

DEFK11024:

# Charleston Complex Access Road & Utility Upgrades

01/25/2011

*Submitted to:*

**West Virginia Army National Guard  
Construction & Facilities Management Office**

*Submitted by:*

**WilburSmith**  
ASSOCIATES

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PROCUREMENT DIVISION  
STATE OF WV

January 25, 2011



West Virginia Department of Administration  
Purchasing Division, Building 15  
2019 Washington Street, East  
Charleston, WV 25305-0130  
Attn: Tara Lyle

Re: Charleston Armory Complex Access Road and Utility Upgrades, DEFK11024

Dear Evaluation Committee:

The attached *Expression of Interest* is submitted in response to the above-referenced Expression of Interest for professional engineering design services an access road, utility upgrades and rough site grading to the Charleston Armory Complex in Kanawha County. WSA understands that the professional engineering services required by this contract may include civil, environmental, geotechnical, hydrological and potentially construction inspection services and have developed an expert team to cover all aspects of the project.

Founded in 1952, WSA is a prominent national consulting firm specializing in civil/transportation design, infrastructure improvements, and context-sensitive solutions in both urban and rural environments. The firm is routinely ranked among the top engineering firms in the nation by *Engineering News Record* and has cultivated an outstanding track record for delivering high-quality projects through skilled engineering and proficient project management. Our Charleston, WV office is led by professionals who have successfully completed numerous engineering projects throughout West Virginia. We have received frequent recognition for our outstanding work on these projects. Our project manager is **Mr. George J. (Joe) Crittenden**. Joe brings more than 34 years of civil and site design experience, including 10 years of experience with the AML programs. The staff in the Charleston, WV office will support Joe and is acutely aware of the need to provide economical engineering services while considering the impacts on communities and the environment.

We will use local qualified consultants for surveying and material testing services. Together, the specialized skills of WSA and its subconsultant partner will provide an exceptional combination of relevant experience and technical resources to successfully meet your needs.

If you have any questions regarding our submittal, contact me at 304-345-2339.

Respectfully submitted,

**WILBUR SMITH ASSOCIATES**

A handwritten signature in black ink, appearing to read "Wesley O. Stafford", is written over a horizontal line.

Wesley O. Stafford, PE, AICE  
West Virginia Division Manager

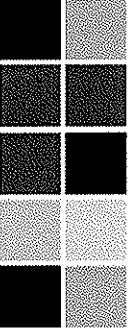
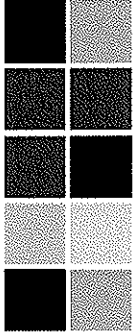


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## Wilbur Smith Associates

WSA is an international consulting firm providing services in the fields of engineering, architecture, planning, and economics. The firm is multidisciplinary and has a diversified practice with its major concentration of services in the analysis and planning of transportation systems, the design of transportation facilities, and planning and design of community and industrial infrastructure systems and facilities. Established in 1952, the firm has completed more than 30,000 projects including work in 50 states as well as projects in more than 117 countries throughout the world. WSA has provided comprehensive engineering and inspection services for a broad range of transportation facilities, including highways, bridges and other structures, parking, and interchanges in the United States and around the world. *For additional general information about Wilbur Smith Associates, please refer to our web site at [www.WilburSmith.com](http://www.WilburSmith.com).*

### WSA's professional services include:

#### Engineering (Highway Design)

Since WSA's first roadway design project in the late 1950s, we have continued to grow our roadway and highway design division to offer a full-spectrum of services to our clients. With over 21 design offices in the United States, some of our related services include:

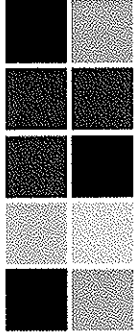
- design of rural and urban streets, arterials, expressways, intersections, & interchanges
- HOV and HOT lanes
- parkways and landscaping
- roadway widening, surfacing, and rehab
- grade separation structures, roadway, & railroad
- roadway hydrology and hydraulics
- route surveying

WSA has successfully completed numerous roadway design projects that have included road section and turn lane widening, curb and sidewalk repairs, intersection improvements, new sidewalk and trail design, bus shelters and other pedestrian access features. These services have also been provided on a larger scale to include planning and final construction design of a major corridor. For these projects, WSA has generated base plans from surveys, feasibility studies, utility coordination and relocation designs, environmental studies and permitting, right of way plans, traffic data collection, analysis, and projections, and concept, preliminary and final construction plans, among other tasks.

#### Utility and Site Development

From small lots to large-scale commercial developments of well over 1,000 acres, Wilbur Smith Associates provides site planning and engineering services for office, business, retail, institutional, and industrial sites and campuses. Projects include public and private sector developments, transportation facilities, economic development initiatives, educational facilities, industrial and business parks, retail centers, residential developments, resorts, and recreational facilities. The site development group offers comprehensive land use planning, design, and construction phase services, and develops creative yet pragmatic master planning initiatives and documentation to help attract prospects to project sites, often working in teams with architects and landscape architects, as well as the developers' staff.

The firm's water, sewer, gas, and electrical engineering capabilities allow seamless integration of utility planning, and in-house expertise in environmental, geotechnical, and hydraulic engineering, GIS mapping, transportation planning, parking analysis, surveying, and construction inspection can be quickly accessed as the need arises. Because project teams can draw on these resources, the solutions they devise are not likely to encounter issues that require costly changes and schedule delays. This broad in-house expertise also allows project teams to understand the complex relationships between community objectives, land use, regional development, and transportation, and enables them to identify alternatives for maximizing developable



acreage and build consensus among diverse stakeholders. These critical capabilities, along with a commitment to meet budget and schedule constraints, allow WSA to develop customized, flexible solutions to meet the needs of each client and project.

Site Development Services Include:

- Master planning
- Grading plans
- Drainage and stormwater management
- Detention facilities
- Water, wastewater, gas, and electric utilities
- Hydraulic and hydrologic modeling and analysis
- Erosion control permitting
- Due diligence studies
- Site analysis and asset evaluation
- Site certification
- Financial and public-private partnership planning
- Incentive packages
- Public sector involvement
- Development and redevelopment strategies
- Market analyses and feasibility studies
- Parking studies and financial analyses
- Office, business, and industrial parks
- Recreation and resort properties
- Education and medical campus planning
- Zoning ordinance review and land use regulation
- Traffic access and circulation
- Intersection and interchange design
- Traffic impact and signal warrant studies
- Interchange modification and justification studies

Engineering (Bridge Design)

WSA continues to be a leader in contemporary bridge technology. Our work falls into nearly every category of bridge configuration and contemporary structural materials, and every type of highway structure including overhead signs, mast lights, tension poles, pedestrian bridges, and pedestrian and traffic tunnels and culverts. From feasibility studies, inspections and investigations to new and rehabilitative design and contract documents, WSA is a leader in bridge technology

- pioneered the design of embedded “integral” post-tensioned caps in structural steel bridges — a first in the U.S.
- employed state-of-the-practice non-linear, structural seismic analysis techniques
- developed the FHWA inspection manual for fracture-critical bridge members — providing instruction for more than 10 years
- 35 years of bridge research for FHWA and the National Academy of Sciences — used in technology transfer worldwide
- extensive experience in bridge hydraulics
- experience ranging from the simplest, single-span bridge to analysis and design of complex structures

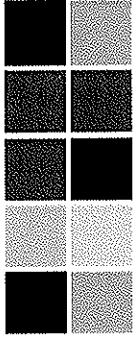
Right-of-Way Services

WSA's right-of-way practice serves as an integral part to the success of our projects. Our professionals are equipped to support public and private sector clients nationwide in planning, negotiations, and relocations. We offer extensive knowledge in permitting and real estate law and possess above-average communication and people skills in order to minimize condemnation rates. Our creative solutions are a precursor to your success and guaranteed to help you achieve your goals. WSA's Charleston office has provided the following right-of-way services to WVDOT under past statewide agreements for right-of-way functions:

- review of R/W invoices (procurement by the Department by option, deed, or agreement)
- review of condemnation packages for invoicing
- property management
- preparation of property descriptions
- plan review
- project oversight
- R/W stakeouts

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## Division of Engineering & Facilities, Armory Board Section



### Water Resources

WSA's water resources division originated as a supplement to highway design, addressing drainage issues on our nation's roadways. Later, these methods were applied to urban and rural development projects. As the company expanded its capabilities, new opportunities surfaced. Since then, the water resources group has evolved into a full service division, supporting not only highway design, but urban and rural planning, site development and other infrastructure and municipal services. Water resources services include:

- hydrology and hydraulics
- hydrodynamic modeling
- drainage and waterline design
- detention ponds/lakes
- stormwater master plans
- stormwater utility development
- FEMA flood studies
- flood control strategies
- watershed modeling
- bridge scour studies
- river mechanics and modeling
- stream restoration
- pump stations

### Geotechnical Investigation and Reports

WSA has integrated geotechnical engineering, pavement design, and foundation/site-related construction services into the design of our highway and bridge structures, commercial buildings, power plants, dams, ports, airports, and industrial facilities. Our geotechnical engineering services include:

- subsurface investigations
- shallow & deep foundation design
- slope stability analyses
- earth retaining structures & reinforced slopes
- rock slope engineering
- seismic hazard analysis
- ground improvement
- earth dam engineering
- seepage and dewatering analysis
- pavement design and management systems

### Environmental Engineering

WSA has provided our clients and the community with environmental planning and National Environmental Policy Act services for over 30 years. This includes over 250 completed projects in more than 36 states. Our environmental capabilities address all transportation modes including, aviation, rail, transit, roadways, bridges, and ports, in addition to site development projects. Our firm is unique because we have in-house technical staff to address the full range of NEPA technical disciplines. This multi-discipline approach provides a culture that encourages creativity and non-traditional methods, thus bringing new ideas and streamlining processes to our clients. In addition to NEPA documentation and a variety of wetland, endangered species, and other natural resource assessments, our experience includes:

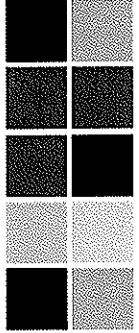
- noise and air quality modeling
- hazardous materials surveys
- community impact assessments
- environmental justice analysis
- public and stakeholder involvement
- agency coordination letters
- geographic information services

### Cultural Resources

WSA offers a full scope of archaeological services from Phase I survey to Phase III mitigation and cultural historic surveys and National Register evaluations including resource management. We have a staff of professional archaeologists, architectural historians as well as access to surveyors, computer mapping specialists with expertise in CAD and GIS software and techniques, and graphic artists. WSA has provided cultural resources services on numerous department of transportation projects in Kentucky, Michigan,



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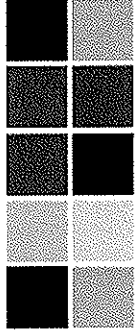


Tennessee, South Carolina, and West Virginia. Previously, WSA has held the Statewide Cultural Resources contract with WVDOH and has been able to supply archaeological and cultural historic services on a couple of projects.

Throughout its history, WSA has performed a significant number of archaeological and cultural historic projects. Our experience conducting archaeological investigations varies from small scale prehistoric sites to large scale historic farmsteads and industrial complexes. Cultural historic studies performed by WSA include the Statewide Historic Bridge Survey, in which over 300 structures were identified and evaluated. Other recent transportation cultural historic survey projects include the proposed I-66 corridor, in which over 400 structures were surveyed, and KY 52, which contained over 350 evaluated structures.

#### Natural Resources

As a part of our environmental engineering and planning services, WSA provides services related to natural resource assessment, including wetland/ stream mitigation, pre-construction notification, threatened and endangered species surveys, neotropical and migratory bird habitat and stream buffer variance applications. Additionally, our personnel have experience in the preparation of natural resource reports in support of Categorical Exclusions, Environmental Assessments, and Environmental Impact Statements for transportation projects.



## Project Management and Design Team

WSA commits its team of professionals to the Department of Environmental Protection for this project. We anticipate that WSA staff can be fully and immediately dedicated to the project under this agreement, if chosen. *Key personnel include:*

### **George J. Crittenden**

#### *Project Manager*

Joe brings more than 34 years of civil and site design experience. His specific project relevant experience includes roadway design studies, roadway contract plans, utility relocations, rough site grading plans, final site grading plans, and obtaining 404/401 and NPDES Permits:

- Formulating the Project Work Plan.
- Establishing the Project Schedule.
- Ensuring that all project milestones are met through the coordination and monitoring of the project schedule and budget for the entire project team.
- Conducting meetings with the Division of Engineering & facilities, WV Army National Guard to document decisions or open items (project issues) and to publish meeting minutes that document those decisions/open items.
- Identifying and monitoring all open items/project issues so that all key project information is acted upon/ responded to in a timely and professional manner.
- Participating with the team on-site visits in order to assess existing conditions and to collect and verify all appropriate program needs and requirements.
- Confirming that all work is being performed in accordance with the project scope and guidelines.
- Coordinating and monitoring of project engineers/ architects to ensure consistency and quality of work via regular meetings.  
Communicating among all members of the project team to ensure the consistency and quality of work via regular meetings  
Communicating among members of the team to ensure the consistent application of project standards, schedules and date decisions

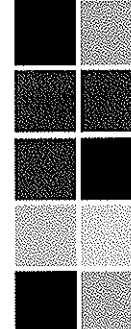
### **Wesley Stafford, PE, AICP**

#### *Project Director*

Wesley Stafford has more than 22 years of experience in highway planning and design. As a consultant he has been the project manager for numerous traffic engineering projects and environmental documents, including developing The West Virginia Statewide Multimodal Plan. His previous experience includes working as both a consultant and with the states of West Virginia and North Carolina. He led NCDOT Statewide Planning Branch's Small Urban Unit. The unit provided multimodal transportation planning expertise to municipalities across North Carolina and plans for the coordinated development of the transportation systems for counties, planning regions, and municipalities on a statewide basis. Mr. Stafford is the project manager for the West Virginia Multimodal Statewide Transportation Plan and has been instrumental in the Beckley Z-Way Design Study, and WWW Transportation Study. Mr. Stafford also worked with NCDOT staff to develop traffic forecast for planning and design branches of the department.



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**Larry Clegg**

*QA/QC Manager*

Larry Clegg began his career in 1987 as an engineering assistant. He joined WSA in 2000 in the Charleston, WV office as a highway design manager, where he focused on providing design services relating to all aspects of highway design. He now serves as a senior project manager, where his major duties include managing budgets, writing proposals, and attending proposal interviews. Larry's contributions to WSA involve a wide range of design projects from studies to final design and have typically included small realignments, interstate weigh station, rural expressways, and urban interstates. He has earned respect in his field, in part, by his strong relationships with clients, as well as his comfort level in all phases of highway design from conception to completion on just about every classification of facility. With significant experience in developing budgets, scopes, and schedules and matching to the firm's resources, Larry has learned to understand and meet the client's needs.

**Ron Williams**

*Utilities*

Mr. Williams has over 40 years of right of way and surveying experience. He currently serves as Senior Right of Way and Utility Engineer, in which capacity he is responsible for coordination and supervision of all right of way development for Charleston, WV office and reviewing right of way projects under statewide agreement with WVDOH.

**Wes Simpson, PE**

*Hydrology*

Mr. Simpson has over 14 years of experience designing award winning bridge and structure projects. His bridge design experience includes developing plans for new and rehabilitated structures. His design experience ranges from a two-cell concrete box culvert, to 1400-foot-long curved bridge. His experience includes concrete, steel and timber bridges for hydraulic, overpass, and pedestrian structures. He has extensive experience conducting structural analysis, hydrology and hydraulic analysis, hydraulic permitting, and is fluent in numerous software packages, which apply to structural design.

**James Vinson**

*Geotechnical/Materials Testing*

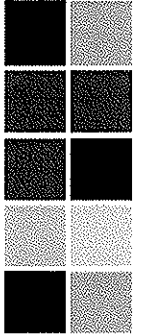
James Vinson began his career in 1997, providing geotechnical engineering and project management services. He now serves as the geotechnical business unit manager for Wilbur Smith Associates' Mid South Region, based in Knoxville, TN. He is responsible for business development, project scheduling, client and subconsultant coordination and communication, and project budgeting. James has continued to add value to the firm's projects, providing expertise in developing and coordinating subsurface exploration programs, performing engineering analyses, and preparing recommendations to mitigate challenging situations. In addition, he has served as the a geotechnical project engineer or lead engineer for the following major projects: SmartFIX40, the reconstruction and widening of I-40 through downtown Knoxville and the costliest TDOT project in history; the construction of the new U.S. Embassy in Khazakstan's new capital of Astana; and a complex and unique design-build project to complete the final 4.3-mile segment of the Natchez Trace Parkway in Mississippi.

**Reason W. Martin**

*Engineering Designer*

Mr. Martin is a civil engineering technology graduate from WVU Tech. He has 10 years of experience in surveying, design, drafting, and construction inspection in West Virginia and Virginia. His recent experience includes the U.S. 50 Traffic Operation and Safety Study in Mineral and Hampshire counties, U.S. 522 in Berkeley Springs, U.S. 220 Moorefield Junction Road in Hampshire County, and Route 2 Widening in Brooke County.

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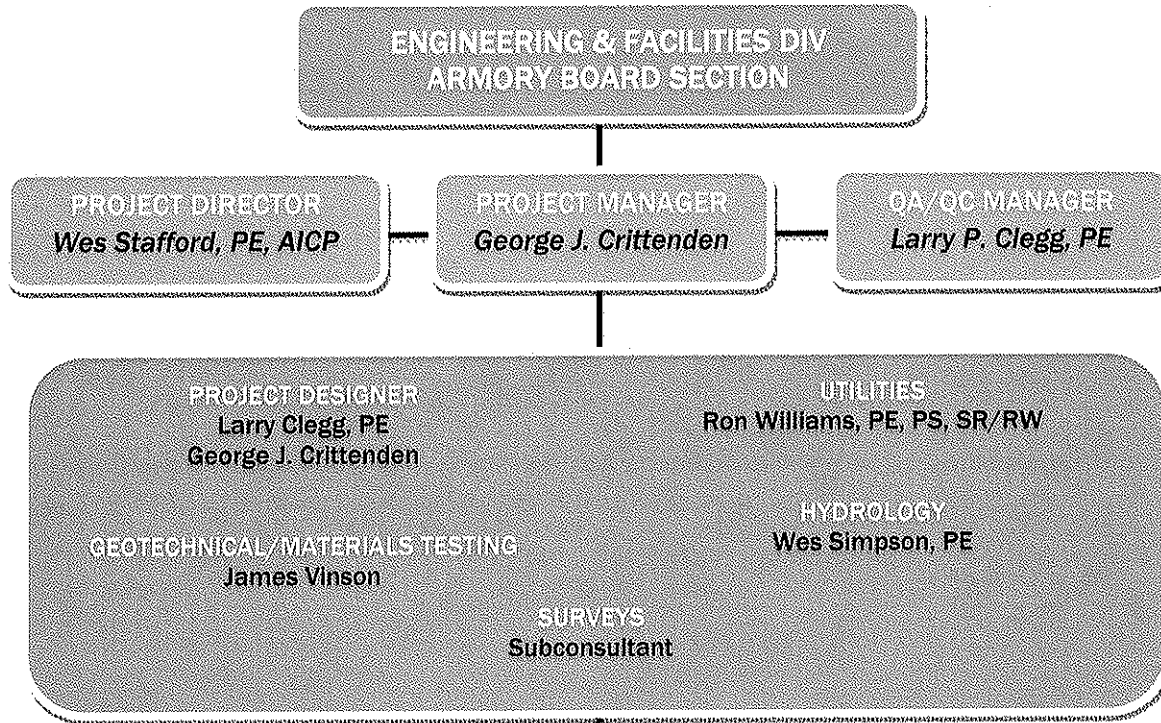


**Jason B. Huddleston**

*Senior Engineering Technician*

Mr. Huddleston is a 2001 graduate of WVU Tech and has eight years of experience as an engineering technician/designer. He has experience in roadway design, storm sewer design, structural drafting, and ditch design. In addition to his West Virginia work, Mr. Huddleston also has experience in Michigan, Arkansas, Virginia, Ohio, and Utah. Mr. Huddleston participated in the Gilliam Arch Bridge Replacement project in Mercer County along with other bridge projects in Virginia and Utah.

**TEAM ORGANIZATION**



2 / Project Management and Design Team

# George Joseph Crittenden

Project Manager

## EDUCATION

Computer Programming Course Study  
Murray State University 1976

Civil Engineering and Applied  
Mathematics Course Study  
Kentucky State University 1987-1989

Civil Engineering Course Study  
Tennessee State University 1989-1992

Nashville Institute of Technology 1991

Civil Engineering Course Study  
West Virginia Institute of Technology  
1992-1994

## YEARS OF EXPERIENCE

With WSA: 1

Total: 34

## SPECIALTIES

Project management, roadway design,  
hydraulics, storm sewers, roadway  
geometry, construction inspection

Mr. Crittenden has 34 years of experience in providing project management, client coordination, project design, design studies, value engineering, construction inspection, and surveying for highways, airports, residential subdivisions, correctional facilities, government buildings, private developments, and abandoned mine land reclamation projects. The projects range from complex interchange design for the I-64 WV 193 interchange near Barboursville, I-79 FBI Access Road interchange near Clarksburg, and two I-264 interchange projects located in Louisville, KY (I-64/I-264 and I-264/Southern Parkway). Mr. Crittenden has been involved in new highway design, roadway improvement projects, and bridge replacement projects in multiple locations within WV, TN, GA, SC, NJ, PA, and KY. Many of the projects required economical design of safety improvements while under traffic and were of a "fast track" nature.

## WORK EXPERIENCE

**Beckley Z-Way Study, Beckly, WV:** Developing the Phase 2 portion a design study for the WVDOT to improve the traffic flow near Beckley, WV.

**The Summit National Scout Reserve:** Reviewing plans for service road layout and primary trail locations.

**Tabler Station Connector, Corridor H, West Virginia Department of Transportation Division of Highways:** Developed complete highway construction and right-of-way plans for the Tabler Station Connector, Corridor H (U.S. 48) in Grant County near the Greenland Gap, and the Jones and Laughlin value engineering plans. These projects are under construction.

**Bridge Replacement Project, Marlton, NJ:** Assisting the Marlton, NJ office in a bridge replace project for Route 206 in Montgomery Township Somerset County, NJ.

**Bridge Replacement Projects, Pennsylvania Department of Transportation:** Provided assistance on two bridge replacement projects.

**Highway Construction and Right-of-Way Plans, West Virginia Department of Transportation Division of Highways:** The projects included the Arlington Truss bridge replacement approaches, 5 & 20 Mile Creek bridge replacement approaches, laeger Pony Truss bridge replacement approaches, Litwar bridge replacement approaches, the Merrick Creek Connector Interchange, Huntington Industrial Center Access Road, Strawberry Road, Dutch Hollow Road, Rowlesburg Railroad Truss Bridge approaches, Corridor H (U.S. 48) near Scherr, Mt. Gay Bridge near Logan, and Honey Creek Bridge (received an Engineering Design Award) near Chimney Corner in Fayette County. Additionally, produced a set of Demolition Contract Plans for a section of WV 10 near Huntington, WV.

**U.S. 52 from Fort Gay to Crum, Star City to Osage U.S. 19 and Oak Hill to Fayetteville U.S. 19:** Developed highway location studies and managed a Transportation Need Analysis Study for U.S. 19 from Bradley to the New River Gorge Bridge, a distance of approximately 20 miles.

**Terry Branch Portals and Refuse Remediation, WVDEP, Wyoming County, WV.** Project Manager responsible for delineation of access road into site, demolition and disposal of fan and fan house, reclamation of refuse pile, design of four bat gate mine seals and six dry mine seals. Addressed on-site drainage concerns, and revegetated all areas disturbed by construction.

**Water Line Feasibility Studies, West Virginia Department of Environmental Protection, Boone, Mercer, and Raleigh Counties, WV.** Project Manager responsible for studies of the water supplies of three areas in southern West Virginia to verify if the areas have been affected by mining activities.

**Glen Fork/Sabine Area Phase II Abandoned Mine Lands Water Feasibility Study and Water Line Extension, Wyoming County, WV.** Senior Design Technician responsible for interviewing all residents about the quantity/quality of their water source and updating maps to show houses/businesses to support an AML&R grant request to OSM to extend or install water systems in these impacted areas.

**Red Star Refuse and Coke Ovens, Fayette County, WV.** Senior Design Technician responsible for layout of survey work, layout of subsurface investigation, requesting and analyzing laboratory test results, and production of grading plans with details, project specifications and bid documents for backfilling, soil covering and re-vegetation of over 60 abandoned coke ovens and three refuse piles.

**Minden Mine Dump, Fayette County, WV.** Senior Design Technician responsible for layout of survey work, layout of subsurface investigation, requesting and analyzing laboratory test results, and production of grading plans with details, project specifications and bid documents to install wet seals to permanently lower the water level in the mine workings, to establish positive drainage to a nearby stream, to excavate and regrade the refuse piles, and to provide soil cover and re-vegetate the refuse and all disturbed areas.

**Little Slate Creek Refuse Pike, McDowell County, WV.** Senior Design Technician responsible for layout of survey work, layout of subsurface investigation, requesting and analyzing laboratory test results, and production of grading plans with details, project specifications and bid documents to regrade the refuse pile to establish stable slopes and establish drainage to a nearby stream.

**Scott Tipple, Barbour County, WV.** Senior Design Technician responsible for layout of survey work, layout of subsurface investigation, requesting and analyzing laboratory test results, and production of grading plans with details, project specifications and bid documents to correct two areas impounding water and coal refuse.

**Marrowbone Water Line Extension, Mingo County, WV.** Senior Design Technician responsible for layout of survey work, layout of subsurface investigation, requesting and analyzing laboratory test results, and production of grading plans with details, project specifications and bid documents to extend a water line into the Marrowbone area where the groundwater was found to be contaminated by mining activities.

# Larry P. Clegg, P.E.

## Highway Design Manager & QA/QC

### EDUCATION

BS, Civil Engineering, University of South Florida, Tampa Bay, FL, 1987

BS, Mining Engineering, West Virginia University, Morgantown, WV, 1981

### REGISTRATIONS

Professional Engineer:

WV (14216) 1999

FL (44646) 1991

AK (11467) 2003

### YEARS OF EXPERIENCE

With WSA: 6

Total: 20

### SPECIALTIES

Project management, roadway design, hydraulics, storm sewers

Mr. Clegg has over 20 years experience designing and managing highway and transportation projects ranging in scope from sidewalks to large scale highway projects. This experience includes design projects for interstate resurfacing, widening, and new construction, interstate weigh-in-motion stations, major arterial reconstruction and widening, and new highway design, preliminary engineering studies and intersection improvements. He has been involved in all phases of highway design from conceptual engineering to final plans, and has direct experience with the many aspects of highway design such as geometric layout, drainage including bridge hydraulics and scour analysis, utilities, environmental permitting, traffic engineering, and pavement design.

### KEY SITE DEVELOPMENT EXPERIENCE

**Lowes, Wheeling WV Site** - prepared a traffic impact study and existing street modification plans per WVDOH requirements. The project included an analysis along Champlain Street to determine the configuration of turn lanes. Additionally the intersections from the parking access to Chaplain street were configured.

**Lowes, Princeton, WV Site** - prepared a traffic impact study, access road construction and right of way plans per WVDOH requirements, including erosion and sediment control plans. The traffic study included the analysis of a traffic signal located in close proximity to the US 460 and I-77 Interchange. The roadway plans included design of a curb and gutter typical section with storm sewer and several intersection layouts.

Designed and Managed four Weigh Station Projects that included the approach roadways and parking areas. This work included grading, paving, drainage, sanitary sewer, and waterline design.

Project Manager for two Lowe's Site Development Projects. These projects consisted of providing the designs on the access roadways.

Provide grading, paving and drainage design for the South Florida Community College Parking Lot addition.

### ROADWAY DESIGN EXPERIENCE

**Nitro, St. Albans Bridge Location Study, Kanawha County, WV** - Roadway design engineer for the location study for the replacement of the 60-year old Henderson Bridge replacement. Responsibilities included vertical and horizontal alignments using a range of design speeds for three potential bridge locations within the Nitro-St. Albans area.

**I-95 Express Toll Lanes, Baltimore County, MD** - Lead highway reviewer for the I-895 Segment of the I-95 Express Toll Lanes Project as part of the General Engineering Consultant Services for the Maryland Transportation Authority. Also provided reviews for the I-695, and MD 43 segments. The project consisted of widening existing I-95 to add managed lanes and the reconstruction of three major interchanges to accommodate the toll way.

**Gilliam Arch Bridge Replacement, Mercer County, WV** - Project manager for bridge replacement project, including realignment of roadway approaches. The project included horizontal and vertical alignment study and design, along with bridge hydraulic studies and scour analysis.

**I-69 Connector, Drew & Lincoln Counties, AK** - Assistant project manager for an Interstate Highway design project in southeastern Arkansas. Project consists of five miles of highway design, 15 miles of drainage design including bridge hydraulic studies, and seven bridges.

**US 50 Traffic Operation, and Safety Study, Mineral and Hampshire Counties, WV** - Project manager for a 45-mile safety improvement study in the eastern panhandle of West Virginia. The study consisted of assessments of traffic, and highway geometry conditions, and provided recommendations for the remediation of potential traffic and safety issues.

**US 220, Moorefield Junction Road, Hampshire County, WV** - Project manager and design engineer for approximately 3500-foot-long alignment improvement project. Project included an alignment study to develop the most feasible configuration to improve deficient sight distance. Services provided include Roadway Plans, Drainage Design, and Signing and Marking Plans.

# Ron Williams, PE, PS, SR/WA

Senior Right of Way and Utility Engineer

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## EDUCATION

MS, Civil Engineering, West Virginia University  
BS, Civil Engineering, Pennsylvania State University

## REGISTRATION

Professional Engineer – PA, VA, WV  
Professional Land Surveyor – PA & WV

## TECHNICAL SPECIALTIES

Construction Plans  
Right of Way Development  
QA/QC for Waterline & Sewer lines  
Surveying

## PROFESSIONAL MEMBERSHIPS

Senior Member, International Right of Way Association (International President 1987-1988)

Fellow, American Society of Civil Engineers

Member, National Society of Professional Surveyors

Member, West Virginia Association of Land Surveyors

Past Chairman, Committee on Utilities, Transportation Research Board, National Academy of Science

Mr. Williams has over 40 years of right of way and surveying experience. He currently serves as Senior Right of Way and Utility Engineer, in which capacity he is responsible for coordination and supervision of all right of way development for Charleston, WV office and reviewing right of way projects under statewide agreement with WVDOH. Mr. Williams' previous employment experience includes:

**International Right of Way Association, 1974 – Present** – Has instructed in approximately 60 presentations of IRWA Course 101, Engineering Principles (3-day course), 25 presentations of IRWA Courses 901 & 902, Plan Reading and Property Descriptions (2-day course), and 12 presentations of IRWA Course 401, Appraisal of Partial Acquisitions (1 week course).

**Parsons Transportation Group, Principle Highway Engineer, November 1998 – July 2002** – Responsible for reviewing construction plans, right of way plans, and property descriptions for a 12 mile four lane divided highway near Parkersburg, WV. Also prepared revised right of way plans and descriptions for a 13 mile four lane divided highway near Elkins, WV.

**Self-Employed Engineer, April 1996 – November 1998** – Self-employed Civil Engineer, Charleston, West Virginia. Performed engineering and surveying work on a contract basis.

**Haworth, Meyer & Boleyn, Inc., Regional Manager, May 1993 – April 1996** – Responsible for the complete operation and management of HMB's West Virginia Regional Office. Engineering work included design of highways, water treatment and distribution, wastewater collection and treatment, and reclamation of abandoned mine lands for the WVDEP, and highway design projects for the WVDOT.

**Dunn Engineers, Inc., Chief of Surveys & Right of Way, December 1988 – May 1993** – Duties included coordination and supervision of all survey, computer aided drafting (CADD), and right of way activities and the design of state wide water and sewer improvements for municipalities and public service districts.

**WV Division of Highways, Assistant District Construction Eng. & Utilities Engineer, September 1966 – December 1988** – Responsibilities included liaison between the Division and all utility and railroad companies, municipalities, public service districts, water and sanitary districts for all highway projects. Engineering work included preparation, review, revision, and interpretation of plans and specifications, field checks, and surveys.

**West Virginia Department of Transportation, 1963 – 1988** – Coordinator and Instructor for Construction Inspectors Training Programs, Instructor Training School, American Management Courses for DOT Supervisory Employees, and in-house engineering training program for new employees.

**Pennsylvania Department of Transportation, Civil Engineer, June 1959 – September 1963** – Duties consisted of various functions involving design of all types of highways, bridges and drainage structures.



# Wesley O. Stafford, PE, AICP

Project Director & Associate-In-Charge, Charleston, WV Office

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## EDUCATION

BS, Civil Engineering, University of South Florida, Tampa Bay, FL, 1987

BS, Mining Engineering, West Virginia University, Morgantown, WV, 1981

## REGISTRATIONS

Professional Engineer:  
WV (14216) 1999  
FL (44646) 1991  
AK (11467) 2003

## YEARS OF EXPERIENCE

With WSA: 6  
Total: 20

## SPECIALTIES

Project management, roadway design, hydraulics, storm sewers

## EDUCATION

Coursework toward a Masters Degree in Transportation Engineering, North Carolina State University, Raleigh, NC, 1993

BS, Civil Engineering, West Virginia University, Morgantown, WV, 1988

Coursework in Math and Computer Science, West Virginia State College, Charleston, WV, 1984

## REGISTRATIONS

Professional Engineer:  
VA (40573) 2004  
NC (19007) 1993  
MD (30782) 2004  
WV (0416061) 2004

## YEARS OF EXPERIENCE

Total Years: 22  
WSA: 7

## PROFESSIONAL AFFILIATIONS

American Institute of Certified Planners

Mr. Stafford has more than 22 years of experience in highway planning and design. As a consultant he has been the project manager for numerous traffic engineering project and environmental documents, including developing NEPA environmental documents from CEs to an EIS. His previous experience includes working as both a consultant and with the State of West Virginia and North Carolina. He led NCDOT Statewide Planning Branch's Small Urban Unit. The unit provided transportation planning expertise to municipalities across North Carolina and plans for the coordinated development of the road and highway systems for counties, planning regions, and municipalities on a statewide basis.

## Traffic Engineering/Transportation Planning

**West Virginia Multimodal Statewide Transportation Plan** - Project manager responsible for the preparation of an integrated, fiscally-constrained, multimodal statewide transportation plan for the state. The work consisted of preparation of a transportation plan that identifies and recommends policies, strategies and projects to address multimodal transportation needs in West Virginia through a 25-year planning horizon. The plan was developed in coordination with each of the modal agencies within WVDOT. The plan identifies and analyzes opportunities for intermodal connections among the various modes and prioritizes and recommends those which were determined to be feasible. A financial plan was also prepared, as well as recommendations for monitoring, updating, and revising the plan on a continuing basis.

**Beckley Z-Way Design Study, Raleigh County, WV** - The West Virginia Department of Transportation/ Division of Highways selected Wilbur Smith Associates for the preparation of a Design Study for development of a highway facility by combining new and existing facilities for approximately 10.3 miles from Shade Springs to the interchange at Tamarack and ending at Van Kirk Drive in Raleigh County, West Virginia. Anticipated Notice to Proceed is June 2007. The project will include a comparative analysis of the proposed Beckley Z-Way and the East Beckley Bypass as well as other potential alternative using QRSII travel demand software. A design study will be completed to compare impacts and cost of each alternative.

**District 2 Bridge Replacements Design-Build, Logan, Mingo, and Wayne Counties, WV (ongoing)** - Project director for a design-build project to replace six bridges in southern West Virginia. The bridge replacements varied in length from 34 to 186 feet. WSA provided comprehensive engineering services to address the bridge and associated roadway design. These design services also included drainage, bridge hydraulics and scour analysis, and environmental planning.

**Wood-Washington-Wirt (WWW) Multimodal Long Range Trans. Plan - Parkersburg, WV.** The plan was developed to respond to the Metropolitan Planning Requirements identified in the Intermodal Surface Transportation Efficiency (ISTEA) and the Transportation Equity Act for the 21st Century (TEA-21). Conducted travel demand modeling using QRSII and developed recommendations for highway improvements through the design year.

**Ohio River Bridge Study, Steubenville, OH** – Developed a matrix to compare various proposed bridge locations using a variety of criteria that measured mobility, environmental impacts, safety, cost effectiveness and regional economic growth.

**Mercer County Multi-Modal Transportation Plan, Mercer County, WV** – Conducted travel demand modeling using QRSII and developed recommendations for highway improvements through the 2025 design year.

**Traffic Impact Studies, various cities, WV, VA and OH** – Used ITE Trip Generation to determine impacts to adjacent street system impacts caused by the development of discount stores, service station, office parks and residential development.

**On-call traffic forecasting, Statewide Planning Branch of NCDOT** – Work with NCDOT staff to develop traffic forecast for planning and design branches of DOT.

# James Vinson

## Geotechnical Engineer

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### EDUCATION

**BS Civil Engineering**  
Mississippi State University 1995

**MS Civil Engineering**  
Auburn University 1997

### REGISTRATIONS/CERTIFICATIONS

OSHT NATL 36-003251930

PE MS 16451

PE NC 26897

PE TX 98906

PE KY 24303

PE TN 107518

PE WV 18380

PE VA 0402046915

### YEARS OF EXPERIENCE

With WSA: 9.2

Total: 13.2

### PUBLICATIONS/PRESENTATIONS

Vinson, J.L. and Moore, H.L., **Deep Foundations in Karst – Lessons Learned From I-40 Corridor Widening** in Knoxville, Tennessee, Proceedings, Deep Foundations Institute 31st Annual Conference on Deep Foundations, Washington D.C., 2006.

Brown, D.A. and Vinson, J.L., **Comparison of Strength and Stiffness Parameters for a Piedmont Residual Soil from In Situ and Laboratory Tests**, Proceedings, ISC, Atlanta, 1998.

Vinson, J.L., **Comparison of Strength and Stiffness Parameters for a Piedmont Residual Soil from In Situ and Laboratory Tests**, M.S. Thesis, Auburn University, Auburn, Alabama, 1997.

Vinson, J.L., **Deep Foundations in**

James Vinson began his career in 1997, providing geotechnical engineering and project management services. He now serves as the geotechnical business unit manager for Wilbur Smith Associates' Mid South Region, based in Knoxville, TN. He is responsible for business development, project scheduling, client and subconsultant coordination and communication, and project budgeting.

James has continued to add value to the firm's projects, providing expertise in developing and coordinating subsurface exploration programs, performing engineering analyses, and preparing recommendations to mitigate challenging situations. In addition, he has served as the a geotechnical project engineer or lead engineer for the following major projects: SmartFIX40, the reconstruction and widening of I-40 through downtown Knoxville and the costliest TDOT project in history; the construction of the new U.S. Embassy in Khazakistan's new capital of Astana; and a complex and unique design-build project to complete the final 4.3-mile segment of the Natchez Trace Parkway in Mississippi.

**Greeneville Fairgrounds Connector Design, Town of Greeneville, TN:** This project included design for a 0.4-mile extension to Snapps Ferry Road. The scope included environmental investigations, surveying, geotechnical investigations, preliminary, right-of-way, and final construction plans, and bidding assistance. James served as project engineer for geotechnical tasks, including subsurface exploration, pavement design, and recommendations for cutting back an existing rock slope to minimize right-of-way requirements.

**U.S. 129 Bypass Pedestrian Bridge Design, City of Alcoa, TN:** This 225-foot prefabricated steel pedestrian bridge and cast-in-place concrete scissor ramp approaches will serve as a vital link between the proposed trail and the existing greenway. The design incorporates ornamental steel detailing and accent lighting. James served as manager of geotechnical tasks, including oversight of subsurface exploration and preparing recommendations for foundations. As structure can only tolerate relatively small differential settlements, evaluation of bearing and foundation type for each column was critical to success of design.

**Farm at Willow Creek Subdivision, Town of Farragut, TN:** This project involved assistance to the Town of Farragut regarding a stormwater drainage system for The Farm at Willow Creek Subdivisions. Concern has grown regarding the adequacy of the system's current condition after multiple failures, including collapse of soils into underground cavities apparently caused by erosion of backfill soil. As geotechnical engineer for the project, James performed a thorough review of the Town's file on past design, construction and correspondence. Consultation was given regarding adequacy of past

**Karst – Lessons Learned from the SmartFIX40 Project in Knoxville, Tennessee, Presentation, 39th Annual Southeastern Transportation Geotechnical Engineering Conference, Bowling Green, KY, October 10, 2007.**

**SPECIALTIES**

**Shallow foundations; deep foundations; subsurface exploration programs; slope stability; retaining walls; pavements**

investigations and inspections as well as suggestions regarding future inspections and repairs.

**Etowah Recreation Center Soil Evaluation, City of Etowah, TN:** The project involved final site design, mass grading, and utility plans for a new community recreation facility complex including wellness center, senior citizen's facility with therapeutic pool, weight-lifting and aerobics rooms, instructional classrooms, and gym/performance area. As the project's geotechnical engineer, James directed the subsurface exploration of the site. Test results and observations regarding the suitability of the encountered soils for reuse as structural fill was reported.

**University of Kentucky Front Loop Design, Lexington, KY:** James was the project's geotechnical engineer and prepared a pavement thickness design. Subsequent to its construction, James provided consultation regarding remediation of a locally failing area of the pavement.

**Middle Creek Road Extension Design, Sevierville, TN:** WSA provided design services for this 4-lane divided, 5-mile long arterial extension including a phase I environmental assessment, mapping, and preparation of final right-of-way and construction plans. James served as project engineer for the preliminary geotechnical engineering investigation on this project, including site review and reconnaissance, as well as geologic review.

**Southeast Kentucky Agricultural and Exposition Center Site Design, Corbin, KY:** Under contract to the architect, WSA provided conceptual site layout and utility design, including gas, water, and sanitary sewer, for the proposed arena. A water tank and booster system were also designed to increase capacity for the facility. As the geotechnical engineer for the project's water tank, James directed a subsurface exploration and provided foundation recommendations.

**Christmas Inn Road Roadway Design, Pigeon Forge, TN:** WSA designed this 3-lane road to improve downtown connectivity and serve a new upscale hotel, the Christmas Inn. The design includes curb and gutter, a closed drainage system, and sidewalks. WSA also provided utility coordination services. James served as project engineer for the geotechnical engineering investigation. He planned locations for approximately 400 geotechnical borings to support the subsurface exploration of new or widened bridges, retaining walls, geomembrane-lined stormwater detention ponds, cut/fill slopes, noise barrier walls, widened interstate, and new or realigned secondary roadways. After a critical slope failure occurred above a retaining wall near the Papermill Interchange, he planned the installation of inclinometer casings to determine what portion of the slope was moving then designed a repair plan in consultation with TDOT. He continued to manage inclinometer monitoring for a year after the repair was completed.

**Site/Civil Design, Meineke, Jefferson City, TN:** James acted as lead geotechnical engineer by planning and coordinating the subsurface exploration as well as providing site development recommendations.

# Gregory (Greg) Presnell

Site/Civil Designer

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## EDUCATION

BS Civil Engineering  
University of Tennessee 1990

## REGISTRATIONS/CERTIFICATIONS

CPESC NATL 3197

EI TN 21703

## YEARS OF EXPERIENCE

With WSA: 6.4  
Total: 14.4

## SPECIALTIES

Site design, grading, and utilities  
(water and wastewater), erosion  
prevention and sediment control,  
and stormwater pollution prevention  
plans.

## TRAINING

GEOPAK Site Modeler training  
course, Bentley; Pond Pak software  
training

Greg Presnell began his career in 1999 and currently provides site design and management services. He specializes in site grading and drainage, site layout, erosion prevention, and stormwater pollution prevention plans, but is also an experienced client coordinator and construction inspector. Greg joined Wilbur Smith Associates in 2004 and works in the Knoxville office as a site design engineer and project manager.

Throughout his career, Greg's projects have included schools, resorts, business parks, and hotels. At WSA, he has served as designer and project manager for three key projects including: Wilderness at the Smokies, the state's first, unique water park and resort center; Parkside Business Center, which involved three office buildings with underground detention allowing offsite stormwater onto the property; and Belle Island Village Hotel, which called for a large development to be built on an island in the Little Pigeon River. The challenges and uniqueness of each of these three projects demonstrates his ability to apply his expertise and successfully manage projects to fit the needs of WSA's diverse clients.

**No Rise Certification for Belle Island Entertainment and Retail Development, Pigeon Forge, TN:** WSA performed an engineering analysis to see if the project would increase flood heights. Full planning and design services were provided to develop this 14-acre island, including underground drainage, utilities, retaining walls, and parking lots. As project manager, Greg was responsible for a grading design that would qualify the project for a no-rise certificate. He also provided the utility layout and design.

**University of Tennessee-Knoxville Baker Center Site Design, Knoxville, TN:** Greg provided site design services for the new Howard H. Baker Jr. Center for Political Science building, designed on an existing parking lot.

**University of Tennessee Min Kao Electrical & Computer Engineering Facility Knoxville, TN:** Greg provided site design services for this new facility built on an existing hillside. Services included grading, drainage, and utilities design. This project was the first LEED-certified project on the University of Tennessee campus.

**Parkside Business Center Site Development Services, TN:** WSA performed final site analysis and design for grading, paving, an extensive underground stormwater system, sanitary sewer, and waterline for this new development including three low-rise office buildings. Greg served as project manager, and was responsible for oversight of the project budget and schedule, grading and drainage design, and coordination with the architect providing building design.

**Wilderness Event Center Hotel and Waterpark Site Design, Sevierville, TN:** WSA provided site analysis and design for grading, paving, an underground stormwater system, sanitary sewer, and waterline for the project, which is adjacent to the Sevierville Events Center in Sevier County, east Tennessee's top tourist destination. Greg served as project manager, and was responsible for oversight of the project budget and schedule, grading and drainage design, and coordination with the architectural firm providing building design.

**Wilderness Event Center Hotel and Waterpark Site/Civil Services, Sevierville, TN:** The 234-room hotel is part of the Wilderness indoor/outdoor waterpark and resort in Sevierville, TN. WSA was responsible for site analysis, construction staking, grading, paving, stormwater sanitary sewer, and waterline. Greg served as project manager, and was responsible for oversight of the project budget and schedule, grading and drainage design, and coordination with architectural firm providing building design.

**Sevier County Central Business District Improvements, Sevierville, TN:** WSA assisted Sevierville, TN in developing a mega-tourist destination zone. WSA provided design, construction plans, and CEI services for various projects, including a new Events Center, hotels, and the Eagle's Landing Golf Course expansion. Greg provided grading and erosion control plans for the initial phase of this project. He served as project manager for the phase to add 18 new holes as well as improve the existing 18-hole course, creating a 36-hole championship course.

**Etowah Recreation Center Master Planning, Site Design, and Grant Acquisition, Etowah, TN:** This project involved master planning, obtaining funding, final site design, mass grading, and utility plans for a new community recreation facility complex. WSA secured a \$300,000 grant for the proposed center. As project manager, Greg was responsible for budget control and oversight of the grading and utility design, as well as coordination with the architect and project owner.

**South Grove Shopping Center Site Development Services, Knoxville, TN:** Site development services were provided for a 60-acre shopping center development. Services included a traffic impact analysis, site grading and drainage plan, utility service plan, parking layout, and design of roadway improvements. Greg coordinated with the developer client for site design, internal roadway layout, and water and sewer design.

**Southeast Kentucky Agricultural and Exposition Center Site Design, Corbin, KY:** Under contract to the architect, WSA provided conceptual site layout and utility design, including gas, water, and sanitary sewer, for the proposed arena. A water tank and booster system were also designed to increase capacity for the facility. As project manager, Greg was responsible for budget control and oversight of grading and utility design, as well as coordination with the architect and project owner.

**84 Lumber Site Design, Knoxville, TN:** Greg provided site design services for a proposed 84 Lumber location in Knox County's Westbridge Business Park. He was responsible for erosion prevention and sediment control measures and development of a SWPPP for site work undertaken.

**Brinks Home Security Site Design, Knoxville, TN:** Greg designed site grading for Brinks Home Security's location on Hardin Valley Rd. Design was completed in March 2005. He also oversaw development of a SWPPP and other erosion prevention and sediment control measures.

**Lowes Site Design, Knoxville, TN:** Greg performed site design tasks related to the construction of a new Lowes home improvement store on Chapman Highway south of Knoxville. Design requirements included development of a SWPPP.



# Charles (Randy) Corlew

## *Director of Site and Municipal Design*

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### EDUCATION

BS Civil Engineering  
University of Knoxville 1980

### REGISTRATIONS/CERTIFICATIONS

PE TN 16625

### YEARS OF EXPERIENCE

With WSA: 6.7

Total: 35.7

### PROFESSIONAL AFFILIATIONS

Tennessee Society of Professional Engineers; past president  
Lakeway Chapter of Tennessee Society of Professional Engineers; past president; past state director

### PUBLICATIONS/PRESENTATIONS

Corlew, Randy. "Don't Forget Distribution." Presentation to Food Plants USA Conference, Tampa, FL. 1993.

### SPECIALTIES

Civil/site design; industrial; environmental; brownfields; landfills

Randy Corlew began his professional career in 1976, focusing primarily on environmental engineering. He joined Wilbur Smith Associates in 2004 in the Knoxville, TN office as the director of industrial and environmental engineering and now serves as the director of site and municipal design. In this role, he coordinates and develops site and municipal projects, providing oversight of scheduling, budgets, construction documents, and construction.

Since joining WSA, Randy has managed numerous key site and municipal projects throughout Tennessee including the Sevierville Events Center, the Cascades Community Resorts in Sevierville, and the Lakeway Regional Sewer District, which spans six counties. For each of these projects, issues of public/private partnerships posed unique considerations during the design and implementation process for these multi-million dollar efforts. Due to Randy's specialized expertise in visualizing, conceptualizing, and funding these types of endeavors, the Sevierville Events Center has earned a reputation as a world-class, multi-use center in a high-profile tourist destination in the Great Smoky Mountains.

**Greene County Industrial Park, Mt. Pleasant Site:** Randy served as principal-in-charge of 72-acre master plan, preparation of Certificate of Need, and applications for water and sewer improvement. The project also involved design of grading water and sewer improvements and industrial access road.

**University of Tennessee Min Kao Electrical & Computer Engineering Facility Knoxville, TN:** Randy provided site design services for this new facility built on an existing hillside. Services included grading, drainage, and utilities design. This project was the first LEED-certified project on the University of Tennessee campus.

**Little League Ball-field Drainage Improvements, Etowah, TN:** Randy provided design services for replacement of 35-year-old 72 inch corrugated metal pipe under 15 to 18 feet of soil cover which was undermining the little league ball-fields and press box facilities with dropouts. Project involved the design and construction of a 36 inch HDPE slip-line and the provision of storm-water detention basin upstream in the drainage ditch for a 212-acre drainage system which caused localized flooding downtown below the ball-fields.

**Wilderness Event Center Hotel and Waterpark Site Design, Sevierville, TN:** WSA provided site analysis and design for grading, paving, an underground stormwater system, sanitary sewer, and waterline for the project, which is adjacent to the Sevierville Events Center in Sevier County, east Tennessee's top tourist destination. As project director, Randy was responsible for oversight of the design and construction plans for site layout, grading, utilities, and

stormwater. He coordinated with the architect and with hotel management to build their first hotel outside of the Wisconsin Dells, and worked with the local planning commission. In addition, he coordinated with the adjacent Sevier Events Center project, which was also designed by WSA.

**Sevier County Central Business District Improvements, Sevierville, TN:** WSA assisted Sevierville, TN in developing a mega-tourist destination zone. WSA provided design, construction plans, and CEI services for various projects, including a new Events Center, hotels, and the Eagle's Landing Golf Course expansion. As project director, Randy coordinated all bi-weekly project meetings with city government, golf course officials, utility providers, and members of the architectural team from July 2004 through September 2007, taking the project from concept development and master planning through final construction plans. He managed the project schedule and budget.

**Etowah Recreation Center Master Planning, Site Design, and Grant Acquisition, Etowah, TN:** This project involved master planning, obtaining funding, final site design, mass grading, and utility plans for a new community recreation facility complex. WSA secured a \$300,000 grant for the proposed center. Randy served as project director and coordinated funding assistance. He assisted in identifying likely funding sources, and helped secure Community Development Block Grants (Local Parks Funding), in addition to USDA rural development funds. He provided oversight of the design and plans development, as well as the project schedule and budget.

**South Grove Shopping Center Site Development Services, Knoxville, TN:** Site development services were provided for a 60-acre shopping center development. Services included a traffic impact analysis, site grading and drainage plan, utility service plan, parking layout, and design of roadway improvements. Randy served as project director, working with the client to develop a vision and ensure that site plans and construction documents would align with that vision. He was responsible for oversight of the project schedule and budget.

**Southeast Kentucky Agricultural and Exposition Center Site Design, Corbin, KY:** Under contract to the architect, WSA provided conceptual site layout and utility design, including gas, water, and sanitary sewer, for the proposed arena. A water tank and booster system were also designed to increase capacity for the facility. Randy served as project director, coordinating with the Commonwealth of Kentucky and the city. He managed the development of a master plan site layout, and provided oversight of the project budget and schedule.

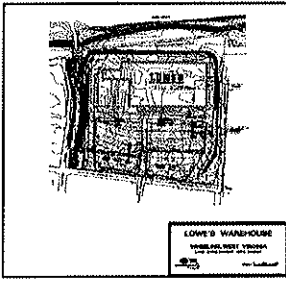
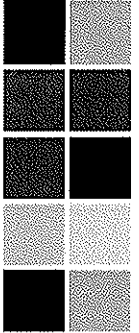
**Walters State Community College, Chiller Upgrade Improvements, Morristown, TN:** Randy served as principal-in-charge of the design documents and oversaw construction of 450-ton Chiller addition to Walters State Community College.

**Middle School Improvements, Hamblen County, TN:** Randy served as principal-in-charge on additions of walls and carpet replacement in middle schools. Overall coordination of re-carpeting and construction of improvements.

**Morristown Area Vocational Technical School, Morristown, TN:** Randy served as client manager and was responsible for assisting owner in preparation of plans and specifications in connection with improvements to HVAC system in Building #5.

**Morristown Area Vocational Technical School, Morristown, TN:** Randy served as client manager and was responsible for assisting owner in preparation of plans and specifications in connection with re-roofing of the two main campus buildings.

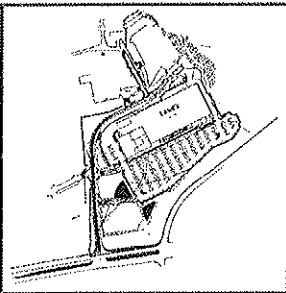
**Morristown Area Vocational Technical School, Morristown, TN:** Randy served as client manager and project designer and was responsible for assisting owner in preparation of plans and specifications in connection with drainage improvements to Campus storm-water drainage system including construction of concrete lined swales and sinkhole corrections. Several buildings and parking lots had been plagued for over 20 years with these problems until corrected by this project.



**Lowe's**

*Wheeling, West Virginia Site*

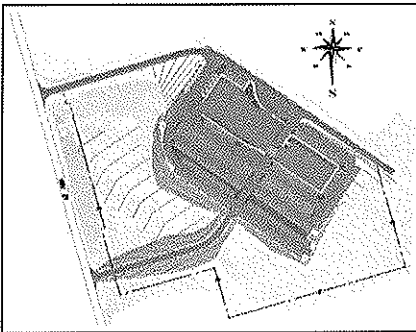
In 2004 the WSA Charleston, WV Office prepared a traffic impact study and existing street modification plans per WVDOH requirements.



**Lowe's**

*Princeton, West Virginia Site*

In 2005 the WSA Charleston, WV Office prepared a traffic impact study, access road construction and right of way plans per WVDOH requirements, including erosion and sediment control plans.

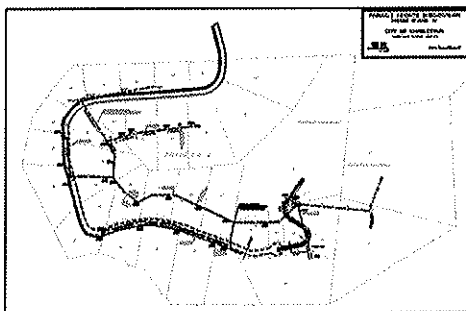


**Ripley Baptist Template**

*Ripley, West Virginia*

In 2005 the WSA Charleston, WV Office prepared a traffic impact study, access road construction and right of way plans per WVDOH requirements, including erosion and sediment control plans.

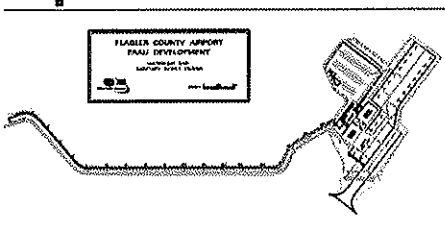
- Grading, Paving and Drainage Plans
- Erosion and Sediment Control Plans
- US COE Section 404 Permit Application
- WV/NPDES Permit Application
- WVDOH Approach and Other Work Permit Application



**Pinnacle Heights Housing Subdivision**

*George Neilan*

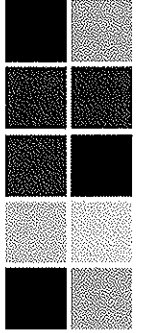
In 2005, WSA CHWV office prepared the design for an 1800' waterline extension and a duplex submersible pump solids handling lift station with 1800' of force main to serve a new classroom/hanger building. WSA also prepared the construction contract specifications and reviewed the lift station shop drawings.



**Flagler County ERAU Development**

*Flagler County ERAU, Florida*

In 2005, WSA CHWV office prepared the design for an 1800' waterline extension and a duplex submersible pump solids handling lift station with 1800' of force main to serve a new classroom/hanger building. WSA also prepared the construction contract specifications and reviewed the lift station shop drawings.



**The Summit Bechtel Family National Scout Reserve**

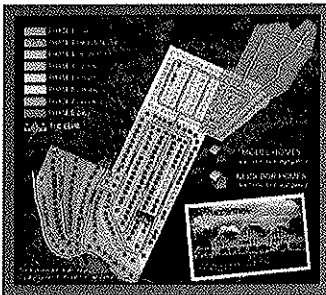
*Trinity Works, Arrow WV, Inc.*

Trinity Works, developer for Boy Scouts of America, selected WSA to undertake the traffic impact study and transit planning for the proposed Summit Bechtel Family National Scout Reserve in Fayette County, WV.



The Charleston Office provided plan review of traffic flow within the camp and review of the interior roads for suitability for the designated design facilities. The traffic impact study looked at providing improved access to the 10,000-acre site from U.S. 19. The site will be the host of the 2013 National Jamboree and also be home to summer camping and a high adventure base camp and will accommodate over 1.5 million visitors per year. WSA personnel attended the BSA National Scout Jamboree, design a charette for The Summit, and held a logistics meeting on how to supply the camp with fresh food and refuse removal for the approximate 48,000 on-site population. WSA personnel also observed vehicle and pedestrian traffic to prepare a report for the next Jamboree in West Virginia. The report was to provide recommendations to improve safety, parking, and traffic flow for the large Jamboree crowd.

WSA is also developing a shuttle service program for the national jamboree, summer camp, and high adventure camps. Campers and troop leaders, as well as service personnel, will be shuttled to the site since automobile traffic won't be allowed access. Everything brought to the site will use this service



**Ocoee Mountain Club Subdivision**

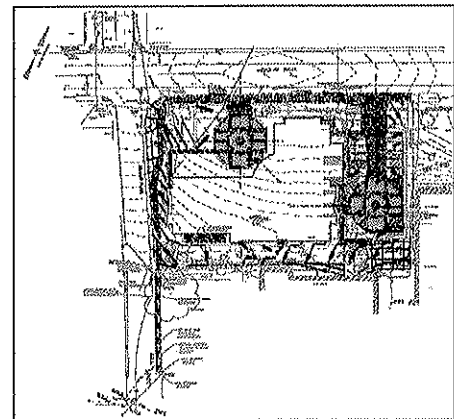
*Ocoee Land Holdings*

Ocoee Mountain Club is a rural single-family residential subdivision being constructed in Polk County, TN. The planned eight phases will include approximately 377 lots on 201 acres. WSA is providing design services including roadway, drainage, utilities, and permitting. There are approximately 21,000 linear feet of new roadway with similar lengths of sewer and water line.

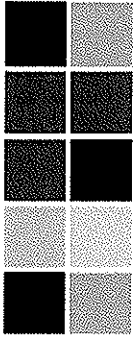
**Baker Center Site Development and Drainage Design**

*McCarty Holsaple McCarty Architects & Interior Designers*

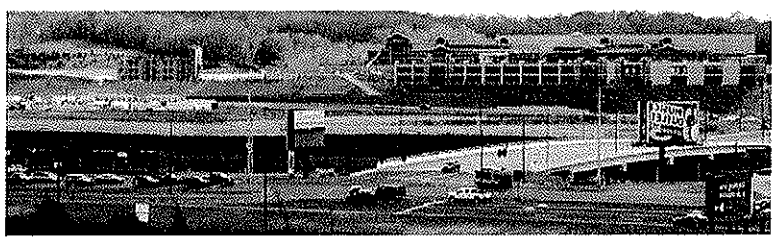
WSA provided site design services for the new Howard H. Baker Jr. Center for Political Science building. To reduce sprawl at the University of Tennessee, it was built on an existing campus parking lot. An innovative part of the design is an underground stormwater retainage system. The retainage system was put in place to collect stormwater that was then harvested for the irrigation system, thereby reducing the university's drain on fresh water supplies.



Other design highlights included: relocating the sanitary sewer lines for Melrose Place; adding a trolley drop-off lane; and adding traffic signal poles to the corner of Cumberland Avenue and Melrose Place.



**Wilderness Event Center Hotel and Waterpark Site Design**  
*Architectural Design Consultants*



The proposed site of the Wilderness Event Center Hotel and Waterpark has excellent regional access and visibility via Highway 66, the main north/south corridor between Interstate 40 and Sevierville, TN. It is located just 30 miles from Knoxville, Tennessee and 10

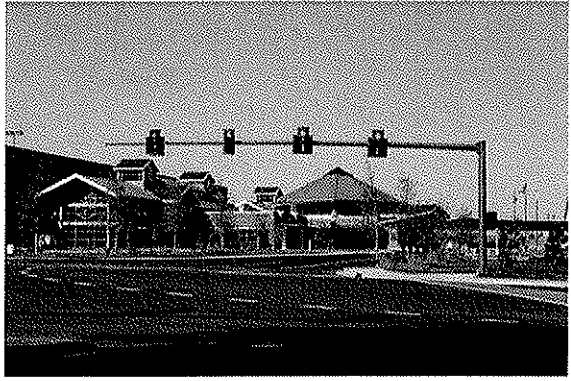
miles from Pigeon Forge, Tennessee, one of East Tennessee's leading tourist destinations. The site is located just east of the new Sevierville Events Center and just South of the City of Sevierville-owned Eagles Landing Golf Course.

Wilderness Event Center Hotel and Waterpark is a new upscale outdoor waterpark and Hotel. The Hotel is the first of its kind in the East Tennessee area. There is strong local and regional demand for this type of facility as Sevierville lacks a large, indoor, multi-purpose space. While local facilities are heavily utilized, their size limits the entertainment that can be held in the area. This type of resort will bring citizens from all over to enjoy the enjoyment that the resort attraction will bring, in addition to the many other features of the surrounding area.

Wilbur Smith Associates performed final site analysis design, grading design, paving design, the design of the underground stormwater system, the sanitary sewer design, and waterline design.

**Sevierville Events Center Site Development and Engineering Center**  
*Bullock Smith & Partners*

The Sevierville Events Center at Bridgemont is a multimillion dollar facility that houses over 125,000 square feet of exhibit and meeting space. The events center which opened in 2007, offers a world-class multiuse center with extensive amenities to this well-known tourist destination.



The events center's 35-acre site features its own power sub-station and adjacent 264-room hotel and 450-space parking garage. Including the parking garage, more than 1,900 parking spaces serve the facility. The site is adjacent to a major proposed retail area and a 36-hole championship golf course owned by the City of Sevierville. Mass grading on the site required the movement of more than 1,600,000 cubic yards of material during a 9-month time frame. In addition to this massive undertaking, the coordination of utility infrastructure and more than three miles of roadways were designed to access the site.

WSA provided a wide range of site development services for this project including: master planning, surveying, bridge design, site grading, drainage, traffic and roadway design, hydraulics, erosion control, and CEI. Project coordination and construction planning services were also provided. Environmental permitting (including CLOMR for floodway revision), geotechnical investigation, and golf course design were performed in conjunction with other project consultants.



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

# Request for Quotation

RFQ NUMBER  
 DEFK11024

PAGE  
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF  
 TARA LYLE  
 304-558-2544

RFQ COPY  
 TYPE NAME/ADDRESS HERE

Wilbur Smith Associates  
 Geary Plaza, Suite 210  
 700 Washington Street East  
 Charleston, WV 25301

DIV ENGINEERING & FACILITIES  
 ARMORY BOARD SECTION  
 1707 COONSKIN DRIVE  
 CHARLESTON, WV  
 25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/14/2010				

BID OPENING DATE: 01/25/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOF	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL  EXPRESSION OF INTEREST (EOI)  THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, DIVISION OF ENGINEERING & FACILITIES, WV ARMY NATIONAL GUARD, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ARCHITECTURAL ENGINEERING DESIGN SERVICES FOR AN ACCESS ROAD, UTILITY UPGRADES AND ROUGH SITE GRADING TO THE CHARLESTON ARMORY COMPLEX, PER THE FOLLOWING BID REQUIREMENTS AND THE ATTACHED SPECIFICATIONS.  BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.  CANCELLATION THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.  TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO TARA LYLE VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, VIA FAX AT 304-558-4115, OR VIA EMAIL AT TARA.L.LYLE@WV.GOV.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE 304.345.2339	DATE 01/25/11
TITLE Associate-In-Charge	FAX 304-405950	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



## GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at [www.state.wv.us/admin/purchase/vrc/hipaa.htm](http://www.state.wv.us/admin/purchase/vrc/hipaa.htm) and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

---

### INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

RFQ No. DEFK11024

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**West Virginia Code §5A-3-10a states:** 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

**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.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "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 exceeds five percent of the total contract amount.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this 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.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: Wilbur Smith Associates

Authorized Signature: [Signature] Date: 1/25/11

State of West Virginia

County of Kanawha to-wit:

Taken, subscribed, and sworn to before me this 25 day of January, 2011.

My Commission expires March 31, 2020

**AFFIX SEAL HERE**

**NOTARY PUBLIC** [Signature]

