



## City of Ketchum

September 20, 2021

Mayor Bradshaw and City Councilors  
City of Ketchum  
Ketchum, Idaho

Mayor Bradshaw and City Councilors:

### **Recommendation to approve Agreement 20698 with American Geotechnics Inc. for geotechnical investigation of Sun Valley Road.**

#### Recommendation and Summary

Staff is requesting the Council approve Agreement 20698 with American Geotechnics Inc. for geotechnical engineering services associated with the Sun Valley Road Relinquishment and Transfer of Ownership.

**"I move to authorize the Mayor to sign Agreement 20698 with American Geotechnics Inc."**

The reasons for the recommendation are as follows:

- The Idaho Transportation Department (ITD) recently transferred ownership of Sun Valley Road to the City
- The City received funds from ITD for repair and rehabilitation of the roadway
- A geotechnical investigation is one of the first steps to initiate the design process and will determine the type of rehabilitation and repair needed for the roadway

#### Introduction and History

In 2019 the City of Sun Valley lead conversations with the Idaho Transportation Department (ITD) on behalf of both the City of Sun Valley and City of Ketchum to consider taking over ownership of Sun Valley Road east of Main Street. Under state law however ITD could not directly transfer a state road to a city with a population under 5,000 therefore the transfer was required to pass through Blaine County. On March 2, 2021, Blaine County approved Resolution 2021-10 adopting the road relinquishment and the transfer of ownership agreement for SH-75 Spur (Sun Valley Road). The Quitclaim Deeds were executed between all parties on July 20, 2021, at which time both the City of Sun Valley and Ketchum officially took over ownership of their portions of Sun Valley Road.

#### Analysis

At this time negotiations have been completed and funds received from ITD. The City of Ketchum's portion of the relinquished Sun Valley roadway extends 0.3 miles from ITD's Right-of-Way east of Main Street to the City limits east of Spruce Street. Similar to survey a geotechnical investigation is part of pre-design services and one of the first steps to initiate the design process. a Geotechnical investigation of the roadway to determine the existing roadway condition and what type of rehabilitation and repair may be necessary which may include a full depth reconstruction of portions of roadway, a mill and overlay, recycled base stabilization and an overlay.

Financial Impact

The City received \$864,600 from ITD for the design and repair/rehabilitation of the roadway. Predesign survey costs were included in this amount.

Attachments:

Agreement 20698

Scope and Fee

AGREEMENT 20698



AMERICAN GEOTECHNICS, INC.  
ENGINEERING SERVICES AGREEMENT

File Number: 03479

This Agreement is made, between

**S&C Associates, LLC**

and

**AMERICAN GEOTECHNICS, INC.**

PO Box 2647

5260 W Chinden Blvd

Ketchum, Idaho 83340

Boise, Idaho 83714

hereinafter called "Client"

hereinafter called "Consultant"

**PROJECT**

Client engages Consultant to provide services in connection with Proposal No. 03479, dated August 27, 2021.

**SCOPE OF SERVICES**

Consultant agrees to perform services as follows: As described in Consultant's Proposal No 03479, Client agrees that all services not expressly included are excluded from Consultant's Scope of Services.

**COMPENSATION FOR SERVICES**

Client agrees to pay Consultant on a time and expense basis, as described in Consultant's Proposal No. 03479.

Client and Consultant acknowledge that each has read and agrees to the General Conditions (Nos. 1 through 22 attached) which are incorporated herein and made a part of this Agreement and apply to all services performed by Consultant regardless of whether such services are included in the Scope of Services above.

Client: \_\_\_\_\_

Consultant: American Geotechnics, Inc.

By: \_\_\_\_\_

By:  \_\_\_\_\_

Name: \_\_\_\_\_

Name: Justin S. Stoffel, P.E.

