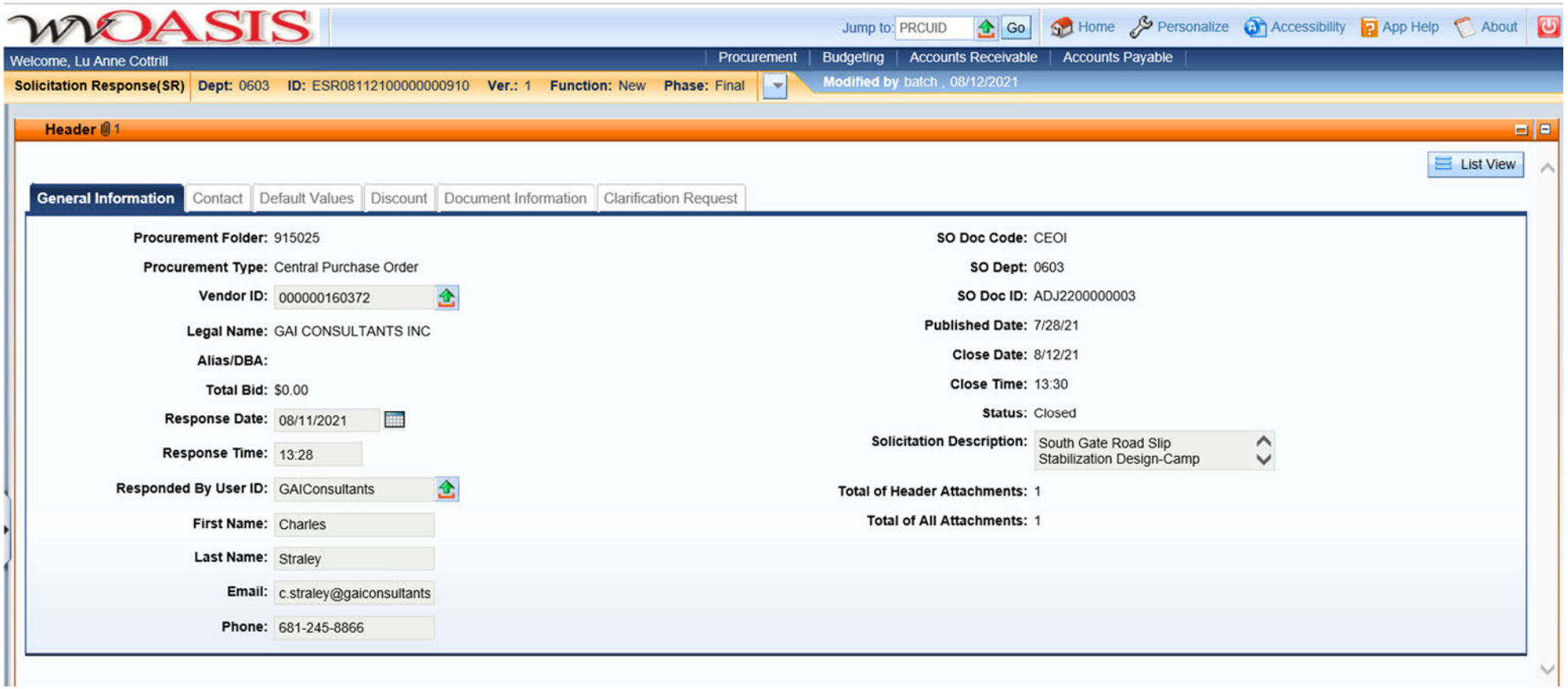
The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.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Procurement
Budgeting
Accounts Receivable
Accounts Payable
Solicitation Response(SR) Dept: 0603 ID: ESR08112100000000910 Ver.: 1 Function: New Phase: Final
Modified by batch , 08/12/2021
Header 1
List View
General Information
Contact
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Document Information
Clarification Request
Procurement Folder: 915025
Procurement Type: Central Purchase Order
Vendor ID: 000000160372
Legal Name: GAI CONSULTANTS INC
Alias/DBA:
Total Bid: $0.00
Response Date: 08/11/2021
Response Time: 13:28
Responded By User ID: GAIConsultants
First Name: Charles
Last Name: Straley
Email: c.straley@gaiconsultants
Phone: 681-245-8866
SO Doc Code: CEOI
SO Dept: 0603
SO Doc ID: ADJ2200000003
Published Date: 7/28/21
Close Date: 8/12/21
Close Time: 13:30
Status: Closed
Solicitation Description: South Gate Road Slip Stabilization Design-Camp
Total of Header Attachments: 1
Total of All Attachments: 1

Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Solicitation Response

Proc Folder:	915025
Solicitation Description:	South Gate Road Slip Stabilization Design-Camp Dawson
Proc Type:	Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2021-08-12 13:30	SR 0603 ESR08112100000000910	1

VENDOR

000000160372
GAI CONSULTANTS INC

Solicitation Number: CEOI 0603 ADJ2200000003

Total Bid: 0 **Response Date:** 2021-08-11 **Response Time:** 13:28:29

Comments:

FOR INFORMATION CONTACT THE BUYER
David H Pauline
304-558-0067
david.h.pauline@wv.gov

Vendor
Signature X **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	South Gate Road Slip Stabilization Design-Camp Dawson				0.00

Comm Code	Manufacturer	Specification	Model #
81101508			

Commodity Line Comments: Expression of interest only.

Extended Description:

Provide professional architectural and engineering design services per the attached documentation.

gai consultants®

Charleston Office
500 Lee Street East, Suite 700
Charleston, West Virginia 25301
T. 304.926.8100
F. 304.826.8180

August 12, 2021

Mr. David Pauline
Senior Buyer
State of West Virginia
Department of Administration,
Purchasing Division
2019 Washington Street East
Charleston, West Virginia 25305

Expression of Interest
West Virginia Army National Guard
Camp Dawson South Gate Road Slip Stabilization Design
Solicitation Number: CEOI 0603 ADJ2200000003

GAI Project #R210634.00

Dear Mr. Pauline:

GAI Consultants, Inc. (GAI) welcomes the opportunity to provide our Expression of Interest (EOI) to the State of West Virginia to provide Engineering Services for the West Virginia Army National Guard's (WVARNG's) Camp Dawson South Gate Road Slip Stabilization Design Project (Project), per the State's Solicitation No. CEOI 0603 ADJ2200000003. Our EOI concisely addresses the issues indicated in the State's Centralized Expression of Interest (CEOI) dated July 28, 2021. We understand the importance of this Project to the State and have assembled a proven Project Team with strong capabilities in successfully completing geotechnical investigations to determine causes of landslides in West Virginia, and who have extensive experience designing and repairing roadways damaged as a result of landslides and/or hillside slips. Our Team recently provided engineering design and remediation services for the White Avenue Slip Project located in Morgantown, West Virginia, for the City of Morgantown. GAI believes our Team is exceptionally qualified to meet the needs of this Project based on the following considerations:

- **Expertise in Geotechnical Engineering and Foundation Stabilization Projects.** Since 1958, GAI has established itself as a premier engineering and consulting firm specializing in foundation and soil mechanics engineering. Our project experience ranges from landslide stabilization and restoration, to subsurface investigations and design, to site development and restoration. GAI is experienced in the design and implementation of many geotechnical techniques that can be applied to landslide mitigation, including standard buttressing and benching as well as more specialty techniques such as soil nails, anchors, and micropile insert walls. The GAI Team also has experience in the design of various types of retaining wall solutions.
- **Key Personnel.** GAI's proposed **Project Manager, Charles Straley, PE, PLS, MS,** is a licensed Professional Engineer (PE) and Professional Licensed Surveyor (PLS) in West Virginia with over 30 years of experience specializing in project management and geotechnical engineering services for numerous landslide projects throughout West Virginia. **GAI's top performers** specializing in Geotechnical, Foundation, and Roadway Engineering will be provided to the WVARNG for this important Project.
- **Local Presence.** GAI has two offices located within the State of West Virginia, including Bridgeport and Charleston. GAI's Bridgeport Office is within an hour's drive from the Project. We are familiar with the region and have a thorough understanding of the regulatory approval process for roadway projects.
- GAI is **safety focused and schedule driven** with sufficient and flexible resources and staff to effectively provide the personnel for this Project.
- GAI understands the importance of this Project and we are dedicated to making this Project a **top priority**.

We look forward to the opportunity to work with the State of West Virginia and the WVARNG on this important Project. Should you have any questions or would like to speak with us about our EOI or services, please feel free to contact Project Manager, Charles Straley, at 681.245.8866 or via email at C.Straley@gaiconsultants.com.

Sincerely,
GAI Consultants, Inc.

Donald Splitstone, PE
Engineering Manager

Charles Straley, PE, PLS, MS
Senior Engineering Manager

DES:CFS/mdw

Attachment: EOI: WVARNG Camp Dawson South Gate Road Slip Stabilization Design

EXPRESSION OF INTEREST

WVARNG Camp Dawson South Gate Road Slip Stabilization Design

Solicitation Number: CEOI 0603 ADJ2200000003

August 12, 2021

GAI Project No. R210634.00

Prepared for:
State of West Virginia
Department of Administration,
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, West Virginia 25305
Attn: David Pauline, Senior Buyer

Prepared by:
GAI Consultants, Inc.
500 Lee Street East, Suite 700
Charleston, West Virginia 25301
304.926.8100 | gaiconsultants.com

gai consultants

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GAI Consultants, Inc. (GAI) welcomes the opportunity to provide our Expression of Interest (EOI) to the State of West Virginia to provide Engineering Services for the West Virginia Army National Guard (WVARNG) Camp Dawson South Gate Road Slip Stabilization Design Project (Project). Our EOI concisely addresses the issues indicated in the State's Solicitation No. CEOI 0603 ADJ2200000003, dated July 28, 2021.

INTRODUCTION

GAI began providing personalized consulting services in soil mechanics and foundation engineering services in 1958 in Pittsburgh, Pennsylvania. By steadily broadening our range of services and expanding our office locations throughout the United States, GAI has evolved into a premier employee-owned, award -winning, full-service engineering, environmental, and planning consulting firm. Today, through growth, acquisition, and much success, GAI has over 700 employees in 26 office locations, spanning across 12 states throughout the Northeast, Midwest, and Southern United States (U.S.), including offices in Bridgeport and Charleston, West Virginia.

GAI is a highly focused firm specializing in all aspects of geotechnical engineering and foundation design, in addition to providing engineering services for a wide-array of civil and construction monitoring projects. These projects vary from landslide stabilization and restoration, to building foundation designs and evaluations, to site development and restoration, including subsurface investigations and design, surveying, utility relocation, and related activities.

GAI is currently ranked 145 out of **Engineering News Record's (ENR's)** Top 500 Design Firms, and 141 out of **ENR's** Top 200 Environmental firms. Our commitment to proactive employment of the most proficient and motivated talent helps our clients tackle the ever-changing challenges of our industry, technology, and regulatory practices. In the process, GAI has become an environmental and engineering hub of in-house engineers, geologists, scientists, and other professionals who are always accessible to our clients.

GAI personnel have worked in the State of West Virginia for over 60 years, serving the West Virginia Department of Administration, West Virginia Army National Guard (WVARNG), West Virginia Department of Transportation, Division of Highways (WVDOH), West Virginia Conservation Agency, West Virginia General Services Division, West Virginia Department of Environmental Protection (WVDEP), West Virginia Division of Arts, Culture, and History (WVDACH), and West Virginia Department of Natural Resources (WVDNR), among others. We are familiar with the region and have a thorough understanding of the regulatory approval process for various types of projects. With 63 years of experience providing local expertise to worldwide clients in the development, government, energy, transportation, and industrial markets, GAI has the knowledge needed to perform geotechnical engineering services during design and construction phases of various projects for the State of West Virginia

QUALIFICATIONS AND EXPERIENCE

GEOTECHNICAL AND SOIL MECHANICS EXPERIENCE

Since 1958, GAI has established itself as a premier engineering and consulting firm specializing in foundation and soil mechanics engineering. Over the following years, GAI has amassed formidable experience in full-scale load testing of foundations, calibrating analytical models, and developing computer programs for designing foundations. Our geotechnical engineers and geologists are highly proficient in the fundamentals of engineering, soil and rock mechanics, foundation and slope engineering, seismic analyses, underground and surface mining, mine fires, and mine subsidence, as well as dam design and inspection.

When structures are built in areas where the uneven rise of expanding subgrades can occur, structural damage that was not anticipated can be a major concern. GAI investigates subgrade movements, determines their causes, and designs repairs that stabilize structures or eliminates the problem.

With proven foundation analysis and design capabilities, GAI also focuses on construction – using detailed quality control procedures to monitor the construction of all types of structures and foundations. As a matter of routine, we perform pile, pier, or plate load-testing, and vibration monitoring. We also conduct pre-blast or pre-driving surveys of facilities near a construction or demolition project to determine the presence of pre-construction damage.

Operating out of office locations throughout the United States, our specialists bring with them a wealth of knowledge from years of academic training, research, and practical field experience – knowledge that is bolstered by expertise from GAI staff members in other disciplines, such as structural engineering, groundwater engineering, and hydrologic/hydraulic engineering.

Geotechnical Engineering and Soil Science Specific Capabilities

- Geologic, subsidence, and landslide assessments
- Landslide and subsidence studies and remediation design
- Subsurface studies, investigations, and stabilizations
- Geologic studies and reconnaissance
- Site characterization and undisturbed soil sampling
- Soil borrow investigations
- Foundation recommendations, design, and research
- Foundation testing, analysis, and detailed design
- Geogrid Reinforced Soil and Mechanically Stabilized Earth (MSE) design
- Slope stability analysis and embankment and cut slope design
- Catastrophic damage inspection and analyses
- Stress capacity investigations
- Shop drawing review
- Soil, rock anchors, and nails
- Concrete, rock, grout, and cone penetrometer testing
- Pile and caisson drilling inspection
- Drilled shaft and grillage design
- Wastewater disposal and agricultural utilization
- Soil improvement techniques
- Geoarchaeology, geomorphology, and pedology
- Construction monitoring

CONSTRUCTION ENGINEERING AND INSPECTION EXPERIENCE

GAI monitors the daily activities and building materials that are critical to Construction Engineering and Inspection projects with the following in mind—client service, construction integrity, and a successfully completed project. Whether GAI provides transportation construction monitoring, construction engineering and inspection for development, or construction management services for massive energy facility projects, our pool of resident engineers and construction specialists skillfully address the distinct construction challenges of clients in all industries.

GAI's construction professionals test construction material quality, inspect workmanship, and monitor on-site construction safety. Our services often include progress and materials reporting, shop drawing review, plan interpretation, pay request administration, claims and disputes resolution, and more. We follow each stage of construction to verify that the work is executed in accordance with the contract documents, and administer concrete, bituminous material, steel, and soil sample testing.

GAI provides quality control and cost protection throughout the building process so the work meets or exceeds quality standards. Clients' projects are professionally delivered with minimal or no construction delays, cost overruns, or safety violations. GAI's project portfolio includes construction services for major highways and bridges, large-scale site developments, wastewater treatment plants, industrial facilities, and power plants. We specialize in complex, multiphase construction projects for state agencies, municipalities, institutions, private developers, and power providers. Our repeat success is based on building trusted relationships with clients and contractors, and helping them meet their project goals.

PROPOSED SUBCONSULTANTS

EnviroProbe Integrated Solutions - Subsurface Drilling Services

GAI is proposing to use EnviroProbe Integrated Solutions (EnviroProbe) for Subsurface Drilling Services and to assist in engineering and testing services. Founded in 2006, EnviroProbe is a woman-owned small business located in Morgantown and Nitro, West Virginia. EnviroProbe's diverse staff includes engineers, environmental professionals, geologists, scientists, Licensed Remediation Specialists, certified well drillers Licensed Water Well Drillers, equipment operators, inspectors/field technicians, and laborers. EnviroProbe's experienced operators have provided direct-push, environmental drilling, and geotechnical drilling services since 1995. EnviroProbe's staff values industry-leading safety practices holding high standards for both employee and jobsite safety 24/7. EnviroProbe's drillers are certified, and all of their team members undergo strict protocols – ensuring safety is a number one priority at all times. EnviroProbe is a member of ISNetworld, Avetta, PEC Safety, and SafeLandUSA.

Geotechnics, Inc. - Construction Materials Testing Services

For more than 20 years, projects around the world have been built using Geotechnics, Inc. (Geotechnics). Their Geotechnical laboratories are equipped to handle any testing need, no matter the size or scope. From a few samples with basic classification tests to several hundred samples with a complex series of characterization, compaction, consolidation, strength and permeability tests. Their extensive facilities enable them to perform a myriad of tests simultaneously on samples of any size and their geotechnical laboratories are home to some of the most comprehensive test equipment in the country. The Geotechnics testing laboratory is recognized as being in compliance with NQA-1-1994 Edition Quality Assurance Requirements for Nuclear Facility Applications. Geotechnics has facilities near Pittsburgh, Pennsylvania; Raleigh, North Carolina; and Nashville, Tennessee.

City of Pittsburgh | On-Call Geotechnical Engineering Services

KEY PERSONNEL EXPERIENCE

GAI's key personnel for this Project specialize in foundation and soil mechanics engineering, ranging from landslide stabilization and restoration, to subsurface investigations and design, to site development and restoration. A Project Organizational Chart and Key Personnel Resumes are located in **Appendix A.**

Charles Straley, PE, PLS, MS - Project Manager

Mr. Straley is a Senior Engineering Manager with GAI and will serve as the Project Manager for this Project. He has over 35 years of engineering experience and is a licensed Professional Engineer (PE) in West Virginia, Ohio, Kentucky, and Indiana; and a Professional Licensed Surveyor (PLS) in West Virginia. Mr. Straley has over 35 years of experience specializing in geotechnical engineering, including all aspects of landslide investigations, subsurface exploration, foundation and embankment design, slope stability, material and construction specifications, laboratory testing, and construction administration, management, and monitoring. Mr. Straley will be readily accessible to the State of West Virginia, and he is committed to overseeing the successful completion of Project. He will oversee this project from GAI's Charleston, West Virginia office. His management experience, combined with his 35 years of geotechnical engineering expertise, will aid in the successful completion of this Project in a timely, technically sound, and cost-efficient manner. Mr. Straley has worked on numerous landslide projects throughout West Virginia. He was recently the Principal-in-Charge and Lead Geotechnical Engineer for the White Avenue Slip Project located in Morgantown, West Virginia. He has also worked on landslide investigation and remediation projects for the WVDEP, the Morgantown Utility Board, and the Pennsylvania Department of Transportation (PennDOT), among others. Mr. Straley is a native of West Virginia and holds an MS in Geotechnical Engineering and a BS in Civil Engineering from The University of Akron.

