ORIGINAL

EXPRESSION OF INTEREST

A/E Services for Camp Dawson Road Paving Design

Kingwood West Virginia

ADJ1900000009

August 29, 2018

POTESTA
Engineers and Environmental Consultants

STAHL SHEAFFER ENGINEERING

POTESTA Project Number: 0102-18-0309

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APPENDICES

EXPRESSION OF INTEREST
FOR ARCHITECTURAL/ENGINEERING SERVICES

Camp Dawson Road Paving Design
Kingwood, West Virginia

1.0 QUALIFICATIONS AND CAPABILITIES

Potesta & Associates, Inc. (POTESTA) will be teaming with Stahl Sheaffer Engineering, LLC (Stahl Sheaffer) for this project. As a subconsultant, Stahl Sheaffer will provide support for pavement design. In the past, POTESTA and Stahl Sheaffer have completed multiple field explorations and geotechnical reports for bridge and roadway improvements throughout West Virginia.

1.1 POTESTA

Founded in 1997, POTESTA is an engineering and environmental consulting firm that provides professional services to deliver innovative, cost-effective solutions to complex problems. Our firm has a diversified practice covering engineering (civil, mechanical, environmental, geotechnical, and mining), site design, surveying, construction monitoring, permitting, site characterization and remediation, and general environmental consulting. Civil/site design and geotechnical engineering are areas of extensive expertise at POTESTA. We have worked on numerous large projects (from university campuses and industrial parks to Abandoned Mine Lands (AML) and Stream Restoration) throughout the region. Our 14 registered professional engineers, led by Mr. Dana Burns, P.E., Vice President, have over 250 years of experience among them and are supported by a large group of engineers, designers, scientists and surveyors. Environmental engineering, regulatory liaison and environmental compliance are also areas of exceptional strength for POTESTA. Mr. Ronald R. Potesta, President, served as Director of the West Virginia Department of Natural Resources during a period when the agency had over 700 full-time employees and supervised several offices, including Regulatory Affairs.

Charleston, West Virginia


Winchester, Virginia

Morgantown, West Virginia

POTESTA has completed numerous projects related to the scope of services requested. We have extensive experience in roadway engineering and design. We have performed geotechnical explorations and provided recommendations for landslides, retaining walls and slope stability projects both large and small all across the state. POTESTA's environmental department has completed hundreds of projects that deal with hazardous and non-hazardous debris removal. We have obtained numerous Rights-of-Entry for West Virginia Division of Highway drilling projects and surveying. Also, our engineering staff has extensive experience in utility design and relocation. Related projects are described in more detail in Section 4.

Our clients include manufacturers, utility companies, waste management companies, mining and chemical companies, architects, attorneys, financial institutions, insurance companies, colleges/universities, land developers, construction companies, and local, state, and federal government agencies. We provide services to clients in all adjacent states and throughout the mid-Atlantic region.

We carry a full line of insurance coverage, including general liability, errors and omissions, and workers' compensation. We also have and follow a stringent internal quality control system designed to provide our clients with quality products. We believe the quality of our work is best exemplified by approximately 85 percent of our workload coming from repeat clients. We have won seven Gold Awards in the American Council of Engineering Companies – West Virginia Chapter's engineering excellence awards competition.

John Spencer, Safety Director

In 2016, POTESTA was the recipient of the Safety Achievement Award from the Contractor's Association of West Virginia.

The following list provides a summary of many of the services provided by POTESTA.

- 404 Permit Preparation and Negotiation
- Acid Mine Drainage Control
- Asbestos Inspection
- Biological Studies
- CADD Services (AutoCAD Release 13, Various Software Design Packages, Digitizing and Plotting)
- Chemical Engineering
- **Civil Engineering**
- Clean Air Act Compliance
- Construction Monitoring
- Corporate Environmental Management
- Design of Slurry Impoundments and Refuse Disposal Sites
- Dewatering Plans
- Environmental Engineering
- Environmental Impact Studies
- Environmental Site Assessments
- Environmental Audits
- **Erosion and Sedimentation Control Plans**
- Expert Witness and Litigation Support
- Feasibility Studies
- **Foundation Design**
- Geological Services
- **Geotechnical Engineering**
- Ground and Surface Water Sampling
- Groundwater Investigation and Remediation
- Groundwater Protection Plans
- Hazardous Waste Management
- Hydrologic and Hydraulic Evaluations
- In-Situ and Ex-Situ Biostimulation/Bioaugmentation
- Landfill Design
- Landfill Closure Plans
- Landscape Architecture
- Mining Engineering

- Mixing Zone Analysis
- Multimedia Sampling (Air, Fly Ash, Rock, Soil, Water)
- Permitting (Air, FERC, Fly Ash Haulback, Mining, NPDES, Quarry and Solid and Hazardous Waste)
- Permitting and Compliance
- Pollution Prevention and Waste Minimization Planning
- Pre-Blast and Pre-Subsidence Surveys
- **Preparation of Construction Documents (Calculations Brief, Construction Drawings, Contractor's Bid Sheet, Engineer's Cost Estimate, QA/QC Manual and Technical Specifications)**
- Reclamation Design and Planning
- Reclamation Liability Assessments
- Regulatory Liaison Services
- Retaining Wall Design
- Risk-Based Environmental Assessment
- SARA Title III, TIER II and Form R Inventory and Reporting
- Sewer Line Design
- Site Characterization and Remediation Planning
- **Site Design/Planning**
- Slope Stability Analysis
- Spill Prevention Control and Countermeasures Plans
- Stabilization and Closure of Waste Impoundments
- Storm Water Management and Permitting
- Stream Benthic Macroinvertebrate Surveys
- Toxicity Evaluations
- Subsidence Studies
- **Subsurface Explorations**
- Surface and Groundwater Monitoring, Statistical Analysis and Reporting
- **Surveying (Traditional and Global Positioning System)**
- UST Closure and Site Remediation
- UST Installation Monitoring
- Waste Facility Permitting and Design
- Waste Disposal Design
- Water Line Design
- Water/Wastewater Treatment Design
- Wetland Investigation and Delineation, Mitigation Design and Monitoring

Services in bold are outlined in more detail in attached service briefs located in ***Appendix A***.

Work for this project will be completed at POTESTA's Charleston and Morgantown, West Virginia offices.

POTESTA has a staff of approximately 81 engineers, designers, surveyors, scientists, and support personnel. The key personnel section of this technical proposal describes our project team.

Breakdown by Category (Total 81)

10	Admin./Accounting	1	Economist	1	Information Technologist
1	Aqua Culturalist	5	Environmental Scientists	1	Mechanical Engineers
2	Aquatic Ecologists	2	Fish & Wildlife Specialists	2	Mining Engineers
7	Biologists	1	Geologists	7	Surveyors
7	CADD Operators/Draftsmen	4	Geotechnical Engineers	10	Technicians
1	Chemist	1	GIS Specialist	1	Toxicologist
16	Civil Engineers	1	Horticulturalist		

POTESTA in conjunction with Stahl Sheaffer, can provide all of the services required for this project in-house using existing staff.

Roadway engineering and design to develop construction and right-of-way plans requires a wide range of expertise and a complete and thorough knowledge of the West Virginia Division of Highways' (WVDOH) standards, specifications and approval process. Potesta & Associates, Inc. (POTESTA) offers extensive expertise in civil, environmental and geotechnical engineering; hydrology; and hydraulic design. POTESTA has provided numerous roadway designs for WVDOH projects, access roadways for industrial parks, educational institutions, commercial businesses and

residential developments, as well as new roadways, relocation and modifications of existing roadways to widen or incorporate turning lanes and other improvements. POTESTA's geotechnical engineers have provided subsurface explorations and recommendations required for highway design for in-house projects, as subconsultant to other engineering firms and directly to the WVDOH.

POTESTA takes pride in our ability to provide our clients with innovative and concise engineering design packages that will allow for the clients to put more of their money into actual construction rather than into design fees. Although POTESTA employs approximately 81 people, our corporate structure with relatively low overhead allows our rates to be competitive with those of smaller firms.

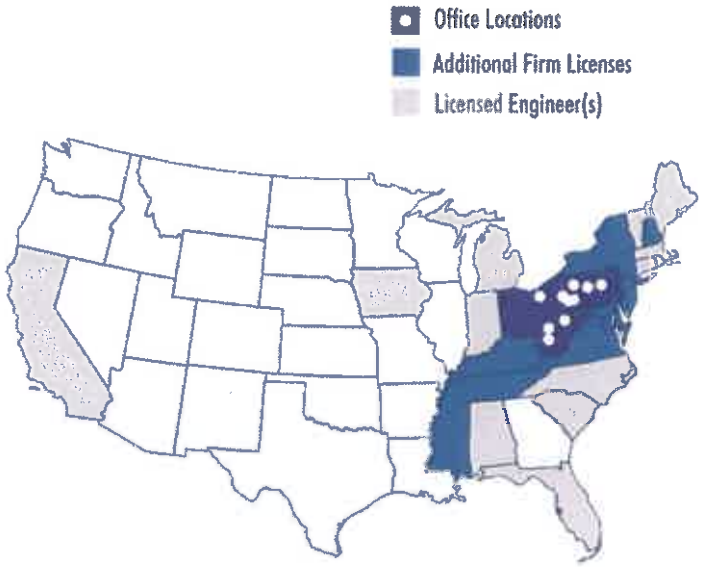
On the other hand, our large, experienced staff allows us to respond quickly, provides flexibility, and will provide for the opportunity of high level input from in-house experts on complex multi-disciplinary projects.

1.2 Stahl Sheaffer

Stahl Sheaffer will be used as a subconsultant to assist with the road paving design aspects of this project. Stahl Sheaffer is a multi-discipline civil/structural engineering firm that has been providing structural and site engineering services since 2006. Stahl Sheaffer specializes in transportation engineering, geotechnical testing and design, building design and rehabilitation, surveying, land development, construction inspection, and asset management.

Services provided by Stahl Sheaffer include:

- Building design & forensics
- Feasibility studies
- Facade & roof rehabilitation
- Survey & 360 scanning
- Land development & permitting
- Road & parking lot engineering
- Pedestrian and traffic services
- Construction inspection
- Geotechnical engineering & subgrade investigations
- Environmental consulting



2.0 TECHNICAL EXPERTISE

POTESTA has 16 engineers, 14 of which are registered professional engineers (P.E.). POTESTA's engineers include civil, geotechnical, mining, and mechanical engineers with a broad range of experience. POTESTA's engineers are experienced in stormwater management, channel restoration, bank stabilization, site development, grading, roadway design, pavement design, utility design, permitting, geotechnical engineering, mine subsidence and related activities.

Also included in POTESTA's engineering group are the survey, computer aided drafting design (CADD) and construction monitoring departments. The survey department includes three survey crews and the department manager. POTESTA has three licensed professional surveyors (PS). POTESTA's CADD department includes seven CADD operators/draftsmen proficient in various design software packages. POTESTA routinely provides construction monitoring services for engineering projects.

Certification	Number of Employees	Breakdown by Employee
WV Certified Monitoring Well Driller	1	Dave Corsaro
Engineering Interns (EIT)	2	Tim Rice Jeremi Stawovy
GIS Specialist	1	Chip Haden
WV Licensed Remediation Specialists (LRS)	5	Mindy Armstead Dave Corsaro Chris Grose Mark Kiser Dennis Litwinowicz
NICET Level 1 Technician	1	Robert Lamm
Opacity Observers	2	Leah Creathers Michael Fluharty
Licensed Asbestos Inspectors	3	Michael Fluharty (WV) Andrew Kirsch (WV, KY, VA) Coy Spencer (WV, VA)
Professional Engineers (PE)	14	Robert Ammirato (WV) Dana Burns (WV, IL) Chad Griffith (WV) Mark Kiser (WV, SC) Joe Knechtel (VA, WV) Sam Ludlow (WV) Terry Moran (WV, VA) Everett Mulkeen (WV) Angela Pugh (WV) Mark Sankoff (WV) Dave Sharp (WV, OH, PA, KY, MD) Jarrett Smith (WV) Pat Taylor (WV) Patrick Ward (WV)
Professional Surveyors (PS)	3	Dana Burns (WV) Victor Dawson (WV, NC, SC) Mark Sankoff (WV)
Surveyor-in-Training (SIT)	2	Ryan Bennett Brad Starkey
WV Transportation Engineering Technicians	2	Robert Lamm Jordan Beard

POTESTA's staff is committed to delivering innovative, cost-effective solutions to meet our clients' complex requirements. The firm's environmental department consists of an aquatic ecologist, biologists, fisheries professionals, horticulturalists, geologists, chemists, environmental scientists, and toxicologists, many with advanced degrees (Masters and Ph.D. level). POTESTA's environmental group has completed numerous projects including environmental site assessments; stream/wetland monitoring, stream/wetland design plans, UST/LUST removal; toxicology; geographical information system (GIS); waste characterization and management, and soil remediation. The experienced environmental staff includes five Licensed Remediation Specialists (LRS) and Rosgen trained scientists.

POTESTA's key personnel are identified below:

Mr. Dana L. Burns, P.E., Vice President of POTESTA has over 38 years of experience in a wide variety of civil, geotechnical and environmental projects. He has managed hundreds of projects requiring the preparation of construction drawings and technical specifications and participation in pre-bid and pre-construction conferences. He has worked on numerous environmental compliance and design projects for the chemical, manufacturing and mining industries, as well as site development. **Mr. Burns will serve as the Principal-in-Charge for the project.**

Mr. David B. Sharp, P.E., will serve as project manager for this project. Mr. Sharp is the Branch Manager of POTESTA's Morgantown office. He has over 22 years of experience with engineering and environmental consulting projects in West Virginia. He obtained his Bachelors and Masters Degrees from West Virginia University and has spent a large part of his career involved with geotechnical engineering, civil site design, construction observation/management, and municipal projects. **Mr. Sharp will be POTESTA's point of contact for this project.**

Mr. Tim Rice is a senior engineer at POTESTA with over 33 years of diversified experience with civil, environmental, surveying, and geotechnical engineering projects with an emphasis in project management and coordination of environmental permitting and compliance, hydraulic and hydrological analysis, slope stability analysis, geotechnical design, Phase I Environmental Site Assessments, stormwater management, municipal water and sewer design, civil site design, water resources analysis/design, and construction monitoring/observation.

Mr. Jeremi Stawovy, staff engineer at POTESTA, will serve as a design/permitting engineer for this project. Mr. Stawovy has over 5 years of civil and environmental engineering experience ranging from geotechnical and civil engineering, to environmental permitting and construction field monitoring. Mr. Stawovy has a Bachelors and Masters Degree in Civil/Environmental Engineering from West Virginia University. For this project, he will provide civil site design, permitting, construction monitoring, or laboratory testing services as needed.

Our staff is available for this project immediately.

An organizational chart and resumes are attached in ***Appendices B and C***, respectively. Resumes of qualified Stahl Sheaffer staff is also included in ***Appendix C***.

3.0 MANAGEMENT AND STAFFING

POTESTA's normal method of staffing projects is to assign a small team of design professionals with total responsibility for completion of the work to the client's satisfaction and budget. Where necessary, the team can draw on the expertise available within POTESTA's large staff. POTESTA will also utilize Stahl Sheaffer as a subconsultant for road pavement design aspects.

Mr. Ronald Potesta, President, will serve as Principal for the project and address issues that may arise during the project. Mr. Potesta has served as the Director and Deputy Director of West Virginia's Department of Natural Resources which, during his tenure, had an annual budget of $23 million and 700 full-time employees. The agency at that time encompassed state environmental regulatory programs, wildlife management and law enforcement.

Mr. Dana Burns, P.E., will serve as POTESTA's Principal-in-Charge on this project. He will maintain regular contact to ensure that your expectations are being achieved, on-time and within the project budget. Included will be regular telephone conferences and meetings as required. Mr. Burns will make assignments to appropriate staff and will review work products at intermediate points to ensure that project requirements are achieved.

Mr. David B. Sharp, P.E., Branch Manager of our Morgantown office, will be our Project Manager. Mr. Sharp will be the day-to-day contact, will develop the conceptual design, manage the final design and perform quality assurance/quality control and constructability review of the project. He has managed hundreds of related projects and will bring his knowledge and expertise to bear on this project.

4.0 RELATED PRIOR EXPERIENCE

POTESTA is uniquely well qualified to provide all of the services as described in the scope of services of the request for expression of interest. POTESTA's previous experience and professional staff will allow us to prepare the site plans and drawings in a complete and efficient manner.

Following is a brief description of related projects completed by POTESTA.

WV 279 North Bridgeport Bypass – Geotechnical and environmental services for approximately 1.25-miles of the North Bridgeport Bypass, West Virginia Route 279, in Harrison County. This work included documentation of environmental conditions along three alternative routes to assess potential impacts prior to design. POTESTA also completed geotechnical evaluation of the planned cut slopes, as well as foundation design for a proposed single span bridge. POTESTA prepared the roadway design plans for the WVDOH.

Bradshaw Elementary and Riverview High Schools – Construction of these new schools required that 0.44 mile of West Virginia Route 80 be relocated. POTESTA prepared construction and right-of-way plans for the relocation which included relocation of a cemetery, relocation of a stream and extensive excavation with the excess material being used to raise the school site out of the floodplain.

Marshall University Graduate College – Marshall University retained POTESTA to conduct a feasibility study for an entrance route and a new access roadway to the college. As a result, POTESTA prepared construction drawings to WVDOH standards for additional lanes, necessary islands and signage at the college's entry. This plan was approved by the University, City of South Charleston and the WVDOH.

Interstate 64, Cabell County, West Virginia – West Virginia Paving, Inc. retained POTESTA to be part of a design/build team for a widening project on Interstate 64. POTESTA prepared topographic mapping of the roadway from aerial mapping services, as well as ground topographic mapping around the bridge to be replaced. The project included geotechnical services including exploration of subsurface borings for laboratory testing and providing the design team with geotechnical recommendations. Other services included a Construction Stormwater NPDES permit and construction monitoring of both the bridge construction and widening of the roadway from four to six lanes.

Baker Business Park Industrial Access Road – Hardy County Rural Development Authority retained POTESTA to provide engineering services for the study, design, and preparation of construction contract plans, related documents, and construction oversight services for the planned industrial access road for the Baker Business Park District, as well as deceleration lanes on Corridor H. POTESTA completed surveying/mapping, right-of-way plans, roadway design and preparation of contract plans, roadway surveying, and construction observation.

*POTESTA Project Abstracts of the above representative projects are included in ***Appendix D***. Descriptions of relevant past projects completed by Stahl Sheaffer are also included in ***Appendix D*** of this EOI.

5.0 REFERENCES

POTESTA's professional references are as follows:

Town of Granville, West Virginia
Ms. Patricia Lewis, Mayor
1245 Main Street
Granville, WV 26534
(304) 599-5080

Hardy County Rural Development Authority
Ms. Mallie Combs
P.O. Box 209
Moorefield, WV 26836
(304) 530-3047

Roger Hardesty & Associates, AC
Mr. Evan Hardesty
420 Morgantown Street
Kingwood, WV 26537
(304) 329-1351

Stahl Sheaffer's professional references are as follows:

Redevelopment Authority of the County of Washington (RACW)
Nathan Voytek, Community Development, 724-228-6875
Mr. Robert Phillips, Assistant Community Development Director, 724-228-6875
Mr. Kerry Fox, Community Development Specialist, 724-228-6875
100 West Beau Street, Washington, PA 15301
Project(s) Included: Local Roadway Design

PennDOT Engineering District 2-0
Thomas J. Zurat, P.E., 814-762-5037

Belmont County Ohio
Fred Bennett, P.E., P.S., Belmont County Engineer, 740-699-2160
101 W. Main Street
St. Clairsville, OH 43950

SEDA-COG Joint Rail Authority
Jeff Stover, Executive Director, 570-524-4491
201 Furnace Road, Lewisburg, PA 17837
Project(s) Included: South Avis Realty Industrial Access Road

PennDOT Engineering District 3-0
Wayne Frey, P.E., 570-368-4229

Centre Region Planning Agency
Trish Meek, Senior Transportation Planner, 814-231-3050

Pennsylvania Turnpike Commission, P.O. Box 67676, Harrisburg, PA 17106-7676
Donald S. Klingensmith, P.E., 717-939-9551, ext. 5590.
Project(s) Included: Project Management/Construction Inspection

Union County Industrial Development Corporation
Donald Alexander, 570-524-3852
Union County Government Center
155 N. 15th Street, Lewisburg, PA 17837
Project(s) Included: SR 15 and Russell Road Turn Lane, Roadway Construction Inspection

6.0 CLOSING

POTESTA is excited about the opportunity to assist Camp Dawson on various projects. Our staff as well as our subconsultant's staff are multi-disciplinary in nature and will be able to complete various assignments in a timely and cost-efficient manner. Relevant staff certifications are located in ***Appendix E***.