Title: \_\_\_\_\_

Title: Vice President

Date: Click or tap to enter a date. \_\_\_\_\_

Date: August 27, 2021

## GENERAL CONDITIONS

1. Client shall pay invoices upon receipt. Invoices not paid within thirty (30) days of the invoice date shall be subject to a late payment charge of 2 percent per month (or the maximum rate allowable by law, whichever is less). Invoice amounts shall be presumed to be correct unless Client notifies Consultant in writing within ten (10) days of receipt. If Client fails to pay an invoice when due, Consultant may, upon five (5) calendar days' notice to client, suspend all Services until paid in full, and may terminate the Agreement. Client agrees to pay all costs incurred with collection of past due accounts, including attorneys' fees.
2. This Agreement, including Consultant's Addenda and Schedule of Fees, represents the entire Agreement and understanding between the parties, and supersedes any and all agreements, either oral or in writing, including any purchase order, between the parties. Any modification to this Agreement will be effective only if it is in writing signed by the party to be bound. One or more waivers of any term, condition or covenant by either party shall not be construed as a waiver of any other term, condition, or covenant.
3. Consultant shall perform the services in a manner consistent with the standard of care and skill ordinarily exercised by members of the profession practicing in the same or similar locality under similar circumstances at the time the services are performed. This Agreement creates no warranty or guarantee, express or implied, nor does it create a fiduciary responsibility to Client by Consultant.
4. The laws of the State where the contract was entered into shall govern interpretation of this Agreement. If any term of this Agreement is deemed unenforceable, the remainder of the Agreement shall stay in full force and effect. If services of an attorney are required by any party to secure performance under this Agreement, the prevailing party shall be entitled to reasonable attorney's fees and costs.
5. The Client agrees that any and all limitations of the Consultant's liability and indemnifications by the Client to the Consultant shall include and extend to those individuals and entities the Consultant retains for performance of the services under this Agreement, including but not limited to the Consultant's officers, partners, and employees and their heirs and assigns, as well as the Consultant's subconsultants and their officers, employees, heirs, and assigns.
6. Consultant's construction observation Services, if any, shall be limited to observation of construction operations to provide Client with an understanding of the general nature, progress, and quality of the work. Unless otherwise agreed in writing, Consultant shall not be responsible for continuous or exhaustive inspection of the work. In no event shall Consultant be responsible for the means and methods of construction or for the safety procedures employed by Client's contractor. Client shall hold its contractor solely responsible for the quality and completion of the Project, including but not limited to its construction in accordance with the construction documents.
7. Consultant shall sign certifications only if Consultant approves the form of such certification prior to the commencement of Services, such certification is included in Consultant's scope of services, and provided such certification is limited to a statement of professional opinion. Consultant shall not be obligated to provide a warranty or guarantee, express or implied.
8. Client shall notify Consultant at least twenty-four (24) hours in advance of any necessary tests and observations. If Client assigns this responsibility to a contractor, subcontractor, or other third party, or if Client fails to provide the proper notice, Consultant shall not be responsible for any damages resulting from improper notice.
9. All samples shall remain the property of the Client, and Client shall promptly at its cost remove and lawfully dispose of samples, cuttings, and hazardous materials, unless otherwise agreed in

writing. If appropriate, Consultant shall preserve samples obtained for the Project for not longer than sixty (60) days after the issuance of any document that includes the data obtained from those samples.

10. Client shall bear sole responsibility for notifying all prospective purchasers or other appropriate third parties including, but not limited to, all appropriate municipal, regional, state, or federal agencies of the existence of any hazardous or dangerous materials located in or around the Project site.
11. Client shall provide Consultant with all information regarding existing conditions, including the existence of hazardous or dangerous materials, and proposed uses of the Project site and shall correctly designate the location of all property lines of the Project site and all subsurface installations, such as pipes, tanks, cables, electrical lines, telephone lines and utilities within the Project site. Client shall immediately provide Consultant with any new information, including any change in plans. Client releases Consultant from liability for any incorrect advice, judgment or decision based on any inaccurate information furnished by Client or others. If reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including hazardous materials, encountered on the site by Consultant, Consultant shall, upon recognizing the condition, immediately stop work in the affected area and report the condition to Client.
12. Reports, boring logs, maps, field data, drawings, test results and other work product produced by the Consultant are part of Consultant's professional services, and do not constitute goods or products. Consultant reserves the right to copyright such work.
13. Data stored on electronic media can deteriorate undetected or be modified without Consultant's knowledge. The Client agrees that it will accept responsibility for the completeness, correctness, or readability of the electronic media after an acceptance period of 30 days after delivery of the electronic files.
14. The Client shall allow the Consultant access to the Project site at the Client's sole cost. Client shall cooperate with all reasonable requests by Consultant that are related to the performance of the Services.
15. Consultant's potential liability to Client and others is grossly disproportionate to Consultant's fee due to the size, scope, and value of the Project. Therefore, unless Client and Consultant otherwise agree in writing in consideration for an increase in Consultant's fee, Client agrees to (1) limit Consultant's liability to twice the amount of Consultant's fee, and (2) indemnify Consultant against all claims, liability, damages, or expenses (except for Consultant's sole negligence or willful misconduct) arising out of or relating to all acts, failures to act, or other conduct of Consultant, including but not limited to, claims, liability, damages, or expenses arising out of or relating to the active negligence or other fault of Consultant. Client shall indemnify Consultant even if Client is partially or wholly without fault for such claims, liability, damages, or expenses even if liability is claimed to have arisen while Consultant was performing work outside the scope of services set forth on page 1.
16. All disputes between Consultant and Client, with the exception of non-payment issues, shall first be subject to non-binding mediation. Either party may demand mediation by serving a written notice stating the essential nature of the dispute and demanding that the mediation proceed within sixty (60) days of service of notice. The mediation shall be administered by the American Arbitration Association or by such other person or organization as the parties may agree upon. No action or suit may be commenced unless (1) the mediation does not occur within ninety (90) days after service of notice, (2) the mediation occurs within ninety (90) days after service of notice but does not resolve the dispute, or (3) a statute of limitation would elapse if suit was not filed prior to ninety (90) days after service of notice.