Donald Splitstone, PE - Lead Geotechnical Engineer

Mr. Splitstone is an Engineering Manager with GAI and will serve as the Lead Geotechnical Engineer for this important Project. He has over 22 years of experience specializing in design and construction of geotechnical engineering projects, including developing geotechnical investigations, treatment schemes, details, plans, and specifications for various design projects. He has also been involved in the analysis, design, and report preparation for a multitude of projects, including shallow and deep (driven and drilled) foundations, various types of retaining walls and support of excavation, embankment and cut-slope stability, landslide investigations and remediations, karst conditions, and flexible and rigid structural pavement. He has experience with design-bid-build, design-build and accelerated construction project delivery mechanisms. Mr. Splitstone's field and construction experience includes site reconnaissance and inspection for subsurface investigations (sample identification and logging), general construction inspection, forensic investigations, and specialty geotechnical construction. Mr. Splitstone is a licensed PE in West Virginia, Ohio, Pennsylvania, and Florida. His graduate studies were in Geotechnical Engineering at the University of Pittsburgh. He holds a BS in Civil and Environmental Engineering from the University of Pittsburgh, and a BS in Engineering Physics from Miami University in Oxford, Ohio.

Keith Schoon, PE, MS - Geotechnical Engineer

Mr. Schoon is a Project Engineer with GAI and will serve as a Geotechnical Engineer for this Project. He has over 10 years of experience specializing in design and construction of geotechnical engineering projects, including embankment stability analyses and remediation recommendations, seepage analyses, design of deep foundations and retaining structures, and geotechnical investigations. He recently was the Geotechnical Task Manager for the White Avenue Slip Project located in Morgantown, West Virginia. This project required on-site investigations to determine the exact condition and size of the landslide, stabilization of the hillside, road repair, drainage upgrades, and remediation below the slip. His experience includes construction engineering and inspection, plan preparation, quantity take-offs, cost estimating, and report writing. Mr. Schoon is a licensed PE in Pennsylvania. He received his MS and BS in Civil Engineering from the University of Pittsburgh.

Abeera Batool, PhD, PE - Geotechnical Engineer

Dr. Batool is a Senior Project Engineer with GAI and will serve as a Geotechnical Engineer for this important Contract. She has over 14 years of experience specializing in geotechnical engineering projects, including experience in slope stability analysis, development of soil profiles and parameters for designs, design of retaining walls, design of deep and shallow foundations, and interpretation of subsurface conditions. She has experience with tracking and processing geotechnical data, conducting site visits to maintain quality control, correspondence with field engineers, and being onsite for construction supervision. Dr. Batool is a licensed PE in California. She has worked on numerous landslide investigation and soil remediation projects in West Virginia and Pennsylvania. Dr. Batool received her PhD in Civil Engineering from Virginia Polytechnic Institute and State University.

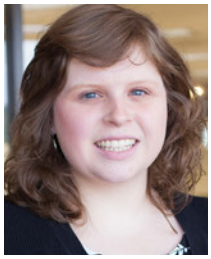
Richard Ruffolo, PG, MS - Geological Manager

Mr. Ruffolo is a Geological Manager with GAI with 20 years of geological experience specializing in landslide investigations and remediations; subsurface exploration and investigations; foundation and slope stability analysis and design; foundation design; and geotechnical report writing. He is a licensed geologist in Pennsylvania, North Carolina, and Kentucky. Mr. Ruffolo's experience includes rock strength studies, drilling and micropile installation monitoring, foundation construction monitoring, and monitoring core logging. He has provided his geological expertise to numerous landslide investigation and remediation projects throughout West Virginia and Pennsylvania. Mr. Ruffolo received his MS in Geology from Kent State University, and holds a BS in Environmental Geology from the University of Pittsburgh.

Michael Holbert, PE - Lead Roadway and Traffic Engineer

Mr. Holbert is a Senior Transportation Technical Leader with GAI, and is a licensed PE in West Virginia, Pennsylvania, and Maryland with over 25 years of experience in roadway and transportation engineering, including developing plans, specifications, and cost estimates; design studies; and preliminary and final engineering for numerous roadways and bridges. Mr. Holbert is intimately familiar with local, state, and federal regulatory processes for roadway projects. Headquartered out of GAI's Bridgeport, West Virginia office, his project management experience, combined with his 25 years of civil engineering and roadway and transportation engineering expertise, will aid in the successful completion of this Project in a timely, technically sound, and cost-efficient manner. Mr. Holbert was recently the Project Manager for the City of Morgantown's White Avenue Slip Project. Prior to working with GAI, Mr. Holbert worked for the WVDOH. He holds a BS in Civil Engineering (Summa Cum Laude) from West Virginia University.

Rachel McCoy, PE - Roadway and Traffic Engineer



Ms. McCoy is a Project Engineer with GAI and will provide Engineering Support, as needed, for this Contract. She has over seven years of civil engineering experience, including roadway design, permitting, utility coordination, cost estimating, plan development, and maintenance of traffic design. Ms. McCoy is a licensed PE in West Virginia and Virginia. Prior to her employment with GAI, Ms. McCoy worked for the WVDOH, serving as Project Manager for several roadway and bridge projects. Her experience includes coordinating utility relocations, designing gas and water line relocations, designing roadway horizontal and vertical alignments using MicroStation and InRoads, and determining appropriate right-of-way takes. Located out of GAI's Charleston, West Virginia office, she recently provided roadway and traffic engineering support to the White Avenue Slip Project for the City of Morgantown. Ms. McCoy received her BS in Civil Engineering with a Minor in Mathematics from the West Virginia University Institute of Technology.

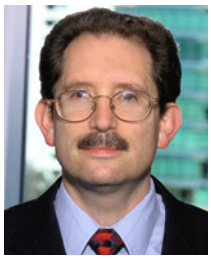
Terry Queen - Lead Construction Technician

Mr. Queen is a Lead Construction Technician with GAI and has over 25 years of construction monitoring and drafting experience. He specializes in construction monitoring for municipal and infrastructure projects and develops preliminary and final designs for site development projects, and prepares construction drawings for highway and bridge projects. Mr. Queen compiles engineering data from a variety of sources, processes data using well-defined methods, and presents data in prescribed formats. He has worked on numerous landslide projects in West Virginia for the WVDEP and the Morgantown Utility Board, among others. His experience includes monitoring drilling activities, providing daily boring logs, and rock coring sampling.

Dave Baker, Sr., PLS - Lead Surveyor

Mr. Baker is an Assistant Survey Manager with GAI and has over 40 years of experience specializing in survey for complex highway, airport, and bridge projects. He is a licensed PLS in West Virginia, Ohio, New York, Kentucky, and Pennsylvania. Mr. Baker has performed surveys for verification of construction layout and as-built features, location and topographic surveys for design and utility investigation, and site and lot mapping, including ALTA property surveys and legal descriptions. Additionally, Mr. Baker sets coordinates and ground control for aerial mapping. Mr. Baker was recently the Lead Surveyor for the White Avenue Slip Project in Morgantown, West Virginia. He has also worked on numerous other landslide investigation and roadway remediation projects in West Virginia for numerous clients.

Bruce Roth, PE, MS - Project Advisor



Mr. Roth is an Engineering Director with GAI with over 35 years of geotechnical experience specializing in foundation and slope stability analysis and design, rock and soil mechanics, subsurface exploration, geophysical investigation techniques, and geosynthetics. He provides geotechnical engineering expertise for geotechnical aspects of transportation projects, dam and building foundations, impoundments, and electrical and gas transmission lines. His experience includes working on numerous landslide remediation projects in West Virginia and Pennsylvania, where he has provided recommendations and designs for stabilizing major landslides. Mr. Roth is a licensed PE in West Virginia, Pennsylvania, North Carolina, Virginia, and Maryland. He holds an MS in Civil and Environmental Engineering from Cornell University and a BS in Geological Engineering from the University of Arizona.

PROJECT EXPERIENCE

The GAI Team has significant experience designing and repairing roadways and buildings damaged as a result of landslides. GAI works on various projects for numerous clients, many of which are confidential in nature; therefore, we have reflected this confidentiality in our project descriptions, if necessary, by not giving out project names, specific locations, and confidential client information. If deemed essential, GAI may be able to discuss with our respective clients with whom there are confidentiality obligations and request written permission to make further disclosure.

Project Profile

White Avenue Slip Project - City of Morgantown

City of Morgantown, Monongalia County, West Virginia

Project Team:
GAI Consultants

EnviroProbe Integrated Solutions

Services:
Geotechnical and Geological Investigations

Mitigation Alternatives

Permitting Services

Preparing Construction Plan, Specifications, and Bid Documents

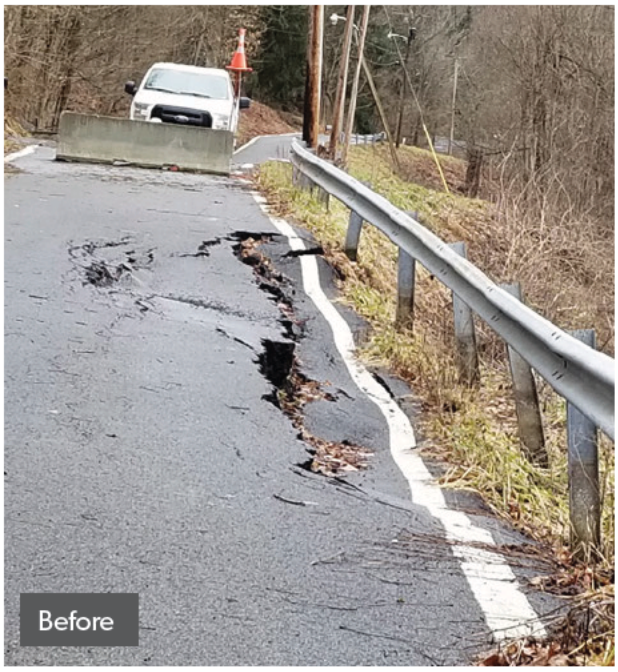
On-site Construction Inspection and Administration Services

Client:
City of Morgantown

Completion Date:
June 2021

Project Management:
Charles Straley
Principal-in-Charge
GAI Consultants, Inc.
500 Lee Street East,
Suite 700
Charleston, WV 26330
T. 304.541.0854
E. c.straley@
gaiconsultants.com

Michael Holbert
Project Manager
GAI Consultants, Inc.
107A Cambridge Place
Bridgeport, WV 26330
T. 304.933.5228
E. m.holbert@
gaiconsultants.com



The Team of GAI and EnviroProbe provided engineering services to assist the City of Morgantown with the stabilization of the landslide along White Avenue in Morgantown, West Virginia. This project included a subsurface exploration program to obtain geotechnical data for the project and to provide recommendations and construction drawings for site stabilization. Specific tasks performed for this project included:

- Reviewing site geologic and mining conditions along the available historic topographic maps and aerial photos;
- Performing a site reconnaissance;
- Performing a geotechnical subsurface exploration consisting of three test borings;
- Conducting laboratory testing of select soil and rock samples;
- Developing alternatives to stabilize/remediate the landslide;
- Developing construction drawings of the preferred alternative; and
- Performing on-site construction inspection and administration services during the construction phase.

Key personnel included Charles Straley as the Principal-in-Charge and Lead Geotechnical Engineer; Michael Holbert was the Project Manager; Keith Schoon performed Geotechnical Engineering; Rich Ruffolo was the Geological Manager; Rachel McCoy performed Roadway Design; Dave Baker, Sr. was the Lead Surveyor, and Bruce Roth was the Project Advisor.

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Project Profile

Laurel Point (Saylor Run Road Slip) Project - WVDEP

Laurel Point, Monongalia County, West Virginia

Project Team:
GAI Consultants

Services:
Geotechnical and Geological Investigations

Subsurface Investigation

Drilling of Borings

Regrading and Drainage Controls for Refuse Piles

Engineering Analysis

Streambank Stabilization

Access Road Construction

Construction Drawings and Specifications

Remediation of Slip

Revegetation Plan

Permitting Services

Client:
West Virginia Department of Environmental Protection, Office of Abandoned Mine Lands & Reclamation

Completion Date:
2013

Project Manager:
Charles Straley
GAI Consultants, Inc.
500 Lee Street East,
Suite 700
Charleston, WV 26330
T. 304.541.0854
E. c.straley@
gaiconsultants.com

The project consisted of two sites with areas of exposed coal refuse, including collapsed and open deep mine portals, dangerous highwalls, and mine drainage. A hillside slip occurred at one of the sites, which made West Virginia County Route 19/4 (Saylor Run Road) unstable. The slip along Saylor Run Road was evaluated by GAI and was remediated by removing the material and constructing an engineered fill with a toe and bonding bench system. GAI's proposed Principal-in-Charge and Lead Geotechnical Engineer, Charles Straley, PE, PLS, was the Project Manager for this contract.

GAI's scope included providing stabilization for Saylor Run Road, regrading and providing proper drainage controls for the refuse piles and installing mine seals and bat gates in the open mine portals. Additionally, Saylor Run Road had a bridge crossing over a stream. The slope of the road had experienced sliding into the stream. In order to get materials and equipment to the site, temporary supports were added to the bridge. Streambank stabilization was also provided along the toe of the refuse along the stream to protect it from erosion. For access to the site, access roads were constructed. GAI's scope also included revegetating the area.

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Project Profile

Caperton Trail Landslide - MUB Water Projects Contract

City of Morgantown, Monongalia County, West Virginia

Project Team:
GAI Consultants

Services:
Geotechnical and Geological Investigations

Subsurface Investigation

Drilling of Borings

Installation and Monitoring of Slope inclinometers

Engineering Analysis

Preparation of Recommendations for Remediation

Client:
Morgantown Utility Board

Completion Date:
2011

Project Manager:
Charles Straley
GAI Consultants, Inc.
500 Lee Street East,
Suite 700
Charleston, WV 26330
T. 304.541.0854
E. c.straley@
gaiconsultants.com

GAI performed six geotechnical exploration projects for the MUB between 2009 – 2013. GAI's proposed Principal-in-Charge and Lead Geotechnical Engineer, Charles Straley, PE, PLS, was the Project Manager for this contract. One of these projects included a landslide along the Caperton Trail.

GAI provided geotechnical exploration for the evaluation of a landslide which occurred along the Caperton Trail, adjacent to the Monongahela River, in Morgantown, West Virginia. The objective of this study was to perform a subsurface investigation, slope inclinometer monitoring, and develop recommendations for the remediation of the landslide. The landslide impacted the trail and a new force main sewer line. The landslide significantly impacted the surface of the trail with head scarps occurring. It was reported to GAI that the landslide was moving at a significant pace.

The scope of work included the drilling of six borings at planned locations, installation and monitoring of slope inclinometers, engineering analysis, and preparation for recommendations for remediation of the area impacted by the landslide. The locations and elevations of the tops of the borings were approximated using the topographic mapping. GAI monitored the drilling and sampling on a full-time basis and classified the samples obtained. The borings were made using a track mounted Acker Drill and Standard penetration tests were conducted in conjunction with soil sampling continuously. Inclinometers were installed in all of the borings. Groundwater level measurements were made upon the completion of each boring and each inclinometer monitoring.

GAI recommended stabilizing the slopes by providing a retaining wall structure along Caperton Trail, in addition to stabilizing the slope below the lower access road with either a soldier pile and lagging wall, secant wall, or other earth retaining structures, which would need to be designed by a licensed geotechnical engineer. GAI also recommended that if the lower slope and access road were not needed, a system to support the interceptor sewer line without soil support could also be developed by a licensed engineer. GAI also suggested that the surface of the Caperton Trails should be resurfaced utilizing the same section as the existing trail; and that the interceptor sewer line and force main will need to be replaced or at a minimum, realigned due to potential damage from the landslide.

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Project Profile

Latrobe (Gibson) Landslide Emergency Evaluation

Latrobe, Logan County, West Virginia

Project Team:
GAI Consultants

Services:
Subsurface Investigation

Site Reconnaissance

Survey

Alternative Evaluation

Construction Drawings and Specifications

Client:
West Virginia Department of Environmental Resources, Office of Abandoned Mine Lands and Reclamation

Completion Date:
2005

Project Manager:
Bryce Good
GAI Consultants, Inc.
200 Abington Exec. Park, Suite 201
Clarks Summit, PA 18411
T. 570.290.1920
E. b.good@gaiconsultants.com

During Slope Reduction

After Slope Reduction

GAI responded to an urgent request from the West Virginia Department of Environmental Protection to evaluate an unstable landslide area situated above private residences upstream of Man along Buffalo Creek near Latrobe, West Virginia. The landslide, caused by abandoned coal mining operations, had developed scarps, cracks, rolling, and seepage through the face that was encroaching on the property.

GAI was asked to reduce the slopes, eliminate the instability, and develop provisions for controlling the drainage. An alternative analysis was conducted based on the records research, subsurface investigation and stability analysis. The alternatives that were evaluated included: primary rock buttress, lateral drainage controls, retaining wall system, and complete removal of slide material.

The final design included the complete removal of the slide material, an emergency U.S. Army Corps of Engineers permit for a valley fill, and various drainage control structures.

Key personnel included Charles Straley as the Lead Geotechnical Engineer; and Terry Genes as the Lead Construction Coordinator for this emergency evaluation and restoration project.

gai consultants

Project Profile

Project Team:
GAI Consultants

Services:
Geotechnical Guidance for Design of Landslide Remediation

Permissible Treatment Options

Remediation Design Recommendations

Subsurface Exploration

Laboratory Testing

Wetland Delineation and Stream Identification Report

Permitting Services

Conceptual Design Drawings and Calculations

Client:
PennDOT Engineering District 4-0

Completion Date:
2017

Project Manager:
Richard Krajcovic, Jr.
GAI Consultants, Inc.
600 Cranberry Woods Drive, Suite 400
Cranberry Township, PA 16066
T. 412.654.4941
E. r.krajcovic@gaiconsultants.com

Wintersdale Road Landslide Repairs Project - PennDOT, District 4-0

Wayne County, Pennsylvania

This project was part of the overall Wayne County Landslide Project that GAI worked on for the PennDOT, District 4-0. The project included stabilization and reconstruction of the damaged roadway and replacement rail in the vicinity of several landslides within Wayne County, Pennsylvania. This project focused on remediation of landslides along Wintersdale Road, SR 4014, Section SLD (SR4014-SLD), between the roadway and the West Branch of the Delaware River in Buckingham Township, Wayne County, Pennsylvania.

