layout plans depicting proposed improvements



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- Preparation of preliminary plant materials palette and enhanced design development level planting layout for the entire site, supplementing any planting required by code as desired by the city. Design development planting layout to include the proposed location of trees and defined areas for understory planting
- Coordinate preliminary irrigation plan with irrigation consultant
- Prepare design development level construction details, elevations, and sections to aid in defining the project characteristics
- Further refinement / coordination of all work areas utilizing CAD documentation and 3D modeling as needed. Review refined design features with client to gather additional feedback and input
- Provide DD level opinion of probable construction costs
- Attend milestone review meetings as determined at DD kick-off meeting (i.e. 50%, 75%, etc.)
- Prepare initial draft of technical specifications as required by the client
- Attend city council, parks board and committee meetings and any other city officials as needed

CONSTRUCTION DOCUMENTATION

Upon client approval of the design development products listed above and authorization to proceed, POD Design will initiate the construction documentation process for use in bidding and implementation. Specific anticipated tasks for the work step include:

- Attend CD kick-off meeting as needed to review critical submittal dates, CD scope, budget updates, etc.
- Final documentation of owner approved site design elements depicted in plans and construction details incorporating all elements previously documented from the design development phase
- Preparation of final detailed planting plans with plant specifications identified on the plans
- Preparation of final layout and finish plans depicting hardscape elements, amenity features, fountains, softscape, furniture, irrigation plans, lighting plans, wayfinding & signage
- Preparation of necessary details to convey the design intent and constructability of the items documented in the plans
- Attend progress review meetings with the owner, design team and CM as identified in the CD kick-off meeting (anticipated review meetings at 50%, 75%, and 95% CD completion milestones)
- Coordination with MEP engineer and lighting designer for all site lighting selections and locations.
- Coordinate with civil engineer for input regarding proposed grading. Final grading to be documented by civil engineer.
- Final Coordination with irrigation designer, fountain consultant and structural engineer
- Final opinion of probable construction cost
- Provide final set of drawings including plans, details, notes, and technical specifications, etc. for use in client solicitation of bids from contractors.

BIDDING & CONSTRUCTION OBSERVATION-TBD

POD Design will provide construction observation services for the implementation of elements depicted in final bid documents. POD will serve as an extension of the client's CM and designated representatives throughout the implementation process. Specific anticipated tasks for this process include:

- Respond to bidder inquiries, prepare addenda and requests for clarification during the bid process
- Attend the pre-bid meeting with City staff and provide evaluation of potential contractors as requested



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- Review shop drawings and submittals for conformance with the contract documents
- Conduct regular site visits with City staff during construction and notify the City and design team of any inconsistencies in products or schedule conformance
- Attend project meetings with representatives from the contractor and the City's representative as appropriate
- Prepare punch list at the completion of construction activities and coordinate contractor compliance with punch list items
- Review and supplement contractor provided as-built mark-ups to document final project conditions

GRAPHIC VISUALIZATION & ANIMATION (ONLY AS REQUESTED)

POD design will develop a 3D model of the proposed site improvements to aid in the design/ visualization process. POD Design will produce computer generated still graphics (Watercolor, hand sketch or Photo realistic style TBD) or fly-through animation for aid in the marketing process. Specific anticipated tasks include:

- Assemble necessary information from owner and design team to create a working 3D model of the site & surrounding context.
- Provide initial 3D view studies for use in selecting final renderings
- Coordinate with owner and design team for materials and color selections for final graphics
- Provide up to (2) two rounds of edits of final renderings based on owner feedback.
- Provide final views (and fly-through if desired) to owner for use

COMPENSATION

POD Design proposes to complete the above listed scope of services against the following hourly fee, plus reimbursable project expenses for sub-consultants not included in this proposal, mileage, printing, photo reproduction, courier, etc. as outlined below:

Conceptual Design & Public Engagement	\$75,000
Design Development	\$175,000
Construction Documentation	\$225,000
Bidding & Construction Observation	\$25,000
Graphic Visualization (upon request only)	\$800 per view
Graphic Visualization-Animation (upon request only)	\$10,000 per minute

ANTICIPATED SCHEDULE

Conceptual Design & Public Engagement	4 Months Complete by 11/21/23
Design Development	4 Months Complete by 3/22/24
Construction Documentation	6 Months Complete by 9/20/24
Bidding & Award	1 Month or duration
Construction Observation	12-18 Months or Project Duration

POD Design has staff available and prepared to begin work on this project upon approval of this proposal and notice to proceed. Schedule is based upon an anticipated start date of July of 2023

TERMS AND CONDITIONS

1. This agreement may be terminated by either party upon seven days written notification should the other party fail, through no fault of the party initiating the termination.
2. In the event of termination not initiated by the consultant, the consultant shall be compensated for all services performed to the date of termination, together with reimbursable expenses then due.



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3. At the request of the client all deliverable documents, including drawings, specifications, and electronic media prepared or furnished by the consultant (and its independent professional associates and consultants) pursuant to this Agreement, are instruments of service in respect of the project and as such, upon payment of all sums earned and due to the consultant shall be owned by the client. The client shall obtain an ownership interest therein whether or not the Project is completed, and documents shall be immediately delivered to the client by the consultant on any termination of this Agreement, whether or not any dispute exists between the client and the consultant during or following the termination of this Agreement, so long as payment of all sums earned and due have been paid. The consultant shall be permitted to keep copies of all such documents, drawings, specifications, and electronic media for its files.
4. This agreement represents the entire integrated Agreement between the client and the consultant, and supersedes all prior negotiations, representations or agreements, either written or oral. This agreement may be amended only by written instrument signed by both the client and consultant.
5. The client agrees to limit the consultant's liability to the client and to all persons, contractors and subcontractors on the project, due to the consultant's professional negligent acts, errors or omissions to the amount of the fee agreed upon by the client and the consultant.
6. POD Design agrees to perform services in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances. POD Design shall perform its services with due and reasonable diligence consistent with sound professional practice.

ACCEPTANCE AND NOTICE TO PROCEED

POD Design is prepared to proceed with the above-described professional services upon acceptance of this proposal and the authorization of the individual tasks.

ACCEPTED BY:

Fishbeck

Date: _____

POD, LLC

Steve Kolwicz, ASLA, LEED AP
Co-founder and Principal

Date: April 28, 2023



PROPOSAL REQUEST

9375 Chillicothe Road, Kirtland, OH 44094-8501
Phone: 440-256-6500

REQUEST NO.: P04139.22

DATE: October 13, 2022

CLIENT INFORMATION

Contact: Mr. Josh Rozeboom, PE

Company: Fishbeck

Email Address: jrozeboom@fishbeck.com

Address: 4775 Campus Drive

City: Kalamazoo State: MI Zip: 49008

Phone: (269) 544-6940 Cell: (269) 998-6035

PROJECT INFORMATION

Project Name: Gahanna Creekside Phase 2 - GEO

City: Gahanna

State: OH

SME Project No.: 088098.01

Client P.O. No.:

This Proposal Request serves to confirm additions to our scope of services as follows:

SME will provide additional geotechnical services on an as-requested basis to support the design team. We anticipate our services could include, but are not limited to, the following:

- Provide design recommendations for the clay cap specifications.
- Provide recommendations for earthwork and other site improvements including clay cap improvements and slurry wall.
- Visit the site to collect additional groundwater well readings as needed.
- Interpret and analyze groundwater well data collected by the City of Gahanna.
- Perform additional groundwater flow analysis as needed.
- Attend virtual meetings with the project team as requested.
- Respond to questions from the design team regarding other geotechnical engineering aspects of the project.

Our services will be billed on an hourly basis using the rates on the attached fee schedule. We propose an initial budget of \$10,000. We will contact you for authorization of additional budget as needed.