Please see ***Appendix F*** for all required signature documents including the executed Request for Solicitation, Certification and Signature Page, Addendum Acknowledgement Form, Disclosure of Interested Parties to Contracts, and Purchasing Affidavit Form.

We look forward to meeting with you to better acquaint you with our qualifications and experience and to discuss a proposed schedule and scope of services to complete this project.

In making your decision, please consider the following reasons of why we believe you should select POTESTA for this project.

- Similar prior experience.
- Ability to take project from planning through construction.
- Minimize design costs in order to maximize dollars available to spend on construction.
- Responsive.
- Low overhead/competitive rates.
- We LISTEN to what you want.
- We want to work for you!

We look forward to meeting with you to better acquaint you with our qualifications and experience and to discuss your project in more detail.

Respectfully submitted,

POTESTA & ASSOCIATES, INC.

David B. Sharp

David B. Sharp, P.E.
Branch Manager

Enclosures

POTESTA & ASSOCIATES, INC.

Civil Engineering and Design

Potesta & Associates, Inc. (POTESTA) helps clients evaluate and plan projects by completing the following types of preliminary evaluations and analyses.

- Phase I Environmental Site Assessments
- Floodplain Determination
- Geotechnical Explorations Including Soil, Bedrock, and Groundwater Characterization
- Foundation Recommendations
- Monitoring Well Systems and Site Characterization Plans
- Boundary, Topographical and Photogrammetric Surveys
- Utility Planning
- Earthwork Evaluations Including Volume Analysis
- Opinion of Probable Costs/Engineer's Construction Cost Estimates

Once the project has been determined feasible, POTESTA's design professionals complete preliminary and final designs. Frequent communication is made with the client and any other design professionals to review completed activities and obtain input for the design process. Our goal is to provide our services to achieve or exceed our clients' expectations.

Our design services include:

- Erosion and Sediment Control Plans
- Earth Retaining Structures Design
- Geometric Site Layout
- Grading and Drainage Plans, Including Excavation and Fill Optimization
- Access Road Design
- Hydraulic Structure Design
- Water and Sewer Design
- Slope Stability Analysis
- Subsurface Drainage System Design
- Construction Drawings, Specifications and Contract Document Preparation

POTESTA offers experienced environmental engineers and scientists to prepare applications for various environmental permits that may be required. These services include:

- Stormwater Management Permit/Erosion and Sediment Control Plans
- Office of Air Quality Permit to Construct
- Wetland Delineation and Permits
- National Pollutant Discharge Elimination System (NPDES) Permits
- Floodplain Management Permits
- Groundwater Protection Plans
- Spill Prevention, Control and Countermeasure Plans
- Environmental Site Assessments
- Environmental Impact Statements

POTESTA routinely provides professional services throughout construction of our projects. These services include survey layout, construction management, construction monitoring, record drawing preparation, and bid evaluation assistance.

POTESTA

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Regional Offices: Morgantown, WV and Winchester, VA

POTESTA & ASSOCIATES, INC.

Site Design

Potesta & Associates, Inc. has a significant body of work in site design for residential, commercial and industrial clients. Projects range from power plant siting to subdivision design. We have assisted numerous developers and development agencies with the creation of business industrial parks throughout West Virginia, and have been part of design teams for elementary, secondary and collegiate projects primarily associated with new building construction.

Our staff of civil, environmental, and geotechnical engineers; surveyors and environmental scientists can provide the following site planning and design services.

- Surveying – Topo and Boundary
- Base Mapping from Aerial Photography
- Geotechnical Engineering
- Land Planning
- Environmental Issues Evaluation and Mitigation
- Site Grading
- Vehicular and Pedestrian Circulation
- Utility Design
- Site Features
- Stormwater Management Plans

Some clients who have used our site design services include:

- West Virginia Development Office
- Development Authorities: Tucker, Wood, Roane and Hardy Counties
- Bright Enterprises
- Charleston Area Alliance
- University of Charleston
- Timberwolf Development Corporation
- West Virginia Department of Environmental Protection
- West Virginia Division of Natural Resources
- Marshall University
- Architects: Associated Architects; Bastian & Harris, Architects; SEM Partners; ZMM

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POTESTA & ASSOCIATES, INC.

Surveying and Mapping

Our surveyors are experienced in many aspects of surveying such as topographic mapping, boundary surveys (rural/farms, city lots, and subdivisions), ALTA surveys, control surveys, flood certificate surveys, well location surveys, construction surveys for layout of work, record drawings, and quantity measurements. Related areas include courthouse research, preparation of right-of-way plans, and verification of property owners. Potesta & Associates, Inc. (POTESTA) has licensed professional surveyors registered in West Virginia, North Carolina, South Carolina, Ohio, Virginia, and Pennsylvania. Their total combined surveying experience comes to well over 50 years.

POTESTA's surveyors use state-of-the-art equipment such as Topcon total stations, Trimble R-8 GNSS, and SMI data collectors with SMI software. Autodesk Civil 3D reduction and design software is used.

POTESTA is equipped with modern surveying instruments, allowing efficient data processing and accurate gathering of field information. Total station instruments equipped with data collectors are utilized for complete field-to-office automation allowing for high levels of productivity in the field. The latest versions of software are then used to process survey data and create drawings or required end products. These products can be supplied to our clients in AutoCAD and/or Microstation format.

Small topographic mapping projects can be completed in-house using the aforementioned process. Larger projects are better suited for mapping using aerial photography.

POTESTA can provide the necessary surveying required for establishing ground control for aerial mapping. As a quality control measure, aerial mapping is field checked for accuracy by surveying cross sections or random points.

Surveys completed by POTESTA are performed by or under the direction of a professional licensed surveyor. Surveys and mapping are completed to the standards outlined by the National Map Standards, as well as other applicable quality standards.

Our staff is experienced in global positioning surveys (GPS). GPS equipment, Trimble R-8 GNSS, and existing base stations are among POTESTA's surveying tools. Based upon the site location and ultimate use of the survey information, a recommendation is made to the client as to whether or not traditional survey or GPS is most applicable to their project.

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POTESTA & ASSOCIATES, INC.

Geotechnical Engineering

Potesta & Associates, Inc.'s (POTESTA) engineers and geologists have extensive experience related to the geotechnical engineering and geological disciplines. These areas include subsurface explorations, monitoring well and piezometer installations, foundation design recommendations, slope stability analysis, retaining walls, and remedial designs as they relate to construction, mining, waste disposal, environmental remediation, and other projects.

SUBSURFACE EXPLORATIONS

POTESTA's diverse staff of engineers and geologists is experienced in the many different facets of subsurface explorations. Our usual procedure is to attend an initial meeting with the client to establish requirements and expectations, conduct a preliminary site reconnaissance, and develop a recommended exploration program for your review and approval. Supplemental information from the local area is then obtained from readily available sources to assist the engineer or geologist in making final recommendations.

POTESTA can provide field engineers and geologists who are knowledgeable using the latest technologies to assist in collecting and analyzing samples. Our knowledge of the proper procedures and familiarity with local conditions allows office and field personnel to adjust the exploration plan if unanticipated field conditions are found.

Our staff is familiar with the following items which can be associated with subsurface exploration:

- Drilling and Rock Coring Techniques (augers, rotary bits, Geoprobe™, etc.)
- Sample Collection Methods (split spoons, shelby tubes, Geoprobe™ sleeves, etc.)
- Classification and Logging of Soil and Rock Samples
- Monitoring Well and Piezometer Installation

SLOPE STABILITY ANALYSIS AND REMEDIAL DESIGN

Slope stability is often a major concern during the design and construction phases of many projects, especially those located in the Appalachian terrain. POTESTA's engineers are familiar with the various methods utilized to predict slope stability and are capable of performing the related analyses. Slope stability is critical for many projects such as analysis of existing or proposed soil embankments, rock fills, dam analysis and design, landfill design and operation, assessing the causation of slope failure, and designing remedial measures. Analyses can involve circular or sliding block methods, interface friction angles, and estimation of the strength parameters of the soil or rock. Slope stability analyses are performed on one of the most technologically advanced computer programs available and can be modified using site specific data.

POTESTA's engineers can also develop preventive measures during initial project design or recommendations to repair slope failures. Based upon the project circumstances, our engineers will consider various remedial measures such as regrading the site to obtain more suitable conditions, management of groundwater, and design of retaining structures. Our staff is familiar with a wide variety

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of retaining structures, including gabion baskets, soldier beam and lagging walls, sheet piles, reinforced concrete and reinforced earth slopes.

FOUNDATION DESIGN RECOMMENDATIONS

POTESTA's staff has experience with various types of foundations and will recommend the appropriate type of foundation given the anticipated application and site conditions. The different types of foundations with which our staff is familiar are spread and strip footings, steel piles, auger-cast concrete piles, drilled piers, and reinforced mats.

Preliminary foundation design recommendations and cost analyses are commonly performed during the initial phases of a project to assist in determining project feasibility. As project planning progresses, the preliminary alternatives will be revised into a final recommendation which can then be incorporated into the project's construction documents or developed as an independent package for presentation to the contractor.

The final recommendation can include construction drawings, technical specifications, recommendations for allowable bearing capacity, engineer's construction cost estimate, and contractor's bid sheet.

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West Virginia Army National Guard

Principal-in-Charge Engineering
Dana L. Burns, PS, PE – 37 Yrs.

Constructability Review/Design/ Quality Control
David Sharp, PE – 23 Yrs.

Pavement Design
Stahl Sheaffer Engineering, LLC
Jing Wang Ph.D., P.E.
Dominic S. Passanita, P.E.
Timothy H. Kinder, PLS, CFM

Engineering/Design
Timothy Rice – 33 Yrs.

Compensatory Mitigation/Stream Restoration
Karri Rogers – 14 Yrs.
Charles Haden – 6 Yrs.
Lee Yost – 5 Yrs.
Tim Ferguson – 11 Yrs.
Andrew Kirsch – 20 Yrs.
Jason Gandee – 8 Yrs.

Soils, Hydrological and Geotechnical Evaluations
Chris Grose – 24 Yrs.
Peter Potesta – 6 Yrs.
Jeremi Stawovy – 5 Yrs.

Surveying
Victor Dawson, PS – 34 Yrs.
Brad Starkey, SI – 25 Yrs.
Charles Shaffer – 15 Yrs.
Joe Crowder, PS – 27 Yrs.
Rusty Hunter – 34 Yrs.
Richard Smith – 4 Yrs.
Howard Samples – 18 Yrs.
Ryan Bennett, SI – 3 Yrs.
Greg Hodges – 21 Yrs.

Civil Engineering/ Hydraulics
Jarrett Smith, PE - 12 Yrs.
Everett Mulkeen, PE – 4 Yrs.
Terence Moran, PE – 27 Yrs.
Chad Griffith, PE – 12 Yrs.
Jason Gandee – 12 Yrs.
Patrick Ward, PE – 24 Yrs.
Patrick Taylor, PE – 23 Yrs.

CAD Designers
Scott Bolyard – 25 Yrs.
Michael Sankoff – 25 Yrs.
Brian Leedy – 14 Yrs.
Chuck Bird - 21 Yrs.
Russ Lester – 24 Yrs.
Joe Martin – 20 Yrs.

Environmental Assessment
David Corsaro, LRS – 19 Yrs.
Christina Parsons – 18 Yrs.
Leah Creathers – 10 Yrs.
Lee Moreland – 6 Yrs.
Coy Spencer – 7 Yrs.
Jeremiah Dow – 7 Yrs.
Mandee Wilson – 6 Yrs.

POTESTA Project No. 0102-18-0309

DANA L. BURNS, P.E., P.S.

Vice President

EDUCATION

M.S. Civil Engineering, 1979
West Virginia University

B.S. Civil Engineering, 1978
West Virginia University

EMPLOYMENT HISTORY

1997-Present	Potesta & Associates, Inc.
1994-1997	Terradon
1979-1994	GAI Consultants, Inc.
1978-1979	West Virginia University
1976-1977	West Virginia Department of Highways (summers)

PROFESSIONAL REGISTRATIONS

- Professional Engineer – West Virginia, Illinois
- Professional Surveyor – West Virginia

PROFESSIONAL CERTIFICATIONS

40-Hour Health and Safety Training

SERVICE ON BOARDS AND COMMISSIONS

- Environmental/Technical Committee member – West Virginia Coal Association
- Environmental Committee member – Kentucky Coal Association
- Past Board of Directors member and current Waste Team Chairman on the Environmental Safety and Health Committee – West Virginia Manufacturers Association
- Environmental and Safety Committee member – Independent Oil and Gas Association of West Virginia
- Environmental Committee member – West Virginia Oil and Natural Gas Association
- Past President – West Virginia Society of Professional Engineers, Professional Engineers in Private Practice
- Past President and past Board of Directors member – American Council of Engineering Companies West Virginia Chapter
- Past Chairman of Transportation Committee – American Council of Engineering Companies West Virginia Chapter
- Past Board of Directors member – Society of American Military Engineers Huntington Post
- Member Committee D-18 on Soil and Rock – American Society for Testing and Materials (ASTM)

PROFESSIONAL AFFLIATIONS

- American Society of Civil Engineers
- National Society of Professional Engineers
- WV Society of Professional Surveyors

AREAS OF SPECIALIZATION

Management of design and permitting of civil, environmental, geotechnical, and mining engineering projects. Siting, design, and permitting of industrial and municipal waste disposal sites; reclamation of abandoned mine lands; and development of stormwater management plans and groundwater sampling programs. Environmental/reclamation liability assessments. Development of site plans for commercial and industrial facilities including hydrologic and hydraulic analyses. Expert witness testimony. Directs engineering division including day-to-day operation of headquarters and three branch offices concerning staffing, coordination, training, business development; and overall management of technical and support staff.

PROFESSIONAL EXPERIENCE

Civil/Site Design

Utility extension, site grading plans, stormwater management, roadway design, and permitting for site development:

- Residential subdivisions
- Commercial developments

University of Charleston – Principal-in-Charge for the following projects:

- Development of topographic mapping of campus
- Evaluation of storm sewer system
- Civil site services – UC Pharmacy School, New Hall, Middle Hall, and Brotherton Hall
- Design of new campus entrance roadway

Marshall University – Principal-in-Charge for the following projects:

- 400 bed housing project
- Biotechnology Center
- Fifth Avenue parking and 6th Avenue parking facility
- Jomie Jazz Center
- Childcare Center
- Mid-Ohio Valley Center
- Campus landscape master use plan
- Campus improvements project
- MU Graduate College South Charleston campus
- Student Center and Henderson Center
- Bookstore addition
- University Heights

Glenville State University – Principal-in-Charge for the following projects:

- Student Residence Hall
- Athletic Convocation Center and Forestry/Survey Class Center

West Virginia University – Principal-in-Charge for a sidewalk repair project located near Allen Hall on the Evansdale Campus in Morgantown, West Virginia.

The Villages at Coolfont – Principal-in-Charge to provide environmental and engineering consulting services for the redevelopment of the Coolfont Recreation property in Morgan County, West Virginia to create a second home community with high-end amenities:

- Phase I Environmental Site Assessment
- American Land Title Association (ALTA) boundary and property survey of 997 acres
- Completed an assessment of the facility's sanitary sewer wastewater treatment plant to facilitate acquisition of the property.
- Participated in week long planning charette with client, land planners, and other design consultants to assess characteristics of property, identify opportunities and constraints, obtain input from local residents and businesses, and develop design guidelines.
- Land use plan including 1,300 homes, a village center, spa, expansion of an existing lake, a proposed second lake, walking/hiking/biking trails, and the necessary infrastructure.
- Civil engineering design for potable water and wastewater treatment facilities.
- Selected source well locations, drilled 3 source test wells, and completed field testing and permitting.
- Designed 300 gallon per minute potable water treatment plant.
- Designed 2- 316,000-gallon water storage tanks and 75,000 LF of distribution system.
- Completed the design and permitting for a 448,000-gallon per day membrane bioreactor wastewater treatment plant, including the design of a 70,000 LF collection system.
- Assisted with permitting required for the development of the new lake and upgrades/expansion of the existing lake (included were Section 404 individual permit and Section 401 water quality certification).
- Prepared roadway and stormwater management plans, including typical pavement sections, road profiles, geometric layout plan, culvert and drop inlet sizing, drainage conveyance pipe and channel profiles, and miscellaneous stormwater management details.

City of Charleston – Inspection and preparation of rehabilitation design for Parking Garage No. 1.

Tucker County Industrial Park – Principal-in-Charge for the design which included water and sewer lines, stormwater management design, roadway design, pavement design, site grading plan, master plan, and geotechnical exploration/foundation recommendations.

Principal-in-Charge for site grading plans, stormwater management system, site surveying, roadway/parking lot design, wetland delineation/mitigation, and construction monitoring for the 400,000-square foot Coldwater Creek distribution center in Parkersburg, West Virginia.

Principal-in-Charge for the civil/site design for the new Sissonville Middle School in Kanawha County, West Virginia. Project included site grading plan with more than 230,000 cubic yards of earthwork to obtain 20 acres of level ground for a 74,000-square foot school, football field, soccer field, baseball field, access roadways, and parking areas. Project included utility designs for water service and sanitary and sewer. Stormwater collection systems and erosion and sediment control plan/permit completed.

Principal-in-Charge for civil/site design for new Riverview High School and Bradshaw Elementary School in McDowell County, West Virginia. Project included 2,500 linear feet of relocated WV Route 80, relocation of 1,200 feet of Oozley Branch, and site work (grading, stormwater drainage, geotechnical recommendations, sanitary sewer, water, and electrical services) to serve the two schools. Project design included site survey, geotechnical exploration, foundation recommendations, design of excavation slopes, layout of schools, parking areas and athletic fields, utility design, roadway relocations plans, and stream relocations plans. Responsible for the design and preparation of contract bid documents (specifications and drawings) for civil/site work. POTESTA served as a subconsultant to ZMM on this project.

Principal-in-Charge for civil/site design and permitting associated with the construction of three synthetic fuel pellet plants in McDowell County, Nicholas County, and Kanawha County, West Virginia. Project included developing synthetic fuel manufacturing facilities on inactive surface mining sites. Services included subsurface exploration, foundation recommendations, grading plans, stormwater management plans, preparation of permit applications, and construction monitoring for site grading and foundation construction. The McDowell County site included a water source study to identify and select water sources for the manufacturing process. The three plants had a construction cost of $25 million. Project was a design/build arrangement with POTESTA working directly for the owner.

Carmeuse Lime & Stone – Principal-in-Charge of engineering and environmental services for the expansion of current quarry operations at Winchester quarry in Winchester, Virginia. The expansion includes the addition of two new vertical lime kilns and associated equipment, increasing their current aggregate crushing operation, and expanding their rail system to allow for increased shipping of product.