The landslide activity caused differential cracking of the pavement and leaning of guide rails and posts along Wintersdale Road. GAI's scope of work involved compiling geotechnical data for the project and providing guidance for the design of landslide remediation. Geotechnical data obtained for this project was intended to identify feasible methods of landslide remediation appropriate for this project. The remediation methods were discussed with the District during a pro-team meeting held at the District offices. The method of slide remediation treatment preferred by the District included stabilization of the existing roadway embankment with vertical drilled shafts (caissons), including a reinforced concrete cap to tie the shafts together and a "knee wall" to accomplish the edge of the roadway and guiderail.

Key personnel included Don Splitstone as the Lead Geotechnical Engineer; Abeera Batool performed Geotechnical Engineering; Rich Ruffolo was the Lead Geologist; and Bruce Roth was the Project Advisor.

gai consultants

Project Profile

Hancock Highway Landslide Repairs Project - PennDOT, District 4-0

Buckingham Township, Wayne County, Pennsylvania

Project Team:
GAI Consultants

Services:
Geotechnical Guidance for Design of Landslide Remediation

Permissible Treatment Options

Remediation Design Recommendations

Subsurface Exploration

Laboratory Testing

Revegetation Plan

Wetland Delineation and Stream Identification Report

Permitting Services

Conceptual Design Drawings and Calculations

Client:
PennDOT Engineering District 4-0

Completion Date:
2017

Project Manager:
Richard Krajcovic, Jr.
GAI Consultants, Inc.
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Cranberry Township, PA 16066
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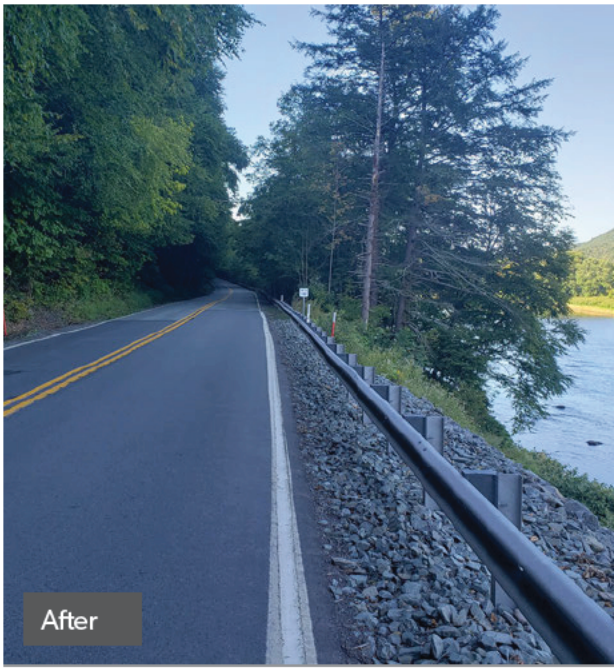
E. r.krajcovic@gaiconsultants.com



This project is part of the overall Wayne County Landslide Project that GAI worked on for PennDOT, District 4-0. The overall project included stabilization and reconstruction of the damaged roadway and replacement rail in the vicinity of several landslides within Wayne County. This project focused on remediation of landslides along Hancock Highway, SR 0191, Section REP (SR00191-REP) between the roadway and West Branch of the Delaware River, in Buckingham Township, Wayne County, Pennsylvania.

The landslide activity caused differential cracking of the pavement and leaning of guide rails and posts in two areas along Hancock Highway. GAI's scope of work involved compiling geotechnical data for the project and providing guidance for the design of the landslide remediation. Geotechnical data obtained for this project was intended to identify feasible methods of landslide remediation appropriate for this project. The remediation methods were discussed with the District during a pro-team meeting held at the District offices. The method of slide remediation treatment preferred by the District included stabilization of the existing slope below the roadway through installation of a soil nailed slope with a vegetated or formed and strained reinforced shotcrete facing, and a vegetated reinforced soil slope constructed above the soil nailed portion to re-establish the roadway grade.

Key personnel included Don Splitstone as the Lead Geotechnical Engineer; Abeera Batool performed Geotechnical Engineering; Rich Ruffolo was the Lead Geologist; and Bruce Roth was the Project Advisor.

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Project Profile

Geotechnical Open-End Agreement - City of Pittsburgh

Pittsburgh, Pennsylvania

Project Team:
GAI Consultants

Services:
On-Call Geotechnical Engineering Services

Subsurface Investigations

Investigation and Remediation of Earth Movement

Investigation and Design of Foundations and Structures

Inspections of Excavations of Fill Operations

Permitting Services

Client:
City of Pittsburgh

Completion Date:
2013

Project Manager:
Bruce Roth
GAI Consultants, Inc.
385 E. Waterfront Drive
Homestead, PA 15120
T. 412.735.9992
E. b.roth@gaiconsultants.com

Overbeck Street Landslide

Oporto Street Drilling

GAI provided on-call Geotechnical Engineering Services to the City of Pittsburgh as part of an open-end agreement to include investigation and remediation of earth movement, investigation and design of foundations and structures, inspection of excavations of fill operations, and permitting services. Following is a brief description of two of the 14 total work orders that were performed.

Overbeck Street Stabilization. GAI performed a subsurface exploration for the depression and resulting cracked pavement on Overbeck Street in the Springhill Neighborhood of the City of Pittsburgh, Pennsylvania. Overbeck Street is located within landslide prone zones. The exploration consisted of two borings; selecting soil samples for laboratory testing; and preparing a Subsurface Exploration Report. GAI recommended removing and replacing any unstable soils and constructing a wall at the edge of the road to stabilize the road. The wall must be founded on stable soil or rock and proper drainage must be placed behind the wall to prevent the buildup of hydrostatic pressures.

Oporto Street Stabilization. Erosion occurring on the east-facing slope that supports Oporto Street in the Southside Slopes neighborhood in the City of Pittsburgh, is threatening the stability of the section of Oporto Street at the intersection with Huron Street, which resulted in pavement distress and guiderail displacement. Two borings were drilled and GAI monitored the drilling and sampling on a full-time basis. GAI provided a geotechnical investigation of the site and proposed a MSE 80-100 feet long wall to stabilize the road, which must be founded on stable soil or rock and proper drainage must be placed behind the wall to prevent the buildup of hydrostatic pressures.

Key personnel included Bruce Roth as the Project Manager, Richard Ruffolo as the Geological Manager, and Keith Schoon as the Senior Project Engineer for this Open-Ended Contract for Geotechnical Services with the City of Pittsburgh.

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REFERENCES

Table 1 contains references of GAI clients served in recent years by one or more members of the designated Project Team. The table also includes a brief description of the scope of services provided.

TABLE 1 - REFERENCES & SERVICES PROVIDED

Client Reference	Project Name, Location, Dates, and Scope of Work
Emily Muzzarelli Assistant City Manager City of Morgantown Phone: 304.284.7406 Email: emuzzarelli@morgantownwv.gov	▪ White Avenue Slip Project ▪ City of Morgantown, Monongalia County, West Virginia ▪ Completed: June 2021 ▪ Scope of Work: Geotechnical and Geological Investigations; Mitigation Alternatives; Preparing Construction Plan, Specifications, and Bid Documents; On-site Construction Inspection and Administration Services
Nick Estes Program Manager WVDEP, Abandoned Mine Lands & Reclamation Phone: 304.926.0499 x 152 Email: nick.r.estes@wv.gov	▪ Laurel Point (Saylor Run Road Slip) Project ▪ Laurel Point, Monongalia County, West Virginia ▪ Completed: 2013 ▪ Scope of Work: Geotechnical and Geological Investigations; Subsurface Investigation; Drilling of Borings; Regrading and Drainage Controls for Refuse Piles; Engineering Analysis; Streambank Stabilization; Access Road Construction; Construction Drawings and Specifications; Remediation of Slip; Revegetation Plan
Doug Smith Assistant General Manager and Chief Engineer Morgantown Utility Board Phone: 304.292.8443 Email: dsmith@mub.org	▪ Caperton Trail Landslide Project ▪ City of Morgantown, Monongalia County, West Virginia ▪ Completed: 2011 ▪ Scope of Work: Geotechnical and Geological Investigation; Subsurface Investigation; Drilling of Borings; Installation and Monitoring of Slope inclinometers; Engineering Analysis; Preparation of Recommendations for Remediation

PROJECT UNDERSTANDING, APPROACH, AND METHODOLOGY

PROJECT UNDERSTANDING

GAI understands that the State of West Virginia Purchasing Division, for the West Virginia Army National Guard (WVARNG), Construction and Facilities Management Office, is soliciting EOIs from qualified architectural and engineering firms to provide professional design services to develop construction bid documents to repair and stabilize the slope of approximately 200 linear feet of road embankment on the South Gate access road located at WVARNG's Camp Dawson facility, 240 Army Road, Kingwood, West Virginia. GAI understands that approximately 200 linear feet of road embankment is currently unstable and slipping, impacting a road used by the WVARNG, and a stream. This facility will be renovated to support elements of the WVARNG Command. ***GAI understands that the award, execution, and completion of this Contract is contingent upon receipt of Funding.***

GAI understands that the Project goals include the following:

1. GAI will provide a complete design, including all engineering disciplines to prepare construction bid documents for the WVARNG. The key design elements include: stabilizing the road embankment, rebuilding the road, and protecting the stream below the site.

2. GAI will provide a complete design for the South Gate Access Road, which is used by heavy and large military vehicles and equipment to access training areas. The road shall be repaired in such a manner as to accommodate the loads and sizes of these military vehicles. ***GAI understands that the Project will require stabilization of the hillside, road repair, potential drainage upgrades, and may also include remediation below the slip. GAI will investigate the cause of the slip and propose remediation options. The WVARNG will then select a proposed remediation option based on price and longevity of the solution. South Gate Access Road will be closed to traffic throughout construction but will allow for residential access. GAI will also conduct further on-site investigation to determine the exact condition and size of the landslide. These investigations must also determine if additional areas along the road are impacted and at risk of similar slips.***

3. If required, GAI will provide all geotechnical work to include any necessary drill borings. GAI will be responsible for researching and investigating the location of existing underground and above ground utilities, and to provide drawings and specifications of any and all utility and road infrastructure, as needed, and directed by the Owner, and/or State Agency, utility company, or other utility approval authority for Kingwood, West Virginia.

4. GAI understands that drawings, specifications, and cost estimates are to be submitted at 35 percent, 65 percent, 95 percent, and 100 percent design milestones. GAI may submit 35 percent, 65 percent, and 95 percent drawings and specifications digitally. GAI understands that 100 percent construction documents are to be submitted both digitally and three hard copies.

PROJECT APPROACH AND METHODOLOGY

GAI will manage this Project out of our Charleston, West Virginia office, a 15-minute drive from the WVARNG Joint Forces Headquarters, Construction Facilities Management Office. GAI has over 700 employees located in 26 offices across 12 states, including four offices that are within 125 miles of Kingwood, West Virginia (Bridgeport, West Virginia; Canonsburg, Pennsylvania; Homestead, Pennsylvania; and Cranberry Township, Pennsylvania). GAI's Bridgeport office is located less than 45 miles from Kingwood, West Virginia. We have the personnel and the ability to respond to all of the Project's needs and can be at the Project location within an hour's notice or less when called upon. **Table 2** includes GAI Key Personnel for this Project by office location and credentials.

Table 2 - Key Personnel Office Locations and Credentials

Key Personnel	Title	Office	Yrs. Exp.	Credentials
Charles Straley	Project Manager	Charleston, WV	35	PE: WV, OH, KY, IN PLS: WV MS, Geotechnical Engineering
Donald Splitstone	Lead Geotechnical Engineer	Cranberry, PA	22	PE: WV, PA, OH, FL BS, Civil & Environmental Engineering; Engineering Physics
Keith Schoon	Geotechnical Engineer	Pittsburgh, PA	10	PE: PA MS, Civil Engineering
Abeera Batool	Geotechnical Engineer	Cranberry, PA	14	PE: CA PhD, Civil Engineering

Table 2 - Key Personnel Office Locations and Credentials (continued)

Key Personnel	Title	Office	Yrs. Exp.	Credentials
Richard Ruffolo	Geological Manager	Pittsburgh, PA	20	PG: PA, KY, NC MS, Geology
Michael Holbert	Lead Roadway and Traffic Engineer	Bridgeport, WV	25	PE: WV, PA, MD BS, Civil Engineering
Rachel McCoy	Roadway and Traffic Engineer	Charleston, WV	7	PE: WV, VA BS, Civil Engineering
Terry Queen	Lead Construction Technician	Charleston, WV	25	ACI Certified WVDOH Portland Cement Concrete Inspector
Dave Baker, Sr.	Lead Surveyor	Southpointe, PA	40	PLS: WV, OH, KY, PA, NY
Bruce Roth	Project Advisor	Pittsburgh, PA	35	PE: WV, VA, PA, NC, MD MS, Civil & Environmental Engineering

SCOPE OF SERVICES

Upon Notice to Proceed, GAI will provide the following services:

A. Perform a geological investigation to determine the causes and mechanisms of the landslide.

B. Prepare up to three mitigation alternatives and opinion of probable construct cost to remediate the slope and reconstruct the roadway, while maintaining residential access.

C. Prepare construction plans, specifications, and bid documents for the chosen alternative.

D. During the construction phase, provide on-site construction monitoring and administration services, including:

   i. Attendance/administration of Progress Meetings;

   ii. Weekly written field reports of site conditions;

   iii. On-site representation comprised of consultant staff involved in the primary design of the Project for verification; and

   iv. Answering questions of the Contractor.

PROJECT SCHEDULE

Based on the information provided in the EOI, the State of West Virginia's Authorization to Award the Contract for this Project is to be determined based on interviews of the three highest qualified firms and price negotiations with the highest ranked firm. GAI is able to begin work on this Project immediately after receiving the Notice to Proceed from the State of West Virginia.

PROJECT MANAGEMENT PLAN, QUALITY, AND COST CONTROL

GAI strives to perform as an extension of our Client's staff with a service-oriented approach. Our approach is focused on regular and effective communication and to keep the WVARNG informed of progress and to address Project challenges as they arise. GAI has set forth a number of communication, management, and monitoring systems to handle the Project and we look forward to implementing them on WVARNG's behalf. GAI's Project Management Plan (PMP) will be used to manage and communicate the Project scope, schedule, and budget to promote successful implementation of the Project. This PMP includes: Project initiation, Project status reports and meetings, Project controls, QMS, invoice management, data management, and Project closure.

Project Team Coordination and Scheduling

Project Initiation

GAI will meet with WVARNG personnel and appropriate Project stakeholders for a kick-off meeting to review the field safety and property access protocols, schedule, points of contact, and coordination and communication systems.

Project Communication

GAI will participate in routine (typically bi-weekly) conference calls with WVARNG and Project stakeholders, as required. GAI's Project Manager can lead the calls if requested. GAI will provide a conference call phone number to support the conference calls, which can be conducted using Microsoft Teams, which will allow sharing of the desktop to display data for discussion. During the calls, GAI will update WVARNG regarding the status of the Project and to identify information needs or anything that may affect the Project schedule and/or cost.

Project Scheduling

GAI uses either Primavera, Microsoft Project, or Excel scheduling spreadsheets for critical method scheduling, which tracks deliverables and keeps the project on time and on budget. GAI will work with the WVARNG to build a baseline schedule. The baseline schedule is then updated on a periodic basis, typically weekly or monthly, depending on the pace of the Project.

Quality Assurance/Quality Control

Project Controls Group

GAI has established a Project Controls group to monitor cost and manage reporting. This group utilizes Deltek Vision v7.6, GAI's enterprise management software, to monitor the cost of each project. Scope and budget must be agreed to prior to the task budget entry in Deltek. The Task Budget creation is the end result of the development and distribution of final scope, fee, budget, and schedule with the Project Team. The Task Budget establishes the base line to monitor and measure project progress and financial performance. Task Budget creation includes: Obtaining external scope, budget, schedule, and fee commitments; and distribution of labor, subconsultant/subcontractor fees, and direct expenses for the purposes of establishing baseline or supplemental task budgets using the Deltek Project Planning Module.

Quality Management System

GAI understands the importance of providing our clients with on-time, cost-effective, high-quality professional services. The continued success of our firm is directly related to our ability to continue to meet the cost, quality, and schedule requirements of our projects. We achieve this goal through our experienced professional staff and by utilizing our QMS. GAI's QMS is based upon a continuously improving project delivery strategy that reflects our client's needs and utilizes current technology. The Project Delivery System provides the quality assurance and quality control functions from project inception through project closeout. The Project Delivery System incorporates processes and procedures that describe how professional services are planned, executed, checked, verified, and delivered to our clients. The system is flexible so that it allows GAI to meet the needs of individual clients.

Data Management

GAI will store digital information on corporate servers, including Microsoft Office documents, GIS shape files, and PDFs of mapping. GAI will provide a means to share large files with the WVARNG through the use of a password protected FX site or by providing direct links to files on the server through the use of GAI's Newforma or SharePoint System.

Invoice Management

To track and manage the Project budgets, GAI proposes to use a Cost Tracking Spreadsheet. GAI will update the Cost Tracking Spreadsheet on a weekly basis, which includes the awarded value for each task, approved change order amounts, current invoice amount, amount invoiced to date, remaining amounts approved, and physical percent complete.

To manage and document the Projects' scope, if activities are determined to be required that are not part of this scope (change orders), GAI will provide work plans to be approved. GAI will incorporate these change orders into the Cost Tracking Spreadsheet as they are approved. GAI's proposed routine conference calls will include a review of the Project budget and change orders, as needed.

REQUIRED AND SIGNED FORMS

GAI has included the Solicitation Document No. CEOI 0603 ADJ2200000003, dated 2021-07-128, in its entirety, signed and notarized, where applicable, as **Appendix B**.

ASSUMPTIONS AND UNDERSTANDINGS

GAI's Scope of Services, Schedule, and Compensation as set forth in this Proposal have been prepared based on the following assumptions and understandings:

1. Survey will be conducted from the public Right-of-Way.
2. Client will give GAI prompt notice whenever it observes or otherwise becomes aware of any development that affects the scope or timing of GAI's performance.
3. Client will examine and provide comments and/or decisions with respect to any GAI interim or final deliverables within a period mutually agreed upon.
4. GAI will discuss and formalize the final schedule with the WVARNG upon Authorization to Proceed.

HEALTH AND SAFETY

GAI believes all employees should go home in the evening just as healthy and safe as they were when they arrived in the morning. GAI is committed to a culture of safety. At GAI, project tasks are completed in accordance with all applicable state and federal regulatory requirements including Occupational Safety and Health Administration (OSHA) standards, client-specific health and safety requirements, and GAI policies and procedures. GAI employees are routinely provided health and safety training, particularly OSHA 10-hour and 30-hour construction awareness and/or SafeLand Training. New employees are introduced to GAI Health and Safety policies during employee orientation. GAI also provides OSHA 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training and the eight-hour HAZWOPER refresher classes as needed.

Health and Safety Plans are required to be developed and implemented whenever project staff are expected to conduct fieldwork, as well as whenever site reconnaissance activities expose employees to hazards that must be controlled. The purpose of the Health and Safety Plan is to identify, investigate, and mitigate potential hazards and unsafe conditions en route to/from and at the project site. The Health & Safety Plan defines the specific project tasks and appropriate control measures for safe completion of project tasks through the use of a Job Hazard Safety Analysis process. It also contains information about project personnel; required personal protective equipment; mandatory project staff training; and emergency response information and procedures. This procedure applies to all GAI staff as well as GAI subcontractors.

GAI's Health & Safety Director, William Gourdie, CSP, CET, with over 35 years of experience, is responsible for spearheading initiatives that help GAI comply with all applicable health, safety, and environmental regulations; client requirements; and corporate policies and procedures in order to maintain the safest possible working conditions for all employees. He embodies GAI's commitment to safety by coordinating the development, implementation, and continuous improvement of the company's Health & Safety Program to enhance its effectiveness and improve performance results.

COVID-19 Response Plan

GAI's COVID-19 Committee meets regularly, monitoring conditions. Our goal is to adapt the way we work to help keep our clients, stakeholders, staff, and public safe by incorporating best practices put forth by the Centers for Disease Control (CDC) and other qualified entities. GAI has developed a COVID-19 Response Plan with actions initiated to mitigate the risk of exposure to our employees, subcontractors, and clients, with the goal of maintaining business continuity. GAI has always held safety as the most important of our core values. We are committed and focused on the health and well-being of our employees, our customers, and the communities where we do business.

CLOSING

The GAI Team is excited about the opportunity to work with the WVARNG on this Project, and we look forward to speaking with you about our experience designing and repairing roadways damaged by landslides. We believe that we can be a strong partner with the WVARNG, working together towards the success of this and future projects.

Should you have any questions or would like to speak with us about our EOI or services, please feel free to contact Project Manager, Charles Straley, at 681.245.8866 or via email at C.Straley@gaiconsultants.com.

Geotechnical Engineering Services Contacts

Donald Splitstone, PE
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GAI Consultants, Inc.
T. 412.399.5395
E. D.Splitstone@gaiconsultants.com

Charles Straley, PE, PLS, MS
Project Manager
GAI Consultants, Inc.
T. 681.245.8866
E. C.Straley@gaiconsultants.com

APPENDIX A

PROJECT ORGANIZATION & KEY PERSONNEL RESUMES

Health & Safety	Principal-in-Charge	Project Advisor
William Gourdie, CSP, CET	Charles Straley, PE, PLS, MS	Bruce Roth, PE, MS

Technical Personnel

Construction Technician	Geotechnical & Geological Engineering	Survey
Terry Queen	Donald Splitstone, PE Keith Schoon, PE, MS Abeera Batool, PhD, PE Richard Ruffolo, PG, MS	Dave Baker, PLS

Roadway & Traffic Engineering
Michael Holbert, PE Rachel McCoy, PE

CHARLES STRALEY, PE, PLS, MS

Project Manager

RESUME

EDUCATION

MS, Geotechnical Engineering, 1988, University of Akron

BS, Civil Engineering, 1986, University of Akron

LICENSES/REGISTRATIONS

Professional Engineer (PE): WV, KY, IN, OH

Professional Licensed Surveyor (PLS): WV[redacted]

CERTIFICATIONS/TRAINING

Leaders to Watch, GAI Consultants, 2011

Advanced Project Management Training, GAI Consultants, 2009

Troxler Certified

40-hour Health & Safety Training

8-hour Supervisor Health & Safety Training

SKILLS

Project Management

Subsurface Exploration

Foundation & Embankment Design

Landslide & Slope Stability Engineering

Landfill Planning & Design

Water Feasibility Studies

Acid Mine Drainage

INDUSTRY EXPERIENCE

GAI Consultants, 1988-Present

University of Akron, Private Consulting and Testing, 1986-1987

Mr. Straley is a Senior Engineering Manager with GAI and will serve as the Lead Geotechnical for this Project. He is a licensed PE in West Virginia, Ohio, Kentucky, and Indiana; and a Professional Licensed Surveyor (PLS) in West Virginia. Mr. Straley has over 35 years of experience specializing in geotechnical engineering, including all aspects of landslide investigations, subsurface exploration, foundation and embankment design, slope stability, material and construction specifications, laboratory testing, and construction administration, management, and monitoring. Mr. Straley will be readily accessible to the WVARNG and he is committed to overseeing the successful completion of projects for this important Contract. He will oversee this project from GAI's Charleston, West Virginia office. His management experience, combined with his 35 years of geotechnical engineering expertise, will aid in the successful completion of this Project in a timely, technically sound, and cost-efficient manner.

RELEVANT EXPERIENCE

- ***White Avenue Slip Project, City of Morgantown, Morgantown, West Virginia.*** Principal-in-Charge and Lead Geotechnical Engineer. Responsible for overseeing the remediation and design of a roadway damaged by a landslide located in Morgantown, West Virginia. The project required stabilization of the hillside with soldier pile and lagging wall, road repair, drainage upgrades, and remediation below the landslide.
- ***On-Call Geotechnical Engineering Contract, Morgantown Utility Board (MUB), Morgantown, West Virginia.*** Project Manager and Lead Geotechnical Engineer. Projects included performing geotechnical exploration and design of a secant retaining wall along the Caperton Trail following a landslide which impacted MUB pipelines. Project Manager for the repair of the slope failure along a recreation trail which also removed the main sanitary sewer line. The slope failure was remediated by the installation of two secant walls. The sewer line was also rerouted and replaced.
- ***Saylor Run Road Slip Project, WVDEP, Laurel Point, Monongalia County, West Virginia.*** Project Manager and Lead Geotechnical Engineer. GAI's scope included providing stabilization for Saylor Run Road, regrading and providing proper drainage controls for the refuse piles and installing mine seals and bat gates in the open mine portals. Streambank stabilization was also provided along the toe of the refuse along the stream to protect it from erosion.
- ***Majesty Mine Complex Landslide Reclamation Project, WVDEP, Barber County, West Virginia.*** Lead Geotechnical Engineer. Project included the reclamation of two landslide areas along WV Route 16/2, design of a soldier pile and lagging wall to support the landslide, and design of site drainage along WV Route 16/2.
- ***Landslide and Slop Instability Evaluations for Pennsylvania State Route (SR) 279 4, SR 2796B, and SR 4029, Pennsylvania Department of Transportation.*** Lead Geotechnical Engineer. Provided an evaluation of data from surveys and slope inclinometers to determine movement of the slopes. Performed analysis of the overall slope for stability.
- ***Latrobe (Gibson) Landslide Emergency Evaluation, WVDEP, Abandoned Mine Lands, Logan County, West Virginia.*** Lead Geotechnical Engineer. Provided design and preparation of construction documents for a landslide above a residence as an emergency project for the WVDEP, Abandoned Mine Lands. Activities included: site grading, subsurface investigation, hydraulics and hydrology analysis, valley fill design, COIE permitting, preparation of drawings and technical specifications, engineering cost estimate and pre-bid meeting presentation.
- ***Access Road Landslide Investigation and Remediation, Confidential Client, West Virginia.*** Lead Geotechnical Engineer. GAI evaluated the slope stability and landslide concerns identified along a substation access road located in West Virginia. GAI performed the investigation, conceptual design and coordination with our Client, development of recommendations and conceptual alternatives for addressing the landslide, final design of an approved alternative, and construction support to address the landslide.
- ***Ven's Run Landslide #2, WVDEP, Abandoned Mine Lands, West Virginia.*** Lead Geotechnical Engineer. Responsible for the design of and preparation of construction documents for a previously repaired landslide for the WVDEP, Abandoned Mines Lands. Activities included site grading, subsurface investigation, hydraulics and hydrology analysis, road re-design, preparation of drawings and technical specifications, engineering cost estimate and pre-bid meeting presentation.
- ***Ned's Branch Impoundment Emergency Reclamation Project, WVDEP, Office of Surface Mine Reclamation & Enforcement, Mingo County, West Virginia.*** Lead Geotechnical Engineer. Responsible for the design and preparation of construction documents for a 600,000 cubic yard failed impoundment dam as an emergency reclamation project.

DONALD SPLITSTONE, PE

Lead Geotechnical Engineer

RESUME

Mr. Splitstone is an Engineering Manager in GAI's Geotechnical Engineering Group who specializes in design and construction of geotechnical projects for transportation, transit, railroad, government, and private clients. He has over 25 years of engineering experience developing geotechnical investigations, treatment schemes, details, plans, and specifications for various design projects for Design-Bid-Build and Design/Bid contracts. He has been involved in analysis, design and report preparation for a multitude of projects including shallow and deep (driven and drilled) foundations, various types of retaining walls and support of excavation (SOE), embankment and cut-slope stability, and flexible and rigid structural pavement.

RELEVANT EXPERIENCE

- ***Access Road Landslide Investigation and Remediation, Confidential Client, Doddridge County, West Virginia.*** Engineering Manager. GAI evaluated the slope stability and landslide concerns identified along a substation access road located in West Virginia. GAI performed the investigation, conceptual design and coordination with our Client, development of recommendations and conceptual alternatives for addressing the landslide, final design of an approved alternative, and construction support to address the landslide.
- ***Gas Well Access Road Landslide Investigation and Remediation Project, Doddridge County, West Virginia.*** Engineering Manager. Managed analysis and design calculations to develop slope stabilization recommendations as lead geotechnical designer. Recommendations included Soldier Pile & Lagging (SP&L) walls socketed into drilled shafts, a micropile "insert" or "A-Wall" with micropiles tied together with a cap beam and a several soil nail slope and wall options. Final design included development of final analyses, specifications, plans and details of the selected soil nail wall option and associated site civil and drainage construction.
- ***Wintersdale Road (SR 4014) Landslide Repairs Project, PennDOT, District 4-0, Wayne County, Pennsylvania.*** Engineering Manager. Performed analysis and design calculations to develop roadway and structure slope stabilization recommendations as lead geotechnical designer. Recommendations included drilled shaft walls tied together with a cap beam and knee wall with reinforced soil backfill and subgrade details. Completed Final Geotechnical Engineering Report Submissions for Preliminary Design.
- ***Hancock Highway (SR 0191) Landslide Repairs Project, PennDOT, District 4-0, Wayne County, Pennsylvania.*** Engineering Manager. The sites have proposed structures or geotechnical stabilizations of varying complexity along challenging topography and various waterways. Performed analysis and design calculations to develop roadway and slope stabilization recommendations as lead geotechnical designer. Recommendations included soil nailed and reinforced soil slopes. Completed Final Geotechnical Engineering Report Submissions for Preliminary Design.
- ***Railroad Landslide Investigation, Confidential Client, Pennsylvania.*** Engineering Manager. A small slide occurred along the down slope side of a rail line for a Confidential Power Plant. GAI evaluated the slide and made a recommendation to fix the slide. The proposed work consisted of designing a retaining wall for the landslide area.
- ***SR0070 Forensic Evaluation of Excavation Failure, PennDOT, District 12-0, Rostraver Township, Westmoreland County, Pennsylvania.*** Senior Geotechnical Engineer on team requested by PennDOT to perform a forensic analysis of a gabion-faced MSE wall used for temporary support of the approach embankment associated with a bridge replacement project. Responsibilities included site investigation immediately after failure and subsequent lane closure, developing recommendations for deconstruction of the failed wall system, subsequent site investigations during deconstruction of the failed wall, and review and back-analysis of design calculations and submittals.
- ***Mint Springs Bluff Stabilization Project, National Park Service, Vicksburg National Military Park, Vicksburg, Mississippi.*** Senior Geotechnical Engineer. Performed detailed soil nailed slope design for chosen stabilization method of a loess slope that had exhibited recent signs of failure at this historic site.
- ***Blue Ridge Parkway Pavement Condition Survey, Federal Highway Administration and the. National Park Service, Virginia.*** Senior Geotechnical Engineer. Performed visual survey of 27.2 miles of the parkway mainline pavement condition, as well as condition of all adjacent paved facilities including ramps, parking areas, and overlook areas.
- ***New Carrollton Metro Yard, Washington Metro, New Carrollton, Maryland.*** Senior Geotechnical Engineer. Performed analysis of subsurface conditions and developed subsurface profiles to include historic, current, and proposed utility alignments to assess the impact of unsuitable soils on the proposed construction. Settlement calculations and estimates of over excavation options were performed for the proposed utilities, building, and Metro rail lines.

EDUCATION

Graduate Studies, Geotechnical Engineering, 1998-2002, University of Pittsburgh

BS, Civil and Environmental Engineering, 1998, University of Pittsburgh

BS, Engineering Physics, 1996, Miami University

LICENSES/REGISTRATIONS

Professional Engineer (PE): WV, OH, PA, FL

CERTIFICATIONS/TRAINING

Stability of Natural and Man-Made Slopes; Analyses, Shear Strengths, Testing, Stability Methods, and Stabilization, [redacted]

OSHA Safety in Excavation, Competent Person Certification [redacted]

OSHA Site Supervisor, Certification [redacted]

Drilled Shafts: Construction Procedures and LRFD Design Methods, NHI Course No. 132014, PennDOT, 2013

OSHA 40-hour HAZWOPER Certificatior [redacted]

SKILLS

Foundation Design

Inspection and Testing

Slope Stability Analysis and Design

AFFILIATIONS

American Society of Civil Engineers, Pittsburgh Section

Deep Foundations Institute

INDUSTRY EXPERIENCE

GAI Consultants, 2015-Present

HDR Engineering, 2004-2015

Nicholson Construction, 2002-2004

Gannett Fleming, 1998-2002

United States Steel Corporation, 1996-1998

KEITH SCHOON, PE, MS

Geotechnical Engineer

EDUCATION

MS, Civil Engineering, 2013, University of Pittsburgh

BS, Civil Engineering, 2010, University of Pittsburgh

LICENSES/REGISTRATIONS

Professional Engineer (PE): PA

CERTIFICATIONS/TRAINING

Mining Engineering, University of Pittsburgh

Hazmat Certification, 2011

Nuclear Density Gauge Certification, 2011

SKILLS

Slope Stability Analysis and Design

Foundation Analysis and Design

Retaining Wall Systems Design

INDUSTRY EXPERIENCE

GAI Consultants, 2010-Present

University of Pittsburgh, 2005-2010

Mr. Schoon specializes in geotechnical engineering including embankment stability analyses and remediation recommendations, seepage analyses, design of deep foundations and retaining structures and geotechnical investigations. He has experience in construction engineering and inspection, plan preparation, quantity take-offs, cost estimating, and report writing.

RELEVANT EXPERIENCE

- ***White Avenue Slip Project, City of Morgantown, Morgantown, West Virginia.*** Senior Geotechnical Engineer. Responsible for the calculations for a pile and lagging wall and co-authored the geotechnical engineering report. The project required stabilization of the hillside with soldier pile and lagging wall, road repair, drainage upgrades, and remediation below the landslide.
- ***Substation Landslide Project, Doddridge County, West Virginia.*** Senior Geotechnical Engineer. This project involved a landslide of a 400 feet long by 75-feet high embankment. Responsible for performing stability analyses and providing interim and permanent repair alternatives.
- ***Electric Transmission Line Right-of-Way Landslides, Marshall County, West Virginia.*** Senior Geotechnical Engineer. Numerous projects are comprised of landslides on remote transmission line rights-of-ways. Responsible for performing stability analyses and authoring geotechnical reports with repair drawings.
- ***Mingo Creek Bridge Replacement Project, Mingo County, Pennsylvania.*** Senior Geotechnical Engineer. The project involved the replacement of a 42-foot span bridge. Responsible for summarizing the results of the site reconnaissance, subsurface investigation, laboratory testing, and reviewing available geologic information. Also, aided in writing the Foundation Design Guidance Report, which provided recommendations for future subsurface investigations for final design of alternative foundation types and roadway improvements for a Design-Build Contract.
- ***SR 88/51 Bridge Replacement and Intersection Improvements Project, Allegheny County, Pennsylvania.*** Senior Geotechnical Engineer. The project involved replacement of six bridges and construction of a jug handle. Responsible for processing information obtained during the subsurface investigation and laboratory testing, calculating scour depth, bearing and settlement, providing parameters for temporary shoring, providing foundation recommendations and bottom of footing elevations and co-authored geotechnical engineering reports.
- ***Amusement Park Landslide Analysis and Design Project, Confidential Client, Allegheny County, Pennsylvania.*** Senior Geotechnical Engineer. GAI developed conceptual construction alternatives to mitigate landslide movements south of an access road. GAI's scope included conducting a reconnaissance of the site; updating landslide features shown on the topographic map; identify available alternatives that could be considered for mitigation of the landslide condition; and evaluating the probable effectiveness and order of magnitude construction cost of each alternative.
- ***Schenley Park Landslides, Upper and Lower Panther Hollow Trail, City of Pittsburgh On-Call Geotechnical Services Contract, Pittsburgh, Pennsylvania.*** Senior Geotechnical Engineer. The project involved two landslides along the Upper and Lower Panther Hollow Trail. GAI's scope of work included a subsurface investigation, with drilling and monitoring two borings at each landslide; performing laboratory testing of samples; and providing the City of Pittsburgh with recommendations for remediation, including design for slope stabilization.
- ***Mooney Road Distressed Crib Wall, City of Pittsburgh On-Call Geotechnical Services Contract, Pittsburgh, Pennsylvania.*** Senior Geotechnical Engineer. Responsible for monitoring the subsurface investigation and collecting site-specific geotechnical data to characterize and verify the subsurface conditions for the design of a replacement wall and repair of the roadway. Prepared the geotechnical site investigation recommendations and report.
- ***West Newton Coal Logistics Refuse Embankment Stabilization Project, Pennsylvania Department of Environmental Protection, Westmoreland County, Pennsylvania.*** Senior Geotechnical Engineer. GAI conducted subsurface exploration, including soil drilling and in-situ testing, laboratory testing program, and geotechnical engineering analyses.
- ***Housing Development Landslide Project, Butler County, Pennsylvania.*** Senior Geotechnical Engineer. This project involved a landslide on a 70-foot-high embankment and structural damage of two existing dwellings. Responsible for reviewing all reports and depositions and providing professional option of cause. Additionally, stability analyses was performed and a geotechnical report was developed.

ABEERA BATOOL, PHD, PE

Geotechnical Engineer

RESUME

gai consultants

EDUCATION

PhD, Civil Engineering, 2013, Virginia Polytechnic Institute and State University

MS, Civil Engineering, 2009, Virginia Polytechnic Institute and State University

BS, Civil Engineering, 2007, University of Engineering and Technology (UET)

LICENSES/REGISTRATIONS

Professional Engineer (PE): CA

CERTIFICATIONS/TRAINING

EnvisionTM Sustainability Professional Credential (ENV SP)

SKILLS

Site Characterization

Foundation Engineering

Geotechnical Earthquake Engineering

Seepage and Slope Stability

Mine Tailings

AFFILIATIONS

Deep Foundation Institute (DFI)

(Women in Deep Foundation Committee)

GeoProfessional Business Association (GBA), Diversity and Inclusion Committee

INDUSTRY EXPERIENCE

GAI Consultants, 2015-Present

Arup, 2013-2015

Virginia Polytechnic Institute and State University, 2008-2013

Dr. Batool specializes in various aspects of geotechnical engineering including site characterization, developing geotechnical design parameters, design of shallow and deep foundations, retaining walls, and support of excavation. Her expertise includes advanced seepage and loading rate analyses of upstream constructed tailings dams, including stability and seismic evaluations. She also has experience in design of landslide remediations, management of geotechnical information for green infrastructure projects, and providing on-site construction supervision. Dr. Batool is an experienced user in Slope/W, SEEP/W, GSTABL, Rocscience Slide and Phase-2, SNAIL, COMSOL, GRLWEAP, LPILE, PILE GROUP 2, MFAD, MATHCAD, MS Office, Sigma Plot, and Grapher.

RELEVANT EXPERIENCE

- ***Access Road Landslide Investigation and Remediation, Confidential Client, Doddridge County, West Virginia.*** Senior Project Engineer. GAI evaluated the slope stability and landslide concerns identified along a Substation Access Road located in West Virginia. Responsibilities included design of soil nails using SnailWin, global stability check, developing specifications, and aiding in construction drawings. This project involved the design of a soil nail wall for support and remediation of the slide along an existing access road to a gas well. The initial design consisting of soldier pile and lagging wall option had constructability concerns, and a 220-ft long soil nail wall was designed as an alternative option.
- ***Wintersdale Road (SR 4014) Landslide Repairs Project, PennDOT, District 4-0, Wayne County, Pennsylvania.*** Senior Project Engineer. Provided Preliminary Geotechnical Analysis and interpretation of Data for SR 4014 as requested by PennDOT for this Design-Build project. GAI also provided slope stability evaluations and a proposed slide remediation.
- ***Hancock Highway (SR 0191) Landslide Repairs Project, PennDOT, District 4-0, Wayne County, Pennsylvania.*** Senior Project Engineer. GAI prepared a Preliminary Geotechnical Engineering Report, which presented geotechnical guidance for the remediation of landslides along Hancock Highway, SR 0191, Section REP, between the roadway and West Branch of the Delaware River, in Buckingham Township, Wayne County, Pennsylvania. The project included the stabilization and reconstruction of damaged roadways and replacement of a guide rail in the vicinity of several landslides along the highway.
- ***Nitro City Park Streambank Stabilization Project, Kanawha County, West Virginia.*** Senior Project Engineer. Responsibilities included preparing the geotechnical report for Kanawha River streambank stabilization, which consisted of development of soil parameters from available data, and slope stability analyses, along with stability recommendations.
- ***Mine Refuse Disposal Facilities Projects, West Virginia, Pennsylvania, Kentucky, Illinois, and Virginia.*** Senior Project Engineer. Responsibilities included: developing and evaluating field and laboratory testing programs/results; evaluating static and dynamic properties of coal refuse; performing material characterization studies; performing advanced seepage and construction loading rate analyses; performing post-earthquake slope stability analyses and the factors of safety against liquefaction flow failure; determining yield accelerations for estimating permanent deformations; developing piezometric action/warning levels based on tolerable excess pore pressures during construction for field monitoring; summarizing project data and calculation briefs in written reports and oral presentations of the field test results, laboratory testing, analytical results, and conclusions to the client and regulatory agencies. These projects included existing/proposed 100 to 400-foot high, high-hazard, upstream-constructed coal refuse and coal combustion by-product (CCB) tailings impoundments.
- ***Mainline Total Reconstruction, MP 320-326, Pennsylvania Turnpike Commission, Chester and Montgomery Counties, Pennsylvania.*** Geotechnical Engineer. Responsibilities included helping the design team in final submission for the Roadway GER, SFRs, and PS&E components detailing geotechnical roadway and structure foundation recommendations as geotechnical engineer. The project included retaining walls, structures, subsurface void and sinkhole grouting and stabilization, storm-water management basins, and embankment and cut-slope design in addition to typical design work associated with the roadway.
- ***I-81 D52 Bridge Replacement Project, PennDOT, District 4-0, Dorrance and Luzerne Counties, Pennsylvania.*** Geotechnical Engineer and Task Manager. Responsibilities included analyses and development of foundation and roadway design and recommendations, lateral load analyses, design of MSE Walls, stability analyses, a Roadway Geotechnical Engineering Report and three Structure Foundation Reports for the replacement of two I-81 bridge structures and one culvert extension. Other tasks included the support of Type, Size, and Location roadway, and final structure plans submission.

RICHARD RUFFOLO, PG, MS

Geological Manager

EDUCATION

MS, Geology, 2005, Kent State University

BS, Environmental Geology, 2001, University of Pittsburgh

LICENSES/REGISTRATIONS

Professional Geologist (PG): PA, KY, NC

CERTIFICATIONS/TRAINING

Advanced Project Management Training, GAI Consultants, Inc., 2009

ASFE Fundamentals of Professional Practice, 2005

SKILLS

Subsurface Exploration and Investigations

Landslide Investigation and Remediation

Foundation and Slope Stability Analysis and Design

INDUSTRY EXPERIENCE

GAI Consultants, Inc., 2002-Present

Pennsylvania Department of Transportation, 2000-2001 (summer internship)

U.S. Marine Corps, 1993-1997, Sergeant, Honorable Discharge

Mr. Ruffolo specializes in site characterization, subsurface investigations for foundations, landslides, and mine subsidence; analysis of slope stability; foundation design; and geotechnical report writing. He is a registered Professional Geologist in Pennsylvania, North Carolina, and Kentucky with over 20 years of geological experience. Mr. Ruffolo has experience in rock strength studies; drilling and micropile installation monitoring; foundation construction monitoring; and monitoring core logging. He has managed the remediation of over 25 landslides.

RELEVANT EXPERIENCE

- ***White Avenue Slip Project, City of Morgantown, Morgantown, West Virginia.*** Geological Manager. This project was for the remediation and design of a roadway damaged by a landslide located in Morgantown, West Virginia. The project required stabilization of the hillside with soldier pile and lagging wall, road repair, drainage upgrades, and remediation below the landslide. Responsible for coordinating and monitoring the subsurface investigation for this project, including geotechnical drilling.
- ***Access Road Landslide Investigation and Remediation, Confidential Client, Doddridge County, West Virginia.*** Geological Manager. GAI evaluated the slope stability and landslide concerns identified along a Substation Access Road located in West Virginia. Responsibilities included performing slope stability analysis including the design of soil nail wall for stabilization and remediation of the slide.
- ***Haul Road Landslide Project, West Virginia.*** Geological Manager. This 300 foot-wide and 500-foot-long landslide affected a West Virginia power station's ash disposal area haul road. Responsible for monitoring drilling and auger cast pile column installation.
- ***Gateway Connector at East Marion County Park, WVDOH, Fairmont, West Virginia.*** Geological Manager. Impact assessment project to address impacts to the park resulting from construction of the one-mile expressway from Interstate 79 to the City of Fairmont. Assisted with subsurface investigation.
- ***Wintersdale Road (SR 4014) Landslide Repairs Project, PennDOT, District 4-0, Wayne County, Pennsylvania.*** Senior Project Engineer. Provided Preliminary Geotechnical Analysis and interpretation of Data for SR 4014 as requested by PennDOT for this Design-Build project. GAI also provided slope stability evaluations and a proposed slide remediation.
- ***Hancock Highway (SR 0191) Landslide Repairs Project, PennDOT, District 4-0, Wayne County, Pennsylvania.*** Senior Project Engineer. GAI prepared a Preliminary Geotechnical Engineering Report, which presented geotechnical guidance for the remediation of landslides along Hancock Highway, SR 0191, Section REP, between the roadway and West Branch of the Delaware River, in Buckingham Township, Wayne County, Pennsylvania. The project included the stabilization and reconstruction of damaged roadways and replacement of a guide rail in the vicinity of several landslides along the highway.
- ***Oporto Street Stabilization Project, City of Pittsburgh On-Call Geotechnical Engineering Services Contract, Pittsburgh, Pennsylvania.*** Geological Manager. Responsible for subsurface investigations for this Street in the Southside Slopes neighborhood in the City of Pittsburgh where erosion was occurring on the east-facing slope, which is threatening the stability of the section of Operto Street at the intersection with Huron Street, resulting in pavement distress and guiderail displacement.
- ***Amusement Park Landslide Analysis and Design Project, Confidential Client, Allegheny County, Pennsylvania.*** Geological Manager. GAI developed conceptual construction alternatives to mitigate landslide movements south of an access road. GAI's scope included conducting a reconnaissance of the site; updating landslide features shown on the topographic map; identify available alternatives that could be considered for mitigation the landslide condition; and evaluating the probable effectiveness and order of magnitude construction cost of each alternative.
- ***SR 0048, Section 19, PennDOT, Allegheny County, Pennsylvania.*** Geological Manager. Conducted a landslide investigation and field instrumentation for landslide remediation. Also responsible for slope stability analysis and design for roadway widening along an existing section of the state route.
- ***Lake Lynn Hydropower Station Landslide, Lake Lynn, Pennsylvania.*** Geological Manager. Analysis and design to develop measures to correct landslide on the east slope just upstream of dam that jeopardizes two 138kV transmission line towers.
- ***PennDOT District 11-0 Open-End Contract, Allegheny, Beaver, and Lawrence Counties, Pennsylvania.*** Geological Manager. Assisted with various projects for an open-end contract comprising over 80 work orders. Responsible for preparing soil, geologic, and hydrologic setting reports, and conducting surface mine inspections.

MICHAEL HOLBERT, PE

Lead Roadway and Traffic Engineer

RESUME

EDUCATION

BS, Civil Engineering (Summa Cum Laude), 1996, West Virginia University

LICENSES/REGISTRATIONS

Professional Engineer (PE): WV, PA, MD

SKILLS

Project Management

Transportation and Roadway Engineering

Surveying

INDUSTRY EXPERIENCE

GAI Consultants, Inc., 2018–Present

AECOM, 2003–2018

Thrasher Engineering, Inc., 2002–2003

Hannah & Associates, Inc., 1999–2002

WVDOT, Division of Highways District 1, 1997–1999

Mr. Holbert serves as an Engineering Manager in GAI's Northeast Transportation group. His 25 years of transportation and roadway engineering experience include development of plans, specifications, and cost estimates; design study, preliminary engineering, and final engineering for numerous bridges and roadways. A West Virginia, Pennsylvania, and Maryland-registered Professional Engineer (PE), his experience includes working for the West Virginia Department of Transportation, Division of Highways (WVDOH); Pennsylvania Department of Transportation (PennDOT); Pennsylvania Turnpike Commission (PTC); Port Authority of Allegheny County (PAAC); Maryland Department of Transportation State Highway Administration (MDOT SHA); City of Morgantown; and Marshall University.

RELEVANT EXPERIENCE

- ***White Avenue Slip Project, City of Morgantown, Morgantown, West Virginia.*** Project Manager. Responsible for overseeing the remediation and design of a roadway damaged by a landslide located in Morgantown, West Virginia. The project required stabilization of the hillside with soldier pile and lagging wall, road repair, drainage upgrades, and remediation below the landslide.
- ***US 340 Charles Town Road to Virginia State Line, Design-Build Project, WVDOH, Jefferson County, West Virginia.*** Lead Roadway Engineer. In partnership with ALL Construction, Inc., GAI is the designer for the $40 Million roadway expansion project for the WVDOH to widen the U.S. 340 corridor to four lanes from Charles Town, WV to the Virginia State line. The project improves the existing two-lane section of the U.S. 340 corridor for 5.5 miles.
- ***Upper Gassaway Bridge Replacement Project, WVDOH District 7, Gassaway, West Virginia.*** Lead Roadway Engineer responsible for roadway, traffic, right-of-way (ROW), utilities, and drainage design. The GAI team was selected to provide engineering services for replacing an existing 4-span bridge comprised of simple-span trusses over the Elk River. The existing bridge is 330 feet, 6 inches long and has many challenges like federally endangered mussels, close proximity of utilities, tight right-of-way, and existing roadway geometry. The proposed replacement structure is a multibeam continuous curved plate girder on drilled shaft piers and integral abutments.
- ***Harmon Creek to Pennsylvania State Line, Concrete Joint Repair (US 22), IDIQ, WVDOH District 6, Brooke County, West Virginia.*** Deputy Project Manager/Civil Task Manager responsible for the development of preliminary engineering and final engineering for the concrete joint repair on a three-mile section of US 22 from the Harmon Creek Exit to the Pennsylvania State Line.
- ***Walnut Street Infrastructure Improvement Project, Historic Central Business District, City of Morgantown, West Virginia.*** Project Engineer responsible for site investigations, programming, conceptual design, and the development of plans, specifications, and cost estimates for the streetscape project from Spruce Street to High Street. Services also included stakeholder engagement.
- ***Mon Fayette Expressway (WV 43), WVDOH District 4, Monongalia County, West Virginia.*** Project Engineer during the plans, specifications, and estimates phase; and during the bidding and construction phases, which involved the design of 1.5 miles of four-lane controlled access mainline, two interchanges including a high-speed, tri-level connection with I-68, 1.9 miles of new or reconstructed local roads, and multiple bridge, box culverts, and retaining wall structures.
- ***High Street Streetscape Improvement Project (Phases IV and V), City of Morgantown, West Virginia.*** Project Engineer responsible for the development of plans, specifications, and cost estimates for the streetscape project from Kirk Street to Foundry Street, and Pleasant Street to Kirk Street. Services also included bidding/negotiation support and construction administration.
- ***Infrastructure Improvement Project for the Sunnyside TIF District, City of Morgantown, West Virginia.*** Project Engineer responsible for site investigations, programing, conceptual design, and the development of plans, specifications, and cost estimates under a task order basis for a variety of projects under TIF District development. Specific projects completed as part of this work included the Third Street Streetscape and the University Avenue, Third Street, and Beverly Avenue Intersection Improvements. Services also included bidding/negotiation support and construction administration.
- ***SR 0819/SR0119 Section A02, PennDOT District 12-0, Pennsylvania.*** Project Engineer responsible for the final drainage design for this project, which involved the replacement of a multispan structure over SR 0119 along with the redesign of a diamond interchange with new traffic signals in order to improve traffic flow and eliminate traffic queuing onto a major highway. There was a significant environmental and stormwater component to this project, as well as a major stream relocation.
- ***Sugar Run Bridge (CR 9), WVDOH District 6, Wetzel County, West Virginia.*** Project Engineer responsible for the development of roadway plans, specifications, and cost estimates for a 105-ft bridge over the West Virginia Fork of Fish Creek, including 400 ft of approach roadway, utility coordination, and ROW acquisition plans.

RACHEL MCCOY, PE

Roadway and Traffic Engineer

EDUCATION

BS, Civil Engineering (Minor: Mathematics), 2014, West Virginia University Institute of Technology

LICENSES/REGISTRATIONS

Professional Engineer (PE): WV, VA

SKILLS

Roadway Design

Maintenance of Traffic Design

Permitting

Utility Coordination

Cost Estimating

Plan Development

INDUSTRY EXPERIENCE

GAI Consultants, Inc., 2018–Present

West Virginia Division of Highways 2014–2018 and Summers 2013, 2012, and 2011

Ms. McCoy, a West Virginia and Virginia-registered Professional Engineer, serves as a PE in GAI's Northeast Transportation group. Her seven years of experience includes roadway design, maintenance of traffic design, permitting, utility coordination, cost estimating, and plan development. She has worked with numerous traffic and roadway engineering and modeling software programs, including: MicroStation, InRoads, OpenRoads, AutoCAD, AutoTURN, and FlowMaster.

RELEVANT EXPERIENCE

- ***White Avenue Slip Project, City of Morgantown, Morgantown, West Virginia.*** Roadway and Traffic Engineer. Responsible for providing quantity calculations and CAD support for a roadway damaged by a landslide located in Morgantown, West Virginia. The project required stabilization of the hillside with soldier pile and lagging wall, road repair, drainage upgrades, and remediation below the landslide.
- ***Miller Road Overpass Project, WVDOH, Huntington, West Virginia.*** Roadway and Traffic Engineer. Responsible for supporting engineering services for the replacement of an existing three-span bridge on I-64 over CR 52/6 Miller Road. This design-build project has many challenges, such as existing roadway geometry and complex maintenance of traffic.
- ***Upper Gassaway Bridge Replacement Project, WVDOH, Gassaway, West Virginia.*** Project Engineer supporting engineering services for replacing an existing four-span bridge composed of simple-span trusses over the Elk River. The existing bridge is 330.5 ft long, and the project area has many challenges, such as federally endangered mussels, close proximity of utilities, tight right-of-way, and existing roadway geometry. The proposed replacement structure is a multibeam continuous plate girder on drilled shaft piers and integral abutments.
- ***Mileground Airport Road, WVDOH, Morgantown, West Virginia.*** Project Manager. Responsible for designing for the In-House Engineering Division to widen a section of WV 705 from three lanes to five lanes. This project has many challenges, such as extensive storm drainage, close proximity of utilities, tight right-of-way, and existing roadway geometry.
- ***Oakwood Road Improvements Project, WVDOH, Charleston, West Virginia.*** Project Engineer providing engineering support for National Environmental Policy Act documentation for various sites within the project limits of MacCorkle Avenue South and Davis Creek Interchange.
- ***JC Cruikshank Memorial Bridge Project, WVDOH, Ivydale, Clay County, West Virginia.*** Project Engineer. GAI provided a PIE Study, consisting of the preparation of feasibility reports/studies and construction estimates for various alternatives, along with any subsequent surveying, mapping, and geotechnical engineering work that is necessary to develop a design study, contract plans and right-of-way acquisition plans.
- ***Horse Run Rib Arch Bridge Project, WVDOH, Weston, West Virginia.*** Project Manager and Roadway Designer. Responsible for designing for the In-House Engineering Division to replace an existing concrete arch bridge over Freemans Creek. The existing bridge has many challenges, such as close proximity of utilities, tight right-of-way, and existing roadway geometry. The proposed replacement structure is a simple-span steel girder bridge.
- ***6th Street Bridge Project, WVDOH, Point Pleasant, West Virginia.*** Project Manager and Roadway Designer designing for In-House Engineering Division to replace an existing steel bridge along WV 62. The existing bridge has many challenges, such as close proximity and relocation of utilities, tight ROW, and existing roadway geometry. The proposed replacement structure is a concrete box culvert.
- ***Big Sandy Truss Bridge Project, WVDOH, Big Sandy, West Virginia.*** Project Manager and Roadway Designer designing for In-House Engineering Division to replace an existing steel truss bridge over the Tug Fork River. The existing bridge has many challenges, such as federally endangered crawfish, close proximity of utilities, tight ROW, mountainous terrain, and existing roadway geometry. The proposed replacement structure is a single-span steel beam bridge.
- ***Gary Bridge Project, WVDOH, Gary, West Virginia.*** Project Manager and Roadway Designer designing for In-House Engineering Division to replace an existing concrete box beam bridge over the Tug Fork River. The existing bridge has many challenges, such as a quickly deteriorating bridge deck and beams, close proximity to a railroad crossing, close proximity of utilities, tight ROW, existing roadway geometry, and short time schedule. The proposed replacement structure is a simple-span steel girder bridge.

TERRY QUEEN

Lead Construction Technician

EDUCATION

Drafting and Design, 1992, West Virginia Institute of Technology

Math & Physical Education, 1986, West Virginia Northern Community College

SKILLS

Roadway Design

Maintenance of Traffic Design

Permitting

Utility Coordination

Cost Estimating

Plan Development

INDUSTRY EXPERIENCE

GAI Consultants, Inc., 2018–Present

West Virginia Division of Highways 2014–2018 and Summers 2013, 2012, and 2011

Mr. Queen specializes in construction monitoring for impoundment, site closure, infrastructure, and municipal projects. He provides drafting for site planning, earthwork detailing, and pre-mining and pre-blast surveys. Mr. Queen develops preliminary and final designs for mine reclamation sites and mining permits, and site development, and prepares construction drawings for highway and bridge projects. He compiles engineering data from a variety of sources; processes data using well-defined methods and presents data in prescribed formats.

RELEVANT EXPERIENCE

- ***Geotechnical Engineering Contract, Morgantown Utility Board, Morgantown, West Virginia.*** Lead Construction Technician. Projects included performing geotechnical investigation of the Wiles Hill Tank. Duties included monitoring of drilling activities, daily bore logs, and rock core sampling.
- ***Greystone Mine Drainage Project, WVDEP, Abandoned Mine Lands, Morgantown, West Virginia.*** Lead Construction Technician. Geotechnical Investigation for this Mine Drainage Project. Duties included monitoring of drilling activities, daily more logs, soil and coal refuse sampling, and rock core sampling.
- ***Access Road Landslide Investigation and Remediation, Confidential Client, Doddridge County, West Virginia.*** Lead Construction Technician. GAI evaluated the slope stability and landslide concerns identified along a Substation Access Road located in West Virginia.
- ***Latrobe (Gibson) Landslide II, WVDEP, Abandoned Mine Lands, Latrobe, West Virginia.*** Lead Construction Technician. Engineering work required to initiate an abatement plan to stabilize the hillside and abate the hazards associated with the land movement.
- ***Landslide Reclamation Project, Fayette County, West Virginia.*** Lead Construction Technician. Performed construction oversight for a landslide reclamation project of a valley fill in Fayette County, WV. Construction included collecting drainage in rock drains, rock buttress, earthwork, and drainage channels.
- ***Laurel Point Strip Project, WVDEP, Abandoned Mine Lands, Laurel Point, West Virginia.*** Lead Construction Technician. Duties include monitoring of drilling activities, daily bore logs, soil and coal refuse sampling and rock core sampling.
- ***Mine Complex Project Harrison County, West Virginia.*** Lead Construction Technician. Subsurface investigation, grading and drainage design for four refuse piles and various other refuse areas, design of seals for 18 mine portals.
- ***Well Pad Failure Project, Marshall and Wetzel Counties, West Virginia.*** Lead Construction Monitor Inspector. Work included monitoring slope stabilization for failed well pads located in Marshall and Wetzel Counties, West Virginia. Monitored erosion and sediment control best management practices associated with development of well pads. Monitored Blake Fork stream restoration.
- ***Ned's Branch Impoundment Emergency Reclamation Project, WVDEP, Office of Surface Mine Reclamation & Enforcement, Mingo County, West Virginia.*** Lead Construction Monitor. Monitored construction of 600,000 cubic yard rock buttress for a failed coal slurry impoundment. Work included monitoring of activities, troubleshooting, preparing daily logs and construction administration coordination

RESUME

DAVE BAKER, SR., PLS

Lead Surveyor

EDUCATION

Engineering Coursework, 1973, Pennsylvania State University

LICENSES/REGISTRATIONS

Professional Land Surveyor (PLS): WV, OH, NY, PA, KY

SKILLS

Location and Topographic Surveys

ALTA Property Surveys

Surveying for Construction Layout and As-Built Features

Surveys for Design and Utility Investigation

Site and Lot Mapping

Ground Control for Aerial Mapping

CERTIFICATIONS/TRAINING

HAZMAT short course, 1996

Land Surveyors Computations by Keen, 1990

Surveying and Mapping, International Correspondence Schools, 1986

Evidence and Procedures, Robillard and Wilson, 1985

Understanding Surveying Measurements, Buckner, 1980

INDUSTRY EXPERIENCE

GAI Consultants, Inc., 2012-Present

Pedersen & Pedersen, 1999-2011

Michael Baker Jr., Inc., 1988-1998

Richardson, Gordon & Associates (HDR), 1978-1988

Mr. Baker specializes in survey, and has completed many large, complex highway, airport and bridge surveying projects. He has performed surveys for verification of construction layout and as-built features, location and topographic surveys for design and utility investigation, and site and lot mapping, including ALTA property surveys and legal descriptions; and has coordinated and set ground control for aerial mapping.

RELEVANT EXPERIENCE

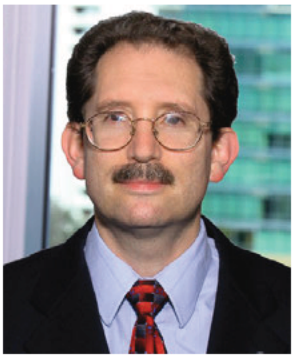
- ***Access Road Landslide Investigation and Remediation, Confidential Client, Doddridge County, West Virginia.*** Lead Surveyor. Responsible for performing a detailed topographic and location survey, setting of construction centerlines, centerline profiles, control point referencing, setting of benchmarks, geotechnical boring location, utility location, for design of renovation of Pennsylvania Avenue.
- ***Pennsylvania Avenue Renovation Project, Weirton, West Virginia.*** Lead Surveyor. Responsible for performing a detailed topographic and location survey, setting of construction centerlines, centerline profiles, control point referencing, setting of benchmarks, geotechnical boring location, utility location, for design of renovation of Pennsylvania Avenue.
- ***US 40 Bridge over Wheeling Creek, Elm Grove, West Virginia.*** Lead Surveyor. Provided mapping and design support surveys, centerline stakeout, and referencing for replacement of the 250-foot long bridge.
- ***Route 73 over Boothsville Bridge, Boothsville, West Virginia.*** Lead Surveyor. Provided mapping and design support surveys, centerline stakeout, and referencing for a 50-feet span of Route 73 over Booths Creek Bridge.
- ***S Bridge Project, Elm Grove, West Virginia.*** Lead Surveyor. Provided mapping and design support surveys, centerline stakeout and referencing for replacement of 250 feet long US 40 bridge over Wheeling Creek.
- ***Boothsville Bridge Project, Boothsville, West Virginia.*** Lead Surveyor. Provided mapping and design support surveys, centerline stakeout and referencing for 50 feet span Rte 73 over a branch of Booths Creek.
- ***138kV Transmission Line Extension Survey, Marshall County, West Virginia.*** Lead Surveyor. Project included construction staking, a property boundary survey, easement creations, and right-of-way staking.
- ***69kV Transmission Line Relocation Survey, Marshall County, West Virginia.*** Lead Surveyor. GAI provided ground survey services, which included a full ground topographic survey showing property lines, existing utility easements, and road boundaries.
- ***David L. Lawrence Convention Center Project, Pittsburgh, Pennsylvania.*** Lead Surveyor. Responsible for performing a detailed topographic and location survey, setting of construction centerlines, centerline profiles, control point referencing, setting of benchmarks, geotechnical boring location, utility location, for design of renovation of Pennsylvania Avenue.
- ***Pittsburgh International Airport Cargo Road Project, Pittsburgh, Pennsylvania.*** Lead Surveyor. Responsible for providing detailed surveying, mapping and construction layout of Cargo Road (five miles). Also responsible for access and security clearance.
- ***Robinson Township Site Investigation and Remediation Project, Allegheny County, Pennsylvania.*** Lead Surveyor. Conducted property boundary survey, secured topographic mapping, located investigative borings installed, and prepared a site plan showing gathered information to assist in the site investigation and remediation planning.
- ***Cornell Avenue Bridge Project, Pittsburgh, Pennsylvania.*** Lead Surveyor. Provided mapping and design support surveys, centerline stakeout, and referencing for replacement of 700 span Cornell Avenue over I-79.
- ***31st Street Bridge Project, Pittsburgh, Pennsylvania.*** Lead Surveyor. Provided mapping and design support surveys for rehab of 1500 feet long highway bridge over the Allegheny River.

RESUME

BRUCE ROTH, PE, MS

Project Advisor

gai consultants



EDUCATION

MS, Civil and Environmental Engineering, 1991, Cornell University

BS, Geological Engineering, 1985, University of Arizona

LICENSES/REGISTRATIONS

Professional Engineer (PE): WV, PA, NC, VA, MD

CERTIFICATIONS/TRAINING

Leaders to Watch Program, GAI Consultants, Inc., 2009

Advanced Project Management Training, GAI Consultants, Inc., 2009

High Performance Management Training, GAI Consultants, Inc., 2008

ASFE Fundamentals of Professional Practice, 2001

Troxler Moisture-Density Gauge Operation

Commonwealth of PA Drilling Inspector Level 2

SKILLS

Foundation Analysis and Design

Rock and Soil Mechanics

Slope Stability Analysis and Design

Subsurface Exploration and Investigation

Geophysical Investigations

Geosynthetic Engineering and Design

INDUSTRY EXPERIENCE

GAI Consultants, Inc., 1990-Present

Cornell University, 1988-1990

Mr. Roth, Director of GAI's Geotechnical Engineering Group, has over 35 years of geotechnical experience, specializing in foundation and slope stability analysis and design, rock and soil mechanics, subsurface exploration, geophysical investigation techniques, and geosynthetics. He provides geotechnical engineering services for dam and building foundations, coal combustion residuals facilities, electrical and gas transmission lines, and the geotechnical aspects of transportation projects. His geotechnical engineering experience for clients in both the public and private sectors includes 20 years of project management experience. Mr. Roth specializes in earthquake induced permanent ground deformations and the effects on lifeline facilities. His research work at Cornell University included evaluating earthquake induced ground failure from soil liquefaction and surface faulting, and assessing buried lifeline response to large soil deformation.

RELEVANT EXPERIENCE

- ***Access Road Landslide Investigation and Remediation, Confidential Client, Doddridge County, West Virginia.*** Engineering Director. GAI performed a landslide investigation and repairs for a 300-foot-wide by 500-foot-long landslide affecting the power station's ash disposal area haul road. Geotechnical Engineer responsible for landslide stabilization with auger cast grout columns downstream of the embankment.
- ***Power Station Landslide, West Virginia.*** Lead Geotechnical Engineer. Landslide investigation and repair project for a 300'-wide, 500'-long landslide affecting the power station's ash disposal area haul road. Responsible for landslide stabilization with auger cast grout columns downstream of an embankment.
- ***Wintersdale Road (SR 4014) Landslide Repairs Project, PennDOT, District 4-0, Wayne County, Pennsylvania.*** Lead Geotechnical Engineer. Provided Preliminary Geotechnical Analysis and interpretation of Data for SR 4014 as requested by PennDOT for this Design-Build project. GAI also provided slope stability evaluations and a proposed slide remediation.
- ***Geotechnical Open-End Agreement, City of Pittsburgh, Pennsylvania.*** Project Manager. GAI provided On-Call Geotechnical Engineering Services to the City of Pittsburgh as part of an open-end agreement to include investigation and remediation of earth movement, investigation and design of foundations and structures, inspection of excavations of fill operations, and permitting services. 14 total work orders that were performed, including services for numerous slip/stabilization projects, including, but not limited to the following:
  - ***Schenley Park Landslides, Upper and Lower Panther Hollow Trail.*** The project involved two landslides along the Upper and Lower Panther Hollow Trail. GAI's scope of work included a subsurface investigation, with drilling and monitoring two borings at each landslide; performing laboratory testing of samples; and providing the City of Pittsburgh with recommendations for remediation, including design for slope stabilization.
  - ***Oporto Street Stabilization Project.*** Responsible for subsurface investigations for this Street in the Southside Slopes neighborhood in the City of Pittsburgh where erosion was occurring on the east-facing slope, which is threatening the stability of the section of Operto Street at the intersection with Huron Street, resulting in pavement distress and guiderail displacement.
  - ***Overbeck Street Stabilization Project.*** GAI performed a subsurface exploration for the depression and resulting cracked pavement on Overbeck Street in the Springhill Neighborhood of the City of Pittsburgh, Pennsylvania. Overbeck Street is located within landslide prone zones. The exploration consisted of two borings; selecting soil samples for laboratory testing; and preparing a Subsurface Exploration Report. ***I-79 Landslide, PennDOT District 12, Washington County, Pennsylvania.*** Lead Geotechnical Engineer. Responsible for a subsurface investigation and preparing geotechnical reports, including recommendations and designs for stabilizing a major landslide on Interstate 79.
- ***Indiana Landfill Landslide, East Chicago, Indiana.*** Geotechnical Engineer. Landslide investigation to determine the cause of a .5M cubic yard landslide in a 130-foot-high fill slope and to design the repair and closure of the 2M cubic yard disposal area for residual wastes.
- ***Summerset at Frick Park Residential Development Project, Urban Redevelopment Authority of Pittsburgh, Pittsburgh, Pennsylvania.*** Lead Geotechnical Engineer. GAI provided brownfield development requiring Phase I and II grading, permitting, infrastructure planning, and the design for a 713-unit multi-phased residential development on an abandoned slag heap.

APPENDIX B

SIGNED SOLICITATION NO. CEOI 0603 ADJ220000003

Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Expression of Interest
Architect/Engr

Proc Folder: 915025 **Doc Description:** South Gate Road Slip Stabilization Design-Camp Dawson **Proc Type:** Central Purchase Order			**Reason for Modification:**
Date Issued	**Solicitation Closes**	**Solicitation No**	**Version**
2021-07-28	2021-08-12 13:30	CEOI 0603 ADJ2200000003	1

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code: 000000160372

Vendor Name : GAI Consultants, Inc.

Address :

Street : 500 Lee Street East, Suite 700

City : Charleston

State : West Virginia **Country :** United States **Zip :** 25301

Principal Contact : Charles Straley, PE, PLS, MS

Vendor Contact Phone: 304.541.0854 **Extension:**

FOR INFORMATION CONTACT THE BUYER
David H Pauline
304-558-0067
david.h.pauline@wv.gov

Vendor Signature X Charles F. Straley Digitally signed by Charles F. Straley DN: E=c.straley@gaiconsultants.com, CN=Charles F. Straley Date: 2021.08.09 11:21:13-04'00' **FEIN#** 25-1260999 **DATE** August 9, 2021

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION

The West Virginia Purchasing Division, for the agency, the West Virginia Army National Guard, Construction and Facilities Management Office, is soliciting Expressions of Interest from qualified firms to provide professional design services to develop construction documents to address the second South Gate Road Slip Stabilization, at Camp Dawson, WV, per the attached documentation.

INVOICE TO	SHIP TO
ADJUTANT GENERALS OFFICE 1707 COONSKIN DR CHARLESTON WV 25311 US	CAMP DAWSON ARMY TRAINING SITE 240 ARMY RD KINGWOOD WV 26537-1077 US

Line	Comm Ln Desc	Qty	Unit Issue
1	South Gate Road Slip Stabilization Design-Camp Dawson		

Comm Code	Manufacturer	Specification	Model #
81101508			

Extended Description:
Provide professional architectural and engineering design services per the attached documentation.

SCHEDULE OF EVENTS

Line	Event	Event Date

	Document Phase	Document Description	Page 3
ADJ2200000003	Draft	South Gate Road Slip Stabilization Design-Camp Dawson	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

EXPRESSION OF INTEREST

CEOI ADJ22*03 - Camp Dawson South Gate Road Slip Stabilization Design

TABLE OF CONTENTS:

SECTION ONE: GENERAL INFORMATION

1. **PURPOSE:** The Acquisition and Contract Administration Section of the Purchasing Division ("Purchasing Division") is soliciting Expression(s) of Interest ("EOI" or "Bids") for West Virginia Army National Guard, Construction and Facilities Management Office ("Agency"), from qualified firms to provide architectural/engineering services ("Vendors") as defined herein.

2. **PROJECT:** The mission or purpose of the project for which bids are being solicited is to provide architecture and engineering design services and to provide renovation-construction bid documents suitable for advertisement, using state purchasing procedures. Approximately 200 linear feet of road embankment is currently unstable and slipping; impacting a road used by the West Virginia Army National Guard (WVARNG) and a stream. ("Project"). **The award, execution and completion of this contract is contingent upon receipt of Funding.**

3. **SCHEDULE OF EVENTS:**

Release of the EOI.....	07/28/2021
Expressions of Interest Opening Date.....	08/12/2021
Estimated Date for Interviews of Three Firms.....	TBD
Price Negotiations Commence with Highest Ranked Firm	TBD

EXPRESSION OF INTEREST

CEOI ADJ22*03 - Camp Dawson South Gate Road Slip Stabilization Design

SECTION TWO: INSTRUCTIONS TO VENDORS SUBMITTING BIDS

Instructions begin on the next page.

INSTRUCTIONS TO VENDORS SUBMITTING BIDS

1. REVIEW DOCUMENTS THOROUGHLY: The attached documents contain a solicitation for bids. Please read these instructions and all documents attached in their entirety. These instructions provide critical information about requirements that if overlooked could lead to disqualification of a Vendor's bid. All bids must be submitted in accordance with the provisions contained in these instructions and the Solicitation. Failure to do so may result in disqualification of Vendor's bid.

2. MANDATORY TERMS: The Solicitation may contain mandatory provisions identified by the use of the words "must," "will," and "shall." Failure to comply with a mandatory term in the Solicitation will result in bid disqualification.

3. PREBID MEETING: The item identified below shall apply to this Solicitation.

☑ A pre-bid meeting will not be held prior to bid opening

☐ A **MANDATORY PRE-BID** meeting will be held at the following place and time:

All Vendors submitting a bid must attend the mandatory pre-bid meeting. Failure to attend the mandatory pre-bid meeting shall result in disqualification of the Vendor's bid. No one individual is permitted to represent more than one vendor at the pre-bid meeting. Any individual that does attempt to represent two or more vendors will be required to select one vendor to which the individual's attendance will be attributed. The vendors not selected will be deemed to have not attended the pre-bid meeting unless another individual attended on their behalf.

An attendance sheet provided at the pre-bid meeting shall serve as the official document verifying attendance. Any person attending the pre-bid meeting on behalf of a Vendor must list on the attendance sheet his or her name and the name of the Vendor he or she is representing.

Additionally, the person attending the pre-bid meeting should include the Vendor's E-Mail address, phone number, and Fax number on the attendance sheet. It is the Vendor's responsibility to locate the attendance sheet and provide the required information. Failure to complete the attendance sheet as required may result in disqualification of Vendor's bid.

All Vendors should arrive prior to the starting time for the pre-bid. Vendors who arrive after the starting time but prior to the end of the pre-bid will be permitted to sign in but are charged with knowing all matters discussed at the pre-bid.

Questions submitted at least five business days prior to a scheduled pre-bid will be discussed at the pre-bid meeting if possible. Any discussions or answers to questions at the pre-bid meeting

are preliminary in nature and are non-binding. Official and binding answers to questions will be published in a written addendum to the Solicitation prior to bid opening.

4. VENDOR QUESTION DEADLINE: Vendors may submit questions relating to this Solicitation to the Purchasing Division. Questions must be submitted in writing. All questions must be submitted on or before the date listed below and to the address listed below to be considered. A written response will be published in a Solicitation addendum if a response is possible and appropriate. Non-written discussions, conversations, or questions and answers regarding this Solicitation are preliminary in nature and are nonbinding.

Submitted e-mails should have solicitation number in the subject line.

Question Submission Deadline: N/A

Submit Questions to: David Pauline, Senior Buyer
2019 Washington Street, East
Charleston, WV 25305
Fax: (304) 558-4115 (Vendors should not use this fax number for bid submission)
Email: david.h.pauline@wv.gov

5. VERBAL COMMUNICATION: Any verbal communication between the Vendor and any State personnel is not binding, including verbal communication at the mandatory pre-bid conference. Only information issued in writing and added to the Solicitation by an official written addendum by the Purchasing Division is binding.

6. BID SUBMISSION: All bids must be submitted electronically through wvOASIS or signed and delivered by the Vendor to the Purchasing Division at the address listed below on or before the date and time of the bid opening. Any bid received by the Purchasing Division staff is considered to be in the possession of the Purchasing Division and will not be returned for any reason. The Purchasing Division will not accept bids, modification of bids, or addendum acknowledgment forms via e-mail. Acceptable delivery methods include electronic submission via wvOASIS, hand delivery, delivery by courier, or facsimile.

The bid delivery address is:
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

A bid that is not submitted electronically through wvOASIS should contain the information listed below on the face of the envelope or the bid may be rejected by the Purchasing Division.:

SEALED BID:
BUYER:
SOLICITATION NO.:
BID OPENING DATE:
BID OPENING TIME:
FAX NUMBER:

The Purchasing Division may prohibit the submission of bids electronically through wvOASIS at its sole discretion. Such a prohibition will be contained and communicated in the wvOASIS system resulting in the Vendor's inability to submit bids through wvOASIS. Submission of a response to a Request for Proposal is not permitted in wvOASIS.

For Request For Proposal ("RFP") Responses Only: In the event that Vendor is responding to a request for proposal, the Vendor shall submit one original technical and one original cost proposal prior to the bid opening date and time identified in Section 7 below, plus _____ convenience copies of each to the Purchasing Division at the address shown above. Additionally, the Vendor should clearly identify and segregate the cost proposal from the technical proposal in a separately sealed envelope.

7. BID OPENING: Bids submitted in response to this Solicitation will be opened at the location identified below on the date and time listed below. Delivery of a bid after the bid opening date and time will result in bid disqualification. For purposes of this Solicitation, a bid is considered delivered when confirmation of delivery is provided by wvOASIS (in the case of electronic submission) or when the bid is time stamped by the official Purchasing Division time clock (in the case of hand delivery).

Bid Opening Date and Time: August 12, 2021 at 1:30 pm

Bid Opening Location: Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

8. ADDENDUM ACKNOWLEDGEMENT: Changes or revisions to this Solicitation will be made by an official written addendum issued by the Purchasing Division. Vendor should acknowledge receipt of all addenda issued with this Solicitation by completing an Addendum Acknowledgment Form, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

9. BID FORMATTING: Vendor should type or electronically enter the information onto its bid to prevent errors in the evaluation. Failure to type or electronically enter the information may result in bid disqualification.

10. ALTERNATE MODEL OR BRAND: Unless the box below is checked, any model, brand, or specification listed in this Solicitation establishes the acceptable level of quality only and is not intended to reflect a preference for, or in any way favor, a particular brand or vendor. Vendors may bid alternates to a listed model or brand provided that the alternate is at least equal to the model or brand and complies with the required specifications. The equality of any alternate being bid shall be determined by the State at its sole discretion. Any Vendor bidding an alternate model or brand should clearly identify the alternate items in its bid and should include manufacturer's specifications, industry literature, and/or any other relevant documentation demonstrating the equality of the alternate items. Failure to provide information for alternate items may be grounds for rejection of a Vendor's bid.

☐ This Solicitation is based upon a standardized commodity established under W. Va. Code § 5A-3-61. Vendors are expected to bid the standardized commodity identified. Failure to bid the standardized commodity will result in your firm's bid being rejected.

11. EXCEPTIONS AND CLARIFICATIONS: The Solicitation contains the specifications that shall form the basis of a contractual agreement. Vendor shall clearly mark any exceptions, clarifications, or other proposed modifications in its bid. Exceptions to, clarifications of, or modifications of a requirement or term and condition of the Solicitation may result in bid disqualification.

12. COMMUNICATION LIMITATIONS: In accordance with West Virginia Code of State Rules §148-1-6.6, communication with the State of West Virginia or any of its employees regarding this Solicitation during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited without prior Purchasing Division approval. Purchasing Division approval for such communication is implied for all agency delegated and exempt purchases.

13. REGISTRATION: Prior to Contract award, the apparent successful Vendor must be properly registered with the West Virginia Purchasing Division and must have paid the $125 fee, if applicable.

14. UNIT PRICE: Unit prices shall prevail in cases of a discrepancy in the Vendor's bid.

15. PREFERENCE: Vendor Preference may be requested in purchases of motor vehicles or construction and maintenance equipment and machinery used in highway and other infrastructure projects. Any request for preference must be submitted in writing with the bid, must specifically identify the preference requested with reference to the applicable subsection of West Virginia Code § 5A-3-37, and must include with the bid any information necessary to evaluate and confirm the applicability of the requested preference. A request form to help facilitate the request can be found at:
http://www.state.wv.us/admin/purchase/vrc/Venpref.pdf.

15A. RECIPROCAL PREFERENCE: The State of West Virginia applies a reciprocal preference to all solicitations for commodities and printing in accordance with W. Va. Code § 5A-3-37(b). In effect, non-resident vendors receiving a preference in their home states, will see that same preference granted to West Virginia resident vendors bidding against them in West Virginia. Any request for reciprocal preference must include with the bid any information necessary to evaluate and confirm the applicability of the preference. A request form to help facilitate the request can be found at: http://www.state.wv.us/admin/purchase/vrc/Venpref.pdf.

16. SMALL, WOMEN-OWNED, OR MINORITY-OWNED BUSINESSES: For any solicitations publicly advertised for bid, in accordance with West Virginia Code §5A-3-37(a)(7) and W. Va. CSR § 148-22-9, any non-resident vendor certified as a small, women-owned, or minority-owned business under W. Va. CSR § 148-22-9 shall be provided the same preference made available to any resident vendor. Any non-resident small, women-owned, or minority-owned business must identify itself as such in writing, must submit that writing to the Purchasing Division with its bid, and must be properly certified under W. Va. CSR § 148-22-9 prior to contract award to receive the preferences made available to resident vendors. Preference

for a non-resident small, women-owned, or minority owned business shall be applied in accordance with W. Va. CSR § 148-22-9.

17. WAIVER OF MINOR IRREGULARITIES: The Director reserves the right to waive minor irregularities in bids or specifications in accordance with West Virginia Code of State Rules § 148-1-4.6.

18. ELECTRONIC FILE ACCESS RESTRICTIONS: Vendor must ensure that its submission in wvOASIS can be accessed and viewed by the Purchasing Division staff immediately upon bid opening. The Purchasing Division will consider any file that cannot be immediately accessed and viewed at the time of the bid opening (such as, encrypted files, password protected files, or incompatible files) to be blank or incomplete as context requires, and are therefore unacceptable. A vendor will not be permitted to unencrypt files, remove password protections, or resubmit documents after bid opening to make a file viewable if those documents are required with the bid. A Vendor may be required to provide document passwords or remove access restrictions to allow the Purchasing Division to print or electronically save documents provided that those documents are viewable by the Purchasing Division prior to obtaining the password or removing the access restriction.

19. NON-RESPONSIBLE: The Purchasing Division Director reserves the right to reject the bid of any vendor as Non-Responsible in accordance with W. Va. Code of State Rules § 148-1-5.3, when the Director determines that the vendor submitting the bid does not have the capability to fully perform or lacks the integrity and reliability to assure good-faith performance."

20. ACCEPTANCE/REJECTION: The State may accept or reject any bid in whole, or in part in accordance with W. Va. Code of State Rules § 148-1-4.5. and § 148-1-6.4.b."

21. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

22. INTERESTED PARTY DISCLOSURE: West Virginia Code § 6D-1-2 requires that the vendor submit to the Purchasing Division a disclosure of interested parties to the contract for all contracts with an actual or estimated value of at least $1 million. That disclosure must occur on the form prescribed and approved by the WV Ethics Commission prior to contract award.

A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. This requirement does not apply to publicly traded companies listed on a national or international stock exchange. A more detailed definition of interested parties can be obtained from the form referenced above.

23. WITH THE BID REQUIREMENTS: In instances where these specifications require documentation or other information with the bid, and a vendor fails to provide it with the bid, the Director of the Purchasing Division reserves the right to request those items after bid opening and prior to contract award pursuant to the authority to waive minor irregularities in bids or specifications under W. Va. CSR § 148-1-4.6. This authority does not apply to instances where state law mandates receipt with the bid.

24. E-MAIL NOTIFICATION OF AWARD: The Purchasing Division will attempt to provide bidders with e-mail notification of contract award when a solicitation that the bidder participated in has been awarded. For notification purposes, bidders must provide the Purchasing Division with a valid email address in the bid response. Bidders may also monitor wvOASIS or the Purchasing Division's website to determine when a contract has been awarded.

EXPRESSION OF INTEREST

CEOI ADJ22*03 - Camp Dawson South Gate Road Slip Stabilization Design

SECTION THREE: PROJECT SPECIFICATIONS

1. **Location:** Agency is located at WVARNG, Joint Forces Headquarters, Construction and Facilities Management Office, 1707 Coonskin Drive, Charleston, WV 25311 and the Project will be completed at Camp Dawson, located at Kingwood WV.

2. **Background:** The Owner is seeking the services of a qualified professional architectural/engineering firm to design and develop construction bid documents to fully repair a slip and stabilize the slope of approximately 200 linear feet of road embankment on the South Gate access road. This facility will be renovated to support elements of the West Virginia Army National Guard Command.

3. **Qualifications and Experience:** Vendors should provide information regarding its employees, such as staff qualifications and experience in completing similar projects; references; copies of any staff certifications or degrees applicable to this project; proposed staffing plan; descriptions of past projects completed entailing the location of the project, project manager name and contact information, type of project, and what the project goals and objectives were and how they were met.

4. **Project and Goals:** The project goals and objectives are listed below. Vendors should discuss any anticipated concepts and proposed methods of approach for achieving each of the listed goals and objectives:

    4.1. Provide a complete design including all engineering disciplines to prepare construction bid documents for the WV State Purchasing Division. The key design elements include, stabilizing the road embankment, rebuilding the road, and protecting the stream below the site.

    4.2. Provide a complete design for the South Gate Access road, which is used by heavy and large military vehicles and equipment to access training areas. The road shall be repaired in such a manner as to accommodate the loads and sizes of these military vehicles.

    4.3. If required, designer to provide all geotechnical work to include any necessary drill borings. Designer shall be responsible for researching and investigating the location of existing underground and above ground utilities, and to provide drawings and specifications of any and all utility and road infrastructure as needed and directed by the owner and/or state agency, utility company or other utility approval authority for Kingwood, West Virginia.

4.4. Drawings, specifications and cost estimates are to be submitted at 35%, 65%, 95% and 100% design milestones. Designer may submit 35%, 65% and 95% drawings and specifications digitally; 100% construction documents are to be submitted both digitally and 3 hard copies.

5. **Oral Presentations/Interviews:** The Agency has the option of requiring oral presentations of three vendors that are determined to be the most qualified to provide the required service. If this option is exercised, it would be listed in the Schedule of Events (Section 1.3) of this EOI. During oral presentations, Vendors may not alter or add to their submitted proposal, but only clarify information. A description of the materials and information to be presented is provided below:

5.1. Materials and Information Required at Oral Presentation:
"Evaluation and Award Process" will be conducted with the three (3) firms selected as the most qualified by the WVARNG-CFMO selection committee. The Committee will schedule the interviews.

The format for the interviews will be a 15-30 minute Power-Point presentation consisting, at a minimum, of the following:

A) Corporation/Personnel experience as it relates to the project(s)

B) Proposed project management plan

C) Key personnel available for the proposed work

D) Proposed subcontractors

E) Product quality control

F) Project cost control

EXPRESSION OF INTEREST

CEOI ADJ22*03 - Camp Dawson South Gate Road Slip Stabilization Design

SECTION FOUR: VENDOR PROPOSAL, EVALUATION, & AWARD

1. **Economy of Preparation:** EOI's should be prepared simply and economically, providing a straightforward, concise description of firm's abilities to satisfy the requirements and goals and objectives of the EOI. Emphasis should be placed on completeness and clarity of content. The response sections should be labeled for ease of evaluation.

2. **BIDS MUST NOT CONTAIN PRICE QUOTATIONS:** The State shall select the best value solution according to §5G-1-3 of the West Virginia State Code. In accordance with the Code requirements, no "price" or "fee" information is requested or permitted in the bid response.

3. **Evaluation and Award Process:** Expressions of Interest for projects estimated to cost $250,000 or more will be evaluated and awarded in accordance with West Virginia Code §5G-1-3. That Code section requires the following:

    3.1. **Required Elements of EOI Response**: The director of purchasing shall encourage such firms engaged in the lawful practice of the profession to submit an expression of interest, which shall include a statement of qualifications, and performance data and may include anticipated concepts and proposed methods of approach to the project.

    3.2. **Public Advertisement:** All EOI requests shall be announced by public notice published as a Class II legal advertisement in compliance with the provisions of West Virginia Code §59-3-1 et seq.

    3.3. **Selection Committee Evaluation & Negotiation:** A committee comprised of three to five representatives of the agency initiating the request shall:

        3.3.1. Evaluate the statements of qualifications and performance data and other material submitted by the interested firms and select three firms which in their opinion are the best qualified to perform the desired service.

        3.3.2. Conduct interviews with each firm selected and conduct discussions regarding anticipated concepts and the proposed methods of approach to the assignment.

3.3.3. Rank in order of preference no less than three professional firms deemed to be the most highly qualified to provide the services required, and shall commence scope of service and price negotiations with the highest qualified professional firm.
If negotiations are successful, the contract documents will be forwarded to the WV Purchasing Division for review and approval, and then to the WV Attorney General's office for review and approval as to form. Once approved, a formal contract will be issued to the Vendor.

Should the agency be unable to negotiate a satisfactory contract with the professional firm considered to be the most qualified, at a fee determined to be fair and reasonable, the agency will then commence price negotiations with the second most qualified firm, and so on, until an agreement is reached, or the solicitation is cancelled.

3.4. **Three Firm Evaluation Rankings:** The Agency will evaluate the three firms that have been determined most qualified to perform the desired service. The evaluation criteria is defined in the Procurement Specifications section and based on a 100 point total score. Points shall be assigned based upon the Vendor's response to the evaluation criteria as follows:

• Qualifications and experience	(40) Points Possible
• Approach and methodology for meeting Goals and Objectives	(20) Points Possible
• Proposed project management, Quality & Cost control plans	(20) Points Possible
• Oral interview	(20) Points Possible
Total	100

EXPRESSION OF INTEREST

CEOI ADJ22*03 - Camp Dawson South Gate Road Slip Stabilization Design

SECTION FIVE: TERMS AND CONDITIONS

Terms and conditions begin on the next page.

GENERAL TERMS AND CONDITIONS:

1. CONTRACTUAL AGREEMENT: Issuance of an Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance by the State of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid, or on the Contract if the Contract is not the result of a bid solicitation, signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.

2. DEFINITIONS: As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.

2.1. "Agency" or **"Agencies"** means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.

2.2. "Bid" or **"Proposal"** means the vendors submitted response to this solicitation.

2.3. "Contract" means the binding agreement that is entered into between the State and the Vendor to provide the goods or services requested in the Solicitation.

2.4. "Director" means the Director of the West Virginia Department of Administration, Purchasing Division.

2.5. "Purchasing Division" means the West Virginia Department of Administration, Purchasing Division.

2.6. "Award Document" means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the contract holder.

2.7. "Solicitation" means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.

2.8. "State" means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.

2.9. "Vendor" or **"Vendors"** means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

3. CONTRACT TERM; RENEWAL; EXTENSION: The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:

☐ **Term Contract**

Initial Contract Term: This Contract becomes effective on _____ and the initial contract term extends until _____.

Renewal Term: This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal should be delivered to the Agency and then submitted to the Purchasing Division thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Unless otherwise specified below, renewal of this Contract is limited to _____ successive one (1) year periods or multiple renewal periods of less than one year, provided that the multiple renewal periods do not exceed the total number of months available in all renewal years combined. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

☐ **Alternate Renewal Term** – This contract may be renewed for _____ successive _____ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

Delivery Order Limitations: In the event that this contract permits delivery orders, a delivery order may only be issued during the time this Contract is in effect. Any delivery order issued within one year of the expiration of this Contract shall be effective for one year from the date the delivery order is issued. No delivery order may be extended beyond one year after this Contract has expired.

☐ **Fixed Period Contract:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within _____ days.

☐ **Fixed Period Contract with Renewals:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and part of the Contract more fully described in the attached specifications must be completed within _____ days. Upon completion of the work covered by the preceding sentence, the vendor agrees that maintenance, monitoring, or warranty services will be provided for _____ year(s) thereafter.

☐ **One Time Purchase:** The term of this Contract shall run from the issuance of the Award Document until all of the goods contracted for have been delivered, but in no event will this Contract extend for more than one fiscal year.

☑ **Other:** See attached AIA-B101-2017

4. AUTHORITY TO PROCEED: Vendor is authorized to begin performance of this contract on the date of encumbrance listed on the front page of the Award Document unless either the box for "Fixed Period Contract" or "Fixed Period Contract with Renewals" has been checked in Section 3 above. If either "Fixed Period Contract" or "Fixed Period Contract with Renewals" has been checked, Vendor must not begin work until it receives a separate notice to proceed from the State. The notice to proceed will then be incorporated into the Contract via change order to memorialize the official date that work commenced.

5. QUANTITIES: The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.

☐ **Open End Contract:** Quantities listed in this Solicitation/Award Document are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.

☑ **Service:** The scope of the service to be provided will be more clearly defined in the specifications included herewith.

☐ **Combined Service and Goods:** The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.

☐ **One Time Purchase:** This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.

6. EMERGENCY PURCHASES: The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute of breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One Time Purchase contract.

7. REQUIRED DOCUMENTS: All of the items checked below must be provided to the Purchasing Division by the Vendor as specified below.

☐ **BID BOND (Construction Only):** Pursuant to the requirements contained in W. Va. Code § 5-22-1(c), All Vendors submitting a bid on a construction project shall furnish a valid bid bond in the amount of five percent (5%) of the total amount of the bid protecting the State of West Virginia. The bid bond must be submitted with the bid.

☐ **PERFORMANCE BOND:** The apparent successful Vendor shall provide a performance bond in the amount of 100% of the contract. The performance bond must be received by the Purchasing Division prior to Contract award.

☐ **LABOR/MATERIAL PAYMENT BOND:** The apparent successful Vendor shall provide a labor/material payment bond in the amount of 100% of the Contract value. The labor/material payment bond must be delivered to the Purchasing Division prior to Contract award.

In lieu of the Bid Bond, Performance Bond, and Labor/Material Payment Bond, the Vendor may provide certified checks, cashier's checks, or irrevocable letters of credit. Any certified check, cashier's check, or irrevocable letter of credit provided in lieu of a bond must be of the same amount and delivered on the same schedule as the bond it replaces. A letter of credit submitted in lieu of a performance and labor/material payment bond will only be allowed for projects under $100,000. Personal or business checks are not acceptable. Notwithstanding the foregoing, West Virginia Code § 5-22-1 (d) mandates that a vendor provide a performance and labor/material payment bond for construction projects. Accordingly, substitutions for the performance and labor/material payment bonds for construction projects is not permitted.

☐ **MAINTENANCE BOND:** The apparent successful Vendor shall provide a two (2) year maintenance bond covering the roofing system. The maintenance bond must be issued and delivered to the Purchasing Division prior to Contract award.

☐ **LICENSE(S) / CERTIFICATIONS / PERMITS:** In addition to anything required under the Section of the General Terms and Conditions entitled Licensing, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits upon request and in a form acceptable to the State. The request may be prior to or after contract award at the State's sole discretion.

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The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications regardless of whether or not that requirement is listed above.

8. INSURANCE: The apparent successful Vendor shall furnish proof of the insurance identified by a checkmark below and must include the State as an additional insured on each policy prior to Contract award. The insurance coverages identified below must be maintained throughout the life of this contract. Thirty (30) days prior to the expiration of the insurance policies, Vendor shall provide the Agency with proof that the insurance mandated herein has been continued. Vendor must also provide Agency with immediate notice of any changes in its insurance policies, including but not limited to, policy cancelation, policy reduction, or change in insurers. The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether that insurance requirement is listed in this section.

Vendor must maintain:

☑ **Commercial General Liability Insurance** in at least an amount of: $1,000,000.00 per occurrence.

☑ **Automobile Liability Insurance** in at least an amount of: $1,000,000.00 per occurrence.

☑ **Professional/Malpractice/Errors and Omission Insurance** in at least an amount of: $1,000,000.00 per occurrence. Notwithstanding the forgoing, Vendor's are not required to list the State as an additional insured for this type of policy.

☐ **Commercial Crime and Third Party Fidelity Insurance** in an amount of: _____ per occurrence.

☐ **Cyber Liability Insurance** in an amount of: _____ per occurrence.

☐ **Builders Risk Insurance** in an amount equal to 100% of the amount of the Contract.

☐ **Pollution Insurance** in an amount of: _____ per occurrence.

☐ **Aircraft Liability** in an amount of: _____ per occurrence.

☑ WV Statutory requirement- WV Code §23-4-2 (Mandolidis)

☑ ***Please make Insurance Certificate Holder to Read***
West Virginia Army National Guard
1707 Coonskin Drive, Charleston, WV 25311

☐

☐

Notwithstanding anything contained in this section to the contrary, the Director of the Purchasing Division reserves the right to waive the requirement that the State be named as an additional insured on one or more of the Vendor's insurance policies if the Director finds that doing so is in the State's best interest.

9. WORKERS' COMPENSATION INSURANCE: Vendor shall comply with laws relating to workers compensation, shall maintain workers' compensation insurance when required, and shall furnish proof of workers' compensation insurance upon request.

10. [Reserved]

11. LIQUIDATED DAMAGES: This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy. Vendor shall pay liquidated damages in the amount specified below or as described in the specifications:

☐ _____ for _____.

☐ Liquidated Damages Contained in the Specifications.

☑ Liquidated Damages Are Not Included in this Contract.

12. ACCEPTANCE: Vendor's signature on its bid, or on the certification and signature page, constitutes an offer to the State that cannot be unilaterally withdrawn, signifies that the product or service proposed by vendor meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise indicated, and signifies acceptance of the terms and conditions contained in the Solicitation unless otherwise indicated.

13. PRICING: The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification. Notwithstanding the foregoing, Vendor must extend any publicly advertised sale price to the State and invoice at the lower of the contract price or the publicly advertised sale price.

14. PAYMENT IN ARREARS: Payments for goods/services will be made in arrears only upon receipt of a proper invoice, detailing the goods/services provided or receipt of the goods/services, whichever is later. Notwithstanding the foregoing, payments for software maintenance, licenses, or subscriptions may be paid annually in advance.

15. PAYMENT METHODS: Vendor must accept payment by electronic funds transfer and P-Card. (The State of West Virginia's Purchasing Card program, administered under contract by a banking institution, processes payment for goods and services through state designated credit cards.)

16. TAXES: The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.

17. ADDITIONAL FEES: Vendor is not permitted to charge additional fees or assess additional charges that were not either expressly provided for in the solicitation published by the State of West Virginia, included in the Contract, or included in the unit price or lump sum bid amount that Vendor is required by the solicitation to provide. Including such fees or charges as notes to the solicitation may result in rejection of vendor's bid. Requesting such fees or charges be paid after the contract has been awarded may result in cancellation of the contract.

18. FUNDING: This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available. If that occurs, the State may notify the Vendor that an alternative source of funding has been obtained and thereby avoid the automatic termination. Non-appropriation or non-funding shall not be considered an event of default.

19. CANCELLATION: The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may also cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-5.2.b.

20. TIME: Time is of the essence regarding all matters of time and performance in this Contract.

21. APPLICABLE LAW: This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code, or West Virginia Code of State Rules is void and of no effect.

22. COMPLIANCE WITH LAWS: Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendor acknowledges that it has reviewed, understands, and will comply with all applicable laws, regulations, and ordinances.

> **SUBCONTRACTOR COMPLIANCE:** Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to comply with all applicable laws, regulations, and ordinances. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

23. ARBITRATION: Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.

24. MODIFICATIONS: This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any change to existing contracts that adds work or changes contract cost, and were not included in the original contract, must be approved by the Purchasing Division and the Attorney General's Office (as to form) prior to the implementation of the change or commencement of work affected by the change.

25. WAIVER: The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.

26. SUBSEQUENT FORMS: The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.

27. ASSIGNMENT: Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments.

28. WARRANTY: The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.

29. STATE EMPLOYEES: State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.

30. PRIVACY, SECURITY, AND CONFIDENTIALITY: The Vendor agrees that it will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the Agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the Agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/default.html.

31. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

32. LICENSING: In accordance with West Virginia Code of State Rules § 148-1-6.1.e, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.

SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to be licensed, in good standing, and up-to-date on all state and local obligations as described in this section. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

33. ANTITRUST: In submitting a bid to, signing a contract with, or accepting a Award Document from any agency of the State of West Virginia, the Vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to Vendor.

34. VENDOR CERTIFICATIONS: By signing its bid or entering into this Contract, Vendor certifies (1) that its bid or offer was made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, person or entity submitting a bid or offer for the same material, supplies, equipment or services; (2) that its bid or offer is in all respects fair and without collusion or fraud; (3) that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; and (4) that it has reviewed this Solicitation in its entirety; understands the requirements, terms and conditions, and other information contained herein.

Vendor's signature on its bid or offer also affirms that neither it nor its representatives have any interest, nor shall acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency. The individual signing this bid or offer on behalf of Vendor certifies that he or she is authorized by the Vendor to execute this bid or offer or any documents related thereto on Vendor's behalf; that he or she is authorized to bind the Vendor in a contractual relationship; and that, to the best of his or her knowledge, the Vendor has properly registered with any State agency that may require registration.

35. VENDOR RELATIONSHIP: The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of all necessary documents, forms, and returns pertinent to all of the foregoing.

Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

36. INDEMNIFICATION: The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

37. PURCHASING AFFIDAVIT: In accordance with West Virginia Code §§ 5A-3-10a and 5-22-1(i), the State is prohibited from awarding a contract to any bidder that owes a debt to the State or a political subdivision of the State, Vendors are required to sign, notarize, and submit the Purchasing Affidavit to the Purchasing Division affirming under oath that it is not in default on any monetary obligation owed to the state or a political subdivision of the state.

38. CONFLICT OF INTEREST: Vendor, its officers or members or employees, shall not presently have or acquire an interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.

39. REPORTS: Vendor shall provide the Agency and/or the Purchasing Division with the following reports identified by a checked box below:

☑ Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.

☐ Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at purchasing.division@wv.gov.

40. BACKGROUND CHECK: In accordance with W. Va. Code § 15-2D-3, the State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check. Service providers should contact the West Virginia Division of Protective Services by phone at (304) 558-9911 for more information.

41. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS: Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:

a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.

b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open heath, basic oxygen, electric furnace, Bessemer or other steel making process.

c. The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:

1. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars ($2,500.00), whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or

2. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

42. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL: In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars ($50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a "substantial labor surplus area", as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products. This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

43. INTERESTED PARTY SUPPLEMENTAL DISCLOSURE: W. Va. Code § 6D-1-2 requires that for contracts with an actual or estimated value of at least $1 million, the vendor must submit to the Agency a supplemental disclosure of interested parties reflecting any new or differing interested parties to the contract, which were not included in the original pre-award interested party disclosure, within 30 days following the completion or termination of the contract. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. This requirement does not apply to publicly traded companies listed on a national or international stock exchange. A more detailed definition of interested parties can be obtained from the form referenced above.

44. PROHIBITION AGAINST USED OR REFURBISHED: Unless expressly permitted in the solicitation published by the State, Vendor must provide new, unused commodities, and is prohibited from supplying used or refurbished commodities, in fulfilling its responsibilities under this Contract.

45. VOID CONTRACT CLAUSES – This Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law.

ADDITIONAL TERMS AND CONDITIONS
(Architectural and Engineering Contracts Only)

1. PLAN AND DRAWING DISTRIBUTION: All plans and drawings must be completed and available for distribution at least five business days prior to a scheduled pre-bid meeting for the construction or other work related to the plans and drawings.

2. PROJECT ADDENDA REQUIREMENTS: The Architect/Engineer and/or Agency shall be required to abide by the following schedule in issuing construction project addenda. The Architect/Engineer shall prepare any addendum materials for which it is responsible, and a list of all vendors that have obtained drawings and specifications for the project. The Architect/Engineer shall then send a copy of the addendum materials and the list of vendors to the State Agency for which the contract is issued to allow the Agency to make any necessary modifications. The addendum and list shall then be forwarded to the Purchasing Division buyer by the Agency. The Purchasing Division buyer shall send the addendum to all interested vendors and, if necessary, extend the bid opening date. Any addendum should be received by the Purchasing Division at least fourteen (14) days prior to the bid opening date.

3. PRE-BID MEETING RESPONSIBILITIES: The Architect/Engineer shall be available to attend any pre-bid meeting for the construction or other work resulting from the plans, drawings, or specifications prepared by the Architect/Engineer.

4. AIA DOCUMENTS: All construction contracts that will be completed in conjunction with architectural services procured under Chapter 5G of the West Virginia Code will be governed by the attached AIA documents, as amended by the Supplementary Conditions for the State of West Virginia, in addition to the terms and conditions contained herein. The terms and conditions of this document shall prevail over anything contained in the AIA Documents or the Supplementary Conditions.

5. GREEN BUILDINGS MINIMUM ENERGY STANDARDS: In accordance with West Virginia Code § 22-29-4, all new building construction projects of public agencies that have not entered the schematic design phase prior to July 1, 2012, or any building construction project receiving state grant funds and appropriations, including public schools, that have not entered the schematic design phase prior to July1, 2012, shall be designed and constructed complying with the ICC International Energy Conservation Code, adopted by the State Fire Commission, and the ANSI/ASHRAE/IESNA Standard 90.1-2007: Provided, That if any construction project has a commitment of federal funds to pay for a portion of such project, this provision shall only apply to the extent such standards are consistent with the federal standards.

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Charles F. Straley Digitally signed by Charles F Straley DN E c straley@gaiconsultants com, CN Charles F Straley Date 2021 08 09 11 22 18 04'00'

(Name, Title)

Charles Straley, PE, PLS, MS - Senior Engineering Manager

(Printed Name and Title)

500 Lee Street East, Suite 700, Charleston, West Virginia 25301

(Address)

304.541.0854 / 304.926.8081

(Phone Number) / (Fax Number)

c.straley@gaiconsultants.com

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law.

GAI Consultants, Inc.

(Company)

Charles F. Straley Digitally signed by Charles F Straley DN E c straley@gaiconsultants com, CN Charles F Straley Date 2021 08 09 11 22 28 04'00'

(Authorized Signature) (Representative Name, Title)

Charles Straley, PE, PLS, MS - Senior Engineering Manager

(Printed Name and Title of Authorized Representative)

August 9, 2021

(Date)

304.541.0854 / 304.926.8081

(Phone Number) (Fax Number)

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (*W. Va. Code* §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: GAI Consultants, Inc.

Authorized Signature: Charles Straley Date: 8/9/21

State of WV

County of Cabell, to-wit:

Taken, subscribed, and sworn to before me this 9th day of August, 2021

My Commission expires 5/24/24, 20___.

AFFIX SEAL HERE

CYNTHIA D HINKLE
Notary Public Official Seal
State of West Virginia
My Comm. Expires May 24, 2024
1010 R. Kilgore St. Culloden WV 25510

NOTARY PUBLIC Thea D Shuler

500 Lee Street East, Suite 700
Charleston, West Virginia 25301
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