Total fee not to exceed without authorization: \$10,000

All previously agreed upon terms and conditions remain in effect.

CLIENT REPRESENTATIVE

I authorize the above services to be performed and agree to the additional fees.

Signature

Name: Josh Rozeboom

Date:

Title: Project Manager

SME

Signature

Prepared By: Thomas P. Olding, PE

Title: Senior Staff Engineer

Signature

Reviewed By: Brendan P. Lieske, PE

Title: Senior Project Engineer

FEE SCHEDULE – PERSONNEL AND EXPENSES

PERSONNEL

Technician I.....	Per Hour.....	72.00
Technician II.....	Per Hour.....	82.00
Technician III.....	Per Hour.....	92.00
Technician IV.....	Per Hour.....	110.00
Laboratory Technician.....	Per Hour.....	115.00
Certified Welding Inspector (CWI).....	Per Hour.....	120.00
Field Engineer/Geologist/Specialist, Survey Technician.....	Per Hour.....	114.00
Staff Engineer/Geologist/Architect/Specialist.....	Per Hour.....	128.00
Senior Staff Engineer/Geologist/Architect/Specialist, Surveyor.....	Per Hour.....	138.00
Project Engineer/Geologist/Architect/Consultant.....	Per Hour.....	155.00
Civil Designer, Licensed Surveyor, Materials/Welding Consultant.....	Per Hour.....	155.00
Survey Crew Chief.....	Per Hour.....	165.00
Senior Project Engineer/Geologist/Architect/Consultant.....	Per Hour.....	180.00
Project Manager, Senior Civil Designer, Senior Licensed Surveyor.....	Per Hour.....	180.00
Level III NDT.....	Per Hour.....	190.00
Senior Consultant, Senior Project Manager.....	Per Hour.....	220.00
Certified Professional (Ohio VAP), Certified Industrial Hygienist.....	Per Hour.....	220.00
Principal Consultant, Chief Consultant, Project Director.....	Per Hour.....	260.00
CADD Technician.....	Per Hour.....	95.00
CADD Operator.....	Per Hour.....	106.00
Senior CADD Operator.....	Per Hour.....	128.00
Log Processor.....	Per Hour.....	100.00
Administrative Assistant.....	Per Hour.....	85.00
Senior Administrative Assistant.....	Per Hour.....	105.00

Minimum 4 Hours Per Day for field work.

Overtime rate (Applies to all field work in excess of 8 hours per day, before 8:00 am or after 5:00 pm Monday through Friday or anytime Saturday, Sunday, or Holiday)..... Standard Rate x 1.5

Expert Testimony and Depositions (including preparation time)..... Rates available upon request

TRANSPORTATION AND EXPENSES

Vehicle Mileage Charge.....	Per Mile.....	1.20
Out-of-town Expenses (Airfare, Lodging, Subsistence, etc.).....	At Cost + 20%	
Subcontract Expenses, Equipment Rental.....	At Cost + 20%	
Direct Expenses (Prints, Permits, Maps, etc.).....	At Cost + 20%	
Hard Copies of Report.....	Per Copy.....	85.00
Plotting 24 x 36 (Black & White).....	Each.....	12.00
Plotting 24 x 36 (Color).....	Each.....	24.00

Other Services including Drilling, Equipment use, and Laboratory Testing..... See Appropriate Fee Schedule

FEE SCHEDULE – GEOTECHNICAL ENGINEERING

SEE PERSONNEL AND EXPENSES FEE SCHEDULE FOR STAFF RATES

DRILLING/EQUIPMENT

Mobilization of drill rig and two-man crew on and off site	Per Mile (Each Way).....	6.50
	Minimum Charge	750.00
Charge for all-terrain drill rig.....	Per Day	600.00
Charge for drilling support truck (on multiple day projects)	Per Day	200.00
Out-of-town living expenses for drill crew	At Cost + 20%	
Hourly charge for drill rig and crew, for location of borings, installation and development of monitoring wells, specialized in-situ testing, phone calls, standby time, clearing access, utility clearance, site clean-up, hourly drilling, hauling water, drilling through obstructions, etc.	Per Hour.....	265.00
Equipment required to complete investigation, i.e. bulldozer, backhoe, subcontract drill rigs, water permits and charges, access fees, tools.....	At Cost + 20%	
Chain saw.....	Per Day	90.00
Mobilization - Traffic Control	Each.....	450.00
Traffic Control Signage: non-freeway (8 signs maximum).....	Per Day	415.00
Lighted Arrow Board	Per Day	180.00
Rowboat	Per Day	175.00
Rescue Skiff	Per Day	385.00
Soil Probe Services.....	Full Day (up to 8 hours)	2,350.00
	Half Day (up to 4 hours) ...	1,500.00
	Additional Per Hour Rate	300.00
Mobilization of Soil Probe Rig and crew on and off site.....	Per Mile (Each Way).....	5.00
	Minimum Charge	650.00
Drilling with split-barrel soil sampling (ASTM D-1586). Semi-continuous to 10' and 5' intervals thereafter.		
0' to 20'	Per Foot	19.00
20' to 40'	Per Foot	22.00
40' to 60'	Per Foot	25.00
60' to 80'	Per Foot	29.00
80' to 120'.....	Per Foot	34.00
Special situations, or drilling below 120'	Rate Available Upon Request	
Hard soil drilling (blows per foot greater than 50)	Standard Rate x 1.3	
2" split-barrel sampling in addition to normal 5' intervals below 10'		
10' to 50'	Each.....	60.00
50' to 100'.....	Each.....	68.00
Additional charge for Shelby tube samples (0 – 50')		
2-inch.....	Each.....	57.00
3-inch.....	Each.....	74.00
Auger sampling without split-spoon or Shelby tube (0' – 20')	Per Foot	14.50
Rock coring (0' – 20') – \$160 set-up per core plus	Per Foot	100.00
(20' – 50')	Per Foot	110.00
Pavement Coring	Each.....	95.00
Concrete/Asphalt Patch	Each.....	33.00
Backfill Borehole ⁷⁵ – Soil/Bentonite	Per Foot	4.75
Bentonite Backfill (SSA)	Per Foot	6.00
Bentonite Backfill (HSA)	Per Foot	14.50
Grout Borehole Set-up for Slurry	Each.....	68.00

DRILLING/EQUIPMENT CONT.

Cement/Bentonite Slurry (SSA)	Per Foot	6.50
Cement/Bentonite Slurry (HSA)	Per Foot	13.25
2" diameter PVC pipe.....	Per Foot	5.50
2" diameter PVC well screen – 5' length	Each.....	55.00
Well Protector Pipe (4"x4").....	Each.....	210.00
Corps of Engineers DCP	Per Day	140.00
Double Ring Infiltrometer	Per Day	65.00
GPS – Submeter Assembly	Per Day	300.00
GPS – High Accuracy	Per Day	555.00
Ground Penetrating Radar	Per Day	685.00
Laser Level.....	Per Day	130.00
Muck Probe	Per Day	65.00
Other materials.....	At Cost + 20%	
Penetrometer/Hand Auger	Per Day	45.00
Pressuremeter, Vane Shear, Dutch Cone	Rate Available Upon Request	
Syscal Electrical Resistivity Meter	Per Day	530.00
Thermal Conductivity/Resistivity Meter.....	Per Day	290.00
Total Station	Per Day	275.00

LABORATORY

Atterberg Limits (LL + PL)	Each.....	230.00
Calibrated Penetrometer Test.....	Each.....	5.00
California Bearing Ratio (CBR)	Each.....	320.00
Consolidation Test on 2-1/2" Dia. Specimen w/pressure–strain curve.....	Each.....	635.00
Consolidometer Swell Test	Each.....	335.00
Direct Shear Test (Fine – Proctor not included).....	3 Points.....	585.00
Expansion Index (ASTM D4829)	Each.....	370.00
Hydrometer /Gradation Analysis	Each.....	260.00
Loss by Wash.....	Each.....	115.00
Organics Content (Loss on Ignition)	Each.....	80.00
Permeability Test of Liner Sample (Clayey soil)	Each.....	370.00
Permeability Test of Liner Sample (Clean Granular Soil)	Each.....	185.00
Permeability Test of Compacted Sample.....	Each.....	420.00
Proctor (Standard or Modified).....	Each.....	225.00
Proctor (Clay Preparation)	Each.....	100.00
Rock Testing -- Slake Durability.....	Each.....	245.00
Rock Testing – Point Load	Each.....	75.00
Rock Testing – Compression of Core	Each.....	95.00
Shrinkage Limit (SL).....	Each.....	145.00
Sieve Analysis	Each.....	115.00
Torsional Ring Shear – Single Stage.....	Per Point	460.00
Torsional Ring Shear – Multistage	Per Point	125.00
Torsional Ring Shear – Prep.....	Per Sample	350.00
Torvane Test	Each.....	6.00
Triaxial Strength Testing – Unconsolidated/Undrained	Each Point.....	210.00
Triaxial Strength Testing – Consolidated/Drained	Each Point.....	400.00
Triaxial Strength Testing – Consolidated/Undrained w/ Pore Pressure	Each Point.....	475.00
Unconfined Compressive Strength with Water Content and Unit Weight... ..	Each.....	105.00
Uniaxial Compression of Rock Core	Each.....	110.00
Unit Weight Determination	Each.....	25.00
Visual Engineering Classification: Cores	Per Sample/5' Run.....	45.00
Visual Engineering Classification: Soil.....	Per Sample	8.00
Water Content	Each.....	8.00

FEE SCHEDULE – SOIL PROBE

SEE PERSONNEL AND EXPENSES FEE SCHEDULE FOR STAFF RATES

DRILLING/FIELD SERVICES

Soil Probe Services.....	*Full Day (up to 8 hours)...	2,350.00
	Half Day (up to 4 hours) ..	1,500.00
	Additional Per Hour Rate ...	300.00
Mobilization of Soil Probe Rig and crew on and off site.....	Per Mile (Each Way)	5.00
	Minimum Charge.....	650.00

(*Includes probe, operator, steam cleaner, generator, probe materials ..Per Foot and Per Probe rates Available upon request.)

Out-of-Town Living Expenses.....	Per Day/Per Person ...	Cost + 20%
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ENVIRONMENTAL HEALTH PROTECTION EQUIPMENT

Level B	Rate Available Upon Request
Level C	Per Day

EQUIPMENT

1/2" OD x 3/8" ID High Density Poly Tubing	Per Foot	1.25
3/4" Locking Cap	Each	27.50
3/4" Prepack Well Screen	Each	155.00
3/4" PVC Riser	Foot.....	6.50
1" SCH 80 PVC Riser.....	Foot.....	7.75
1" SCH 80 PVC Screen 5'	Each	44.00
2' Liner.....	Each	4.50
4' Liner.....	Each	6.50
Bentonite	Per 50 lb. Bag	33.00
Concrete/Asphalt Patch	Each	33.00
Corps of Engineers DCP	Per Day	140.00
Drum Dolly.....	Day.....	65.00
Drums – Steel/Poly	Each	65.00
Expendable Drive Point.....	Each	16.50
Generator	Per Day	150.00
Landfill Gas Analyzer GEM 2000	Per Day	320.00
Lighted Arrow Board	Per Day	180.00
Pavement Coring – Geoprobe – Per Day	Per Day	150.00
SME Traffic Control Signage: Non-Freeway (8 signs max)	Per Day	415.00
Soil Gas Implant.....	Each.....	75.00
Steam Cleaner	Per Day	170.00
Well Pack Sand.....	Per Bag	22.00
Other Materials.....	At Cost + 20%	