17. If Client insures property, real or personal, or both, at or adjacent to the Project by property insurance, whether during or after the completion of the construction of the Project, Client agrees to waive all subrogation claims against Consultant for damages caused by fire or other causes of loss to the extent covered by such property insurance.
18. Client waives all claims against Consultant for all claims, liabilities, losses, and expenses arising out of or relating to Client's failure to perform, in whole or in part, any of its obligations under this Agreement and any subsequent agreements.
19. Client shall be responsible for safety at the job site.
20. If during the course of performance of this Agreement conditions or circumstances are discovered which were not contemplated by Consultant at the commencement of this Agreement, Consultant shall notify Client in writing of the newly discovered conditions or circumstances, and Client and Consultant shall renegotiate, in good faith, the terms and conditions of this Agreement. If amended terms and conditions cannot be agreed upon within thirty (30) days after notice, Consultant may terminate this Agreement and Consultant shall be paid for its services through the date of termination.
21. Client shall furnish to Consultant within fifteen (15) days after receipt of a written request information necessary and relevant for the Consultant to evaluate, give notice of, or enforce mechanic's lien rights. Such information shall include a correct statement of the record legal title to the property on which the Project is located, the name of the Project lender, and the Client and/or Owner's interest therein.
22. Except for actions such as for enforcement of mechanic's liens which are required by statute to be brought in a specific venue, in the event that litigation is instituted under the terms of this Agreement, the same is to be brought and tried in the judicial jurisdiction of the court of the county in which this Agreement is made. Client waives the right to have the suit brought, or tried in, or removed to, any other county or judicial jurisdiction.

**--End of General Conditions--**

August 27, 2021

File No. 03479



S&C Associates  
PO Box 2647  
Ketchum, Idaho 83340

Attention: Sherri Newland, P.E., CPESC

Subject: Proposed Scope of Services  
SH-75 Spur – Pavement Design  
Blaine County, Idaho