- Design included grading, stormwater management, and an access road crossing for a rail loop encircling the lime kilns and aggregate crushing areas with rail spurs for loading and unloading of product to connect to two mainline rail carriers.
- The total project track length consists of approximately 29,000 linear feet of rail.
- The design of the rail expansion includes trackside ditches, culverts, stormwater management systems, gas line relocations and crossings, rail crossings, and internal plant roadways, as well as grading for the expanded aggregate plant and lime kilns.
- Additional designs included civil/site services for a new office building and design of the sanitary water treatment system for this building.
- Acquired the necessary approvals to construct this project, such as approvals from local planning and zoning, inspections, health departments, and state governments such as Virginia Department of Transportation, Department of Environmental Quality (DEQ) and Department of Mining and Mineral Extraction (DMME).
- Conducted wetland delineations, developed reports, and completed applications to the Norfolk District (Northern Virginia field office) of the United States Army Corps of Engineers (USACE).

Development of specifications for a sand mound treatment system in the U.S. Air Training Center near Pittsburgh, Pennsylvania.

Water Lines, Water Storage Tanks, and Water Treatment Plants

New extensions and replacement of existing lines:

- Cassity Fork Water Supply Extension Project – Randolph County, WV (Project Manager)
- Godby Branch Water Supply Extension Project – Logan County, WV (Project Manager)
- Beaver Creek Water Supply Extension – Upshur County, WV (Project Manager)

- Buff Creek/Trace Fork – Putnam County, WV (Principal-in-Charge)
- Route 60 – Putnam County, WV (Principal-in-Charge)
- Boone County PSD numerous extensions – Boone County, WV (Principal-in-Charge)

West Virginia American Water Company – Principal-in-Charge for construction administration/monitoring for Poca River Water Line Extension Project, Cabell County Water Line Extension Project, Contract No. 7, Spite Road Water Line Extension Project, and Fisher Ridge Water Line Extension Project. Work included construction monitoring, preparation of weekly reports, review of contractor submittals, review of contractor invoices, and preparation of records drawings for 100,000+ linear feet of water line extensions.

City of Philippi – Principal-in-Charge for municipal water system upgrade project. Work included design of two replacement booster stations, two new water storage tanks, new pumps for an existing booster station, a 1,500-foot water line extension, and telemetry systems. Drawings, specifications, and a cost estimate were prepared.

West Virginia American Water Company – Principal-in-Charge for Residuals Handling Facility project at the 32 MGD Kanawha Valley Water Treatment Plant, including coordination design consultant. Design included sludge pumping station, 950,000-gallon reinforced concrete gravity thickener, two belt filter presses, chemical feed systems, plate settler, and associated control and piping. Work included preparing design concept, surveying, subsurface exploration, preparation of drawings, specifications, cost estimate and permit applications, conductance of pre-bid public relations meeting, evaluation of bids, construction observation, review of contractor submittals, review of change order requests, and review of contractor invoices.

West Virginia American Water Company – Principal-in-Charge for evaluation of Town of Pineville water treatment plant and water distribution system, including observation of system during site visit, records review, discussions with regulatory officials, and issuance of findings in a report.

Tucker County Development Authority – Principal-in-Charge for design of approximately 10,000 feet of water line and sewer line to serve an industrial park, including a lift station. Drawings, specifications, and a cost estimate were prepared. Also performed construction administration services.

West Virginia Bureau for Public Health – Principal-in-Charge for services associated with Source Water Assessment Protection Plans (SWAPP) for 38 public water systems throughout West Virginia. Services provided included windshield surveys to identify and locate (via GPS) potential contaminant sources (PCS's), review of regulatory databases, entering data into Access database, and preparation of summary reports.

City of Philippi – Principal-in-Charge for relocation of water lines due to proposed roadway. Relocation included approximately 4,000 feet of 1-inch to 12-inch diameter pipe, fire hydrants, meters, and valves. Prepared construction drawings, specifications, and quantities.

West Virginia American Water Company – Principal-in-Charge for hydraulic analysis for water supply extensions (total of 23 miles) in Cabell County, West Virginia, including line sizing and design of booster station and PRVs.

Management of design, permitting, and construction monitoring of more than 40 miles of new waterline serving rural communities in southern West Virginia.

West Virginia Department of Abandoned Mine Lands – Detailed design and preparation of construction drawings, specifications, contractor's bid sheet, and engineer's cost estimate for six-mile water line extension including fire protection. Project included 90,000-gallon water tank, booster station, and pressure relief valves. Extension tied into Norton Harding Jimtown PSD System and served town of Cassity in Randolph County.

West Virginia Department of Abandoned Mine Lands – Detailed design and preparation of construction drawings, specifications, contractor's bid sheet, and engineer's cost estimate for a half-mile water line extension to serve Beaver Creek near Junior in Randolph County.

West Virginia Department of Abandoned Mine Lands– Management of four Phase II water studies and five Phase I water studies to determine if water supplies had been affected by coal mining. Work included resident interviews, mine map searches, area reconnaissance, obtaining water samples, reviewing water analysis data, preparing conceptual designs and associated costs and preparation of summary report.

Sewer Lines and WWTPs

Washington County Industrial Development Agency – Design of a holding tank and ventilation system vault near Houston, Pennsylvania.

West Virginia American Water Company – Principal-in-Charge for evaluation of wastewater collections systems and treatment plants for two municipalities (Oak Hill and White Sulphur Springs) in West Virginia. Included were site visits to observe system, discussions with system operators and regulatory officials, records review, compilation of DMR data and issuance of findings in reports.

Geotechnical

Subsurface exploration, evaluation, and design of remedial measure for landslides:

- Soldier beam and lagging retaining walls
- Gabion walls
- Grade/drain/compact in-place
- Geo-grid reinforcement with grade/drain/compact in-place

Plasma Processing Corporation – Management of subsurface exploration and preparation of soils report near Ravenswood, West Virginia.

West Virginia University – Principal-in-Charge for the following projects:

- WVU Intermodal Parking Garage on the Medical Center Campus – geotechnical and civil engineering
- WVU Engineering Building – geotechnical evaluation

Principal-in-Charge for Williamson Landslide Project involving an abandoned mine land site. Geotechnical exploration and design of 480-foot long soldier beam and lagging retaining wall with tiebacks to support loose mine spoil backfill along the edge of a previously mined area with steep terrain. Project was required to protect an existing 125-bed nursing home facility.

Landfills/Solid Waste/Waste Disposal

Design and permitting of new landfills and development of cell closure plans:

Municipal Landfills –

- West Virginia Solid Waste Management Board/Monongalia County Sanitary Landfill – Morgantown, WV
- North Folk Landfill – Wheeling, West Virginia
- Disposal Service, Inc. Landfill – Hurricane, WV
- Sycamore Landfill, Inc. – Hurricane, WV
- City of Charleston Landfill – Charleston, WV
- Mingo County Landfill – Mingo County, WV
- Omar Landfill – Omar, WV
- Pocahontas County Landfill – Marlinton, WV
- HAM Sanitary Landfill – Peterstown, WV
- Kanawha- Western Landfill – Cross Lanes, WV
- S&S Landfill – West Milford, WV
- Brooke County Landfill – Brooke County, WV
- Wetzel County Landfill – Wetzel County, WV
- WVDEP's Landfill Closure Assistance Program
  - Montgomery Sanitary Landfill – Montgomery, WV
  - Wyoming County Sanitary Landfill – Pineville, WV
  - Jackson County Sanitary Landfill – Ripley, WV
  - City of Moundsville Landfill – Charleston, WV

Industrial Solid Waste (Fly Ash, Bottom Ash, Scrubber Sludge) –

- Mobay Hazardous Waste Landfill – Natrium, WV
- American Cyanamid (4 projects) – Willow Island, WV
- Client confidential – Parkersburg, WV
- Monsanto Company (multiple projects) – Nitro, WV
- Harrison Power Station – Haywood, WV
- Fort Martin Power Station – Morgantown, WV
- Mount Storm Power Station – Mount Storm, WV
- Keystone Power Station – Elderton, PA
- New Castle Power Station – New Castle, PA
- Conemaugh Power Station – New Florence, PA
- Alcoa Corporation – Newsburg, IN
- Portsmouth Power Station – Portsmouth, VA
- F.B. Culley Power Station – Newburgh, IN
- Hatfield Power Station – Masontown, PA
- Armstrong Power Station – Armstrong County, PA
- Cheswick Power Station – Springdale, PA

Design, permitting, economic analyses, and preparation of construction bid documents for coal ash/refuse sites including HDPE and PVC liner systems:

- Virginia Electric and Power Company
  - Portsmouth Power Station ash pond to dry fill conversion project
  - Mount Storm Interim Ash Site
- Pennsylvania Electric Company

  - Keystone Coal Ash/Coal Refuse Site
- Allegheny Power Station
  - Hatfield Ash Site

WVDEP Office of Waste Management – Development construction drawings, technical specifications, contractor's bid sheet and engineer's cost estimate for closure of Montgomery Sanitary Landfill. Work included leachate collection system, cap and double walled leachate tank.

WVDEP Office of Waste Management – Development of construction drawings, technical specifications, contractor's bid sheet, and engineer's cost estimate for final closure of the Wyoming County Landfill. Work included site assessment, double walled leachate tank, pump station, and connection of leachate line to Center Public Service District sanitary sewer.

WVDEP Office of Waste Management – Development of interim closure plans including leachate collection system, adequacy of groundwater monitoring wells and soil cover for the Jackson County Landfill and the City of Moundsville Landfill.

WV Solid Waste Management Board's Monongalia County Sanitary Landfill – Management of three liner expansions, borrow area determination, minor permit modifications, 1.6 MG double-lined leachate pond design, construction monitoring, and investigation of future alternatives.

Disposal Services, Inc. – Evaluation of landfill expansion and leachate minimization. Preparation of permit application for Phase I Cell 3 and Phase II including drawings, specifications, and CQA manual. Preparation of construction drawings for Phase I Cell 3 Stage I and management of construction monitoring. Preparation of erosion and sedimentation control plan, soldier beam and lagging retaining wall, gabion basket retaining wall, and assistance on FERC permit to relocate gas line in Hurricane, West Virginia.

S&S Landfill – Preparation of Landfill Expansion Revisions, permit revisions, and permit negotiation. Detailed review of hydrogeology and groundwater flow regime. Management of QA/QC for landfill expansion including clay/synthetic liner system, double walled leachate tank, sedimentation pond, drainage channels, and associated facilities in Harrison County, West Virginia.

Pocahontas County Solid Waste Authority – Management of miscellaneous services including preliminary closure plan, evaluation of leachate treatment alternatives, repair of tear in synthetic liner, preparation of annual reports, and surveying for Pocahontas County Landfill in Marlinton, West Virginia.

Kanawha County Solid Waste Authority – Investigation of potential landfill fire at Kanawha Western Landfill. Detailed geologic and hydrologic studies, monitoring well installation, and preparation of associated sections of landfill permits.

- North Fork Landfill – Wheeling, WV
- Sycamore Landfill – Hurricane, WV

Rhone-Poulenc Ag Company – Management of non-hazardous industrial landfill design project involving design report, technical specifications, construction drawings, QA/QC manual, operation manual, permit application, and environmental assessment. Included meetings with EPA Region 3 and WV Division of Natural Resources. Also, three site selection studies. Complete geologic and hydrogeologic investigations including installation of monitoring wells.

Tennessee Valley Authority – Economic analyses of wet versus dry disposal processes, including conveyor belts, trucks, and sluicing by pipe for fly ash and bottom ash.

Pennsylvania Electric Company – Evaluation of natural and synthetic liner systems for coal ash/coal refuse sites. Preparation of permit applications for the New Castle ash site and Mitchell scrubber sludge disposal site:

- Pennsylvania Power Company
- Allegheny Power System

Coordinator of the compilation of data for a RCRA Part B permit application for a hazardous waste transfer facility in Parkersburg, West Virginia including SPCC plan.

Sludge sampling programs at the Institute, West Virginia plant of Union Carbide Corporation and the Tri-State Terminal of Ashland Petroleum Company.

Siting studies, including environmental impacts and economic analyses, for industrial waste and coal ash/refuse sites:

- Peabody Coal Company – slurry impoundment

- Rhone Poulenc Ag Company – 3 sites for industrial landfill
- Virginia Electric and Power Company – Mt. Storm Power Station
- Southern Indiana Gas and Electric Company – 4 sites at F.B. Culley Station
- Aloca Generating Corporation – 7 sites at Warrick Station

American Cyanamid Company – Management of QA/QC monitoring program for the first RCRA industrial waste impoundment in EPA Region 3. Composite liner system consisted of 3-foot soil-bentonite liner and two 60-mil HDPE synthetic liners separated by HDPE drainage net. Provided on-site testing laboratory. Daily and weekly project reports were provided. Prepared summary report and necessary "certifications" for submittal to WV Division of Natural Resources and EPA in Willow Island, West Virginia.

American Cyanamid Company – Management of QA/QC monitoring program for a stormwater retention basin consisting of 3' soil bentonite liner with concrete overlay. Daily, weekly, and project summary reports were prepared in Willow Island, West Virginia.

American Cyanamid Company – Preparation of plans, specifications, and permit application for the closure of an industrial waste disposal site. The capping system included geogrid to assist in supporting the overlying HDPE liner and soil cap in Willow Island, West Virginia.
Electric Power Research Institute – Preparation of the Coal Ash Disposal Manual and various manuals for the High Volume/Low Technology Fly Ash Utilization Program.
Electric Power Research Institute – Development of a computer program that provides a detailed cost estimate for a coal ash disposal area.

Rhone Poulenc Ag Company – Evaluation of settling characteristics for an emergency fly ash disposal pond and design of associated modifications at a plant in Institute, West Virginia.

American Cyanamid Company – Management of QA/QC monitoring for a closure of a 3-acre hazardous waste disposal area with sludge stabilization and an HDPE cap. Provided an on-site testing laboratory, daily and weekly project reports, a summary report, and agency required certifications in Willow Island, West Virginia.

American Cyanamid Company – Management of QA/QC monitoring for the stabilization and capping of 10-acre hazardous waste equalization basin in Willow Island, West Virginia.

Rhone Poulenc Ag Company – Sampling/sounding of two basins containing sludge from secondary biological treatment of industrial wastewater and subsequent determination of sludge quantities.

Development of alternative truck transportation cost schemes:

- Industrial and Hazardous Waste Management Study – Allegheny County, PA
- Holcomb, KA Power Station – Sunflower Electric Cooperative
- Portsmouth Station remote ash structural fill – Virginia Electric and Power Company

Roadway Design

Principal-in-Charge for design of new entrance roadway to the University of Charleston and the utility extension, surveying, and general civil engineering for a 440-bed dormitory. Project was a design/build.

West Virginia Divisions of Highways – Inspection of bridge and highway construction.

Managed numerous industrial access roads. Roadways were designed for the private sector. Design was coordinated with and approved by the West Virginia Division of Highways and roadways were accepted into the state transportation system.

- ZMM Architects – Relocation of State Route 80 for construction of new elementary and high schools at Bradshaw in McDowell County, WV
- Jackson County Development Authority and Double C Enterprises – Industrial park access road and County Route upgrade in Kenna, WV
- Roane County Economic Development Authority – National Industrial Lumber access road in Amma, WV
- Tucker County Development Authority – Tucker County Industrial Park access road in Davis, WV
- Wood County Development Authority – Luigino's access road in Parkersburg, WV
- University of Charleston – Design of new entrance road to University of Charleston and redesign of

MacCorkle Avenue (State Route 61) intersection/turn lanes in Charleston, WV
- N-Visions Architects – Entrance road, bus loop, and emergency exit roadway for new Sissonville Middle School in Sissonville, WV
- Entrance road and bus loop for Trap Hill Middle School in Raleigh County, WV

WV Division of Highways – Managed environmental permitting, surveying, and design of four-lane 1.25-mile North Bridgeport Connector Road from Interstate 79 Jerry Dove Interchange to Benedum Airport in Bridgeport, West Virginia.

WV Division of Highways under open-end agreements for:

- Landslides and slope stability projects
- Surveying
- Asbestos services

WV Division of Highways – Managed geotechnical, environmental, right-of-way, and survey work performed as a subconsultant for various projects:

- King Coal Highway (section near Pineville, WV)
- Sharon Heights Connector
- Eldora and Enterprise Connector
- Dundon Bridge
- Martha Truss Bridge
- Martha Concrete Girder Bridge
- Upgrade of three bridges on Interstate 81
- Corridor H (section near Kerns, WV)
- Corridor D (section near Washington, WV)

Oil and Gas

Columbia Gas Transmission Corporation – Management of consulting services for environmental report preparation and FERC permit applications for various natural gas pipeline projects.

Principal-in-Charge of well pad design, access road layout, landslide remediation design, evaluation of water supply sources and distribution systems, design of water treatment systems, impoundment design, stormwater management plans, permitting, AST inspections, surveying, and SPCC Plans for various major gas clients in the Marcellus and Utica formations.

- Stone Energy
- EQT
- Chesapeake
- Gastar
- NiSource

Storage Tanks

Principal-in-Charge of the registration, preparation of spill prevention response plans, and inspection of aboveground storages tanks (ASTs) for over 500 ASTs for numerous clients, including:

- NiSource
- Rubberlite
- CI Thornburg
- Tetra Technologies
- CAMC
- Interstate Hardwood
- Central Supply

Closure of aboveground storage tanks, including preparation of documentation for regulatory agency and sample acquisition and analyses:

- Rhone-Poulenc Ag Company – Institute, WV
- American Cyanamid Company – Willow Island, WV

Investigation of contamination from underground storage tanks and hydrocarbon spills. Included preparation of necessary regulatory forms, sample acquisition and analyses, and meeting with regulatory agency.

- West Virginia Division of Natural Resources – various projects under Master Agreement
- Goldman Associates
- Vandalia Mining Company
- Marshall University

Mining

Peabody Coal Company – Evaluation of potential stream flow attributed to long-wall deep mining subsidence in minimal overburden areas in southern West Virginia. Responsibilities included the review of mine maps, stream reconnaissance studies, and the establishment of three in-stream V-notch weirs. The weirs were monitored and maintained during a seasonal study period to generate direct flow measurements. The WVDEP also prepared a study for the site that was reviewed, and comments prepared for the results.

