TASK ORDER
CITY OF LAKE FOREST PARK
ON-CALL ENGINEERING SERVICES

Task Order No. 002

Task Title On-Call Support Services for Guardrail Slope Stabilization Design Support

Consultant GeoEngineers, Inc

Consultant Contact Tim Bailey, PE Phone No. 206-239-3258

City Requester Mike Read Phone No. 206-957-2836

City Project Number

Reimbursable?

☐ Yes, by
(Name, address & phone no. of person/organization who will reimburse the City)

☒ No

DESCRIPTION OF TASK ASSIGNMENT

☒ See attached TO 002 Scope of Work

COMPENSATION -

☐ Lump Sum – Compensation for these services shall be a lump sum of $

☒ Time and Materials – Compensation for these services will be on a Time and Materials basis, not to exceed $ 82,400 without written authorization.

☐ Approved budget attached (if appliable. Required if costs exceeds $3,000.)

SHEDULE – The Consultant shall complete the services described above:

☒ By 12/30/2026 (additional Task Orders may be required based upon support needed by City)
Date

☐ In accordance with the attached schedule.

All provisions of the Agreement for On-Call Engineering Services dated 6/16/2026 shall be in full force and effect for this Task Order.

APPROVED:

CITY OF LAKE FOREST PARK	**CONSULTANT**
By Thomas French	**By** Tim Bailey, PE
Signature	**Signature**
Title Mayor	**Title** Associate Geotechnical Engineer
Date	**Date**

GeoEngineers
2101 4th Avenue, Suite 950
Seattle, Washington 98121
206.728.2674

October 22, 2026

City of Lake Forest Park
17425 Ballinger Way Northeast
City of Lake Forest Park, Washington 98155

Attention: Michael Read, PE – Senior Project Manager

Subject: Proposal
Geotechnical Engineering Services – Site Exploration and Slope Evaluation
40th Avenue Northeast and 49th Place Northeast Sites
Lake Forest Park, Washington
File No. 0197-013-01

Introduction and Project Understanding

GeoEngineers, Inc. (GeoEngineers) is pleased to present this proposal to provide preliminary geotechnical engineering services for site reconnaissance and field work preparation at two locations in the City of Lake Forest Park, Washington, that have experienced guardrail failure and slope instability. One site is located near 14716 40th Avenue Northeast (Site 1), and the other is located near 18738 49th Place Northeast (Site 2).

Our understanding of the project is based on information provided by Michael Read with the City of Lake Forest Park (LFP), our site visit on October 16, 2026, and our meeting with LFP and David Evans and Associates (DEA) on October 20, 2026. Based on our site visit and recent meeting, we recommend construction of soldier pile walls to stabilize the roadway and to protect these areas from future instability.

We reviewed geologic maps of the area and available borings nearby. Site 1 is mapped as pre-Fraser glacial and nonglacial deposits, which consist of glacially overridden, interbedded silt, sand, and gravel. Younger lake deposits consisting of silt and clay with local peat and organic material are mapped along the Lake Washington shoreline east of the site. Site 2 is mapped as Vashon advance outwash, which consists of glacially overridden deposits, mostly sand with gravel and some silt. Vashon glacial till, consisting of a mixture of clay, silt, sand, gravel, cobbles, and boulders, is mapped adjacent to and upslope of Site 2.

Scope of Services

The purpose of our geotechnical services is to evaluate subsurface conditions at the two sites and to provide geotechnical recommendations for design of retaining walls to stabilize the slopes and protect the roadway. Our scope of services includes the following tasks:

1. Clear boring locations with a private locator, in addition to contacting the One-Call utility locate service (One-Call completed under previous scope). We will also clear the boring locations on the roadway with a vactor truck to confirm the borings are clear of utilities. We typically use a vactor truck when drilling borings on roadways to mitigate the risk of drilling close to existing underground utilities.
2. Evaluate soil and groundwater conditions by completing two borings at each site to depths at the tops and bottoms of the slopes. The borings on the roadways (top of slope) will extend to depths of up to 55 feet, and the borings at the base of the slopes will extend to depths of up to 25 feet.
3. Evaluate pertinent physical and engineering characteristics of the subsurface soils based on laboratory tests performed on samples obtained from the borings. The laboratory tests will primarily consist of percent fines, grain-size distribution, and Atterberg Limits (plasticity) for soil classification, as well as pH and resistivity testing to evaluate corrosion potential for design of steel soldier piles.
4. Evaluate sites with respect to LFP environmentally critical areas (City of Lake Forest Park Municipal Code Chapter 16.16) with respect to erosion, landslide, seismic, and steep slope hazard areas.
5. Provide seismic design recommendations consistent with the 2021 International Building Code.
6. Complete slope stability analyses at both sites in accordance to evaluate the existing slopes under static and seismic conditions. Based on our observations, the existing slopes are over-steepened and will not meet required factors of safety for stability. We will also evaluate the required geometry for soldier pile walls to provide adequate stability.
7. Complete geotechnical analysis and develop soldier pile wall lateral earth pressure diagrams and design recommendations for use by DEA in designing a wall at each site.
8. Provide recommendations for soldier pile wall construction and roadway restoration.
9. Provide a written report presenting our findings and recommendations along with supporting field and laboratory data. Our report will first be submitted as a draft for review by LFP and DEA. Our final report will incorporate review comments.
10. Review the project plans and specifications (to be prepared by DEA) to confirm our geotechnical recommendations have been incorporated.
11. Participate in project update meetings as required and provide monthly invoices and progress updates.

We will hire subcontractors to provide private utility locating services, to supply and operate the drilling and vactor equipment, and to provide traffic control services. The drilling will be observed by one of our geotechnical engineers or geologists on a full-time basis. Our representative will obtain samples of the various soils encountered, classify the materials, and maintain a detailed log of each exploration. The geotechnical soil samples will be sealed and taken to our laboratory for additional evaluation and laboratory testing, as appropriate.

We anticipate that the borings can be completed in 3 days (assuming the ROW permits allow sufficient working time to complete one to two borings per day). Borings will be backfilled per Ecology regulations and spoils will be removed from the site. The pavement will be patched with cold mix asphalt or concrete equal to or greater than the existing pavement. Pavement patching with hot mix asphalt is excluded from our scope.

Terms, Fee Estimate and Schedule

We have the drilling scheduled for November 16 through 18, 2026. We will provide the soldier pile wall lateral earth pressure design parameters to DEA within 1 week of completing all borings, in advance of the geotechnical report. We will provide our draft geotechnical report within 4 weeks of completing all borings. We understand our services need to be completed by the end of 2026 and will support that schedule. If there are delays to permitting for any of the boring locations, we will discuss with LFP and adjust our scope or schedule accordingly.

We propose to conduct our services on a time-and-expense basis in accordance with the terms and rates described in our on-call agreement with LFP and the approved 2026 Schedule of Charges. We estimate that our fee will be as follows:

SCOPE NUMBER	SCOPE	FEE
1	Subcontracted utility locate and vactor truck (2 half-days).	$5,200
2	Subcontracted drilling (four borings, 3 days total).	$21,500
2	Subcontracted traffic control (2 days).	$6,900
2	Field labor, equipment (3 days of fieldwork, plus mileage, equipment, and office support).	$15,000
3	Laboratory testing.	$4,300
4-9	Critical areas evaluation, seismic design, slope stability analysis, lateral earth pressure analysis, soldier pile wall construction, and roadway restoration recommendations. Provide draft and final geotechnical reports.	$22,400
10	Review plans and specifications.	$3,700
11	Participate in project meetings and project management.	$3,400
	TOTAL	**$82,400**

There are no intended third-party beneficiaries arising from the services described in this proposal, and no party other than the party executing this proposal shall have the right to legally rely on the product of our services without prior written permission of GeoEngineers.

This proposal is valid for a period of 60 days commencing from the first date listed above and subject to renegotiation by GeoEngineers, Inc., after the expiration date.

We appreciate the opportunity to provide this proposal and look forward to working with you on this project. If you have questions or wish to discuss this proposal, please call Timothy D. Bailey at 206.795.4637.

Sincerely,
GeoEngineers, Inc.

Garrett Timm, PE, LG
Project Geotechnical Engineer

Timothy D. Bailey, PE
Associate Geotechnical Engineer

GDT:TDB:nl

One electronic copy submitted.

Attachments:
Schedule of Charges

Proprietary Notice: The contents of this document are proprietary to GeoEngineers, Inc. and are intended solely for use by our client to evaluate GeoEngineers' capabilities and understanding of project requirements as they relate to performing the services proposed for a specific project. Copies of this document or its contents may not be disclosed to any other parties without the written consent of GeoEngineers.

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Attachments

Schedule of Charges - 2026

COMPENSATION

Our compensation will be determined on the basis of time and expenses in accordance with the following schedule unless a lump sum amount is so indicated in the proposal or services agreement. Current rates are:

PROFESSIONAL STAFF		
Staff 1 Scientist	$	158/hour
Staff 1 Engineer	$	166/hour
Staff 2 Scientist	$	180/hour
Staff 2 Engineer	$	188/hour
Staff 3 Scientist	$	206/hour
Staff 3 Engineer	$	214/hour
Project Scientist 1	$	235/hour
Project Engineer 1	$	245/hour
Project Scientist 2	$	245/hour
Project Engineer 2	$	250/hour
Senior Engineer/Scientist 1	$	275/hour
Senior Engineer/Scientist 2	$	298/hour
Associate	$	315/hour
Principal	$	350/hour
Senior Principal	$	375/hour
TECHNICAL SUPPORT STAFF		
Administrator 1	$	110/hour
Administrator 2	$	128/hour
Administrator 3	$	144/hour
CAD Technician	$	145/hour
CAD Designer	$	167/hour
Senior CAD Designer	$	194/hour
GIS Analyst	$	179/hour
Senior GIS Analyst	$	195/hour
GIS Coordinator	$	217/hour
*Technician	$	130/hour
*Senior Technician	$	158/hour
*Lead Technician	$	166/hour
Environmental Database Manager	$	245/hour
Health and Safety Specialist	$	156/hour
Health and Safety Manager	$	208/hour

*Hours in excess of 8 hours in a day or 40 hours in a week will be charged at one and one-half times the hourly rates listed above.

Contracted professional and technical services will be charged at the applicable hourly rates listed above. Staff time spent providing expert services in disputes, mediation, arbitration and litigation will be billed at one and one-half times the above rates. Time spent in either local or inter-city travel, when travel is in the interest of this contract, will be charged in accordance with the foregoing schedule. A surcharge may be applied to night and weekend work. See proposal for details.

Rates for data storage and web-based access will be provided on a project-specific basis.

Associated Project Costs (APC)

Associated Project Costs (APC) equal to six percent (6%) of professional fees will be assessed. This fee allows GeoEngineers to invest in the necessary infrastructure to ensure we provide our clients with the latest technological and data security standards. The investments include maintaining and advancing technical tools and platforms across all aspects of our business, and strengthening our defenses against cyber threats to ensure data remains secure. These costs are not included in our hourly rates or direct expenses.

EQUIPMENT		
Air Quality Equipment, per Day	$	210.00
Air Sparging Field Test, per Day	$	110.00
Air/Vapor Monitoring Equipment (PID, 5-Gas Meter), per Day	$	110.00
Asbestos Sample Kit, Each	$	30.00
Blastmate, per Day	$	120.00
D&M Sampler, per Day	$	150.00
DO (Dissolved Oxygen) Kit, Each	$	25.00
Dynamic Cone Penetrometer, per Day	$	45.00
E-Tape (Electric Tape), per Day	$	35.00
Electric Density Gauge, per Day	$	110.00
Electric Density Gauge, per Week	$	430.00
Electric Density Gauge, per Month	$	1,400.00
Environmental Exploration Equipment, per Day	$	225.00
Field Data Acquisition Equipment (Field Tablet), per Day	$	55.00
Field Tablet, per Week	$	200.00
Field Tablet, per Month	$	750.00
Field Tablet with Cellular, per Day	$	75.00
Field Tablet with Cellular, per Week	$	300.00
Field Tablet with Cellular, per Month	$	1,000.00
Field Gear / Reconnaissance, per Day	$	55.00
Gas Detection Meters, per Day	$	105.00
Generator, per Day	$	110.00
Groundwater Pressure Transducer w/ Datalogger, per Day	$	55.00
Groundwater Pressure Transducer w/ Datalogger, per Week	$	220.00
Hand Auger, per Day	$	100.00
Inclinometer Probe, per Day, 1 Day minimum	$	210.00
Interface Probe, per Day	$	65.00
Iron Test Kit, Each	$	25.00
Laser Level, per Day	$	60.00
Low Flow Groundwater Sampling Equipment, per Day	$	235.00
Multiparameter Water Quality Meter, per Day	$	85.00
Nuclear Density Gage, per Hour, 1/2 Day minimum	$	15.00
Peristaltic Pump, per Day	$	50.00
pH Probe,/Meter per Day	$	20.00
PID, FID or OVA, per Day	$	130.00
Rock/Slope Fall Protection/Rigging Equipment, per Day	$	700.00
Saximeter, per Day	$	60.00
Scuba Diving Gear, per Day/per Diver	$	700.00
Shallow Soil Exploration Equipment, per Day	$	60.00
Soil Field Screening Equipment, per Day	$	20.00
Soil Sample Kit, Each	$	20.00
Steam Flow Meter, per Day	$	20.00
Strain Gauge Readout Equipment, per Day	$	50.00
Surface Water Flow Meter, per Day, 1/2 day minimum	$	50.00
Surface Water Quality Monitoring Equipment, per Day	$	50.00
Turbidity Meter, per Day	$	50.00
Vehicle usage, per Mile, or $30/half-day, whichever is greater	$	IRS Rate

Specialized and miscellaneous field equipment not listed above will be quoted on a project-specific basis.

OTHER SERVICES, SUPPLIES AND SPECIAL TAXES

Charges for services, equipment, supplies and facilities not furnished in accordance with the above schedule, and any unusual items of expense not customarily incurred in our normal operations, are charged at cost plus 15 percent. This includes shipping charges, subsistence, transportation, printing and reproduction, miscellaneous supplies and rentals, surveying services, drilling equipment, construction equipment, watercraft, aircraft, and special insurance which may be required. Taxes required by local jurisdictions for projects in specific geographic areas will be charged to projects at direct cost.

Per diem may be charged in lieu of subsistence and lodging.

Routinely used field supplies stocked in-house by GeoEngineers, at current rates, list available upon request.

In-house testing for geotechnical soil characteristics at current rates, list available upon request.

All rates are subject to change upon notification.

Laboratory Schedule of Charges - 2026

TYPE OF TEST		UNIT PRICE
Soil Index and Classification Tests		
Soil Description (ASTM D 2488)	$	18
Moisture Content		
Oven (ASTM D 2216)	$	24
Moisture/Density (ASTM D 7263, D 2937)		
Rings	$	45
Shelby Tubes, waxed chunk	$	55
Tubes (liners), chunk	$	55
Particle Size Analysis		
Percent Passing No. 200 (ASTM D 1140)	$	115
Sieve (ASTM D 422, D 6913, C 136 includes minus 200 Wash, Dry Sieve)	$	160
Gravel Sieve (ASTM D 422, D 6913, C 136 includes minus 200 Wash, Dry Sieve)	$	230
Hydrometer Only (ASTM D 422, minus #10 fraction)	$	190
Combined Sieve and Hydrometer (ASTM D 422-63)	$	295
Combined Gravel Sieve and Hydrometer (ASTM D 422-63)	$	370
Organic Content (ASTM D 2974)	$	90
Atterberg Limits (ASTM D 4318)	$	220
Organic	$	115
Compaction (ASTM D 698/D 1557, AASHTO T 99/T 180, Methods A, B and C)		
Granular/Cohesive (1 Point)	$	140
Granular (4 Point)	$	320
Cohesive (4 Point)	$	340
Strength and Consolidation Tests		
Triaxial Compression		145
Unconfined Comp. Strength – UCS (ASTM D 2166)	$	
Unconsolidated Undrained – UU (ASTM D 2850)	$	280
Unconsolidated Undrained (back pressure saturation)	$	525
Consolidated Undrained – CU (ASTM D 4767) with pore pressure measurement	$	655
Consolidated Undrained (3 points, staged)	$	1,680
Consolidation (ASTM D 2435)	$	710
With Reload	$	790
With Reload and Unload	$	895
Additional timed load increments, each	$	85
Constant Rate of Strain Consolidation (ASTM D 4186)	$	1,050
CBR, 1 point with Proctor (ASTM D 1883)	$	560
Additional points, each	$	170
Corrosion Tests		
Soil Resistivity (ASTM G 187)	$	80
pH of Soil (ASTM D 4972 / G 51)	$	55
Permeability Tests		
In triaxial cell with back pressure saturation (ASTM D 5084)	$	780
Soil Sample Preparation		
Extrusion – Extrude and log (visual classification) Shelby tube sample	$	75
Remolding – Remolding a soil sample to desired moisture and density	$	Hourly
Soil – Cement/Lime Treatment	$	Hourly – negotiated
Aggregate and Rock Tests		
Point Load Test or Rock Core (ASTM D5731)	$	85

*Negotiated unit rates or hourly rates will be charged for these procedures.

*Unit prices reflect a typical standard turnaround time of 10 business days for most analyses (with the exception of density and secondary testing). Expedited test results are subject to 50% to 100% surcharge and are subject to lab availability to meet the expedited schedule.

**Not WABO-certified.

All rates are subject to change upon notification.