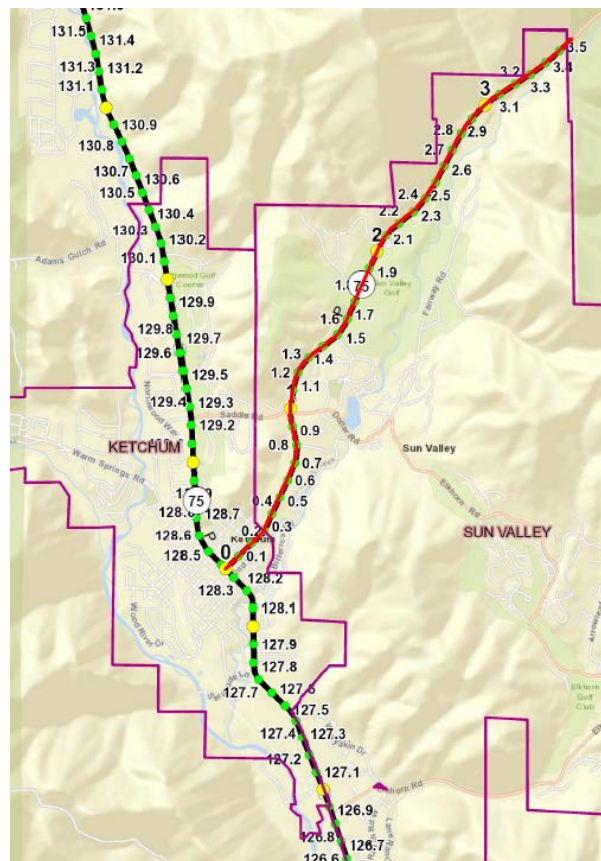
Dear Sherri,

American Geotechnics (AGEO) is pleased to submit our proposed scope of services.

### *Understanding*

We understand the proposed roadway study is located on the SH-75 spur (Sun Valley Road) between MP 0 to 0.33 as shown on the adjacent map. The limits of our subsurface investigation will extend from the intersection at SH-75 with Main Street (MP 0) to about 300 feet east of Spruce Ave (MP 0.33) approximately where the guardrail begins on the south side of the Sun Valley Road.

Portions of the study segment show signs of substantial rutting, which is likely an indication of inadequate pavement structure for current truck traffic levels. This segment is bounded by gutters, that will be retained. It is desired to maintain



the existing roadway profile. A pavement reconstruction strategy is anticipated for a minimum 20 years of additional service with the intent to extend service to at least 36 years using appropriate rehabilitation interventions. Our pavement design will be based on a 20-year analysis period beginning in 2023.

We will work with S&C Associates to determine an appropriate traffic index (TI) load for use in sizing the pavement structure layers. Flexible pavement type is desired.

### ***Deliverables***

AGEO will submit a Roadway Materials Report (.pdf) that will contain the following:

- Pavement boring location map and boring logs.
- Laboratory test reports, including R-Value and subgrade expansion measurements.
- Design traffic index.
- Flexible pavement structure for reconstruction.
- Materials estimating information and specifications information assuming the project will be constructed to ISPWC standards.

### ***Technical Approach***

For pavement design, we propose using the Idaho R-value Method.

Our work product will conform to the general requirements of the ITD Materials Manual and the ISPWC specifications.

AGEO will develop a single pavement structure for use on Sun Valley Road and appurtenant intersections.

### ***Scope of Services***

AGEO proposes to provide materials and geotechnical services in accordance with a five-step process, consisting of:

1. Reconnaissance and advance preparations
2. Subsurface explorations
3. Laboratory testing



4. Analyses
5. Reporting

Specifically, we propose the following activities, which are included in AGEO's cost estimate work breakdown:

### **Reconnaissance and Advance Preparations**

- Coordination with S&C Associates and the City, as appropriate to paint/stake boring locations
- Prepare project-specific field investigation instructions for AGEO field personnel.
- Prepare a traffic control plan for the roadway drilling and a schedule and submit to S&C Associates and the City of Ketchum.
- Contract the services of an ITD qualified traffic control provider for one day of drilling.
- Coordinate with DIGLINE and the City of Ketchum to clear drill holes locations.
- Coordinate with S&C Associates to develop a design traffic index.

### **Subsurface Explorations**

- Mobilization
- Day drilling: Drill rig and advance three borings to up to 6 ft bgs, including travel. At each boring location, log and obtain subgrade R-Value samples, and patch the roadway pavement using cold mix.

### **Laboratory Testing**

- Unload samples, complete custody log-in, and store. Review samples and prepare/coordinate testing instructions. Review test reports. At project closure, dispose of samples at Hidden Hollow Landfill.

### **Analyses**

- Prepare a flexible pavement design using ITD R-Value methodology.

## Reporting

- Prepare appendices.
- Roadway Materials Report write-up.
- AGEO internal review; Address comments.
- Issue for S&C review; Address comments.
- Issue for owner/agency review; Prepare comment resolution form; Modify the report; Submit one sealed report.

## Administration

- Perform general project management.

## Key Understandings

The following assumptions are a basis for our proposed scope of services:

- Traffic counter information by AGEO is not desired.
- Regulating entities will not restrict work day or work hours for roadway data collection including drilling. Night time work is not planned or required.
- Traffic control permit application and fee are not required and will be waived by regulating entities.
- Public notification of field work is not required.
- Roadway drilling during winter conditions is not required. For safety, drilling will be performed only when the roadway is dry.
- Cultural clearance of pavement borings is not required.
- Hazardous subgrade materials are not anticipated.

## Cost and Schedule

Our fee for this proposed scope of services is \$14,435.31, on a CPFF basis.

It is anticipated that the field work will be accomplished in the fall of 2021. A report can be issued about three weeks after the field work is completed. A complete schedule will be provided to S&G following receipt of notice to proceed.

Proposed Scope of Services  
SH-75 Spur – Pavement Design  
Blaine County, Idaho



File No. 03479  
August 27, 2021

We look forward to the fruition of this project.

Respectfully submitted,

**American Geotechnics**

A blue ink signature of Stanley G. Crawford, written in a cursive style, positioned above a horizontal line.

Stanley G. Crawford, P.E.  
Geotechnical Engineer

A blue ink signature of Justin S. Stoffel, written in a cursive style, positioned above a horizontal line.

Justin S. Stoffel, P.E.  
Geotechnical Engineer

Attachments:      Cost Summaries  
                         Engineering Services Agreement

# SH-75 Spur



## Cost Summary

File No. 03479

8/27/2021

Transmittal 2

### A. DIRECT LABOR (day time)

|                              | Hours     |   | Rate    | = | Labor Cost          |
|------------------------------|-----------|---|---------|---|---------------------|
| 1 Principal                  | 0         | @ | \$70.00 | = | \$0.00              |
| 2 Project Manager            | 19        | @ | \$47.75 | = | \$907.25            |
| 3 QA                         | 1         | @ | \$70.00 | = | \$70.00             |
| 4 Engineer                   | 30        | @ | \$47.75 | = | \$1,432.50          |
| 5 Geologist                  | 0         | @ | \$0.00  | = | \$0.00              |
| 6 CADD                       | 0         | @ | \$14.50 | = | \$0.00              |
| 7 Tech                       | 14        | @ | \$26.63 | = | \$372.82            |
| 8 Admin                      | 3         | @ | \$32.21 | = | \$96.63             |
| 9                            | 0         | @ | \$0.00  | = | \$0.00              |
|                              | <u>67</u> |   |         |   | <u></u>             |
| <b>SUBTOTAL DIRECT LABOR</b> |           |   |         |   | <b>= \$2,879.20</b> |

### C. OVERHEAD COST

|                         |   |                   |        |   |            |
|-------------------------|---|-------------------|--------|---|------------|
| Total Direct Labor Cost |   | Overhead Multiple |        |   |            |
| \$2,879.20              | X | 138.47%           | 1.3847 | = | \$3,986.83 |

### D. NET FEE

|                            |   |         |      |   |          |
|----------------------------|---|---------|------|---|----------|
| Total Raw Labor & Overhead |   | Net Fee |      |   |          |
| \$6,866.03                 | X | 13.0%   | 0.13 | = | \$892.58 |

### E. DIRECT EXPENSE SUMMARY

#### Escalation:

|                             |   |
|-----------------------------|---|
| Anticipated Agreement date: | September 1, 2021                       |
| Contract Duration:          | 3.0 (months)                            |
| Escalation Period:          | 3.0 (months after Sep 1 <sup>st</sup> ) |

|                        |   |                |   |                   |           |
|------------------------|---|----------------|---|-------------------|-----------|
| Total Labor & Overhead |   | Period (years) |   | Annual Escalation |           |
| \$6,866.03             | X | 0.25           | X | 3.0%              | = \$51.50 |

**Facilities Capital Cost of Money (FCCM):** 0.58% X \$2,879.20 = \$16.70

**Field Directs:** \$3,767.00

**Lab Directs:** \$2,841.50

**NOT-TO-EXCEED AMOUNT = \$14,435.31**

# SH-75 Spur



## Work Break-Down and Day Labor Hours

File No. 03479

8/27/2021

Transmittal 2

| Deliverable/Activity  | Principal                      | Project Manager | QA  | Engineer | Geologist | CADD | Tech | Admin |     | Total |
|---|--------------------------------|-----------------|-----|----------|-----------|------|------|-------|-----|-------|
| <b>1.0 Administration</b>   | <b>3 month level of effort</b> |                 |     |          |           |      |      |       |     |       |
| Prepare Contract, project Start-up, close-out, invoicing  |                                | 1               |     |          |           |      |      | 3     |     | 4.0   |
| General project management  |                                | 4               |     |          |           |      |      |       |     | 4.0   |
| Subtotal  | 0.0                            | 5.0             | 0.0 | 0.0      | 0.0       | 0.0  | 0.0  | 3.0   | 0.0 | 8.0   |
| <b>2.0 GEOTECHNICAL STUDY</b>   |                                |                 |     |          |           |      |      |       |     |       |
| <b>2.1 Reconnaissance and Advance Preparations</b>  |                                |                 |     |          |           |      |      |       |     |       |
| Coordination with S&C Associates and the City, as appropriate to paint/stake boring locations   |                                | 2               |     |          |           |      |      |       |     | 2.0   |
| Prepare project-specific field investigation instructions for AGEO field personnel.   |                                | 1               |     |          |           |      |      |       |     | 1.0   |
| Prepare a traffic control plan for the roadway drilling and a schedule and submit to S&C Associates and the City of Ketchum.  |                                | 2               |     |          |           |      |      |       |     | 2.0   |
| Contract the services of an ITD qualified traffic control provider for one day of drilling.   |                                | 2               |     |          |           |      |      |       |     | 2.0   |
| Coordinate with DIGLINE and the City of Ketchum to clear drill holes locations.   |                                |                 |     | 1        |           |      |      |       |     | 1.0   |
| Coordinate with S&C Associates to develop a design traffic index.   |                                | 2               |     |          |           |      |      |       |     | 2.0   |
| Subtotal  | 0.0                            | 9.0             | 0.0 | 1.0      | 0.0       | 0.0  | 0.0  | 0.0   | 0.0 | 10.0  |
| <b>2.2 Subsurface Investigation</b>   |                                |                 |     |          |           |      |      |       |     |       |
| Mobilization  |                                |                 |     | 6        |           |      | 8    |       |     | 14.0  |
| Day drilling: Drill rig and advance three borings to up to 6 ft bgs, including travel. At each boring location, log and obtain subgrade R-Value samples, and patch the roadway pavement using cold mix. |                                |                 |     | 4        |           |      | 4    |       |     | 8.0   |
| Subtotal  | 0.0                            | 0.0             | 0.0 | 10.0     | 0.0       | 0.0  | 12.0 | 0.0   | 0.0 | 22.0  |
| <b>2.3 Laboratory Testing</b>   |                                |                 |     |          |           |      |      |       |     |       |
| Unload samples, complete custody log-in, and store. Review samples and prepare/coordinate testing instructions. Review test reports. At project closure, dispose of samples at Hidden Hollow Landfill.  |                                |                 |     | 3        |           |      |      |       |     | 3.0   |
| Subtotal  | 0.0                            | 0.0             | 0.0 | 3.0      | 0.0       | 0.0  | 0.0  | 0.0   | 0.0 | 3.0   |

# SH-75 Spur



## Work Break-Down and Day Labor Hours

File No. 03479

8/27/2021

Transmittal 2

| Deliverable/Activity   | Principal  | Project Manager | QA         | Engineer    | Geologist  | CADD       | Tech        | Admin      |            | Total       |
|--|------------|-----------------|------------|-------------|------------|------------|-------------|------------|------------|-------------|
| <b>2.4 Data Development and Analyses</b>   |            |                 |            |             |            |            |             |            |            |             |
| methodology.   |            |                 |            | 4           |            |            |             |            |            | 4.0         |
| Subtotal   | 0.0        | 0.0             | 0.0        | 4.0         | 0.0        | 0.0        | 0.0         | 0.0        | 0.0        | 4.0         |
| <b>2.5 Reporting</b>   |            |                 |            |             |            |            |             |            |            |             |
| <b>Roadway Materials Report</b>  |            |                 |            |             |            |            |             |            |            |             |
| Prepare appendices.  |            |                 |            | 2           |            |            | 2           |            |            | 4.0         |
| Roadway Materials Report write-up.   |            | 2               |            | 8           |            |            |             |            |            | 10.0        |
| AGEO internal review; Address comments.  |            | 1               | 1          |             |            |            |             |            |            | 2.0         |
| Issue fo S&G review; Address comments.   |            | 1               |            | 1           |            |            |             |            |            | 2.0         |
| Issue for owner/agency review; Prepare comment resolution form; Modify the report; Submit one sealed report. |            | 1               |            | 1           |            |            |             |            |            | 2.0         |
| Subtotal   | 0.0        | 5.0             | 1.0        | 12.0        | 0.0        | 0.0        | 2.0         | 0.0        | 0.0        | 20.0        |
| <b>TOTAL</b>   | <b>0.0</b> | <b>19.0</b>     | <b>1.0</b> | <b>30.0</b> | <b>0.0</b> | <b>0.0</b> | <b>14.0</b> | <b>3.0</b> | <b>0.0</b> | <b>67.0</b> |