Principal-in-Charge on numerous Independent Third-Party Audits at sites for various coal producers. Independent Third-Party Reviews of mines/complexes were undertaken with a thorough review to assess compliance of the operation to various federal statues and equivalent to state laws. Specific areas of review included are generally determined by the needs of the client or the requirements of governmental agencies and have included an assessment of the client's compliance with the following:

- Clean Air Act
- Clean Water Act
- Resource Conservation and Recovery Act
- Safe Drinking Water Act
- Toxic Substance Control Act
- Comprehensive Environmental Response, Compensation and Liability Act
- Emergency Planning and Community Right to Know Act
- Federal Insectide, Fungicide and Rodenticide Act
- Oil Pollution Act
- Mine Safety and Health Administration
- Surface Mining and Reclamation Act
- National Pollution Discharge Elimination System
- Others as required

Development of reclamation plans for over 70 projects including landslides, mine fires, acid mine drainage, mine subsidence, refuse piles, water supply systems, and asbestos abatement. Projects were completed for West Virginia Division of Energy, West Virginia Division of Environmental Protection, Virginia Abandoned Mine Lands, and Ohio Department of Natural Resources and include the following:

- Duncan Hill Subsidence
- Beckley Subsidence
- Jonben (Haga) Subsidence
- Holden (Padgett) Subsidence
- Gray and Iaquinta Subsidence
- St. John's Road Subsidence
- Route 19/28 Subsidence
- Mt. Hope Subsidence
- Huffman Street Subsidence
- Morgantown Airport Drainage/Subsidence
- Fairmont East Subsidence
- Fairmont IV Subsidence
- Cheyenne Sales Company Reclamation
- Little Whitestick Refuse
- Crany Mine Dump
- Morgan Mine Fire
- MacArthur Phase 2 Subsidence
- Lake Lynn Complex
- MacArthur Mine Subsidence
- East Lynn II
- Flipping Hollow Complex
- Sundial (Hatfield) Refuse Piles
- Mill Creek Refuse Pile
- John's Branch Coal Refuse Dam
- Jessop Highway #10
- Lando (Edwards) Drainage
- Taylorville (Cantrell) Drainage
- Borderland (Matney) Portals
- Peach Ridge Complex
- Measle Fork Refuse
- Georges Creek Portals
- Putney Impoundment
- Kopperston (John's Branch) Refuse Emergency
- Marmet (Wells Drive) Landslide Emergency
- Marmet (Clark) Drainage
- Pringle Run #2
- Mountain Run Refuse and Portals
- Fairmont East Mine Drainage
- May Portal (Virginia Abandoned Mine Lands)
- Williamson (Hatfield) Landslide
- Georges Creek (Lucas) Rockslide
- Rachel Refuse
- Grass Run Refuse
- Allen Sheridan Hazardous Facility (asbestos)
- Elk City- Century- Volga Phase I/II Water Study
- Camp Mohonegan Regrade
- Comfort Run Coal Company (asbestos)
- Allen AMD
- Cora Mine Drainage No. II
- Covey Creek Mine Fire
- Vivian Refuse Pile
- Summerlee Refuse Pile (won 1996 southern reclamation award)
- Kimball Refuse Pile (won 1995 southern reclamation award)
- Hampden (Smith) Landslide
- Bear Run Refuse (won 1994 Ducks Unlimited award)
- Charleston (Ratcliffe) Landslide
- Garrison Complex
- Mulberry Fork (Stover) Landslide
- Courtright Highwall
- Belle Landslide
- Minden Drilling
- Kitchen/Gibson Landslide
- High Coal Tipple

- Omar Refuse Pile (won reclamation of the year award)
- Logan Drainage
- Switzer Adams/Robinson Drainage
- Follansbee Drainage
- Hawkins AMD
- Vargo Drainage
- Duck Creek Landslide
- Kistler Mine Fire
- Turner Douglas Complex
- Buffalo Creek No. 5 Refuse
- Dawmont Mine Facility
- Helen (Lewis) Refuse
- Upshur 10/15 Drainage
- Webster County Water Studies
- Iaeger Water Feasibility Study
- Burnwell, Standard, and Collinsdale Water Line Extension
- Clay-Roane PSD Water Feasibility Study
- Burnsville PSD Water Feasibility Study
- Brandonville/Pisgah Water Feasibility Study
- Cuzzart/4-H Water Feasibility Study
- Hudson/Mt. Nebo Water Feasibility Study
- Phase I Water Studies Brooke and Fayette Counties
  - Gauley River PSD – Belva
  - Hammond PSD – Wellsburg
  - New Haven Chamber of Commerce – Hico
- Mill Creek Regional Water Project Phase II Water Study (Boone, Lincoln, and Logan Counties)
- Godby Branch Phase II Water Study
- Madison Street Portals/Fairview Route 218 Portals
- Putnam County Phase I Water Studies
  - Heizer Creek
  - Manila Creek
- Boone County Phase I Water Studies
  - Jeffrey Area – Jeffery, Hewett Creek, Seacoal
  - Ottawa Area – Ottawa, Greenview, Missouri Fork, Meadow Fork, Aleshire Branch, Dent Fork, Mike's Fork
- Phase II Water Feasibility Studies
  - Logan County – Cow Creek, Crooked Creek, Upper Rum Creek
- Phase I Water Studies for Logan County
  - Pecks Mill – Godby Heights Communities
  - Cow Creek – Sarah Ann – Crystal Blocks Communities
  - Upper Rum Creek Community
  - Clothier Community
  - Crooked Creek Community
  - Godby Branch
  - Whitman Creek – Holden Project
- Beaver Creek Waterline Extension: Phase II Water Project
- Cassity Fork Water Supply Extension: Phase II Water Project

Subsurface explorations, subsidence monitoring, review of a coal reserve analysis, site plans, preblast/presubsidence surveys, hydrologic analyses, preparation of mining permits, and design and permitting of coal slurry impoundments for coal mining companies in West Virginia, Virginia, Kentucky, Ohio, and Maryland.

- Peabody Coal Company
- Eastern Associated Coal Company
- Southern Ohio Coal Company
- Island Creek Corporation
- Massey Coal Services
- Appalachian Mining, Inc.
- Oneida Coal Company
- Old Ben Coal Company
- Mettiki Coal Company
- Shafer Brothers Coal Co.
- LP Minerals

Management of fly ash utilization permits for various coal companies:

- Rawl Sales, Inc.
- Elk Run Coal Company
- Appalachian Mining, Inc.
- Peerless Eagle Coal Company

Managed subsurface investigation, foundation design, and development of mine stabilization program for NASA's Independent Verification and Validation Center in Fairmont, West Virginia.

Monongahela Power Company – Development of fly ash flowable fill specification for submittal to WV Division of Highways in Fairmont, West Virginia.

Computer modeling of groundwater movement of contaminants resulting from underground coal gasification.

NPDES Industrial/Municipal Permitting

Completed National Pollutant Discharge Elimination System (NPDES) renewal permitting and associated agency negotiations for several facilities.

Plasma Processing Corporation – Management of numerous projects in Ravenswood, West Virginia including:

- Subsurface exploration and preparation of soils report
- NPDES Permit
- Development of sampling program for Plasma to follow in obtaining samples for NPDES Stormwater Analyses
- Development of hazardous waste operations manual
- Acquisition of WV Air Pollution Commission permits
- Environmental audit of facility operations

Hydrology and Hydraulics

City of Charleston – Hydrologic and hydraulic analyses of South Ruffner Watershed. Project analyzed various storm events and presented conceptual recommendations to reduce effects of these storms.

U.S. Army Corps of Engineers, Jacksonville District – Determination of watershed areas along the Suwannee River Basin.

Groundwater

Dilley's Mill – Principal-in-Charge for review of regional groundwater information for a summer Boy Scout camp facility to locate and construct a replacement drinking water well for the facility. Responsibilities included the development and review of existing facility usage, determination of the location and depth of the proposed water well and design of the well to meet with the requirements of the State of West Virginia Department of Health standards. Design of sewage collection system and synthetic lined sewage treatment lagoon including permitting.

Groundwater sampling programs:

- Herr's Island – Urban Redevelopment Authority of Pittsburgh
- Robertshaw Controls in New Stanton, PA
- New Castle Power Station
- Pennsylvania Power Company
- Portsmouth Power Station
- Virginia Electric and Power Company
- Rhone Poulenc Ag Company – Institute, WV

Management of pump tests:

- Peabody Coal Company – Bim, WV
- Southern Ohio Coal Company – Meigs County, OH
- Rhone-Poulenc Ag Company – Institute, WV

Rhone Poulenc Ag Company – Development of specification manual for conducting soil and groundwater sampling programs. Manual detailed decontamination methods and proper handling/disposal methods in Institute, West Virginia.

Air Pollution/Air Services

Principal-in-Charge for internal and external methane gas monitoring at nursing home facility in Boone County, West Virginia.

Urban Redevelopment Authority of Pittsburgh – Preliminary and detailed air pollution modeling for Pittsburgh's convention center complex and for the Washington Heights development.

Eastern Associated Coal Corporation – Management of certified emission statements for 11 coal preparation plants and air emission inventories for 8 coal preparation plants for submittal to the West Virginia Office of Air Quality.

Nicholson Construction Company – Operation permit from West Virginia Air Pollution Control Commission for cement/grout portable batch plant for mine subsidence control project in Follansbee, West Virginia.

Stream/Wetland Delineation, Permitting and Mitigation

Columbia Gas Transmission Corporation – Management of stream stabilization and restoration plan for segment of East Fork of Queer Creek in Hocking County, Ohio.

Environmental Assessments/Impact Statements

Management of numerous environmental assessments for property transactions:

- Arch Coal – Multiple WV Tracts ESA (60,500 acres)
- Massey Coal Services – Red Cedar Surface Mine (850 acres)
- Duke Energy – Chicopee Environmental Audit (6,000 acres)

- Pittston Coal Management Group – Phase I ESA (6,000 acres)
- Massey Coal Co. – Hampton Site, Spruce Laurel (130 acres)
- Eastern Associated/Peabody Coal – Phase I ESA (1,035 acres)
- Eastern Associated Coal – Environmental Due Diligence for Active and Closed Operations in KY and WV (100,000 acres)
- Peabody Coal – Multi-state Environmental Audit in WY, CO, NM, AZ, Western KY, IN, IL (250,000+ acres)
- Peabody Coal – Environmental Due Diligence for Properties in IL and IN (150,000+ acres)
- AMVEST Mineral Services – Phase I ESA (8,000 acres)
- Peabody Energy Corp. – Phase I ESA on Putnam Property (1,036 acres)
- Arch Coal – Environmental Compliance Audit in KY, WV, and VA (150,000+ acres)
- Massey – Consolidated Coal Co. Holden Complex (5,500 acres)
- Massey – Environmental/Reclamation Liability Assessment for Northland Resources (150 acres)
- Peabody Coal – Phase I ESA for Imperial Coal and Turner Properties (5,400 acres)
- Peabody Group – Environmental/Reclamation Liabilities for Kanawha Eagle, LLC Permits in Boone and Kanawha Counties, WV (350 acres)

Principal-in-charge for the Coalfields Industrial Site Survey performed for the West Virginia Development Office. Study identified and evaluated more than 1,000 former and current mining sites for use as industrial sites. McDowell County was one of six included in the study. The study considered accessibility, utility status and distance of required extensions, topography, site size, etc.

West Virginia Division of Highways – Coordination of Environmental Impact Statement for Route 19 upgrade from Summersville to Interstate 79 in Braxton County and New River Parkway from Sandstone Falls on I-64 to near Athens on I-77.

DAVID B. SHARP, P.E.

Branch Manager/Senior Engineer

EDUCATION

M.S. Civil Engineering, 1995
West Virginia University

B.S. Civil Engineering, 1993
West Virginia University

EMPLOYMENT HISTORY

2003-Present	Potesta & Associates, Inc.
2000-2003	CTL Engineering, Inc.
1997-2000	Potesta & Associates, Inc.
1994-1997	Terradon Corporation

PROFESSIONAL REGISTRATIONS

Professional Engineer – West Virginia, Virginia

PROFESSIONAL CERTIFICATIONS

Professional Engineer – West Virginia, Pennsylvania, Maryland, Ohio, and Kentucky

AREAS OF SPECIALIZATION

Involved with many aspects of civil engineering with a special interest in the geotechnical/environmental aspects. Responsibilities have included projects involving Civil/Site Design; Geotechnical Design, Solid Waste Management Facility Design, including geosynthetic applications; hydrologic and hydraulic design; transportation/highway projects, including geotechnical and right-of-way plans; and municipal water and wastewater projects.

PROFESSIONAL EXPERIENCE

Geotechnical

Engineer responsible for performing subsurface investigations, preparation of geotechnical reports, coordinating laboratory analysis programs, providing recommendations for lateral earth pressures, bearing capacities, modulus of subgrade reactions, settlements, and construction specifications for multi-story structures. Foundations considered have included steel H-piles, auger-cast piles, drilled piers, spread footings, and mat foundations:

- Family Dollar Store – Berkeley Springs, WV
- Rubbermaid Distribution Center Addition – Winchester, VA
- WVU Transportation Center/Parking Garage – Morgantown, WV
- 4 West Water Treatment Plant – Greene County, PA
- CA Ventures (9 story student housing building) – Morgantown, WV
- Copper Beech Student Housing (included 31 buildings, parking areas, and 11,250 linear feet of retaining walls) – Morgantown, WV
- Sunnyside Commons Student Housing (included three multi-story buildings, parking, and 43,000 sq. ft. of retaining walls) – Morgantown, WV
- WVU Engineering Building East Addition – Morgantown, WV
- Potomac State College Admissions Building Addition – Mineral County, WV
- Glenville State College Health & Sciences Building – Gilmer County, WV
- Glenville State College Residence Hall – Gilmer County, WV
- Christy Street Office Building – Morgantown, WV
- Harry Green Nissan Dealership Building Addition – Harrison County, WV
- Elkins Dodge Dealership – Randolph County, WV
- Sam's Club Fueling Station – Clarksburg, WV
- Wal-Mart Fueling Station – Connellsville, PA
- Cheat Lake Elementary School Building Addition – Monongalia County, WV
- Churchhill Village Housing Project – Monongalia County, WV

- R.E. Michel HVAC Commercial Building – Monongalia County, WV
- ICM Islamic Center – Morgantown, WV
- Catlettsburg Refining Company – Alkylation and Wastewater Control Room – Catlettsburg, KY
- WVARNG Camp Dawson Fueling System – Kingwood, WV
- MEPCO Dock Expansion Project – Morgantown, WV
- West Run Student Housing (includes 16 buildings, parking areas, and 50,000 sq. ft. of retaining walls) – Morgantown, WV
- Fairmont Federal Credit Union – Bridgeport, WV
- Morgantown Waterfront Marina – Morgantown, WV
- Residence Inn – Morgantown, WV
- Suncrest Executive Office Plaza and Parking and Garage – Morgantown, WV
- WVU Research Park – Morgantown, WV
- View at the Park Apartment Complex – Morgantown, WV
- Marriott Hotel – Morgantown, WV
- Bucks Tavern – Morgantown, WV
- Stouts Run United Methodist Church Addition – Parkersburg, WV
- Fairfield Inn Hotel – Fairmont, WV
- Wendy's Restaurant – Morgantown, WV
- Sunoco Service Station – Robinson Township, PA
- St. Stephen Baptist Church – Morgantown, WV
- Islamic Center – South Charleston, WV
- Oak Hill Public Library – Oak Hill, OH
- Westside High School – Oceana, WV
- WVARNG Readiness Center – Summersville, WV
- Student Housing Facility, Parking Garage, Library/Information Center, Student Center Addition, Jomie Jazz Center, and Child Care Center for Marshall University – Huntington, WV
- U.S. Equipment Distributors – Huntington, WV
- PC WV #2 and #3 – Pace Carbon Fuels – Summersville and Eckman, WV
- WVU Luxury Box for Mountaineer Field – Morgantown, WV
- Marshall University Mid-Ohio Valley Center – Point Pleasant, WV
- Arbor Terrace Assisted Living Facility – Charleston and Huntington, WV
- Pocahontas County PSD Wastewater Treatment Plant – Snowshoe, WV
- Pt. Marion Water Tank Replacement – Pt. Marion, PA
- Monongalia General Hospital and Access Road – Morgantown, WV
- Kasson Elementary/Middle School Repair Project – Kasson, WV
- North Marion Vocational/Technical Center School Repair Projects – Marion County, WV
- Monongalia County Public Office Building – Morgantown, WV
- Numerous Cell Phone Towers in WV, PA, and MD
- Numerous Natural Gas Compressor Stations Pads and Additions:
  - EQT – Logansport Compressor Station Addition – Wetzel County, WV
  - EQT – Plasma Compressor Station Pad – Monroe County, OH
  - EQT – Corona Compressor Station Pad – Wetzel County, WV
  - EQT – Gemini Compressor Station – Geotechnical Feasibility – Marion County, WV
  - EQT – Gemini Interconnect Pad – Marion County, WV
  - Basic Systems, Inc. – Waynesburg Compressor Station Addition – Greene County, PA
  - Basic Systems, Inc. – Gettysburg Compressor Station Addition – Adams County, PA
  - Basic Systems, Inc. – Greencastle Compressor Station Addition – Franklin County, PA
  - Basic Systems, Inc. – Files Creek Compressor Station Addition – Randolph County, WV
  - Basic Systems, Inc. – Smithfield Compressor Station Addition – Wetzel County, WV
  - Dominion Transmission – Crayne Compressor Station – Green County, PA
- Numerous Marcellus Well Pad Sites – Northern WV:
  - Stone Energy – Mills Wetzel #3 Well Pad – Wetzel County, WV
  - Stone Energy – Conley Well Pad – Wetzel County, WV
  - Stone Energy – Langmyer Pad – Wetzel County, WV
  - Mountaineer Keystone – Mackey-Wolfe Well Pad – Barbour County, WV
  - Chesapeake Energy – Rayle Coal Co. Well Pad – Ohio County, Wv
- Numerous Residential Geotechnical Projects – Charleston and Morgantown, WV
- Geotechnical Recommendations for Natural Gas Transmission Lines including Horizontal Directional Drilling Projects:
  - EQT Midstream – H-310 Coal Refuse Area – Monroe County, OH
  - EQT Midstream – Harrison County HDD – Harrison County, WV
  - EQT Midstream – Ohio River HDD – Wetzel County, WV and Monroe County, OH

Responsible for the coordination of subsurface investigation, laboratory testing program, slope stability

analysis, and preparation design documents associated with the repair of landslide at various site throughout West Virginia. Representative designs have included soldier beam and lagging retaining walls, gabion basket retaining walls, segmental block retaining walls, rock toe keys and buttresses, and drainage improvements. The following provides a list of representative projects:

- Bowser Street Landslide Repair – Town of Granville – Monongalia County, WV
- Marshall Portal Access Road Landslide Repair – Greene County, PA
- Weekley Well Pad Landslide Repair – Wetzel County, WV
- Shupbach Ridge Road Landslide Repair – Wetzel County, WV
- Mills Wetzel #2 Well Pad Landslide Repair – Wetzel County, WV
- Mills Wetzel #2 Road Landslide Repair – Wetzel County, WV
- Potts Well Pad Landslide Repair (2 separate landslides) – Wetzel County, WV
- Haynes Branch Gas Line Landslide Repair – Wetzel County, WV
- Decker's Creek Mine Stockpile Area Landslide Repair – Preston County, WV
- Wentz Freshwater Impoundment Embankment Stability Repair – Barbour County, WV
- Columbia Gas Transmission – Well #7331 Slide Repair – Elkview, WV
- Cline Tower Landslide – Winfield, WV
- Wellford Tower Landslide – Clendenin, WV
- Massie Ridge Tower Landslide – Camp Creek, WV
- Fisher Landslide – Elkview, WV
- Kennawa Landslide – Charleston, WV
- Burlew Landslide – Charleston, WV
- Lee Landslide – South Charleston, WV
- Fairmont North Tower Landslide – Fairmont, WV
- 6th Street Tower Landslide – Huntington, WV
- Joyce Landslide – Chesapeake, OH
- WVAML Tuppers Creek Emergency Landslide – Tuppers Creek, WV
- Schmidt Landslide – Gallipolis, OH
- Disposal Service, Inc. Landslide – Hurricane, WV
- Wellston High School Landslide Repair – Wellston, OH
- Pribble Tank Landslide Repair – New Martinsville, WV
- Potokczny Well Pad Landslide Repair – Marion County, WV
- Ridgepoint Landslide Repair – Morgantown, WV

Involved with the layout of the boring plan, staking borings in the field, preparation of the boring contract documents, soliciting bids, awarding drilling contracts, monitoring of drilling operations, coordination of laboratory testing programs, preparation of boring diagrams, and preparation of subsurface exploration report foundation recommendations and slope reviews for various West Virginia Department of Transportation Projects:

- Platinum Drive Urban Connector – Bridgeport, WV
- Segment of WV State Route 2 – Moundsville, WV
- Segment of National Road – Wheeling, WV
- Segment of North Bridgeport Bypass – Bridgeport, WV
- Corridor H, Section IV – Davis, WV
- Sulphur Springs Bridge – Hundred, WV
- Dry Run Interchange – Martinsburg, WV
- Interstate 81 Hainsville, Bessemer and Tuscorora Creek Bridges – Martinsburg, WV
- County Route 24 Bridge Replacement – Jackson County, WV
- County Route 3 Temporary Bridge – Jackson County, WV
- County Route 56 Temporary Bridge – Wetzel County, WV
- County Route 28 Bridge Replacement – Ritchie County, WV
- County Route 3 Temporary Bridge – Roane County, WV

Expert Witness

Served as Expert Witness in numerous cases involving geotechnical, earthwork construction, and/or drainage issues. Many of these cases involved a review of available information, development of professional opinions, issuance of an expert report, depositions, and expert testimony.

- JKLM Energy, LLC et. al. vs. Big Level Wind, LLC, John Hankock Life Insurance et. al. Court of Common Places of Potter County, Pennsylvania No. 86 CD 2017 – Construction, geotechnical and civil/site design associated with gas well pads
- Wilkins, Scott v. R&R Holdings – Civil Action 15-c-295 – Flooding and drainage

- Larry Rine, et. al. vs. Chesapeake Appalachia, LLC. Robinson & McElwee – Civil Action No. 5:11-CV-4 – Landslide on Natural Gas Well Pad
- Bisacca v. Pennsylvania Department of Transportation, Thomas J. Dempsey, Attorney at Law – Earthwork Construction Practices
- Sven Verlinden and Lisa Verlinden v. Morgantown Utility Board, et. al. Shuman, McCuskey & Slicer, PLLC – Civil Action No. 11-C-573 – Combined Sewer Flooding
- Russell D. Kitchen and Suzanne G. Kitchen v. Morgantown Utility Board – Shuman, McCuskey & Slicer, PLLC – Civil Action No. 11-C-745 – Combined Sewer Flooding
- Darin O. Arnold and Sarif J. Arnold v. Morgantown Utility Board – Shuman, McCuskey & Slicer, PLLC – Civil Action No. 11-C-749 – Combined Sewer Flooding
- Rider v. Fairmont Homes, LLC. – Flaherty, Sensabaugh & Bonasso, PLLC – Claim No. 1012802 – Landslide and Residential Construction Issues
- Thomas A. Logston and Joanne C. Logston v. Charles E. Kolb d/b/a Kolb Excavating – A.D. Baker Homes, Inc. and Alan D. Baker, Bowles, Rice, McDavid, Graff & Love – Civil Action No. 10-C-116 – Landslide Resulting in Property Damage
- LJH, Inc. v. Quadruple S. Farms, LLC and Four-S-Development, Bowles Rice LLP – Civil Action No. 09-C-438 – Rockfall and Commercial Construction Practices
- Mingo County Airport Authority Claim Against Appalachian Paving & Aggregate, Inc. – Robinson & McElwee, PLLC – Earthwork and Construction Related Issues
- Children's Home of Wheeling v. Cast & Baker, et. al. Civil Action No. 06-CV-374W – Geotechnical
- Colaianni Construction, Inc. Claim for Cost Recovery Against Koker Drilling at Wetzel County Hospital, Wellness Center Addition – Spilman, Thomas & Battle – Retaining Wall Failure Resulting in Building Damage
- Hilling Enterprises, LLC et. al. v. Midtown Motors, Inc. et. al. – Civil Action No. 13-C-308 – Landslide Causing Property Damage
- Stan-Corp v. Scott Properties, LLC. et. al – Bowles Rice LLC – Landslide Impacting Roadway and Property
- Stephen C. Fish et. al. v. McCloy Construction et. al. – Bowles Rice, LLP – Civil Action 03-C-3050 – Structure Foundation Settlement
- Industrial Machine v. American Geotech – Bowles Rice, LLP – Civil Case 02-C-115 – Subsurface Exploration and Geotechnical Design
- Pell, Robert K., et. al. v. SAMOA, LLC, et. al. – Claim No. 010510386236 – Drainage Related Claim

Civil/Site Design

Project Manager/Engineer on numerous projects involving most aspects of site development. Involvement has included civil/site design, geotechnical aspects, hydrology/hydraulics, permitting, erosion/sediment control/permitting, etc.:

- University Place Parking Garage – Morgantown, WV
- Sunnyside Commons Student Housing Project (included 5 multi-story buildings, 268 parking spaces, and 43,000 sq. ft. of retaining walls) – Morgantown, WV
- Coombs Farm Residential Development – Morgantown, WV
- Morgan Point Residential Subdivision – Morgantown, WV
- Town of Granville Boat Ramp Project – Granville, WV
- West Run Student Housing (1,000 bed student housing Project) – Morgantown, WV
- Copper Beech Student Housing (1,000 bed student housing project) – Morgantown, WV
- Summit at Cheat Lake Residential Development – Morgantown, WV
- Summit at Greystone Residential Development – Morgantown, WV
- Sleepy Hollow Residential Development – Morgantown, WV
- Shiloh Residential Development – Morgantown, WV
- Summerfield Residential Development – Morgantown, WV
- Mayfield Estates Residential Development – Morgantown, WV
- Cheat Landing Residential Development – Morgantown, WV
- Churchill Village Complex – Morgantown, WV
- Trinity Christian School Football Field – Morgantown, WV

- Morgantown Technical Services Industrial Expansion – Mt. Morris, PA
- WVU Beechhurst Parking Lot – Morgantown, WV
- Numerous Marcellus Well Pad Sites for Various Clients – Northern WV

Construction Monitoring

Project Manager/Engineer involved with and/or responsible for construction observation/testing on numerous construction projects. These projects routinely involved earthwork testing utilizing a nuclear density gauge and other test methods during earthwork placement and compaction. Many projects also included concrete testing including slump, comprehensive strength, air entrainment and/or floor flatness testing. The following is a summary of projects involving construction observation and testing:

- Sunnyside Commons Student Housing Project – Morgantown, WV
- Family Dollar Store – Smithfield, PA
- University Place Parking Garage – Morgantown, WV
- Church Hill Village Housing Project – Morgantown, WV
- Mills Wetzel #3 Well Pad – Wetzel County, WV
- Shupbach Ridge Road Landslide Repair – Wetzel County, WV
- Potts Landslide Repairs – Wetzel County, WV
- Pribble Tank Landslide Repair – Wetzel County, WV
- Potokczny Landslide Repair – Marion County, WV
- Tucker County Industrial Park – Tucker County, WV
- Pocahontas County Landfill Cell 3 Expansion – Pocahontas County, WV
- Disposal Services Landfill Expansion Area – Hurricane, WV
- Platinum Drive Urban Connector Landslide Repair – Bridgeport, WV
- Trinity Christian School Football Field – Morgantown, WV
- Kasson Elementary/Middle School Pyrite Remediation Project – Barbour County, WV
- City of Philippi Water Improvement Project – Barbour County, WV
- Mackey Wolfe Well Pad – Barbour County, WV
- Morgantown Technical Services Expansion – Mt. Morris, WV
- Lakin Correctional Center – Wood County, WV
- Western Regional Jail – Cabell County, WV
- Merrick Creek Farm Commercial Development – Cabell County, WV

Served as the Manager responsible for equipping and staffing a fully operational soils and concrete material testing laboratory to be used in support of construction observation projects. The laboratory became validated by the U.S. Army Corps of Engineers to perform approximately 45 ASTM test methods will under Mr. Sharp's direct supervision. Representative test methods included standard and modified proctors, Atterburg limits, grain size determination, aggregate sieve analysis, specific gravity, organic matter, lightweight particles, soil classification, compressive strength, and moisture content determinations. Establishment of the laboratory also included the preparation of a site-specific quality systems manual in accordance with ASTM guidelines.

Sewer Lines and WWTPs

Project Manager/Engineer on numerous public utility projects, such as sanitary sewer collection/treatment, as well as combined sewer/storm water improvements:

- Town of Marlinton CSO Project
- City of Buckhannon Sanitary Sewer Extension
- City of Glenville Infiltration/Inflow Study for the Sanitary Sewer
- Pocahontas County PSD Geotechnical and Environmental Permitting Services for Wastewater Improvement Project

Water Lines, Water Storage Tanks, and Water Treatment Plants

Morgantown Utility Board – Provide expert witness services on a routine basis.

Project Manager/Engineer on numerous public utility projects involving potable water supply. In most of the projects, it not only included the technical design, but also included assistance with funding applications, preparation of technical specifications and construction documents, assistance with bidding

documents, and construction observation/administration.

- City of Wellsburg Water Improvement Project (plant upgrade and line extension) – Wellsburg, WV
- City of Glenville Water Improvement Project – Glenville, WV
- Preston County PSD #2 Howesville Water Improvement Project – Preston County, WV
- City of Philippi Water Improvement Project – Philippi, WV
- City of Philippi Water Tank Upgrade Project – Philippi, WV
- Town of Mill Creek Water Improvement Project – Mill Creek, WV
- Town of Marlinton Water Plant Assessment – Marlinton, WV
- Town of Huttonsville Water System Assessment – Huttonsville, WV
- Preston County PSD #2 Water Improvement Project – Preston County, WV

TIMOTHY M. RICE, E.I.T.

Senior Engineer

EDUCATION

B.S. Civil Engineering, 1982
West Virginia University

EMPLOYMENT HISTORY

2014-Present	Potesta & Associates, Inc.
2006-2014	Hatch Mott MacDonald
1987-2006	CTL Engineering
1978-1987	George E. Pigott & Associates

PROFESSIONAL REGISTRATIONS

Engineer in Training – West Virginia

TRAINING/RELEVANT COURSE WORK

Natural Stream Channel Design Levels I-IV

AREAS OF SPECIALIZATION

Diversified experience with civil, environmental, surveying, and geotechnical engineering projects for public, state, and private clients with an emphasis on project management and coordination of engineering services and environmental services, to include: permitting and compliance, hydraulic and hydrological analysis, slope stability analysis, geotechnical design, Phase I Environmental Site Assessments, stormwater management, municipal water and sewer design, civil site design, water resources analysis/design, natural gas production well pads and roads, and construction monitoring/observation.

PROFESSIONAL EXPERIENCE

Civil/Site Design

Project Manager/Senior Engineer with experience on numerous civil/site design projects involving various aspects of site development, permitting, and design of residential, commercial, and public development projects.

Lake Floyd Homeowners – Senior Engineer on dredging project for remediation of lake sedimentation at Lake Floyd in Harrison County, West Virginia. Project includes wetland and stream delineations, Section 404 Permitting, sediment disposal area design, and coordination of the most cost-effective method for construction.

Paradigm Architects – Project Manager for civil/site portion of the University Place Parking Garage project at West Virginia University, Morgantown, West Virginia. Project includes geotechnical investigations, surveying, permitting, construction specifications, design drawings, city planning and zoning, project coordination, and construction observation.

American Campus Communities – Project Manager for civil/site portion of Sunnyside Commons Student Housing project at West Virginia University, Morgantown, West Virginia. Project includes geotechnical investigations, surveying, permitting, construction specifications, design drawings, city planning and zoning, project coordination, and construction observation.

Mills Group – Project Manager for civil site design project at Davis and Elkins College in Elkins, West Virginia for the site development and permitting associated with a proposed amphitheater on campus.

Glenmark Corporation – Project Manager for the Greenbag Road project that included, surveying, mapping, geotechnical investigations and recommendations, Phase 1 Environmental Site Assessment, permitting, civil site design and storm water management.

Town of Granville – Project Manager for the Bowser Street Landslide Repair project that included surveying, mapping, geotechnical investigations/recommendations, and preparation of bid documents, contractor selection, and construction oversight.

Town of Granville – Project Manager for various engineering projects including surveying, street repaving, stormwater system evaluation, camera surveys, traffic studies, and mapping projects.

Cirrus Energy Group – Project Manager responsible for coordination and oversight of field and office activities associated with risk assessment study, environmental permitting, preliminary engineering studies, and conceptual planning for a 1,100-acre data center complex in Fox and Horton Townships in Elk County, Pennsylvania.

Harrison County Planning Commission – Project Manager responsible for the coordination and design of Phases 1 – 3 of the Rail Trail project in Harrison County,

West Virginia. Project included engineering design, modeling, permitting, and construction observation services.

Construction Monitoring

Project Manager/Senior Engineer with an understanding of construction observation and testing, including concrete, mortar, grout, soils compaction, bearing capacity, bolt torque, and fireproofing testing on public, private and government construction projects.

Camp Dawson – Quality Control Manager during the construction phase of the Student Training Facility at Camp Dawson, Kingwood, West Virginia. The project included all quality control and construction monitoring for the six-building facility along the airstrip at Camp Dawson.

University Place, LLC – Project Manager responsible for construction monitoring and testing on the University Avenue Parking Garage at West Virginia University, Morgantown, West Virginia. Construction monitoring included the coordination, scheduling, and reporting of the concrete, soils, and fireproofing testing on site.

American Campus Communities – Project Manager responsible for the coordination, scheduling, and reporting of the construction monitoring and testing on the Sunnyside Commons Student Housing project at West Virginia University, Morgantown, West Virginia. Construction monitoring included concrete, mortar, soil compaction, and dynamic cone penetrometer testing.

Oil & Gas

Various Shale Gas Clients – Project director/manager responsible for operational support as it relates to engineering and environmental projects, including: site selection; slope stabilization plans; construction bid documents; design of facility pads, water impoundments, and access roads; and environmental assessments/compliance for gas clients in West Virginia, Ohio, and Pennsylvania.

Project Manager for various shale gas and pipeline projects in West Virginia, Ohio, and Pennsylvania. Projects include facility pad designs, access road design, impoundment design, geotechnical, slope stability issues, surveying, permitting, and environmental compliance services.

- Antero Resources
- Stone Energy
- EQT Midstream
- Chesapeake Energy

Dominion Transmission, Inc., Clarington Project in West Virginia and Ohio – Project Manager for the environmental tasks associated with the additional compression at two existing compressor station sites, upgrade of an existing meter station, and one new meter station. This FERC regulated project included preparation of resource reports 1 through 12, stream/wetland/T&E field surveys, wetland delineation reports, and earth disturbance permits.

Columbia Gas Transmission, LLC, Rockport Efficiency Project – Project manager responsible for the engineering and design services, including construction drawings and specifications for 13 different sites. These sites include the plugging and abandonment at existing wells, valve replacement, access road modifications, and well pad construction.

Williams Northeast G&P, Grassy Run Pipeline Project – Project Manager responsible for oversight of the environmental field and permitting activities associated with 6,447 feet proposed gas line installation, to include: RTE species review, Cultural Resources review, wetland/stream delineations, soil sampling, Chapter 105 permit application, ESCGP-2 permit application, E&S controls and inspection, and hydrostatic test permit application in Fayette County, Pennsylvania.

Consol Energy, Well Assessment Study – Project Manager responsible for oversight of approximately 400 existing gas and oil well assessments to determine the Greenhouse Gas inventory and general environmental condition of the well sites in West Virginia and Pennsylvania.

Stream/Wetland Delineation, Permitting and Mitigation

Dominion Transmission, Inc., Post Wetland Monitoring and Reporting – Project Manager responsible for the oversight of the post wetland monitoring services for five FERC-certified projects sites in West Virginia and Pennsylvania for three years to measure the revegetation success of wetlands impacted during the construction of natural gas pipeline in the area.

Pennsylvania General Energy – Project reviewer responsible for various wetland/stream delineations, US Army Corps, Chapter 105 permit application, ESCGP-2 permit application, Erosion & Sediment controls and inspections for the Fisk Hollow Pipeline Project in Porter County, Pennsylvania.

Cabot Oil & Gas – Project engineer on Superior Modular Site responsible for U.S. Army Corps of Engineers 401 permitting, WV Public Lands permit, and WVDNR Stream Enhancement plan utilizing Natural Stream Design techniques.

Consol Energy, Stream Mitigation and Remediation – Project Manager responsible for coordination and oversight of field and office activities associated with the mitigation of approximately 55,000 linear feet of streams affected by longwall mining in Greene County, Pennsylvania. Responsibilities include mitigation planning, construction management, permitting, and augmentation plans. This project utilized shallow low-pressure grouting and minimal stream modifications necessary to improve flow characteristics and stream stability.

Consol Energy, Impoundment Mitigation – Project Manager responsible for the coordination and oversight of field and office activities associated with the mitigation of an existing private impoundment affected by longwall mining in Wetzel County, West Virginia. This project included dewatering of the existing impoundment, shallow low-pressure grouting within the dewatered area and placement of a bentonite liner on the bottom of the impoundment to control the impacts of mine subsidence.

Consol Energy, Stream Monitoring and Regulatory Compliance – Project Manager for monitoring and regulatory compliance of areas above longwall coal mining operations in Greene County, Pennsylvania. This project included monitoring and data collection of surface and ground water using sub-foot Trimble GPS units, Marsh McBirney Flo-mate 2000 flow meters, and digital cameras. This project also included the management of data to determine trends, historical frequencies, and predictive modeling.

US Steel – Project liaison responsible for assembling the in-house team and initial client negotiations for a 1,500-acre Palisades Wetlands banking project in Duluth, Minnesota.

J.F. Allen Company, Stream Restoration – Project Engineer responsible for WVDEP permitting associated with a stream restoration plan utilizing natural stream design technique in Bowden, West Virginia.

Abandoned Mine Lands

Project Manager/Senior Engineer for 80 abandoned mine lands projects in West Virginia, Maryland, Ohio, and Pennsylvania. These projects include: reclamation design, mine fire and burning refuse pile extinguishment, impoundments, slope stability, mine sealing, acid mine drainage abatement, subsidence investigations and stabilization plans, landslides, water feasibility studies, and watershed studies. These services also included detailed design drawings and specifications for construction, as well as assisting with the bidding and any construction issues of each individual project.

West Virginia Department of Environmental Protection, Pendleton Creek Strip, Thomas, Tucker County, West Virginia - Project Manager responsible for reclamation design and stream remediation of an abandoned surface mine in. Geosynthetic liners and Natural Stream Design techniques were used to prevent headwater base flows from entering an abandoned deep mine through mine voids and subsidence features. Existing wetlands were protected utilizing staged culvert and low water crossings. This project also included ARRI reforestation techniques and riparian habitat replacement.

West Virginia Department of Environmental Protection, Taylor Creek Impoundment – Project Manager responsible for reclamation of a 120-acre burning refuse pile and a 24-acre impoundment in Clay County, West Virginia. This work involved the reclamation and extinguishment of the burning refuse pile, dewatering of the impoundment, subsurface investigation of burning material to depths of approximately 110 feet and the design and reconstruction of approximately 3,400 feet of Taylor Creek.

West Virginia Department of Environmental Protection, Blackwater River Beaver Creek Treatment Project – Project Manager responsible for the rehabilitation of an existing concrete dam, the installation of rotating drums, and a limestone slurry treatment facility on the Blackwater River in Tucker County, West Virginia. This was a cooperative project with WVDEP and WVDNR and has been recognized by "Trout Unlimited" and "Outdoor Life". This project has successfully

transformed a formerly dead section of the Blackwater River into a high-quality trout fishery and was recognized by the US Department of Interior, Office of Surface Mining, as the 1999 Appalachian Region Award Winner.
West Virginia Department of Environmental Protection – Decker's Creek Watershed Study, Monongalia and Preston County, WV - Project Manager responsible for a comprehensive study of the watershed to determine if improvements can produce a sustainable fishery. Graphic Information Systems (GIS), stream invertebrate data, water quality data, and in-stream limestone sand test sites were used to complete the investigation. The Decker's Creek Watershed has a 60 square mile drainage area impacted by both abandoned surface and abandoned deep mines causing the upper reaches of the stream to be net acidic, with elevated concentrations of iron.