Note 1.: Geotechnical- and materials-related field activities, such as drilling, test excavations, and field testing, may involve 10- to 12-hour work days. This estimate is based on 10- hours work days for field work. Invoicing will reflect actual field time, including daily travel to the work site.



Quotations  
for  
SH-75 Spur

SH-75 Spur



2022 Laboratory Testing Schedule - Confidential

File No. 03479

8/27/2021

Transmittal 2

| Billing Code                               | Method     | Item  | Quantity | Unit | Cost   | Extended Cost     |
|--|------------|---|----------|------|--------|-------------------|
| <b>SOIL CLASSIFICATION AND INDEX TESTS</b> |            |   |          |      |        |                   |
|  |            | <i>Laboratory Classification</i>                        |          |      |        |                   |
| L100                                       | ASTM D2216 | Water Content   | 3        | EA   | 22.50  | 67.50             |
|  |            | <i>Atterberg Limits/Plasticity</i>                      |          |      |        |                   |
| L120                                       | ASTM D4318 | 3 pt LL, 1 pt PL (Atterberg Limits)                     | 3        | EA   | 125.00 | 375.00            |
|  |            | <i>Particle-Size Analysis</i>                           |          |      |        |                   |
| L145                                       | ASTM C136  | Full Gradation with Wash (large sample, minus #4 split) | 3        | EA   | 140.00 | 420.00            |
| L155                                       | ASTM D422  | Hydrometer to 0.002 mm (includes gradation)             | 1        | EA   | 220.00 | 220.00            |
| L160                                       | ASTM D2419 | Sand Equivalent   | 1        | EA   | 63.00  | 63.00             |
| <b>SOIL STRENGTH AND DEFORMATION</b>       |            |   |          |      |        |                   |
| L230                                       | ASTM D2844 | R-Value   | 3        | EA   | 540.00 | 1,620.00          |
| <b>OTHER SERVICES</b>                      |            |   |          |      |        |                   |
| L900                                       |            | Soil Sample Storage (per 5 gal. bucket or Bulk Sample)  | 1        | EA   | 6.00   | 6.00              |
| L902                                       |            | Sample Disposal in Hidden Hollow Landfill               | 1        | EA   | 70.00  | 70.00             |
| <b>TOTAL LABORATORY DIRECTS</b>            |            |   |          |      |        | <b>\$2,841.50</b> |

**Pricing Updates:** Laboratory pricing is updated annually, as appropriately determined by American Geotechnics. Laboratory tests will be billed at current standard rates, which may be different than the unit prices listed herein. Expedited fees may apply.

**Delivery:** Pricing assumes delivery by client, unless other arrangements are made.

**Sample Storage Policy:** Samples will be stored for 60 days after testing and then disposed of by American Geotechnics, unless other arrangements are made.



2022 Field Directs

8/27/2021

Transmittal 2

| Description | Quantity | Unit | Unit Cost (FY 2017) | Extended Cost |
|-------------|----------|------|---------------------|---------------|
|-------------|----------|------|---------------------|---------------|

**Project Coordination and Administration**

|  |  |       |  |  |
|--|--|-------|--|--|
| Lodging (FY21 per diem + estimated 15% taxes and fees) |  | Night |  |  |
| M&IE   |  | Day   |  |  |
| Rental Car (Including insur & taxes)                   |  | Day   |  |  |
| Gasoline for Rental Car                                |  | Day   |  |  |
| Light Duty Vehicles - Mileage                          |  | Mile  |  |  |
| Heavy Duty Vehicle - Mileage                           |  | Mile  |  |  |
| Towing Surcharge - Mileage                             |  | Mile  |  |  |

**Subtotal \$0.00**

**Site Reconnaissance**

|  |   |       |  |  |
|--|---|-------|--|--|
| Lodging (FY21 per diem + estimated 15% taxes and fees) |   | Night |  |  |
| M&IE   |   | Day   |  |  |
| Rental Car (Including insur & taxes)                   |   | Days  |  |  |
| Gasoline for Rental Car                                |   | Day   |  |  |
| Light Duty Vehicles - Mileage                          |   | Mile  |  |  |
| Heavy Duty Vehicle - Mileage                           | 0 | Mile  |  |  |
| Towing Surcharge - Mileage                             |   | Mile  |  |  |

**Subtotal \$0.00**

**Subsurface Explorations**

|  |  |       |  |  |
|--|--|-------|--|--|
| Lodging (FY21 per diem + estimated 15% taxes and fees) |  | Night |  |  |
| M&IE   |  | Day   |  |  |
| Rental Car (Including insur & taxes)                   |  | Day   |  |  |
| Gasoline for Rental Car                                |  | Day   |  |  |
| Light Duty Vehicles - Mileage                          |  | Mile  |  |  |
| Heavy Duty Vehicle - Mileage                           |  | Mile  |  |  |
| Towing Surcharge - Mileage                             |  | Mile  |  |  |

|  |   |    |          |            |
|--|---|----|----------|------------|
| <b>Drilling &amp; Field Testing by American Geotechnics (See estimate)</b> | 1 | LS | 2,267.00 | \$2,267.00 |
|--|---|----|----------|------------|

**Subtotal \$2,267.00**

**Subcontractor Services**

|                 |   |    |          |            |
|-----------------|---|----|----------|------------|
| Traffic Control | 1 | LS | 1,500.00 | \$1,500.00 |
|-----------------|---|----|----------|------------|

**Subtotal \$1,500.00**

**TOTAL FIELD DIRECTS \$3,767.00**

**Note:** Subcontractors may be changed for the convenience of American Geotechnics in executing the project objectives. Actual field expenses often differ from the estimated costs.

**Pricing Updates:** Pricing is updated at least annually, as appropriately determined by American Geotechnics. Services and supplies will be billed at current standard rates, which may be different than the unit prices listed. Expedited fees may apply.

## 2022 AGEO Field Testing Schedule - Confidential

File No. 03479

8/27/2021

Transmittal 2

| Billing Code | Description | Quantity | Unit | Unit Cost (FY 2020) | Extended Cost |
|--------------|-------------|----------|------|---------------------|---------------|
|--------------|-------------|----------|------|---------------------|---------------|

### Support Vehicle

|      |                              |     |      |                 |                 |
|------|------------------------------|-----|------|-----------------|-----------------|
| F100 | Heavy Duty Vehicle - Mileage | 400 | Mile | 0.735           | \$294.00        |
| F100 | Towing Surcharge - Mileage   | 400 | Mile | 0.350           | \$140.00        |
|      |                              |     |      | <b>Subtotal</b> | <b>\$434.00</b> |
|      |                              |     |      | <b>Subtotal</b> | <b>\$0.00</b>   |

### Drilling and Sampling

|        |   |   |    |                 |                   |
|--------|---|---|----|-----------------|-------------------|
| F500.4 | AG Drill Rig Mobilization (Lump Sum)              | 1 | LS | 539.00          | \$539.00          |
| F539   | AG Drill Rig Auger Drilling and Sampling (hourly) | 4 | HR | 303.00          | \$1,212.00        |
|        |   |   |    | <b>Subtotal</b> | <b>\$1,751.00</b> |

### Drilling Supplies

|      |               |   |    |                 |                |
|------|---------------|---|----|-----------------|----------------|
| F584 | Asphalt Patch | 2 | EA | 41.00           | \$82.00        |
|      |               |   |    | <b>Subtotal</b> | <b>\$82.00</b> |

**SUBTOTAL AGEO Drilling and Field Testing      \$2,267.00**

**TOTAL AGEO Drilling and Field Testing      \$2,267.00**

**Note:** Subcontractors may be changed for the convenience of American Geotechnics in executing the project objectives. Actual field expenses often differ from the estimated costs.

**Pricing Updates:** Pricing is updated at least annually, as appropriately determined by American Geotechnics. Services and supplies will be billed at current standard rates, which may be different than the unit prices listed on the project estimate. Expedited fees may apply.