West Virginia Department of Environmental Protection, Brushy Fork Waterline Feasibility Study – Project Manager for the hydrologic study of a mine-impacted watershed for the design of a public waterline extension to serve the rural community in Harrison County, West Virginia. The study included documentary, field assessment, and laboratory review of conditions to determine eligibility.

West Virginia Department of Environmental Protection, Amigo Smokeless Refuse Pile – Project Manager for the stabilization of a 300-foot-high coal slurry impoundment and refuse pile in Wyoming County, West Virginia. This pile was placed using an aerial tram and consisted mainly of coarse refuse. The primary drainage structures had failed, and the slope was deteriorating. Several residences and active railroads were within the breach zone.

West Virginia Department of Environmental Protection, Moundsville Water Supply Study – Project Manager responsible for an investigative study of the fresh water well field for the City of Moundsville situated along the Ohio River in Wood County, West Virginia. Increasing levels of manganese contamination were deteriorating the quality of this aquifer. A site investigation study was performed to determine the location and effects of mining activities on the local groundwater aquifers. Existing mine maps, geologic information, and background data were reviewed. Geotechnical investigations and aquifer testing were performed to determine the location, depth, and extent of the potential contaminants.

Maryland Department of the Environment, Shallmar Limestone Doser – Project Manager responsible for the design of an AquaFix doser treating AMD runoff from a reclaimed surface mine discharging to the Potomac River basin in Garrett County, Maryland. Design included silo, foundation, and maintenance provisions for this water-driven doser.

Maryland Department of the Environment, Jackson Mountain Mine Fire – Project included engineering design services and construction documents necessary to determine the location and characteristics of a mine fire and then design of an excavated cutoff barrier to prevent the crop line fire from encroaching on the roadway and an existing high-pressure gas line in Allegheny County, Maryland. Additional services included the stabilization of an existing landslide that had occurred as a result of the mine fire.

Maryland Department of the Environment, Kingsland Mine Pool Investigation – This project included an engineering assessment of the existing conditions of a flooded, abandoned deep mine and its blowout potential as related to public safety concerns of the residents in Alleghany County, Maryland.

Mining

Project Manager for surface and deep mining activities associated with coal and aggregate mining facilities. Projects include civil site design, geotechnical, surveying, environmental compliance, permitting, stream monitoring, and mitigation services.

Shannopin Materials, LLC, Shannopin Dock Site, Dilliner – Project Manager responsible for the PADEP permitting necessary for the re-opening of an abandoned stockpile area, dock site, and rail load-out facility in Greene County, Pennsylvania.

Dana Mining Company, 4-West Mine, Eisenhower Shaft Site – Project Manager responsible for PADEP permitting, necessary for the installation of a mine shaft at the 4-West Deep Mine in Mt. Morris, Greene County, Pennsylvania.

Dana Mining Company, Prime No. 1 Deep Mine – Project Manager responsible for PADEP permit revisions necessary for an extension of the mining limits and effected area of an existing deep mine facility in Mt. Morris, Greene County, Pennsylvania.

Coresco, LLC, Cobra Refuse Dump #4 – Project Manager responsible for the PADEP permitting necessary for the development and operation of a coarse coal refuse disposal site in Greene County, Pennsylvania. This site also included the land application of alkaline material.

Water Lines, Water Storage Tanks, and Water Treatment Plants

Preston County Public Service District No.1, Nine County Roads Waterline Extension Project – Project Director responsible for the coordination and oversight of a waterline extension project in Arthurdale, Preston County, West Virginia. Project included permitting, design, bidding, and construction coordination.

Short Line Public Service District, Ten Mile Waterline Extension Project – Project Director responsible for the coordination and oversight of a waterline extension project in Harrison County, West Virginia. This project also included the initial stages of cost analysis and feasibility evaluations, and system improvement analysis to help minimize water losses.

JEREMI J. STAWOVY, E.I.T.

Engineer

EDUCATION

M.S. Civil/Environmental Engineering, 2011
West Virginia University

B.S. Civil/Environmental Engineering, 2009
West Virginia University

EMPLOYMENT HISTORY

2013-Present	Potesta & Associates, Inc.
2012-2013	Sci-Tek Consultants, Inc.
2009-2012	West Virginia University Geotechnical Department
1993-2009	Quality Construction, Quality Crane Service, and Sons

PROFESSIONAL REGISTRATIONS

Engineer-in-Training – West Virginia

PROFESSIONAL CERTIFICATIONS

Troxler Moisture – Density Gauge

OSHA Hazardous Waste Operations and Emergency Response Training – 40 hour

TRAINING/RELEVANT COURSE WORK

Pennsylvania One Call Web Ticket Entry Training

Engineers Society of Western Pennsylvania – Simply Smart Writing Tools Training

AREAS OF SPECIALIZATION

Involved with many aspects of Civil Engineering including Civil Site Design, Permitting, Construction Monitoring, Laboratory Testing, and Construction with a special interest in the Geotechnical/Environmental aspects.

PROFESSIONAL EXPERIENCE

Geotechnical

Responsibilities have included Geotechnical evaluations including management of subsurface explorations, settlement analysis, slope stability modeling, foundation analysis, landslide repairs, well pad construction, roadway improvements/repairs, and commercial/residential construction.

Stahl Sheaffer Engineering – Roadway improvement projects. Completion of multiple field explorations and geotechnical reports for bridge and roadway improvements for the gas industry in Roane, Wirt, Wetzel, Ritchie, and Jackson counties, West Virginia.

Stagg Land Resources – Completion of over forty (40) test borings, associated laboratory testing, and sonic drilling for hydraulic fracking sands in Monahans, Texas.

CA Ventures, WVU Housing – Completion of eight (8) test borings, associated laboratory testing, and geotechnical recommendations for a combined shallow and deep foundation system for a proposed 13-story student housing project in downtown Morgantown, West Virginia.

EQT, Ohio River for Horizontal Directional Drilling (HDD) – Completion of 35 test borings, associated laboratory testing, and geotechnical recommendations at three sites in Ohio and West Virginia relating to a proposed pipeline and transmission pad projects.

American Campus Communities, Sunnyside Commons – Completion of 23 test borings, associated laboratory testing, geotechnical recommendations, civil site design, surveying, and construction phase geotechnical consulting/testing for a 5.4 Acre high-density student housing project in downtown Morgantown, West Virginia.

Glenmark Holding, LLC, Greenbag Road Development – Completion of four (4) borings, laboratory testing, geotechnical recommendations, civil site design, surveying, stakeout, and construction consulting on a commercial development in Morgantown, West Virginia.

EQT, Gemini Compressor Station and Interconnect – Completion of 11 borings, laboratory testing, wetland delineation, mine mapping/research, and preliminary geotechnical recommendations for a proposed compressor station and interconnect in Harrison County, West Virginia.

MEPCO, Marshall Portal – Completion of nine (9) borings and installation of one inclinometer, associated

laboratory testing, geotechnical recommendations, and slope stability monitoring/analysis at a deep mine shaft site to assist with stabilization of mine portal pad and access road near Mount Morris, Pennsylvania.

Town of Granville – Completion of five (5) borings, laboratory testing, geotechnical recommendations, civil site design, contract document preparation, and construction monitoring/testing for the Bowser Street Landslide Repair in Granville, West Virginia.

Stone Energy, Weekly Pad – Completion of several subsurface borings, laboratory testing, geotechnical recommendations, and installation of an inclinometer to monitor slope stability/movement at a natural gas well pad in Wetzel County, West Virginia.

Greer Industries, Cheat River Quarry – Completion of several subsurface borings, laboratory testing, geotechnical recommendations, civil site design, and construction monitoring/testing for the landslide repair and drainage improvements at a limestone mine/quarry in Preston County, West Virginia.

Carmeuse Lime and Stone – Slope stability modeling for proposed slopes for a limestone mine/quarry in Clear Brook, Virginia.

West Virginia Department of Environmental Protection, AML – Subsurface evaluation for Lake Lynn Complex near Morgantown, West Virginia. Drilling included drilling into the mines and setting piezometers to monitor the water levels in the mine.

Johnson, Mirmiran & Thompson – Subsurface evaluation for proposed bridge at West Virginia University Downtown Loop in Morgantown, West Virginia.

Harry Green Chevrolet – Evaluation of failed retaining wall near Bridgeport, West Virginia.

Wastewater Management – Subsurface evaluation for proposed waste water treatment plant at Snowshoe Resort in West Virginia.

Basic Systems – Construction monitoring of geotechnical recommendations (Geogrid system) at Waynesburg Compressor Station.

Stone Energy, Schupbach Ridge Slip – Retaining wall design/construction monitoring for roadway improvement/slip repair in Wetzel County, West Virginia.
Stone Energy, Conley Pad – Retaining wall design for well pad in Wetzel County, West Virginia.

Dodge Dealership – Subsurface evaluation for proposed building and site in Elkins, West Virginia.

Columbia Gas/Basic Systems- Chantilly Compressor Station- Completion of subsurface borings, laboratory testing, and geotechnical recommendations for a Compressor Station in Chantilly, Virginia.

Philadelphia Water Department (PWD) Queen Lane Water Treatment Plant- Completion of several subsurface borings, laboratory testing, and geotechnical recommendations in Philadelphia, Pennsylvania.

EQT – Subsurface evaluation for the pad:

- Corona Compressor Station
- Plasma Compressor Station

Rubbermaid Commercial – Subsurface evaluation for proposed building and site near Winchester, Virginia.

Great West Casualty Company – Geotechnical recommendations for a spill along I-68 at Bruceton Mills, West Virginia.

Stone Energy – Completion of several subsurface borings, laboratory testing, and geotechnical recommendations for a natural gas well pad in Wetzel County, West Virginia.

Geotechnical evaluations of encountered coal seams during residential construction and provided recommendations for construction of two separate homes in Harrison County, West Virginia.

- Roger Carter
- Chad Pokrzywa

FedEx – Concrete testing services for compressive strengths and air entrainment in Harrison County, West Virginia.

Civil/Site Design

Performed conceptual and final site designs which requiring roadways, erosion and sediment control,

stormwater drainage and management West Virginia Department of Environmental Protection (WVDEP) construction stormwater permits, West Virginia Division of Highways (WVDOH) entrance permits, water line, sanitary sewer line and pump design for multiple commercial and residential developments.

Coombs Farm Development- Surveying, civil site design, construction stormwater permitting, entrance permits in Morgantown, West Virginia.

Construction Observation

Performed construction observation for ongoing construction projects. Tasks included but were not limited to compaction testing, bearing capacity testing, moisture level testing, construction method observation for site development, utility line placement, pond construction, retaining walls, etc.

Columbia Gas/Basic Systems – Construction monitoring of geotechnical recommendations (Geogrid system) at Waynesburg Compressor Station in Waynesburg, Pennsylvania.

Sewer Lines and WWTP

Engineer on numerous public utility projects such as sanitary sewer collection/treatment, as well as combined sewer/storm water improvements.

City of Glenville – Infiltration/Inflow Study for Sanitary System in Glenville, West Virginia.

Hunting Hills – Infiltration/Inflow Study for Sanitary System. Design of improvements to waste water treatment plant. Permitting with WVDEP and WVDHHR in Monongalia County, West Virginia.

Additional Experience

Construction – Responsible for project management, safety management, preparing bids, purchase orders, and material delivery:

- Framing
- Roofing
- Siding
- Construction Planning
- Electrical
- Plumbing
- Earthwork
- Concrete Finishing
- Drywall
- Operator of cranes, backhoes, skid steers, excavators, etc.

Sand Hill Berries – Construction of a new winery facility. Management of framing, safety, and crane operations in Mount Pleasant, Pennsylvania.

Mennonite Church Camp – Construction of several large pavilions in Mount Pleasant, Pennsylvania. Management of earthwork, safety, framing, roofing, and concrete.

Construction of several structurally insulated foam panel homes (SIP homes). Management of framing, windows, doors, roofing, insulation, and concrete in Fayette and Westmoreland Counties, Pennsylvania.

Completion of many roofing projects including, asphalt shingles, metal roofing, and rubber/ multi layer flat roofing systems in Fayette and Westmoreland Counties, Pennsylvania.

Laboratory Testing

Responsible for soils lab at West Virginia University under a graduate research assistantship. Managed all testing and teaching of laboratory classes in accordance with ASTM standards. Installation and startup verification testing of modern GEOTAC testing equipment and software. Geotechnical laboratory research testing for the coal and gas industry.

STAHL SHEAFFER ENGINEERING

Jingan Wang, Ph.D., P.E. – Geotechnical Manager

EDUCATION

Ph.D. in Civil Engineering, Washington State University (2013)
Master of Civil Engineering, Beijing Jiaotong University (2009)
Bachelor of Science, Environmental Engineering, China Agricultural University (2007)

PROFESSIONAL EXPERIENCE

As a Geotechnical Manager, Dr. Jingan Wang's responsibilities include mechanical analysis of the pavement distress, laboratory testing, pavement design and performance prediction, roadway design, cost estimation, contract bid preparation, review of Mechanistic-Empirical pavement design, Full Depth Reclamation (FDR) mix design and material/additive selection, report preparation, and managing the geotechnical lab in Washington, PA. Dr. Wang has completed engineering designs in pavement, well pad foundation, slope stability analysis and pipeline buried depth, including taking the lead on more than 80 (FDR) mix designs, and more than 40 Cold In-Place Recycling (CIR) mix designs. These clients include private owners, oil & gas industry, state and local agencies from Pennsylvania, Ohio, West Virginia, and Delaware.

Dr. Wang is taking the lead on Stahl Sheaffer's geotechnical research work, including Cold-Weather Full Depth Reclamation (FDR) with Cement Stabilization, Pavement Design for Low-Volume Roads under Heavy Hauling Traffic, and Mitigation of the Longitudinal Cracking in Flexible Pavement. He has presented his research findings at national conferences and co-authored peer-reviewed journal papers in geotechnical engineering. He also serves as a technical paper reviewer for several international journals, including Transportation Research Board, Road Materials and Pavement Design, Geotechnical Testing Journal, International Journal of Geomechanics, and Environmental Geotechnics. Representative projects include:

- **West Virginia Roadway Improvement Initiative, Confidential Energy Client, Various Counties, WV** – The project is located in various WVDOH Districts including District 1, 2, 3, 4, and 6 consisting of approximately 100 roadway rehabilitation projects, and eight bridge replacement or rehabilitation projects, numerous slide repairs. Dr. Wang leads Stahl Sheaffer's Geotechnical project team as Geotechnical Manager for a 183-mile roadway improvement project throughout the state of West Virginia. He also assists in the construction of these roadway improvement projects as part of the project scope.
- **Kinder Road (T-798) Bridge Replacement Project, North Bethlehem Township, Washington County, PA** – This project includes the replacement of an existing load posted bridge with a new reinforced concrete box culvert. Dr. Wang served as Geotechnical Manager for the Kinder Road Bridge Replacement Project, responsible for geotechnical/foundation reports. The project is scheduled to begin construction in December 2017.
- **JACK Thistledown Racino, Flex-Tech Resources, Cuyahoga, OH** – Completed geotechnical analysis considering the effect of sulfate, pavement design, and laboratory mix design for FDR with Cement Stabilization on the proposed parking lot. In addition, he conducted QA/QC during the construction.
- **St. Joe's Catholic School Parish Parking, Flex-Tech Resources, Cuyahoga, OH** – Completed geotechnical analysis considering the effect of sulfate, pavement design, and laboratory mix design for FDR with Cement Stabilization on the proposed parking lot.

- **Shotski Well Pad, Mt. Carmel Stabilization Group, Washington, PA** – Senior Geotech Analyst. Completed full foundation design analysis for the proposed well pad, the access driveway pavement design, and laboratory mix design for the subgrade soil stabilization with cement.
- **Green SR 3001 Aleppo Road, Rice Energy, Greene, PA** – Senior Geotech Analyst. Completed full roadway management plan, including the reconnaissance on the existing pavement distress, drainage, structures, safety issues. Performed pavement design and related cost estimation.
- **Walnut Street, Russell Standard, Montgomery, PA** – Completed geotechnical analysis and laboratory mix design for CIR with Bituminous Emulsion on the proposed roadway.
- **Slope Stability Analysis of Slides at Belmont TR 237 Shepards Hill Road and Belmont TR-126 Moore Run Road, OH** – Dr. Wang worked as the geotechnical manager. His responsibilities include setting up field exploration plan, field and lab data analysis, slope stability analysis, and geotechnical report preparation.
- **Access Road Maintenance Plan for Bell Point 6 Well Pad and Porter Well Pad, Westmoreland County, PA** – Dr. Wang worked as the senior geotechnical analyst. His responsibilities include field reconnaissance, field data analysis, pavement design, and report and plan set preparation.
- **Full Depth Reclamation (FDR) Mix Designs** – Dr. Wang has taken the lead on more than 50 of FDR mix designs, including Belmont CR 5 Clover Ridge Road iDn Ohio, Washington T-786 Baker Road in Pennsylvania, and Marshall CR 25 Loudenville Road in WV. In FDR designs, his responsibilities include QA/QC lab data, geotechnical analysis, report preparation, and addressing the comments from the clients.
- **Cold In-Place Recycling (CIR) Mix Designs** – Dr. Wang has taken the lead on more than 30 CIR mix design projects, including Furnace Road in Lancaster County, PA and Columbia Road in DE. In CIR designs, his responsibilities are similar to FDR designs, including QA/QC lab data, geotechnical analysis, report preparation, and addressing client feedback.

CREDENTIALS

- Professional Engineer (P.E.):
  - PA [redacted] 2017
  - WV [redacted] 2018
  - CA [redacted] 2016
- Certified Asphalt Mix Design
- Pittsburgh Geological Society

STAHL SHEAFFER ENGINEERING

Dominic S. Passanita, P.E. – Project Manager

EDUCATION

Bachelor of Science, Civil Engineering, New Jersey Institute of Technology

PROFESSIONAL EXPERIENCE

As a Project Manager for Stahl Sheaffer, Mr. Passanita's responsibilities include final design of roadway projects, pavement condition surveys, coordination of roadway maintenance projects, storm water management plan preparation, safety improvements, bituminous pavement design, cost estimates, and specifications for roadway betterment and maintenance. He incorporates features and information relating to project data with GIS and customized programming to compile reports that include anticipated maintenance costs, recommendations, project schedules, roadway expenditures, restrictions, inspection reports, condition comparisons, and permitting statuses. Mr. Passanita provides oversight to designers and project coordinators. He has extensive experience with PennDOT, NJDOT, WVDOH, ODOT, and AASHTO Design Manuals, MUTCD Standards, quantity computations, and specifications in accordance with PennDOT procedures.

Mr. Passanita is also an active member of the Marcellus Shale Coalition (MSC) Transportation Committee, where he has successfully assisted with numerous PA Title 67 policy revisions working with PennDOT's Secretary of Transportation and the Independent Regulatory Review Commission on behalf of the Marcellus Shale industry and Stahl Sheaffer Engineering.

- **Penn State University Roadway Referencing, Analysis, & Asset Management** – Developed a roadway management system for the University's 100 miles of roadways that included recommendations, budgets, and anticipated condition indices for gravel, paved, and surface treated roadways and parking lots on campus and satellite facilities. Project delivery included a tool that provides a 20-year budget as well as the expected effect on roadway conditions accounting for all strategic expenditures. The LIDAR and data management process for this project are applicable to many other project management missions, including use of LiDAR scanning technology to create basemapping, as-builts, and extremely detailed documentation of pre-construction conditions and GIS data management. The success of the project has resulted in requests for presentation of the developed innovations in pavement maintenance and rehabilitation for: The Keystone Association of Physical Plant Administrators (2017), the West Virginia Construction & Design Expo (2018), ASHE Williamsport Chapter (2018), Pennsylvania State Association of Township Supervisors (2018), and ASHE National (2018).
- **Williams Companies Comprehensive Roadway Management Program** – Implemented comprehensive roadway management program and developed a client webportal to track all roadway and pipeline assets and permits. Also responsible for projecting maintenance costs for planned operations on 1060 public roadway segments, totaling approximately 1,650 miles, and making recommendations about the methodologies, specifications, and strategies for conducting roadway maintenance. Work included development of cost tracking methods and metrics for comparing Stahl Shaffer effort and fee and construction costs with pipeline construction production and number of permits issued and closed.
- **ETC Northeast Pipeline, Roadway Management, Butler, Beaver, and Washington Counties, PA** – Managed of all roadway related aspects of approximate 60-mile, 24" natural gas pipeline and well connections including development of project roadway maintenance

budgets, route selections, approximately 70 HOP designs for pipeline roadway crossings and access driveways, plus submittal of permit applications and coordination with state and municipal agencies. Work included design, bid and award, and oversight of roadway maintenance and betterment projects totaling approximately $800,000.

- **Regency Energy Partners, Roadway Oversight & Management, Northeast PA** – Oversight and management of all roadway related aspects for approximately 275 individual pipeline projects totaling 510 miles of pipeline construction, coordination with PennDOT Engineering Districts 2, 3, &4 and 60 municipalities. Services included roadway design, GP-11 permitting, design presentations at public agency meetings, oversight of construction, and permit closeouts.
- **SR 1001 & 1004 Maintenance Project, Elk County, PA** – Design and oversight of $4 million maintenance project including pavement designs; development of all specifications and quantities for completed roadway restoration and betterment options that effectively avoided wetland areas adjacent to the project; and coordination with PennDOT, contractor, and project stakeholders throughout all phases of construction. Included successful delivery of PennDOT partnership funding to two individual unrelated clients.
- **Public Works Department, Township of Wayne, NJ** – Previously employed (2005-2011) by the Wayne Public Works Department in the Engineering Department, responsible for inspection of E&S Controls during construction, environmentally restrained construction sequencing, inspection of permanent stormwater BMPs at critical stages of construction, review of post construction stormwater plans and reports, inspection and testing of public water mains.
- **Pleasant Valley Road, SR 2022, Lycoming County, PA** – Led project production for this public/private partnership project where Stahl Sheaffer, representing a private oil and gas operator, partnered with PennDOT to complete improvements on approximately two miles of Segment 0210 to Segment 0260. Stahl Sheaffer performed a safety review of the project resulting of minor sight distance improvements, curve widening and super elevation corrections. The project also included a 4' wide flexible base replacement for the outside wheel path of each travel lane, 4" depth structural overlay over entire width of roadway, drainage improvements, roadway striping, resetting guide rail and shoulder backup. The Department is planning on completing the construction beginning 8/12/18. Stahl Sheaffer will provide construction layout and control support and will periodically monitor the construction of the project to ensure that the project goals are met.

CREDENTIALS

- Professional Engineer (P.E.): PA [redacted] 2015
- Microstation, AutoCAD, ArcGIS

STAHL SHEAFFER ENGINEERING

Timothy H. Kinder, PLS, CFM – Director of Survey, Director of Operations WV

EDUCATION

Associate of Science, Land Surveying, Glenville State College
Regents Bachelors of Art, Marshall University

PROFESSIONAL EXPERIENCE

Mr. Kinder oversees all survey projects and leads all operations out of Stahl Sheaffer's three West Virginia locations. Mr. Kinder is responsible for driving project schedules, managing project budgets, leading client/sub-consultant coordination, and overseeing the technical design and survey of project teams. He is responsible for performing reviews of all survey projects, directing staff surveyors and technicians, and managing client communication and project progress. Mr. Kinder has 24 years of experience in boundary and topographical surveying, subdivision and land development planning, oil and gas upstream and midstream development planning, and construction survey layout, nearly exclusively working within the oil and gas industry for the past six years. Mr. Kinder is a certified Floodplain Manager and Professional Land Surveyor in West Virginia, Rhode Island, and Connecticut.

REPRESENTATIVE PROJECTS

- **Confidential Natural Gas Transmission Client, Various Counties, WV** – Survey Manager for 3D survey and base mapping of approx. 150 miles of rural roads, spread across 10 counties and in West Virginia. Mr. Kinder is responsible for the oversight and scheduling of the survey crew and technicians for providing topographic mapping, certified plat creation for new right of way, and easement acquisitions.
- **Confidential Energy Client, Various Counties, WV** – Project Manager for multiple well pad designs and frac pit closure permitting and West Virginia state road upgrade projects. Typical projects required vided complete roadway management services including roadway analysis, permits, attendance at township meetings for plan approval, and negotiation and management of a better design. When the township requested a specific solution, Mr. Kinder presented more practical and sustainable construction techniques based on geotechnical analysis. Lab results from testing roadway cores showed that existing materials were sufficient to seal the surface without chemical stabilization. This presented a significant cost savings to the client and provided a brand new surface for the township that will be easier to maintain.
- **The Pennsylvania State University, Centre County, PA** – Survey Project Manager for a comprehensive roadway classification, assessment, and asset management solution project. This project included 3-D LiDAR survey of 100 miles of roads and development of a Roadway Network Maintenance and Repair Prioritization Tool to provide Penn State personnel a process to systematically identify and prioritize necessary repairs, maintenance, and rehabilitation as well as to forecast anticipated necessary yearly expenditures. The Penn State Roadway Network consists of 30 miles of paved roadways and 69 miles of unpaved roadways.

- **West Virginia Roadway Improvement Project, Confidential Energy Client, Various Counties, WV** – Survey Project manager for a 183-mile roadway improvement project throughout West Virginia. The project was located across various WVDOH Districts including District 1, 2, 3, 4, and 6. Mr. Kinder was responsible for the oversight and scheduling of the survey crew and technicians for providing topographic mapping, certified plat creation for new right of way, and easement acquisitions.
- **Washington Street Streetscape Project, Charleston, WV** – Project Surveyor for streetscape project which included decorative street lighting, brick paver sidewalks, and amenities including decorative signage. Mr. Kinder assisted in survey base mapping, horizontal and vertical control establishment, and utility verification.
- **Route 60 Repaving/Reconstruction Project, Kanawha County, WV** – Project Surveyor for a 2.5-mile repaving/reconstruction project. Mr. Kinder was responsible for construction layout and calculations for portions of Route 60 that were reconstructed due to traffic volumes, drainage problems, etc.
- **Route 34 Repaving/Reconstruction Project, Putnam County, WV** – Project Surveyor for a 1.2-mile repaving/reconstruction project. Responsible for construction layout and calculations for portions of Route 34 that were reconstructed due to traffic volumes.
- **Interstate 81 - Mobile LiDAR Mapping Project, Scranton, PA** – Project Manager for an 18-mile section of Interstate 81 which included 360-degree 3D Mobile Mapping of the roadway to document existing conditions prior to roadway construction and re-surfacing.

CREDENTIALS

- Professional Surveyor:
  - State of West Virginia License #1969
  - State of Rhode Island and Providence Plantation License #1974
  - State of Connecticut License #70280
- Certified Floodplain Manager License # US-13-06879
- Association of Floodplain Managers (ASFM), Member
- West Virginia Society of Professional Surveyors, Member
- American Association of Drilling Engineers, Member

NORTH BRIDGEPORT BYPASS

West Virginia Division of Highways
Harrison County, West Virginia

Potesta & Associates, Inc. (POTESTA) was contracted by the West Virginia Division of Highways to provide geotechnical and environmental services for the approximate 1.25-mile North Bridgeport Bypass in Harrison County. This work included documentation of environmental conditions along three alternative routes to assess potential impacts of the construction. The evaluation included a potential "no-build" alternative and considered secondary and cumulative impacts. POTESTA also completed geotechnical evaluation of the planned cut slopes, as well as foundation design for a proposed single span bridge.

Environmental documentation was collected for social and economic impacts, potential impact to farmlands, air quality, noise, water quality, wetlands, vegetation and wildlife, floodplains, threatened and endangered species, historic and archaeological preservation, potential hazardous waste sites, aesthetics, and energy. This work included pedestrian surveys of the alternatives, wetland delineation, noise studies, and evaluation of available housing as it related to residential displacement.

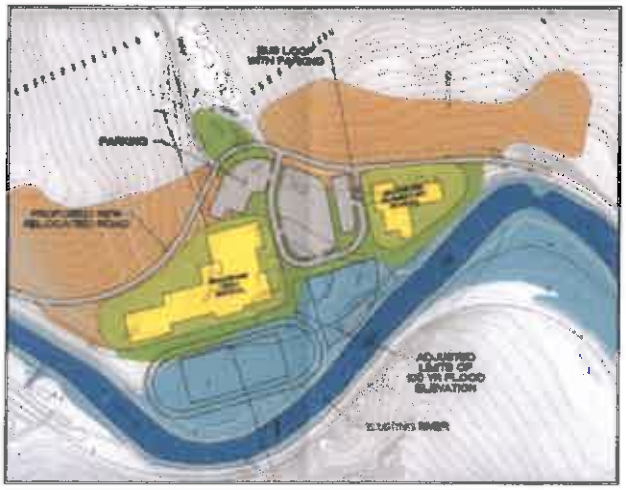
The environmental documentation was summarized in an environmental assessment document that demonstrated that the project qualified for a Categorical Exclusion. Geotechnical recommendations were issued in a geotechnical report for the project, including cut slope recommendations on design cross sections, slope stability analysis of fill slopes and foundation recommendations for the proposed bridge.

POTESTA
POTESTA & ASSOCIATES, INC.
Charleston, WV • Morgantown, WV • Winchester, VA
Phone: (304) 342-1400 • Fax: (304) 343-9031 • www.potesta.com

WV ROUTE 80 AND COUNTY ROUTE 5/6 RELOCATION DESIGN FOR MCDOWELL COUNTY'S NEW ELEMENTARY AND HIGH SCHOOLS

ZMM, Inc.
Bradshaw, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by ZMM, Inc., a Charleston, West Virginia architectural firm whose client, the McDowell County Board of Education, is developing four new schools in McDowell County at a total cost of more than $50 million. POTESTA's project involves the site design and engineering for a new elementary school and new high school in Bradshaw, West Virginia on the site of an existing elementary school.



POTESTA prepared property deeds, conducted exploratory/geotechnical drilling, surveying and design of the relocation of WV Route 80 and County Route 5/6. Design included RW-3 plans with property takes (full and partial and avoiding landlocked properties), utility relocations, and roadway design along with maintenance of traffic plans. The project also involved the relocation of 1,000 feet of Oozly Branch and archaeological surveys.

Other significant elements of this challenging project will be the demolition of the existing elementary school and other structures in the area, and the site development of the two schools, including the site layout of buildings, school access road, bus loop, parking, athletic fields and stadium and playground for the elementary school.

POTESTA will provide floodplain modeling of the site with the proposed development and prepare all the necessary federal and state permits for the site design.

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GRADUATE COLLEGE CAMPUS ACCESS IMPROVEMENT

Marshall University
South Charleston, West Virginia

The Graduate College campus of Marshall University at South Charleston has grown significantly over the past decade. However, access to the school from Kanawha Turnpike, especially for westbound traffic, was difficult because the Turnpike is one-way eastbound. Further expansion of classes at the college necessitated development of better access into the college campus.

Marshall University retained Potesta & Associates, Inc. (POTESTA) to make an initial review of the most feasible route for entering the college and to consider new access routes along with the existing route. After study of several alternatives, the recommended route called for changing Kanawha Turnpike to two-way traffic flow at the existing access road into the college.

This plan was approved by the University, City of South Charleston and the West Virginia Division of Highways (WVDOH). POTESTA prepared construction drawings to WVDOH standards for the additional lane and necessary islands and signage at the college's entry.

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BAKER BUSINESS PARK
INDUSTRIAL ACCESS ROAD

Hardy County Rural Development Authority
Baker, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the Hardy County Rural Development Authority to provide engineering services for the study, design, and preparation of construction contract plans, related documents, and construction oversight services for the planned industrial access road for the Baker Business Park District (BBPD). The purpose of this project was to permit, design, and construct an industrial access road from Corridor H to the BBPD and the addition of deceleration lanes on the Corridor. POTESTA completed the following scope of services to prepare construction contract plans and related documents for the industrial access road in accordance with West Virginia Division of Highways'(WVDOH) requirements:

- **Surveying/Mapping** – Performed a field survey in the vicinity of the proposed industrial access road to generate accurate mapping along Corridor H, and to verify the accuracy of existing mapping.
- **Right-of-Way Plans** – Development of right-of-way information and the preparation of RW-4 plans including property descriptions.
- **Roadway Design and Preparation of Contract Plans** – Prepared contract plans for the proposed industrial access road into the BBPD.
  - Conceptual layout, drainage analysis, geometric design and layout of proposed roadways, intersection layout and details, temporary maintenance of traffic plans, Erosion and Sediment Control Plans, and signage and pavement marking plans.
- **Meetings** – Attended meetings as the Owner Representative including preliminary meetings with the WVDOH, on-site construction startup meeting, progress meetings, and miscellaneous telephone conversations and meetings.
- **Roadway Surveying** – Surveying to assist in the design necessary to complete construction of the industrial access road.
- **Construction Observation** – Performed construction observation during the construction of the industrial access road.
  - Full-time field technician on site, design team member provided periodic site visits, daily construction logs, detailed site review and punch list for the contractor, and a summary report describing the work that included the various daily reports, compaction test data and product literature.

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Charleston, WV • Morgantown, WV • Winchester, VA
Phone: (304) 342-1400 • Fax: (304) 343-9031 • www.potesta.com

STAHL SHEAFFER ENGINEERING

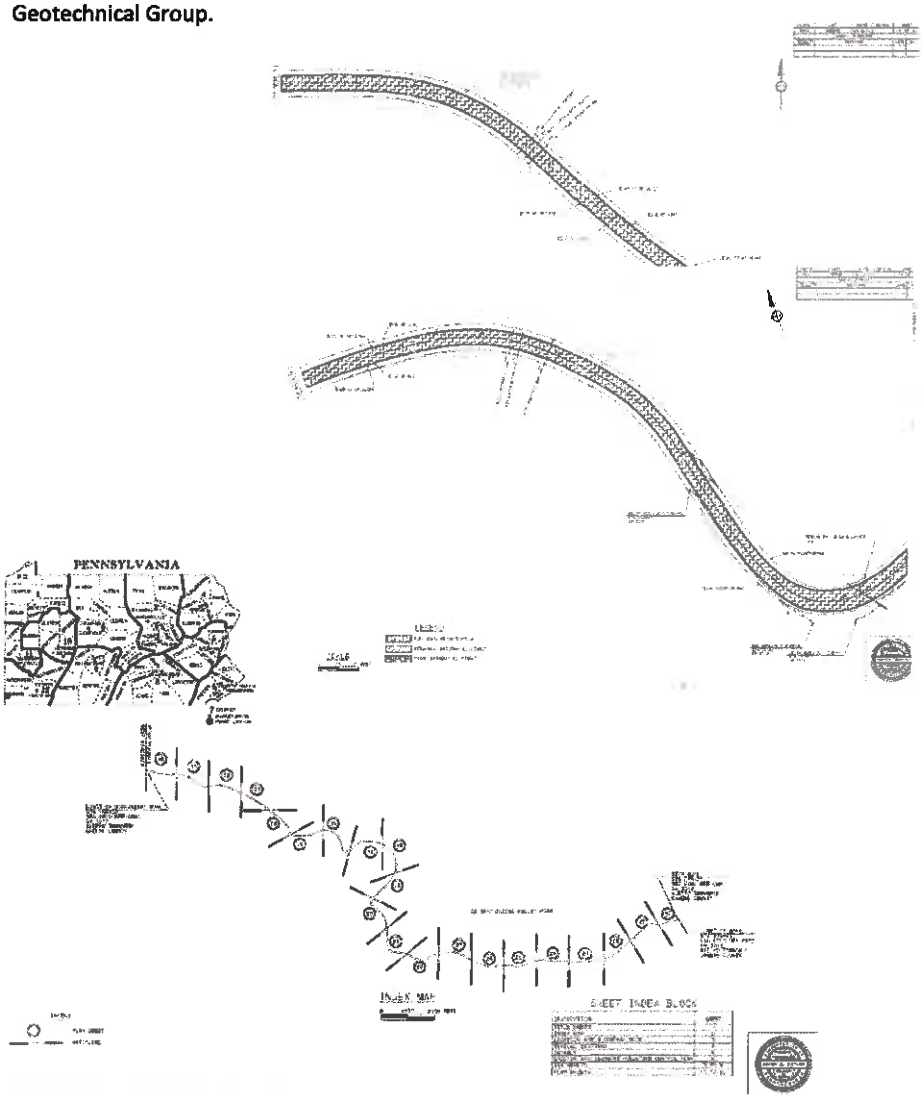
- **Services:**
  Roadway & Drainage Design
  Geotechnical Engineering
  Construction Inspection
- **Owner:**
  Energy Client
- **Costs:**
  $2,170,000
  Includes Engineering, Construction, & Inspection
- **Year Completed:**
  Professional Services: 2017
  Construction: Anticipated 2018

www.sse-llc.com

Project

S.R. 3012 Roadway Improvement Project, Aleppo Township, Greene County, PA

Stahl Sheaffer prepared the design and permit plans for cement-stabilized Full Depth Reclamation (FDR), asphalt overlays, drainage improvements, and slide repairs as indicated on the approved drawings in the bid package for State Route 3012 in Greene County, Aleppo Township, from the West Virginia state line at segment 0010 offset 0000 to PA Township Road T-355 Mudlick Road at segment 0060 offset 0126. The project design and permitting were reviewed by PennDOT District 12-0 Permits Office, Design Group, and Geotechnical Group.



STAHL SHEAFFER ENGINEERING

Project

SR 3016 McCracken Roadway Improvement Project, Aleppo and Richhill Townships, Greene County, PA

- **Services:**
  Geotechnical Analysis
  FDR Mix Design
  Slide Repairs
  Roadway Design
  Drainage Improvements
- **Owner:**
  Energy Client
- **Project Contact:**
  PennDOT District 12-0
- **Contract Amount:**
  $1,667,000 *(including engineering, construction, & inspection)*
- **Year Completed:**
  Professional Services: 2017
  Construction: 2018

Stahl Sheaffer prepared the design and permit plans for roadway widening, asphalt base repairs, asphalt overlays, drainage improvements, and slide repairs as indicated on the approved drawings in the bid package for State Route 3016 in Greene County, Aleppo Township and Richhill Township from the West Virginia state line at segment 0010 offset 0000 to State Route 3001 Aleppo Road at segment 0070 offset 2979. The project design and permitting was reviewed by PennDOT District 12-0 Permits Office, Design Group, and Geotechnical Group.

Photos demonstrate Stahl Sheaffer's FDR with proctor test completed for the project at Stahl Sheaffer's Soils & Materials Lab.

www.sse-llc.com

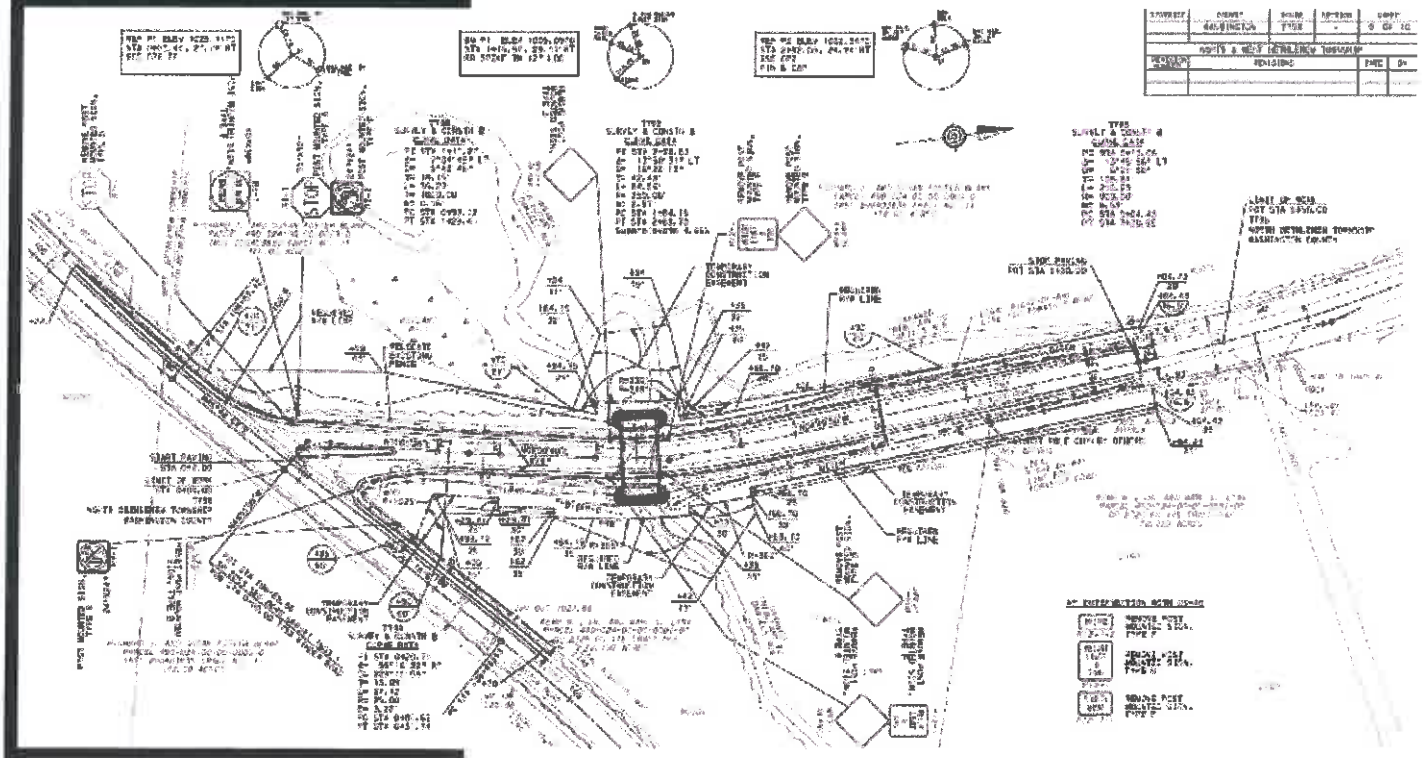
STAHL SHEAFFER ENGINEERING

Project

T-798 Kinder Roadway Improvement Project, North Bethlehem Township, Washington County, PA

- **Services:**
  Bridge Design
  Road Design
  Safety Improvements
  Survey
  Geotechnical Engineering
  Drainage Improvements
  Right-Of-Way Plans
  Environmental Permitting
- **Owner:**
  Energy Client
- **Costs:**
  $500,000
- **Year Completed:**
  Professional Services: 2017
  Construction: Anticipated 2018

This project includes the replacement of an existing load posted bridge with a new reinforced concrete box culvert. In addition to the box culvert, Stahl Sheaffer made significant adjustments to the existing vertical geometry along Kinder Road in order to reduce the profile grade from 26% to 4% at an adjacent intersection tie-in located 200 feet from the bridge site. Stahl Sheaffer also designed safety improvements at the nearby intersection to assist with existing sight distance concerns. Stahl Sheaffer was responsible for all design related tasks including survey, geotechnical/foundation reports, roadway & bridge design, Hydrologic and Hydraulic reports, maintenance and protection of traffic, signing and pavement markings, drainage, Right-of-Way Plans, and environmental permitting. Stahl Sheaffer was also responsible for preparing all bidding and contract documents including construction plans, specifications, and estimates.



www.sse-llc.com

STAHL SHEAFFER ENGINEERING

WVRH

- **Services:**
  Road design
  Bridge design
  Survey
  DOT permitting
  Environmental permitting
  Geotechnical engineering
  Construction inspection & management
- **Owner:**
  Energy client
- **Construction Cost**
  $50,000,000
- **Year Completed:**
  Professional Services: 2017
  Construction: Anticipated 2018

Project

West Virginia Roadway Improvement Initiative, Various Counties, WV

Stahl Sheaffer was the lead design engineering firm on a project that included various public roadway improvement projects totaling 183 miles located in several WVDOH Districts (District 1, 2, 3, 4 & 6). The work involved approximately 100 roadway upgrade projects, 8 bridge replacement or rehabilitation projects, 2 aluminum box culverts, numerous slide repairs, and assisting in the construction management of these roadway improvement and bridge projects as part of the scope. Stahl Sheaffer completed the geotechnical inspection and design, survey, design, DOT permitting, environmental permitting, and project bidding. Stahl Sheaffer assisted in the construction of the roadway improvements in less than 12 months from Notice to Proceed.

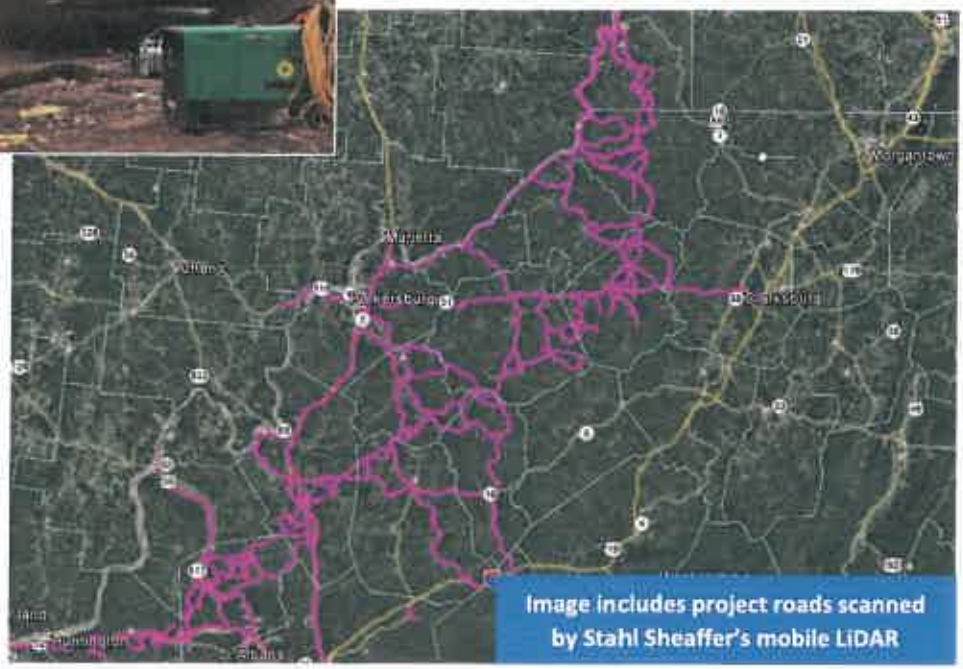


Image includes project roads scanned by Stahl Sheaffer's mobile LiDAR

www.sse-llc.com

The State of West Virginia

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come, Greeting

Know Ye, That The State Board of Registration for Professional Engineers, of the State of West Virginia, reposing special confidence in the Intelligence, Integrity and Discretion of

Dana L. Burns

DOES, IN PURSUANCE OF AUTHORITY VESTED IN IT by law, hereby certify that he, having submitted satisfactory evidence of his ability and experience, is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number [redacted]

To Hold and use such title in the practice of his profession, subject to the conditions prescribed by law.

Given under the hand and the Seal of the Board at the Capitol in the City of Charleston this 17th day of Sept. in the year of our Lord One Thousand Nine Hundred and Eighty-Five and of the State the One Hundred Twenty-Second

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

By

Secretary

The State of West Virginia

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come, Greeting.

Know Ye, That The State Board of Registration for Professional Engineers, of the State of West Virginia, reposing Special confidence in the Intelligence, Integrity and Discretion of

David B. Sharp

DOES, IN PURSUANCE OF AUTHORITY VESTED IN IT by law, hereby certify that he having submitted satisfactory evidence of his ability and experience, is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number [redacted]

(To Hold) and use such title in the practice of his profession, subject to the conditions prescribed by law.

Given under the hand and the Seal of the Board at the Capitol in the City of Charleston this 28th day of July in the year of our Lord One Thousand Nine Hundred and Ninety-nine and of the State the One Hundred Thirty-sixth.

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

Franklin Hadley

CERTIFICATE OF *Authorization*

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

The West Virginia State Board of Registration for Professional Engineers having verified the person in responsible charge is registered in West Virginia as a professional engineer for the noted firm, hereby certifies

STAHL SHEAFFER ENGINEERING, LLC
C04200-00

Engineer in Responsible Charge: AARON C FAYISH - WV PE 020045

has complied with section §30-13-17 of the West Virginia Code governing the issuance of a Certificate of Authorization. The Board hereby notifies you of its certification with issuance of this Certification of Authorization for the period of:

January 1, 2018 - December 31, 2019

providing for the practice of engineering services in the State of West Virginia.

IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE, PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.

IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA UNDER ITS SEAL, AND SIGNED BY THE PRESIDENT OF SAID BOARD.

BOARD PRESIDENT

WEST VIRGINIA BOARD OF PROFESSIONAL SURVEYORS

Certificate of Authorization

Stahl Sheaffer Engineering, LLC

Morgantown, West Virginia

CERTIFICATE OF AUTHORIZATION # 18-5967

This certificate is issued by the West Virginia Board of Professional Surveyors in accordance with *W.Va. Code §30-13A-20*
The person or organization identified on this certificate is licensed to conduct professional surveying and mapping services in the State of West Virginia for the period

January 1, 2018 through December 31, 2018

This certificate is not transferrable and must be displayed at the office location for which issued.

In witness whereof I have put my hand, this 15th day of December, 2017

2018

R. Michael Shepp, P.S., Chairman

James T. Rayburn, P.S., Member

Nelson B. Douglass, P.E., P.S., Secretary

Sefton R. Stewart, P.S., Member

Douglas C. McElwee, *Esq.*, Public Member

Purchasing Divison
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Expression of Interest
02 — Architect/Engr

Proc Folder: 482388

Doc Description: Addendum; Camp Dawson Road Paving Design

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2018-08-24	2018-08-30 13:30:00	CEOI 0603 ADJ1900000009	2

BID RECEIVING LOCATION

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

VENDOR

Vendor Name, Address and Telephone Number:

Potesta & Associates, Inc.
125 Lakeview Drive
Morgantown, WV 26508

304-225-2245

FOR INFORMATION CONTACT THE BUYER

Stephanie L Gale
(304) 558-8801
stephanie.l.gale@wv.gov

Signature X Dana L. Burns FEIN # 311509066 DATE 8/30/18

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

ADDITIONAL INFORMATION:

Addendum

Addendum No.01, issued to publish and distribute the attached information to the vendor community.

****

Expression of Interest Solicitation
(architect/engineering services)

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.

INVOICE TO		SHIP TO	
DIVISION ENGINEERING & FACILITIES		FACILITY MAINTENANCE MANAGER	
ADJUTANT GENERALS OFFICE		CAMP DAWSON ARMY TRAINING SITE	
1707 COONSKIN DR		240 ARMY RD	
CHARLESTON	WV25311	KINGWOOD	WV 26537-1077
US		US	

Line	Comm Ln Desc	Qty	Unit Issue
1	Camp Dawson Road Paving Design	0.00000	

Comm Code	Manufacturer	Specification	Model #
81101508			

Extended Description :

Professional engineering design services to develop construction documents to provide for Camp Dawson Road Paving Design , located at Camp Dawson, near Kingwood, WV, per the attached documentation.

SCHEDULE OF EVENTS

Line	Event	Event Date
1	Technical Questions Due	2018-08-23

SOLICITATION NUMBER: CEOI 0603 ADJ1900000009
Addendum Number: No.01

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

[ ] Modify bid opening date and time

[ ] Modify specifications of product or service being sought

[✓] Attachment of vendor questions and responses

[ ] Attachment of pre-bid sign-in sheet

[ ] Correction of error

[ ] Other

Description of Modification to Solicitation:

Addendum issued to publish and distribute the attached documentation to the vendor community.

1. Attachment of Vendor questions and Agency responses.

No other Changes.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.

2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, 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.

ATTACHMENT A

CEOI 0603 ADJ1900000009
Camp Dawson Road Paving Design
Vendor Questions and Agency Responses
08/23/2018

1. Is electronic submittal through wvOASIS disabled for this solicitation? It does not appear to be available at this time.

   Answer) Item 6 of the "Instructions to Vendors" Submission of a response to an Expression or Interest or Request for Proposal is not permitted in wvOASIS. Accepted methods of delivery are; hand delivery, delivery by courier, or facsimile

2. If submitting hard copies, how many should be submitted?

   Answer) Yes, please submit hard copies. We would like for you to provide one (1) original copy for the Purchasing Division and three (3) additional copies for the Agency.

3. Can you please further define the scope of work? Are multiple roads involved? If so, which roads? What type of improvements are anticipated?

   Answer) Yes. Yes, there are two (2) roads. The roads involved are the one to the Ammunition Supply Point and the one behind the Mountaineer Challenge Academy. The improvements vary based upon the needs of each road and will be discussed in more detail with the firm who is selected for this project.

4. Is there an estimated budget for the project?

   Answer) The state of West Virginia does not share this budget information at this stage of the process.

5. Is lighting design required for the project?

   Answer) No.

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI 603 ADJ1900000009

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:
(Check the box next to each addendum received)

[✓]	Addendum No. 1	[ ]	Addendum No. 6
[ ]	Addendum No. 2	[ ]	Addendum No. 7
[ ]	Addendum No. 3	[ ]	Addendum No. 8
[ ]	Addendum No. 4	[ ]	Addendum No. 9
[ ]	Addendum No. 5	[ ]	Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Potesta & Associates, Inc.
Company

Dana L. Burns
Authorized Signature

8/20/18
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
Revised 6/8/2012

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.

Dana L. Burns, VP
(Name, Title)
Dana L. Burns, Vice President
(Printed Name and Title)
125 Lakeview Drive, Morgantown, WV 26508
(Address)
(304-225-2245) / (304-225-2246)
(Phone Number) / (Fax Number)
dlburns@potesta.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.

Potesta & Associates, Inc.
(Company)

Dana L. Burns, VP
(Authorized Signature) (Representative Name, Title)

Dana L. Burns, Vice President
(Printed Name and Title of Authorized Representative)

8/30/18
(Date)

(304-225-2245) (304-225-2246)
(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.:

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:
(Check the box next to each addendum received)

- [x] Addendum No. 1
- [ ] Addendum No. 2
- [ ] Addendum No. 3
- [ ] Addendum No. 4
- [ ] Addendum No. 5
- [ ] Addendum No. 6
- [ ] Addendum No. 7
- [ ] Addendum No. 8
- [ ] Addendum No. 9
- [ ] Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Potesta & Associates, Inc.
Company

Dana L Burns
Authorized Signature

8/30/18
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

West Virginia Ethics Commission

Disclosure of Interested Parties to Contracts

Pursuant to *W. Va. Code* § 6D-1-2, a state agency may not enter into a contract, or a series of related contracts, that has/have an actual or estimated value of $100,000 or more until the business entity submits to the contracting state agency a Disclosure of Interested Parties to the applicable contract. In addition, the business entity awarded a contract is obligated to submit a supplemental Disclosure of Interested Parties reflecting any new or differing interested parties to the contract within 30 days following the completion or termination of the applicable contract.

For purposes of complying with these requirements, the following definitions apply:

"Business entity" means any entity recognized by law through which business is conducted, including a sole proprietorship, partnership or corporation.

"Interested party" or *"Interested parties"* means:

(1) A business entity performing work or service pursuant to, or in furtherance of, the applicable contract, including specifically sub-contractors;
(2) the person(s) who have an ownership interest equal to or greater than 25% in the business entity performing work or service pursuant to, or in furtherance of, the applicable contract. (This subdivision does not apply to a publicly traded company); and
(3) the person or business entity, if any, that served as a compensated broker or intermediary to actively facilitate the applicable contract or negotiated the terms of the applicable contract with the state agency. (This subdivision does not apply to persons or business entities performing legal services related to the negotiation or drafting of the applicable contract.)

"State agency" means a board, commission, office, department or other agency in the executive, judicial or legislative branch of state government, including publicly funded institutions of higher education: Provided, that for purposes of W. Va. Code § 6D-1-2, the West Virginia Investment Management Board shall not be deemed a state agency nor subject to the requirements of that provision.

The contracting business entity must complete this form and submit it to the contracting state agency prior to contract award and to complete another form within 30 days of contract completion or termination.

This form was created by the State of West Virginia Ethics Commission, 210 Brooks Street, Suite 300, Charleston, WV 25301-1804. Telephone: (304)558-0664; fax: (304)558-2169; e-mail: ethics@wv.gov; website: www.ethics.wv.gov.

Revised October 7, 2017

West Virginia Ethics Commission

Disclosure of Interested Parties to Contracts

(Required by *W. Va. Code* § 6D-1-2)

Contracting Business Entity: Potesta & Associates, Inc. **Address:** 125 Lakeview Drive

Morgantown, WV 26508

Authorized Agent: Dana L. Burns, Vice President **Address:** 7012 MacCorkle Avenue, SE, Charleston, WV 25304

Contract Number: CEOI 0603 ADJ1900000009 **Contract Description:** Camp Dawson Road Paving Design

Governmental agency awarding contract: West Virginia Army National Guard

☐ **Check here if this is a Supplemental Disclosure**

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below *(attach additional pages if necessary)*:

1. **Subcontractors or other entities performing work or service under the Contract**
   ☐ Check here if none, otherwise list entity/individual names below.

2. **Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)**
   ☐ Check here if none, otherwise list entity/individual names below.

3. **Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)**
   ☑ Check here if none, otherwise list entity/individual names below.

Signature: Dana L. Burns Date Signed: 8/30/18

Notary Verification

State of West Virginia, County of Kanawha,

Dana L. Burns, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 30 day of August, 2018

Rhonda L Henson

Notary Public's Signature

To be completed by State Agency:

Date Received by State Agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____

OFFICIAL SEAL
Rhonda L. Henson
Notary Public
State of West Virginia
My Commission Expires
February 14, 2024
1078 Way Rae Drive
Charleston, WV 25312

Revised October 7, 201

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: Potesta & Associates, Inc.

Authorized Signature: Dana L Bruno Date: 8/30/18

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 30 day of August, 2018

My Commission expires February 14, 2024

AFFIX SEAL HERE

OFFICIAL SEAL
Rhonda L. Henson
Notary Public
State of West Virginia
My Commission Expires
February 14, 2024
1978 Wolf Pen Drive
Charleston, WV 25312

NOTARY PUBLIC Rhonda L Henson

POTESTA
Engineers and Environmental Consultants

TRANSMITTAL MEMO

125 Lakeview Drive, Morgantown, WV 26508 ▪ Phone: (304) 225-2245 ▪ Fax: (304) 225-2246

To: Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, West Virginia 25304-0130

Date: August 30, 2018
Project No.: 0102-18-0309

Sent Via: ☐ Mail ☐ Federal Express ☐ United Parcel Service
☒ Hand Carried ☐ Other: _____

Quantity	Description
1	Original Expression of Interest for Camp Dawson Road Paving Design Project, Solicitation No. CEOI 0603 ADJ1900000009
3	Copies of Expression of Interest for Camp Dawson Road Paving Design Project, Solicitation No. CEOI 0603 ADJ1900000009

Remarks:

By: David B. Sharp/jdb

c: