



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 1

List View

General Information

Contact

Default Values

Discount

Document Information

Procurement Folder: 761812

SO Doc Code: CEOI

Procurement Type: Central Purchase Order

SO Dept: 0603

Vendor ID: 000000229419

SO Doc ID: ADJ2100000002

Legal Name: MILLER ENGINEERING INC

Published Date: 7/30/20

Alias/DBA:

Close Date: 8/18/20

Total Bid: \$0.00

Close Time: 13:30

Response Date: 08/18/2020

Status: Closed

Response Time: 9:44

Solicitation Description: Williamstown AASF1- Shower-Restroom Renovation Design

Total of Header Attachments: 1

Total of All Attachments: 1



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

State of West Virginia
Solicitation Response

Proc Folder : 761812

Solicitation Description : Williamstown AASF1- Shower-Restroom Renovation Design

Proc Type : Central Purchase Order

Date issued	Solicitation Closes	Solicitation Response	Version
	2020-08-18 13:30:00	SR 0603 ESR08182000000000997	1

VENDOR

000000229419

MILLER ENGINEERING INC

Solicitation Number: CEOI 0603 ADJ2100000002

Total Bid : \$0.00 Response Date: 2020-08-18 Response Time: 09:44:09

Comments:

FOR INFORMATION CONTACT THE BUYER

Tara Lyle
(304) 558-2544
tara.l.lyle@wv.gov

Signature on File

FEIN #

DATE

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Williamstown AASF1- Shower-Restroom Renovation				\$0.00

Comm Code	Manufacturer	Specification	Model #
81101508			

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



**Expression of Interest
West Virginia – Army National Guard
Williamstown AASF1
Shower Restroom Renovation Design
Williamstown, WV
CEOI ADJ2100000002
August 18, 2020**



**Department of Administration
Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130**

Table of Contents

A Letter from Our Owner

TAB 1:	Firm Qualifications
	Miller Engineering, Inc. Firm Profile
	Craig Miller, PE
	Travis Taylor, PE
	Joseph Machnik
	Eyad Alhalabi
	Montum Architecture Firm Profile
	Tom Pritts, AIA
	Boggs Environmental Consultants
	Mark Boggs
	Richard Robinson
	Gary Morris, MS, CIH, CSP
	William Warfel
	Harold Conway Jr.
	Certifications and Degrees Applicable to This Project
TAB 2:	Project Organization
	Staffing Plan
	Organization Chart
TAB 3:	Experience
	Pipestem Plaza Locker Room
	Old Roman Bathhouse
	Pipestem Sprayground
	Morgantown Airport Terminal
	Camp Dawson FMS4
	Potomac State College
	Wyoming County Schools
	NIH Bethesda Campus
	VA Medical Center Martinsburg, WV
	WVU Health Sciences Center
	Similar Projects Budget Delivery History
	Similar Projects Deadline Delivery History
	References
TAB 4:	Methodology
	Project Approach & Methodology

TAB 5: Project Forms
 Signed EOI Forms
 Purchasing Affidavit

The Miller Engineering Difference



We are very pleased to submit our response for the Williamstown AASF1 Shower/Restroom Renovation Design project. We have elected to submit as prime consultant as we have extensive experience in the design and renovation of bath houses and restrooms. MEI has operated in this role many times before, including on the recent Camp Dawson FMS 4 Fire Protection Project.

We're not your typical MEP firm; we ensure our designs meet very specific, time-tested criteria, including but not limited to being constructible, operable and maintainable. We want to set up our clients to be self-sufficient, but we work to be available every step of the way. Most every project we do has a particular set of standards which we must apply, and this is no exception. We see our diversity of previous work as an advantage as we do not use "cookie cutter" design or presume we have all the answers when we start.

Our hands-on staff takes great pride in their construction and operations backgrounds, which help us visualize the project as it would be built instead of just lines on paper. We don't sit clients down and lecture to them about what they're going to get; we listen to them so we can strive to deliver exactly what they want and need. It costs too much time and money (for both our clients and us) to not deliver exceptional service every single time, and we work tirelessly to keep projects on time and on budget. We're proud to say that our change order percentage over the last 8 years is less than 0.1%, and that's not just a statistic; it's a proclamation of our commitment and determination to make sure things are done right the first time, every time.

Miller Engineering has completed several successful projects for the State of West Virginia in recent years. As pools are a niche the Miller Engineering fills, many of those projects involve the renovation and construction of bathhouses including shower and restroom areas. These areas must meet ADA, building codes, and requirements of the WV Health Department. We have successfully delivered many of these projects including the construction of a new bathhouse and renovation of existing locker / shower areas at Pipestem Resort State Park. To provide architectural support and design services, we have brought along Montum Architecture. We have recently completed the Old Roman Bathhouse renovations at Berkeley Springs State Park with Montum which involved modifying spaces to create an ADA accessible tub room and restroom. To perform any environmental evaluation and analysis related to mold and mildew, Boggs Environmental Consultants will be a valuable team member. The proposed team has successfully delivered many projects together which is a testament to the level of communication and cooperation between team members in addition to an understanding of how design decisions affect other trades.

We encourage you to contact any of our references to gauge our level of commitment, not only through design but continuing through construction administration, and beyond the warranty period.

I would like to personally thank you for affording Miller Engineering the opportunity to propose on the Williamstown AASF1 Shower/Restroom Renovation Design project and we look forward to the chance to discuss the project in an interview.

Best Regards and Good Luck on the Project,

A handwritten signature in blue ink, appearing to read 'Craig Miller', with a long horizontal flourish extending to the right.

Craig Miller, PE
President/Owner
Miller Engineering, Inc.



TAB 1 –FIRM QUALIFICATIONS





Firm Profile

MILLER ENGINEERING is a solely held (S) corporation owned by Craig Miller PE, President. The corporation maintains a Certificate of Authority with the WV State PE Board and has carried professional liability insurance since its inception. Neither the firm nor its professional engineers have ever faced disciplinary action in any form from the states in which they are registered.

Our engineered solutions involve a detailed assessment process: investigation, observation, communication with stakeholders, system analysis, building modeling and engagement from our entire team. We approach each and every project with this process and the guiding principle that buildings are designed to be livable and function in their intended purpose.

Over the past 17 years Miller Engineering, Inc. (MEI) has engineered solutions for over \$23.2M in MEP system upgrades, repairs and renovations for projects of all scopes and sizes, with clients ranging from private owners to local and state governments. With a strict attention to detail and commitment to delivering a job done well and done right the first time, every time, **MEI has accumulated a change order percentage of less than 0.1% over the past 8 years.**

Our team has unique skill-sets regarding engineered renovation solutions. Each member of the team has hands-on mechanical system experience including installation, construction, design and maintenance.

Miller Engineering takes pride in being **different by design**, and that difference shines through in all phases of our work and continued relationships with our clients.

- Experienced and Licensed Professional Engineers
- Quality, Value-Engineered Project Delivery
- Qualified Construction Representative on Staff
 - LEED-AP Certified
- Below Industry Change Order Status
 - Building Information Modeling
 - Emergency Facility Response

Engineering Design and Consultation

- Mechanical
- Electrical
- Plumbing
- HVAC Design
- Renovation
- New Construction
- Building Information Modeling

Aquatic Facility Design

Public Pools & Areas
ADA Compliance
Indoor & Outdoor (air flow)
Chlorination/Filtration

Construction Administration

Maintenance/Facility Improvement Plans
Contract Administration
Code Observation

Communication System

Intercomm & Public Address
Voice/Data/CATV
Urgent Response

Energy

Power Supply (main & backup)
Green & Renewable Consulting
Systems Utilization & Upgrades
Sustainable Solutions

Facility Utilization

Systems Assessment & Solutions
Adaptive Re-use
Planning/Life-Cycle Control
Engineered Replacement

Life Safety Inspection/Design

Fire Protection & Alarm Systems
Access Control
Fire & Electrical Investigation

Industry Experience

Education
Local & State Government
Commercial Development
Healthcare





B. Craig Miller, PE

Craig founded Miller Engineering in 2003, and serves as President and Principal Engineer. He has more than 20 years experience in design, specification, operations and project management. During his employment with WVU, Craig was directly involved with approximately \$130 million in new capital construction. His experience with a wide range of projects including HVAC, electrical, plumbing, infrastructure upgrades, building automation, energy efficiency and maintenance/renovation, among others, allows him to serve in multiple capacities within a given project. Craig will serve as the "Relationship

Manager" for Miller Engineering as the main communication interface between the Owner, the design team, contractors and end users.

Project Role: Relationship Manager – Primary Point of Contact

- *Engineer in Responsible Charge*
- *Design and Project Management of Mechanical, Electrical, Plumbing Projects*
- *Concept and Construction Design*
- *Business Operations and Financial Management Oversight*
- *Quality Assurance and Control*

Professional Project Highlights

- Morgantown High School Area 4 HVAC Renovations
- WVU Life Sciences Building and Student Recreation Center – Owner's Engineer
- Hawks Nest/Twin Falls HVAC
- Mapletown High School HVAC Replacement Phase I & II
- Advanced Surgical Hospital
- Pipestem McKeever Lodge HVAC Piping Replacement
- Beech Fork State Park – MEP New Construction Design
- Cheat Lake Elementary & Middle School Renovations

Professional History

2003- Present	Miller Engineering, Inc.	President, Relationship Manager
2002-2003	Casto Technical Services	Existing Building Services Staff Engineer
2001-2002	Uniontown Hospital	Supervisor of Engineering
1995-2001	West Virginia University	Staff Engineer
1990-1995	BOPARC	Caretaker – Krepps Park
1983-1988	University of Charleston	Electrician/HVAC Mechanic

Education

1995	West Virginia University	BS- Mechanical Engineering
1988	University of Charleston	BA- Mass Communications

Licenses and Certifications

- Professional Engineer (West Virginia, Pennsylvania, Maryland, and Ohio)
- Licensed Master Plumber
- LEED-AP Certified



Travis Taylor, PE

Experience in project management facilitates Travis's ability to create and design constructible projects. Prior to joining the Miller Engineering team he was directly responsible for managing \$10 million in electrical construction budgets. His experiences encompass both new construction and renovation. Travis maintains professional competencies by attending seminars and continuing education classes. These include local ASHRAE classes in addition to classes on electrical systems, and also steam systems through Shippenburg Pump Company. As lead engineer he provides HVAC, mechanical, plumbing, and electrical design solutions and services for our clients. In addition, he is part of our team's complete assessment process in both planning and MEP design through construction administration.

Project Role: Lead MEP Engineer

- *Design of Mechanical, Electrical, and Plumbing Systems*
- *Building Information Modeling - Revit*
- *Constructible Materials Evaluation*
- *Site Evaluation and Mechanical System Review*
- *Submittal and RFP Review*
- *RFI Coordination, Review, and Response*
- *Construction Observation*

Professional Project Highlights

- Blackwater Falls Lodge Boiler Replacement
- Berkeley Springs Old Roman Bathhouse
- Camp Dawson FMS4 Fire Protection
- WV State Building 22 2nd Floor Renovations
- WV State Building 25 HVAC Piping Replacement
- Morgantown High School Area 4 HVAC Renovation
- Bobtown Elementary School HVAC Upgrades
- Holly River State Park Primary Electric Service Replacements Phase I & II
- Pipestem Lodge McKeever Lodge

Professional History

2011-Present	Miller Engineering, Inc.	Staff Engineer
2006-2011	Tri-County Electric, Co.	Project Manager
2006-2006	Schlumberger	Field Engineer Trainee - MWD

Education

2006 West Virginia University, BS – Mechanical Engineering

Licenses and Certifications

- Professional Engineer - State of West Virginia
- OSHA 10-hour Course: Construction Safety & Health



Joseph Machnik

Joe has experience with AutoCAD, MEP and Revit MEP. He provides design modeling, drafting and supervised design services and construction support for Miller Engineering.

Project Role: MEP Designer

- *Revit/CADD Coordination of New Construction and Renovation Designs*
- *Building Information Modeling Specialist*

Professional Project Highlights

- Bobtown Elementary HVAC
- WV State Building 25 HVAC Piping Replacement
- Blackwater Falls Boiler Replacement
- Suncrest Middle Gym HVAC
- North Elementary Gym HVAC
- Graftek Steam Systems Evaluations and Modifications
- WV State Building 25 HVAC Piping
- Pipestem Lodge HVAC Piping Replacement
- Westwood Middle Cooling Tower

Professional History

2010 – Present Miller Engineering, Inc. MEP Designer

Education

2008 Penn State – Fayette, AS - Building Engineering Systems Technology: *Building Environmental Systems Technology*

2007 Penn State – Fayette, AS - Building Engineering Systems Technology: *Architectural Engineering Technology*

Additional Training

2016 – Shippenburg Pump Company – Steam Systems Training



Eyad Alhalabi

Eyad joined Miller Engineering in June 2019. A recent graduate of West Virginia University, he has been eager to learn the means and methods of MEP consulting. Eyad assists the MEP design team with design calculations and is rapidly learning design software such as Autodesk REVIT. He is also learning construction administrations along with building codes and standards. Eyad is currently preparing to take the Fundamentals of Engineering exam.

Project Role: Junior Engineer

- *Design Calculations*
- *Drafting of MEP Systems*
- *Assist with Construction Administration*

Professional Project Highlights

- Morgantown ALC
- WVDA Ripley Warehouse Electrical Upgrades
- Huntington 8th & 10th Street Pump Stations
- Huntington Floodwall Pump Station Automation
- Hawks Nest Lodge
- Blackwater Falls Lodge

Professional History

2019- Present Miller Engineering, Inc. Junior Engineer

Education

2019 West Virginia University, BS - Mechanical Engineering

Licenses and Certifications

- ASHRAE Student Member



Montum Architecture

Montum Architecture, LLC was founded in 2017 to provide architectural design services to clients in West Virginia and western Maryland. Staff includes one licensed architect performing all tasks and duties. This ensures the utmost coordination of building plans and specifications with minimal potential for miscommunication.

Legal Organization

Montum Architecture is a Limited Liability Corporation initially filed in the State of West Virginia. The company is also registered in the State of Maryland as a foreign LCC.

Communication

Tom Pritts will be the primary point of contact for Montum's architectural services. Montum will manage communications with sub-consultants on this project.

Project Budget

Previous work experience has shown a consistent +/-2% bid-to-budget ratio.

Project Schedule

Montum will monitor and adjust the design tasks in order to complete the design work on the established timetables. They will also work diligently during project construction to maintain the contractual constraints placed as part of the contractor's bid.

Design Software

Montum utilizes Autodesk Revit for all design projects incorporating three-dimensional modeling and parametric reporting.



Thomas Pritts, AIA, LEED-AP, CSI-CCS

Tom founded Montum Architecture in 2017. He has more than 15 years experience in design, specification, and project management. During his former employment, Tom has designed and managed dozens of built projects. His experience encompasses a wide range of projects including K-12 and higher education facilities, financial Institutions, emergency services buildings, and automotive dealerships. A native of Mineral County, Tom is member of the West Virginia Chapter of American Institute of Architects and was involved in the establishment of the US Green Building Council's West Virginia chapter. He is highly skilled in the design of complex building systems, technical construction detailing and specifying, and construction contract administration. These skills were critical in the development and maintaining of many multi-year, multi-project relationships with Clients in his previous employment.

Project Role: Relationship Manager – Primary Point of Contact

- Principal in Charge
- Design and Project Management
- Concept and Construction Design
- Quality Assurance and Control

Professional History

2017- Present	Montum Architecture	Architect
2004-2017	Alpha Associates	Associate and Architect
2003	Marshall Craft Associates	Architectural Intern

Education

2004	Virginia Tech	Bachelors of Architecture
------	---------------	---------------------------

Licenses and Certifications

- Licensed Architect (West Virginia, Maryland)
- NCARB Certificate
- Construction Specifier Institute – Certified Construction Specifier
- LEED-AP Certified
- Part 107 Remote Pilot
- 30-hour OSHA Card

Associations and Memberships

- American Institute of Architects
- Mineral County Chamber of Commerce – 1st Vice President

Professional Project Highlights

- Potomac State College – Bachelor of Nursing Renovation
- Wyoming East High School HVAC Renovation – Wyoming County Schools, WV
- Mountainview and MTEC HVAC Renovation – Monongalia County Schools, WV
- Berkeley Springs State Park – Pool Bathhouse Roof Replacement
- Berkeley Springs State Park – Old Roman Bath Renovation
- Blackwater Falls State Park – Boiler Room Renovation
- Our Lady of the Mountains Parish – Bathroom Renovation
- Mountain View Assembly of God – Rec Hall Ceiling Design

Professional Project Highlights (former employment built projects)



- Potomac State College – ADA Connector Building, Church-McKee Plaza, Shipper Library Façade
- WVU Engineering Sciences Building – East Wing Addition, 10th Floor Fit-Out, Basement Renovation
- WVU Engineering Research Building – G07 & G08 Renovation
- WVU Equine Education Center
- WVU College of Physical Activities and Sports Sciences/ Student Health Center
- WVU Center for Alternative Fuel Engines and Emissions
- WVU Colson Hall Water Infiltration Repairs
- WVU Mountainlair Water Infiltration Repairs
- WVU Chemistry Research Laboratories Fit-Out
- WVU Creative Arts Center Wheelchair Lift
- Alderson Broaddus University – Pyles Arena Deck Replacement
- Glenville State College – Morris Stadium Skybox
- Washington High School, Jefferson County Schools, WV
- Pineville Elementary School, Wyoming County Schools, WV
- Huff Consolidated School, Wyoming County Schools, WV
- Aurora School Addition, Preston County Schools, WV
- Riverview High Field House Design-Build, McDowell County Schools, WV
- Safe School Entries, Monongalia County Schools, WV
- Morgantown High Elevator, Monongalia County Schools, WV
- 2010 Comprehensive Education Facilities Plan- Monongalia County Schools, Wyoming County Schools
- Clear Mountain Bank Branches, Oakland, MD - Reedsville, WV - Kroger-Sabraton, WV
- Grant County Bank, Petersburg, WV
- Fairmont Federal Credit Union, Bridgeport, WV
- Freedom Ford, Kia, and Volkswagen Automotive Dealerships, Morgantown and Clarksburg, WV
- Jenkins Subaru Addition, Bridgeport, WV
- Elkins Fordland Renovation - Elkins Chrysler Dealership, Elkins, WV
- Harry Green Nissan Design-Build, Clarksburg, WV
- Cool Green Automotive Addition and Renovation, Shepherdstown, WV
- Veteran's Affairs – OI&T Office Fit-Out, Shepherdstown, WV
- OPM, Eastern Management Development Center Addition, Shepherdstown, WV
- National Energy Technology Laboratory – Building B-8 Roof Replacement, Morgantown, WV
- US Coast Guard – Conference Room Renovation, Martinsburg, WV
- Eastern Panhandle Transit Authority Addition, Martinsburg, WV
- Cacapon State Park – Old Inn HVAC and Interior Renovation
- WV National Guard - Armory Office Fit-out, Parkersburg, WV
- South Berkeley Fire Station, Inwood, WV
- Jefferson County Emergency Services Agency – New Headquarters
- Berkeley County Ambulance Authority – South Station Renovation and Addition
- Poolhouse Renovation, McMechen, WV
- Community Center, Ridgeley, WV
- Wastewater Treatment Plant Renovations, Martinsburg, WV
- Public Works Building, Fairmont, WV
- Oatesdale Park Little League Fields, Martinsburg, WV
- St. Luke Canopy Replacement, Morgantown, WV
- Freshwater Institute – Aquaculture Building, Shepherdstown, WV
- Clarion Hotel Renovation, Shepherdstown, WV
- Shenandoah Village Apartments – Façade and Deck Replacement, Martinsburg, WV
- Regional Eye Associates/ Surgical Eye Center, Morgantown, WV
- Bavarian Inn – Infinity Pool/ Pool Bar, Shepherdstown, WV



BOGGS
ENVIRONMENTAL CONSULTANTS

Middletown, MD - Morgantown, WV
Main Office – 200 W Main Street, Middletown, MD 21769
Tel: (301) 694-5687 - Fax: (301) 694-9799

COMPANY PROFILE

BOGGS ENVIRONMENTAL CONSULTANTS, INC. (BEC) is a highly technical environmental science and engineering & industrial hygiene professional consulting firm. BEC is an independent certified small business. BEC has been providing our services to such diverse clients as banking institutions, hospitals, colleges, public housing authorities, legal firms, architects, county and city governments, industrial manufacturing companies, armed forces bases, federal institutions, etc. since 1990.

BEC specializes in hazardous materials (eg. asbestos, lead, polychlorinated biphenyl-containing materials, etc.) surveys, development of abatement and operations/management plans, pre-Contract Award services (i.e., ITB/Form of Proposal document generation, contractor pre-qualification, pre-proposal conferences, Bid responsiveness/cost tabulations, etc) and Contract Administration during abatement projects (submittal review/onsite environmental testing and work area inspections).

BEC possesses extensive experience in performing real property and building condition assessments typically conducted during not only “due diligence” study periods associated with real property deed transfer and/or purchase; Environmental Site Assessments (Phase I, II, & III) but also generation of follow-up Site Characterization Reports and Corrective Action Plans (aka Remedial Investigation/Feasibility Study), which in many instances foster (permit) placement of adversely-affected property into the Federal “Brownfields Redevelopment” program.

Additional services include, but are not limited to, the following specialized work: Environmental Compliance Audits; Industrial Wastewater treatment/pretreatment process evaluation; Hydrogeological (groundwater and subsurface soils) investigations; Ecological (wetlands) studies; Workplace Safety audits/risk assessment studies; etc.

BEC is comprised of a diverse group of professional environmental science/engineering and industrial hygiene professionals. Our President/CEO has over thirty-four (34) years of experience in the industry with a strong environmental science background. Essential staff members are Chemists, Mechanical Engineers, Chemical Engineers, Master of Science degree level Environmental Health & Safety, and Ph.D. level Certified Industrial Hygienist and Toxicologist. Continuing education and technical training certificates are numerous. BEC not only has the ability to study a problem, but also the expertise to find a solution. Additionally, BEC is cognizant of the requirement to integrate effective quality technical environmental procedures with everyday common sense business decisions.

BEC is staffed with over sixteen (16) seasoned professionals. Our central Maryland office location provides for a quick response to not only our clients needs whom are located in the metropolitan areas of Baltimore, Maryland and Washington, D.C. but also Pennsylvania, West Virginia, northern Virginia, and western Maryland. Our Morgantown, WV office serves the balance of West Virginia, southeastern and central Ohio, southern, and northeastern Kentucky.

ENVIRONMENTAL SCIENCE, ENGINEERING & INDUSTRIAL HYGIENE SERVICES

BEC RISK MANAGEMENT PROGRAM

Beazley Insurance Company, Inc., which has an AM Best Rating of A (Excellent), Financial Size Category XIV (\$1.5 Billion to \$2 Billion) provides the following insurance coverages:

Primary coverage limits are as follows:

- Comprehensive commercial general liability (CGL) with limits of \$ 1,000,000 per occurrence and \$ 2,000,000 per project aggregate for bodily injury and property damage;
- Secondary coverage limit is provided through our Umbrella Liability of \$3,000,000 policy, which is excess to and follows form of the CGL.
- Professional Liability (Errors & Omission) coverage of \$1,000,000 on an occurrence basis
- Pollution Liability coverage of \$1,000,000 on an occurrence basis.

Travelers Casualty and Surety Company (Travelers), which has an AM Best Rating of A++ (Superior) provides the following insurance policies:

- Automobile Liability with limits of \$1,000,000 combined single limits for bodily injury and property damage
- Travelers provides carries our Workers Compensation Part “A” - statutory limits and Part “B” Employers’ Liability of \$1,000,000

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS OF EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Mark A. Boggs	Principal; Environmental Hazards Evaluation	31	27

15. FIRM NAME AND LOCATION (City and State)

Boggs Environmental Consultants, Inc.



16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
<ul style="list-style-type: none"> West Virginia University Morgantown, West Virginia BS/1985/Chemistry 	<ul style="list-style-type: none"> WV, Asbestos Clearance Air Monitor; License [REDACTED] WV, Asbestos Project Designer; License [REDACTED] WV, Lead Project Designer; License [REDACTED] WV, Lead Inspector; License [REDACTED] WV, Lead Risk Assessor; License # [REDACTED] Virginia, Lead Project Designer; License [REDACTED] District of Columbia, Lead Risk Assessor; License # [REDACTED] District of Columbia, Lead Project Designer; License [REDACTED] MD, Lead Risk Assessor; License [REDACTED] US OSHA 40 Hour Hazardous Waste & Emergency Response 2001 US EPA AHERA Asbestos Project Designer; Certificate [REDACTED] US EPA AHERA Asbestos Project Supervisor; 1987 NIOSH 582 Airborne Asbestos Sampling & Evaluation Techniques; 1987 US EPA Lead Abatement Project Designer; Certificate [REDACTED] US EPA Lead Abatement Project Supervisor; Certificate [REDACTED] US EPA Lead Hazard Inspector Technician; Certificate [REDACTED] US EPA Lead Hazard Risk Assessor; Certificate # [REDACTED] US MSHA Mine Dust Air Sampling and Evaluation; 1999 US MSHA Mine Noise Sampling and Evaluation; 1999 US MSHA Air & Noise Equipment Maintenance and Calibration; 1999 Registered Indoor Air Quality Manager (RIAQM [REDACTED]), Environmental Education Foundation, 2005 Registered Mold Inspector (RMI [REDACTED]) Environmental Education Foundation, 2005 Registered Mold Remediation Contractor Manager (RMRCM [REDACTED]) Environmental Education Foundation, 2005

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

BASIS FOR SELECTION

- Senior Environmental Scientist; 31 years experience in all facets of Site Assessments & Corrective Action Plans
- Extensive experience in Contract Document (Specification/Drawings) development & Contract Administration
- Extensive experience in highly sensitive, complex programmatic work environments

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	USDA Building 374 – Phase 1 - 4 Modernization Foreign Disease Weed Science Greenhouse and Headhouse USAG -Ft. Detrick, Frederick, Maryland	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2009	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	BEC's principal environmental scientist responsible for development of investigative strategies and supervision of BEC staff conducting hazardous materials investigations (and determining their impact) to the extensive modernization of unique P-3 biocontainment research laboratory facility. BEC performs these services as 1 st Tier subconsultant to Merrick & Company of Denver, Colorado (USDA ARS Prime Contractor). BEC Total Fees To-Date: \$114,700,00		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	US DHHS - NATIONAL INSTITUTES OF HEALTH 9000 Wisconsin Avenue Bethesda, Maryland	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		2006	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	BEC's principal environmental scientist responsible for development of investigative strategies and supervision of BEC staff conducting hazardous materials investigations (and determining their impact) to campus-wide building modernization projects. BEC has been supporting the NIH capital improvement projects (CIP) program on an on-going basis, since 2006. These CIP programs require relocation of NIH staff and facilities to swing space to accommodate not only comprehensive but also select building area(s) renovation projects. These modernization projects include wholesale and partial demolition of building space for complete retrofit to facilitate mechanical/electrical/plumbing (MEP) upgrades, architectural and functional space use re-design, life-safety upgrades, etc		
	BEC staff have completed to date- 138 projects within 36 NIH buildings, as a sub-consultant to ACM Services, Chugach WSI, and KIC Development, each as the Prime Contractors, to US DHHS NIH, whom are responsible for completing campus-wide modernization projects at both the Bethesda Main Campus and Poolesville- Animal Research Facility.		
	BEC Total Fees To-Date: \$182,900.00		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS OF EXPERIENCE	
Richard C. Robinson	Principal; Environmental Hazards Evaluation	a. TOTAL 10	b. WITH CURRENT FIRM 9

15. FIRM NAME AND LOCATION (City and State)

Boggs Environmental Consultants, Inc.



BOGGS
ENVIRONMENTAL CONSULTANTS

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
<ul style="list-style-type: none"> Shepherd University Shepherdstown, West Virginia BA/2007/Environmental Science Resource Management 	<ul style="list-style-type: none"> NIOSH 582 Collecting & Analyzing Air Samples, 2007 US EPA AHERA Asbestos Inspector, Certificate [REDACTED] US EPA AHERA Project Designer, Certificate # [REDACTED] WV, Asbestos Inspector, License [REDACTED] WV, Asbestos Project Designer, License [REDACTED] VA, Asbestos Inspector, License [REDACTED] VA, Asbestos Project Designer, License [REDACTED] WV, Air Clearance Monitor, Certificate [REDACTED] American Red Cross, Adult and Pediatric First Aid/CPR/AED EM 385-1-1 (40 Hours) US Army Corps of Engineers, Safety and Occupational Health Training, 2014 US OSHA Fall Protection Training, 2014 US OSHA Confined Space Entry Training, 2010 US OSHA Hazardous Communication Training US OSHA Respiratory Protection Training, 2014 ANSI/SIA, Aerial Work Platform Training, 2014 DSS, Operations Security Awareness Training

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)


BASIS FOR SELECTION


- Senior Environmental Scientist; 9 years experience in all facets of Site Assessments & Corrective Action Plans
- Extensive experience in Contract Document (Specification/Drawings) development & Contract Administration
- Extensive experience in secure government facility work environments

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a.	Department of Veteran Affairs, Martinsburg, West Virginia	2009-Ongoing	TBD
	[X] Check if project performed with current firm		
	Comprehensive visual inspection and testing to determine the presence of asbestos, LBP, mercury, PCBs and prepare specifications and drawings for their safe removal prior to renovation of individual WWII era buildings located on the grounds of the Veterans Affairs Medical Center; ~66 buildings situated throughout the 180 acre campus. Abatement contractor submittals review and onsite project monitoring- regulated access work area visual inspections and environmental testing- is performed during subsequent hazardous materials abatement projects. All services are provided via a multiple year contract vehicle issued by the Veterans Administration directly to BEC		
b.	Raven Rock Mountain Complex, Adams County, Pennsylvania	2012	On-going
	[X] Check if project performed with current firm		
	Comprehensive visual inspection and testing to determine the presence of asbestos, LBP, mercury, PCBs and prepare specifications and drawings for their safe removal prior to renovation of certain areas of the Korean War era building located within the underground complex; a man-made cave. Abatement contractor submittals review and onsite project monitoring- regulated access work area visual inspections and environmental testing- is performed during subsequent hazardous materials abatement projects. All services performed under subcontract to various prime contractors: Frazier Engineering, Patner Construction, etc.		
c.	Naval Support Activity, Mechanicsburg, Pennsylvania	2014	NA
	[X] Check if project performed with current firm		
	Comprehensive visual inspection and testing to determine the presence of asbestos, LBP, mercury, PCBs and preparation of abatement specifications and drawings to govern their safe removal prior to renovation of Building #407; a former pre-WWII aircraft assembly building (~120,000 gsf). Abatement contractor submittals review and onsite regulated access work area visual inspections and environmental testing was performed during subsequent abatement work- which was completed prior to commencing renovation work. All services performed under subcontract to EBA Enterprises; prime contractor to NAVFAC.		


E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS OF EXPERIENCE	
Gary Morris, MS, CIH, CSP		Hazardous Materials Control – Operations Director		a. TOTAL 29	b. WITH CURRENT FIRM 10
15. FIRM NAME AND LOCATION (City and State)					
Boggs Environmental Consultants, Inc.					
16. EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)			
<ul style="list-style-type: none"> West Virginia University Morgantown, West Virginia MS/1987/Occupational Health and Safety Fairmont State College Fairmont, West Virginia BS/1985/Biology 		<ul style="list-style-type: none"> Certified Industrial Hygienist (CIH), 1991 American Board of Industrial Hygiene, Certificate #5386 Certified Safety Professional (CSP), 1997 Board of Safety Professionals, Serial [REDACTED] US EPA AHERA Asbestos Inspector US EPA AHERA Asbestos Management Planner US EPA / US HUD Lead-Based Paint Inspector 			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
<p>"Safety Management Handbook", "Health and Safety Auditing", CCH Incorporated, May 2002</p> <p>"Principals and Methods of Toxicology", 4th Edition, "Solvents and Industrial Hygiene". Edited by A. Wallace Hayes.</p> <p>"Confined Space Instrumentation", <u>Waterworld Digest</u>, January 2002</p> <p>"Environmental, Health and Safety Auditing", <u>Industrial Hygiene and Safety News</u>, September 2001.</p> <p>"Microbial Contaminants of Eyewash Stations", <u>ATCC Quarterly Newsletter</u>, Volume 10, Number 1, 1990.</p> <p>"Isolation of Amoebae and <i>Pseudomonas</i> and <i>Legionella</i> spp. from Eyewash Stations", <u>Applied and Environmental Microbiology</u>, January 1991. p. 16.</p> <p>American Industrial Hygiene Association, Member</p> <p>American Society of Safety Engineers, Member</p>					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Washington Hospital Center, Washington, DC Environmental Health & Safety Support Services		PROFESSIONAL SERVICES		CONSTRUCTION (If Applicable)	
		2009-Present			
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm			
a. Provide a variety of environmental, health and safety support services including industrial hygiene exposure assessments in the Anatomical and Pathology Laboratory, Morgue and Print Services, training (bloodborne pathogens, respiratory protection, formaldehyde awareness, and chemical hygiene), pre-CAP (College of American Pathologists) safety audits of the Anatomical and Pathology Laboratory, indoor air quality assessments, asbestos surveys, and Tier II and Homeland Security CFATS assessments and reporting.					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Georgetown University Hospital, Washington, DC Environmental Health & Safety Support Services		PROFESSIONAL SERVICES		CONSTRUCTION (If Applicable)	
		2004-2007			
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm			
b. Provide a variety of environmental, health and safety support services including industrial hygiene exposure assessments in Surgical Pathology, Cytology, Histology, and the Morgue, indoor quality assessments, chemical fume hood performance evaluations, and operating room anesthetic gas hazard evaluations exposure assessments.					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Howard University, Washington, DC Environmental Health & Safety Support Services		PROFESSIONAL SERVICES		CONSTRUCTION (If Applicable)	
		2002-Present			
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm			
c. Provide a variety of environmental, health and safety support services including industrial hygiene exposure assessments, chemical fume hood performance evaluations (220 fume hoods annually), OSHA injury/illness recordkeeping and reporting, health hazard assessments, training (bloodborne pathogens exposure control, chemical hygiene, spill response and asbestos awareness), Homeland Security CFATS assessment and reporting.					

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT			
12. NAME		13. ROLE IN THIS CONTRACT	
William R. Warfel		Principal Environmental Scientist	
		14. YEARS OF EXPERIENCE	
		a TOTAL	b WITH CURRENT FIRM
		27	2
15. FIRM NAME AND LOCATION (City and State)			
Boggs Environmental Consultants, Inc. Middletown, MD		 BOGGS ENVIRONMENTAL CONSULTANTS	
16. EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
<ul style="list-style-type: none"> University of Utah Salt Lake City, Utah 1977-1980 B.S. Park Planning & Resource Management 		<ul style="list-style-type: none"> State of WV Licensed Remediation Specialist US EPA AHERA Asbestos Inspector US EPA AHERA Asbestos Management Planner USEPA AHERA Asbestos Project Designer State of WV Licensed Asbestos Inspector State of WV Licensed Asbestos Management Planner State of Maryland Licensed Asbestos Inspector State of Maryland Licensed Asbestos Management Planner Virginia Licensed Asbestos Inspector Virginia Licensed Asbestos Management Planner Virginia Licensed Asbestos Project Designer 	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
<ul style="list-style-type: none"> 1989/Jurisdictional Delineation of Wetlands in the Mid-Atlantic States 1989/OSHA 40-Hour Health & Safety Training (yearly updates) 1991/ OSHA 8-Hour Hazardous Waste Site Supervisor 2005/Project Manager Training 			
BASIS FOR SELECTION			
<ul style="list-style-type: none"> Broad sense of environmental assessment and investigation techniques used to evaluate environmental and industrial hygiene conditions and to identify potential liabilities. 			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
Rails to Trail Project, Town of Bath (Berkeley Springs), West Virginia		2015	2016
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
a.	As a project Manager and WV Licensed Remediation Specialist, Mr. Warfel prepared a Phase I Environmental Site Assessment for a terminus of a Rail to Trails system that is planned in a former railroad yard in Berkeley Springs, WV. The scope of work for the project included the conduct of a Phase I Environmental Site Assessment in accordance with ASTM E-1527-13 Standard as well as reviewing prior environmental assessments and subsurface investigations to evaluate the presence of arsenic, volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) in soil and groundwater that exceeded WV De-minimis Standards established by the West Virginia Department of Environmental Protection (WVDEP). Mr. Warfel also assisted the Town of Bath with their application into the West Virginia Voluntary Remediation Program.		
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
Numerous ESAs for Commercial & Industrial Clients for URS Corporation, Throughout United States		1989	2014
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm	
b.	As Site Assessment Team leader, Mr. Warfel lead a group of 5-8 environmental scientist conducting environmental due diligence investigations, environmental compliance audits, Phase II ESAs, and hazardous materials surveys. He has conducted and managed hundreds of ESAs that include the evaluation of the presence or absence of environmental conditions. Mr. Warfel conducted sampling of dust and residues on heating, ventilation, and air conditioning (HVAC) equipment to evaluate the presence of fungi and bacteria including legionella. Concentrations of fungi and bacteria were compared to industrial hygiene accepted concentrations to evaluate the significance of detected concentrations. Mr. Warfel has also managed numerous Phase II ESAs that included the detailed delineations of subsurface impacts (both lateral and vertical) as a result of releases of hazardous substances or petroleum products for the design and evaluation of remedial options. He has conducted numerous compliance audits of environmental regulated activities such as RCRA hazardous waste, treatment storage and disposal facilities (TSDFs), wastewater treatment ponds, NPDES permits (discharges to surface water), air emissions, USTs, SARA Title III notifications, and industrial wastewater discharges to local POTWs to identify and evaluate compliance status with permits and/or Federal, State, or local environmental regulations.		
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
Cityline Partners, LLC, - Pre Demolition Surveys and Abatement of Hazardous Materials in Office Buildings, McLean, VA		1991	2016
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	As a project manager, Mr. Warfel has managed the environmental services for two large business parks near Tysons Corner, VA. Environmental services include pre-demolition surveys and project designs for the abatement of hazardous materials at 15 buildings that were demolished for future development of high-rise commercial and residential structures adjacent to the McLean Metro (light rail) stop in McLean, VA. Comprehensive surveys and visual inspection and testing was conducted to evaluate the presence and extent asbestos containing material, mercury, PCBs and petroleum products. Once identified, Mr. Warfel prepared specifications for the safe removal and/or abatement of hazardous materials prior to the demolition of the buildings.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS OF EXPERIENCE	
Harold Dean Conway Jr.	Environmental Specialist	a. TOTAL	b. WITH CURRENT FIRM
		28	6

15. FIRM NAME AND LOCATION (City and State)	
Boggs Environmental Consultants, Inc.	

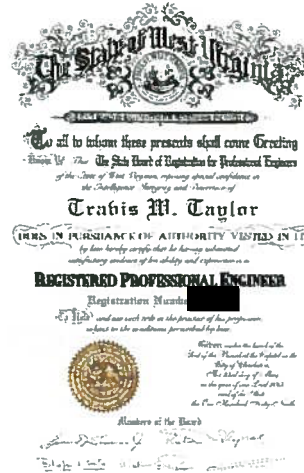
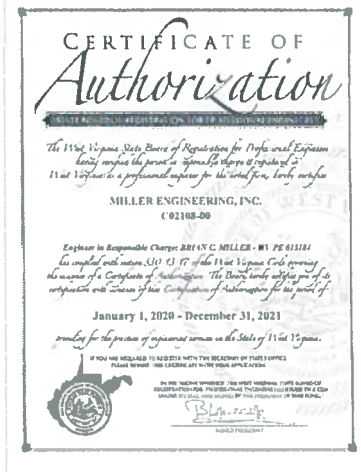
16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
<ul style="list-style-type: none"> ■ Pennsylvania State University - DuBois Dubois, Pennsylvania 1983, Automated Computer Drafting and Design (120 hrs) 1985, Basic Geology (60 hrs) 	<ul style="list-style-type: none"> ■ 1998/NIOSH 582 Collecting & Analyzing Air Samples, ITC #120372 ■ US EPA AHERA Asbestos Inspector, License #16-AI-00501 ■ US EPA/US HUD, Lead Risk Assessor, License #64664 ■ US EPA "Microscopic Identification of Asbestos", McCrone Research Institute -February 2003 ■ STATE OF WV, Air Clearance Monitor, License #AA002451 ■ STATE OF WV, Lead Inspector, License #PI000571 ■ STATE OF WV, Lead Risk Assessor #PA000341 ■ STATE OF OHIO, Asbestos Hazard Abatement Air Monitoring Technician ■ DISTRICT OF COLUMBIA, Lead Risk Assessor, License #DC16-8113 ■ 2010 US OSHA Confined Space Entry Training ■ STATE OF VA, Asbestos Project Monitor, License #PMR16-008 ■ OSHA Hazardous Waste and Emergency Response, License #256118 ■ STATE OF PA, Asbestos Inspector, License #051567 ■ OSHA 30-Hour Construction Health and Safety

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

BASIS FOR SELECTION
<ul style="list-style-type: none"> ■ Highly technical and experienced hazardous materials investigator, remedial action designer, and onsite project monitor

19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	USDA Fort Detrick, Frederick, Maryland	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
		2009	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Comprehensive survey (visual inspection and testing) to determine the presence of hazardous building materials (asbestos, LBP, mercury, PCBs) and design (preparation of abatement specifications and drawings) their safe removal prior to renovation of Building #374 (~ 18,412 gsf); a Korean War era agricultural research facility equipped with bio-containments. Contract Administration (abatement contractor submittals review) and onsite industrial hygiene services (project monitoring- regulated access work area visual inspections and environmental testing) was performed during subsequent hazardous materials abatement work- which was completed prior to Building #374 renovation work. All services performed under subcontract to Merrick & Company; prime consultant to USDA ARS.			
b.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Department of Veteran Affairs, Martinsburg, West Virginia	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
		2012	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Comprehensive visual inspection and testing to determine the presence of asbestos, LBP, mercury, PCBs and prepare specifications and drawings for their safe removal prior to renovation of individual WWII era buildings located on the grounds of the Veterans Affairs Medical Center; ~66 buildings situated throughout the 180 acre campus. Abatement contractor submittals review and onsite project monitoring- regulated access work area visual inspections and environmental testing- is performed during subsequent hazardous materials abatement projects. All services are provided via a multiple year IDQ/IDC contract vehicle issued by the Veterans Administration directly to BEC			
c.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	US Naval Support Activity, NAVFAC, Mechanicsburg, Pennsylvania	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
		2013	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Comprehensive visual inspection and testing to determine the presence of asbestos, LBP, mercury, PCBs and preparation of abatement specifications and drawings to govern their safe removal prior to renovation of Building #407; a former pre-WWII aircraft assembly building (~120,000 gsf). Abatement contractor submittals review and onsite regulated access work area visual inspections and environmental testing was performed during subsequent abatement work- which was completed prior to commencing renovation work. All services performed under subcontract to EBA Enterprises; prime contractor to NAVFAC.			

Staff – Proposed Staffing Plan





TAB 2 – PROJECT ORGANIZATON



MILLER ENGINEERING

<u>Craig Miller, PE</u>	President, Principal in Charge
<u>Travis Taylor, PE</u>	Lead MEP Engineer
<u>Joseph Machnik</u>	Designer / BIM Coordinator
<u>Eyad Alhalabi</u>	Junior Engineer

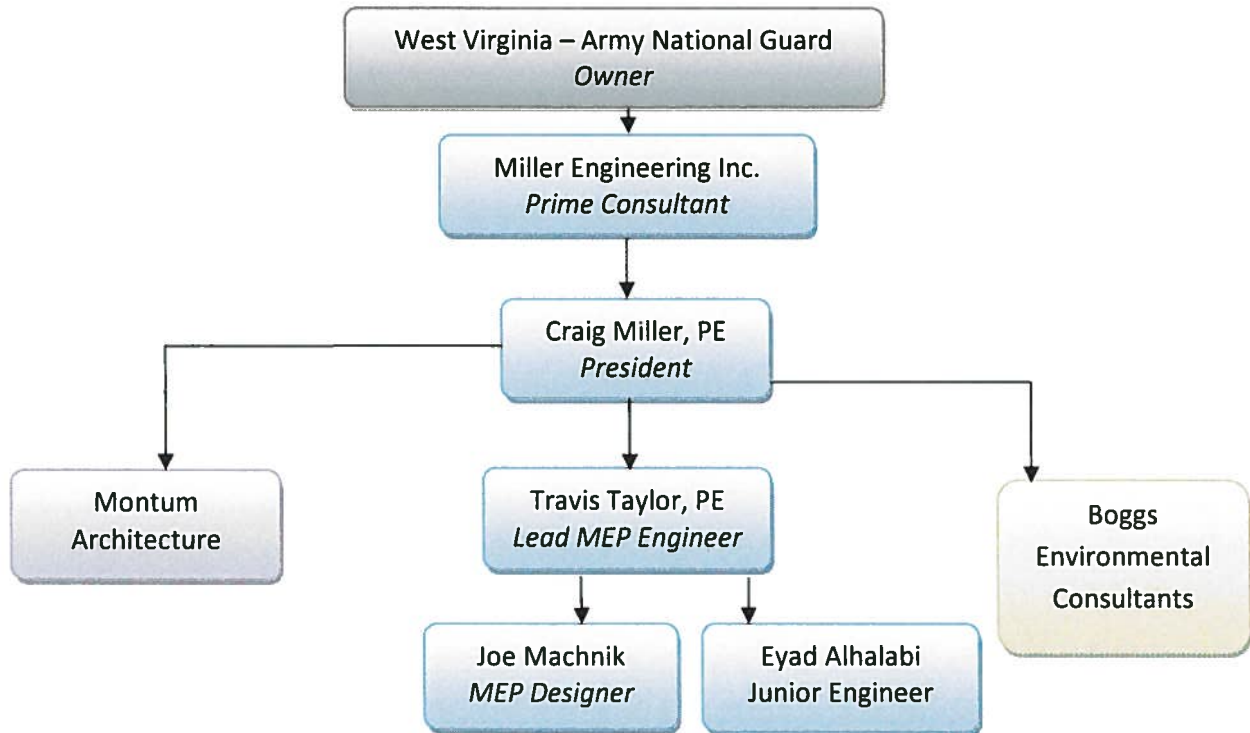
MONTUM ARCHITECTURE

<u>Tom Pritts, AIA</u>	Architect, Owner
------------------------	------------------

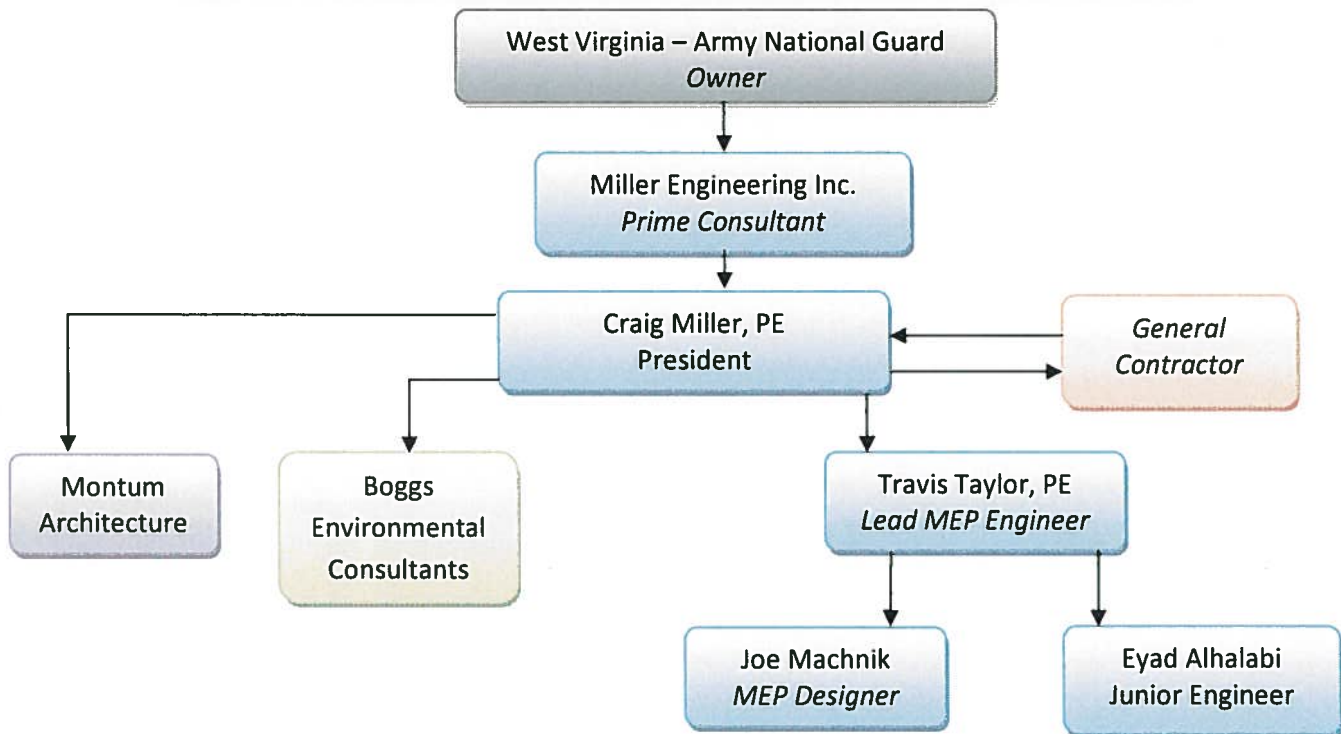
BOGGS ENVIRONMENTAL CONSULTANTS

<u>Mark Boggs</u>	Principal
<u>Richard Robinson</u>	Principal
<u>Gary Morris, MS, CIH, CSP</u>	Operations Director, Hazardous Materials Control
<u>William Warfel</u>	Principal Environmental Scientist
<u>Harold Conway Jr.</u>	Environmental Specialist

Organization Chart -Design



Organization Chart – Construction



Descriptions of Past Projects Completed – MEP

Pipestem Plaza

Services Provided:

- Electrical
- Fire Alarm
- Plumbing
- HVAC
- Accommodation of Existing Systems

Estimated Budget: \$2.2M

Facility Area: 63,000 ft²

Owner: West Virginia Division of Natural Resources



The Pipestem lodge has an outdoor plaza which is above the pool locker rooms and support areas. The plaza concrete deck system has failed, allowing water to damage the structure and the spaces below. The locker rooms and indoor pool were served by a single air handling unit which failed and never handled humidity well. The plaza, along with the locker rooms below, were completely renovated with modern plumbing fixtures and changes to meet ADA requirements. New LED lighting was installed to serve the locker rooms. MEI designed a HVAC solution using a dedicated MAU and exhaust system to serve the indoor pool to provide conditioned air and humidity control. The lockers and adjacent areas were served with fan coil units. All of the new HVAC equipment had chilled and hot water coils tied into the main building loop piping designed by MEI under a previous project. Other improvements include updates to the fire alarm system.

Project Contact:
Carolyn Mansberger, Project Manager
State Parks Section
(304) 558-2764

Descriptions of Past Projects Completed – Renovation

Berkeley Springs Old Roman Bathhouse

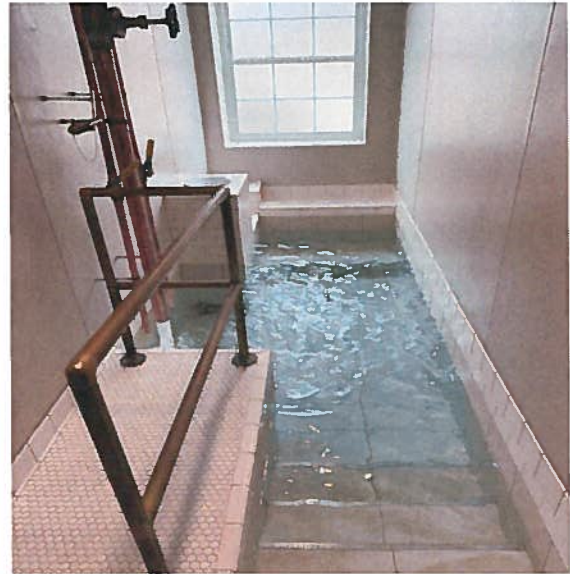
Services Provided:

- Mechanical
- Electrical
- Plumbing

Construction Cost: \$1.2M

Facility Area: 1,700 ft²

Owner: West Virginia Division of Natural Resources



The Old Roman style bathhouse at Berkeley Springs State Park was suffering from tub leaks and a lack of sufficient hot water to operate more than one of the available nine tub rooms. As part of an overall renovation, MEI replaced the tub room fill and drain system. The existing boiler was replaced with high efficiency water heaters along with storage tanks. New distribution piping and tempering valves were installed to increase the number of simultaneous tub fills. The drains were replaced with new piping valves, and a sump pump to reduce drain times and tub turnover rates. Additionally, a tub was modified to be ADA accessible with automated control valves. A new ADA bathroom was also constructed. New radiant ceiling panels were installed in the tub rooms and the existing HVAC systems were modified. Once completed, the tub fill and drain times were cut in half, allowing the park to schedule more appointments and increase revenue.

Project Contact:

*Bradley S. Leslie, PE, Assistant Chief
 State Parks Section
 (304) 558-2764 ext. 51826*

Pipestem State Park – Sprayground and Existing Pool Demo

Pipestem State Park

Pipestem, WV

Services Provided:

- Aquatic Design
- Plumbing
- Electrical
- Mechanical
- Demolition MEP

Cost: \$2.49M

Owner: West Virginia

**Division of Natural
Resources**

Status: Completed



The pool at Pipestem had ongoing concerns for a number of years. Age, condition, piping, and the original design had led to continuous operational problems. The pool was originally constructed as part of a larger, integral, recreation facility that presented problems for both maintenance and repairs. The use of the deck as a roof for spaces below resulted in ongoing issues for both.

As part of a larger team effort, MEI evaluated the facility and recommended partial demolition and replacing the pool. Based on the local population, the capacity of the park facilities, and the budget; the recommendation was to replace the pool with an interactive

sprayground. This facility is more strategically located close to the lodge and includes a pedestrian bridge and restroom/ bathhouse for park guests. The water treatment utilizes the latest in disinfection technology to protect users.

A new bathhouse was built to house the sprayground equipment, office, and ADA accessible restrooms & showers.

Project Contact:

*Bradley S. Leslie, PE, Chief Engineer
State Parks Section
(304) 558-2764 ext. 51826*

Descriptions of Past Projects Completed – Phased Renovation

Morgantown Municipal Airport

Services Provided:

- Mechanical
- Electrical
- Plumbing
- Fire Alarm/Protection

Estimated Budget: \$1.25M

Facility Area: 12,000 ft²

**Owner: Morgantown
Municipal Airport**



The terminal renovation was initiated to create an improved, more functional space for the terminal offices and the fixed base operator. This project required the maximum re-use of existing HVAC equipment including a renovation and re-configuration of the existing VAV system to serve newly subdivided areas. The existing fire alarm system was evaluated and found to be insufficient, requiring a full replacement. Office areas and the fixed base operator (FBO) offices were moved and enlarged, with modifications to HVAC systems serving those areas. The electrical work includes new electrical distribution in the project area to serve the needs of both the airport and the FBO. Electrical deficiencies relating to the original construction were identified and corrected. New rental space was created along with increasing the size and efficiency of the terminal office spaces. The phased approach necessitated by funding being split over two years required increased document detail and coordination.

Project Contact:
*Glenn Kelly, Airport Director(Former)
Morgantown Municipal Airport
(304) 291-7461
*Mr. Kelly has retired from this
position.*

Descriptions of Past Projects Completed – Fire Protection

Camp Dawson FMS4 Fire Protection

Kingwood, WV

Services Provided:

- Fire Protection

Budget: \$130K

Facility Area: 7,400 sq ft

Owner: WVARNG



FMS4 is a vehicle and equipment repair facility located on the Camp Dawson Army National Guard base located near Kingwood, WV. The 7,400 square foot facility includes 4,800 square feet of high bay service area, with the remaining area dedicated to office space, storage, and locker rooms. The facility contains bulk storage of oil and other equipment fluids, requiring fire protection. MEI was tasked with designing a fire protection system which would provide adequate coverage of FMS4 and meet applicable codes. Through research of NFPA 30 and NFPA 13, MEI was able to determine the size of the service and coverage requirements. MEI determined that by providing separation of the bulk storage from the rest of the facility, the fire protection service requirements could be reduced, eliminating a water service upgrade by the utility. Montum Architecture was brought on board to provide architectural support in regards to the separation of the bulk storage room and for the construction of the sprinkler room. The project was successfully completed in December 2019, one month ahead of schedule.

Project Contact:

Jim Skaggs

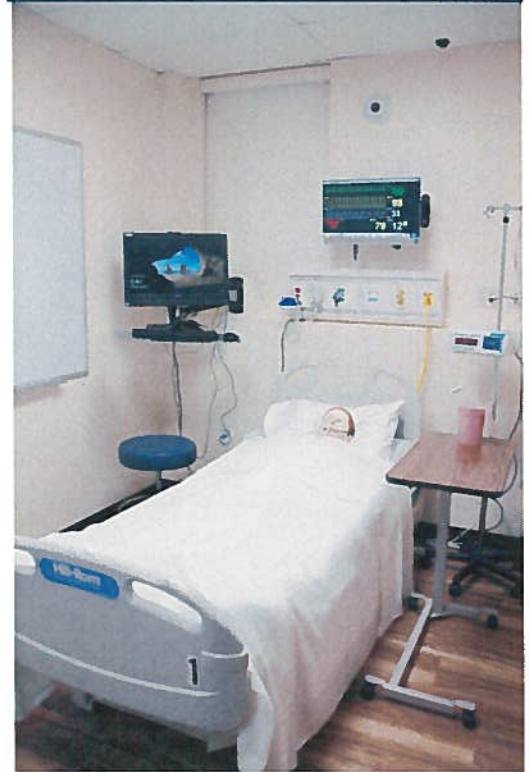
WV ARNG

(304) 561-6550

POTOMAC STATE COLLEGE BACHELORS IN SCIENCE OF NURSING RENOVATION

Montum

Architecture



West Virginia University - Potomac State College received the former National Guard Armory in 2016. In addition to recreational facilities, the newly named J. Edward Kelley Center will house the 4-year WVU School of Nursing BSN program. The project converted former meeting spaces into demonstration nursing laboratories and lecture spaces. Office spaces were renovated. Electrical and HVAC systems were updated to meet the new needs.



COMPLETED: 2018

BUDGET: NOT DISCLOSED

SIZE: 3,900 SF RENOVATED

LOCATION: KEYSER, WV

CONTACT:
Mike Simpson
Director of Facilities
304-788-6886

Montum Architecture, LLC

37 ER Path, Keyser, WV 26726 ● 304-276-7151 ● tom@montumarch.com ● montumarch.com

WYOMING COUNTY SCHOOLS WYOMING EAST HIGH SCHOOL HVAC AND ROOF REPLACEMENT

Montum

Architecture



The West Virginia School Building Authority funded replacement of the HVAC systems and roofing at the existing Wyoming East High School in 2017. Montum Architecture is the architect-of-record for the HVAC project and integrated the roofing design consultant's information into bid package scenarios. Work is being performed within an occupied building with close coordination of school daily schedules and calendar of events. Many of the units are being replaced one-for-one with some zones being split into multiple units to allow flexibility of new curriculum within the spaces or needs for additional comfort control. Ceilings are being replaced to meet updated guidelines for educational facility acoustics.

COMPLETION: SUMMER 2019

BUDGET: \$3.2M

SIZE: 130,000 SF EXISTING

LOCATION: NEW RICHMOND, WV

CONTACT:
Donald Clay
Director of Facilities
304-732-6262

Montum Architecture, LLC


37 ER Path, Keyser, WV 26726 ● 304-276-7151 ● tom@montumarch.com ● montumarch.com



21. TITLE AND LOCATION (City and State)		22. YEAR COMPLETED	
Hazardous Materials Support Services 9000 Wisconsin Avenue Bethesda, Maryland NIH Bethesda Campus, Bethesda, Maryland		PROFESSIONAL SERVICES Industrial Hygiene Services 2006- Present	CONSTRUCTION (If Applicable) Not Applicable
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER	
US DHHS NATIONAL INSTITUTES OF HEALTH 9000 Wisconsin Avenue Bethesda, Maryland	ACM SERVICES, INC. 12022 Parklawn Drive Rockville, Maryland 20850 ATTN: Kyle Neubauer, Sr Project Manager CHUGACH WORLD SERVICES, INC. 9000 Rockville Pike, Medlars Drive, Lot 41P Bethesda, Maryland 20892 ATTN: Mike Caffo, Estimator KIKIKTAGRUK INUPIAT CORPORATION (KIC) DEVELOPMENT, LLC 2461 South Clark Street, Suite 720 Arlington, Virginia 22202 ATTN: Eleanor Davis, Project Manager	ACM SERVICES, INC. Office: 301.230.2822 CHUGACH WORLD SERVICES, INC Office: 301.718.8773 KIC DEVELOPMENT, LLC Office: 703.418.6300	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)			
 <p>PROJECT FEATURES</p> <ul style="list-style-type: none"> ✓ Hazardous Materials Investigation ✓ Hazardous Materials Abatement Design Analysis ✓ Hazardous Materials Abatement Contract Documents ✓ Hazardous Materials Abatement Contract Administration ✓ Hazardous Materials Abatement Project-Quality Assurance & Quality Control (QA/QC)- Inspection & Environmental Testing 		<p>Capital improvement projects (CIP) program on an on-going basis, since 2006. These CIP programs require swing space to accommodate not only comprehensive but also select building area(s) renovation projects.</p> <p>projects within 36 NIH buildings, as a sub-consultant to ACM Services, Chugach WSI, and KIC Development, each as the Prime Contractors, to US DHHS NIH, whom are responsible for completing campus-wide modernization projects at both the Bethesda Main Campus and Poolesville- Animal Research Facility.</p> <p>These modernization projects include wholesale and partial demolition of building space for complete retrofit to facilitate mechanical/electrical/plumbing (MEP) upgrades, architectural and functional space use re-design, life-safety upgrades, etc. BEC task orders completed include, but are not necessarily limited to, the following:</p> <p><u>Mercury- 10 Projects</u> Conduct mercury vapor surveys (via the Lumex RA-915+ direct-read (MVA) mercury vapor analyzer) of plumbing systems. Prepare mercury-contaminated materials abatement workplans. Conduct air quality surveillance and post mercury abatement clearance testing</p> <p><u>Lead-Based Paint- 14 Projects</u> Conduct lead-based paint (LBP) surveys via RMD LPA-1 lead paint X-Ray Fluorescence (XRF) analyzer. Prepare LBP abatement workplans. Conduct air quality surveillance and post LBP abatement clearance testing.</p> <p><u>Asbestos-98 Projects</u> Conduct asbestos-containing building construction materials (ACBMs) surveys. Prepare asbestos abatement workplans. Conduct air quality surveillance and post asbestos abatement clearance testing</p> <p><u>IAQ Surveillance- 14 Projects</u> Conduct air surveys via within "cold side" and "hot side" building areas, to assess potential environmental pollution and worker exposure conditions- associated with airborne fibers and lead- during renovation work.</p> <p><u>Aboveground Storage Tank (AST)- Hydraulic Fluid Release- 2 Projects</u> Conduct site characterization/risk assessments and prepared corrective action plans to address PCB-containing hydraulic fluid reservoir releases and remediation. Conduct environmental testing to assess potential environmental pollution and worker exposure conditions- during remedial actions.</p> <p>In addition to hazardous materials investigations/evaluations and generation of Contract Documents (specifications/drawings) for abatement projects, BEC provides Contract Administration services consisting of (a) review of submittals (pre-Bid, pre-Abatement, project progress, proposed changeorder, proposed specification substitutions, project closeout, etc.) and (b) onsite QA/QC abatement project monitoring – as the Governments Industrial Hygiene (G-IH) firm- performing regulated-access abatement containment visual inspections and the associated environmental testing, for the respective contaminant(s).</p>	
25. FIRMS INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME International Asbestos Testing Laboratory	(2) FIRM LOCATION (City and State) Mt. Laurel, New Jersey	(3) ROLE Performing Laboratory
b.	(1) FIRM NAME Schneider Laboratories	(2) FIRM LOCATION (City and State) Richmond, Virginia	(3) ROLE Performing Laboratory



21. TITLE AND LOCATION (City and State)		22. YEAR COMPLETED	
Hazardous Materials Support Services 510 Butler Avenue Martinsburg, West Virginia VA Medical Center, Martinsburg, West Virginia		PROFESSIONAL SERVICES Industrial Hygiene Services 2012- Present	CONSTRUCTION (If Applicable) Not Applicable
23. PROJECT OWNER'S INFORMATION			
d. PROJECT OWNER	e. POINT OF CONTACT NAME	f. POINT OF CONTACT TELEPHONE NUMBER	
Department of Veterans Affairs VAMC Martinsburg 510 Butler Avenue Martinsburg, West Virginia	510 Butler Avenue Martinsburg, West Virginia 25405 ATTN: Krista Bowen, Industrial Hygienist	Office – 304.263.0811 Ext. 4715 Cell – 304.433.1713 Krista.bowen@va.gov	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)			
<p>BEC has been supporting the Department of Veterans Affairs modernization of the VAMC campus located in Martinsburg, West Virginia on an on-going basis, since 2012. As a prime consultant to Department of Veteran Affairs (Contract No.VA245-12-C-0060, Contract No.VA245-15-P-0934). These modernizations require relocation of VAMC staff and facilities to swing space to accommodate not only comprehensive but also select building area(s) renovation projects.</p> <div style="display: flex;"> <div style="background-color: #2e7d32; color: white; padding: 10px; width: 25%;"> PROJECT FEATURES <ul style="list-style-type: none"> ✓ Hazardous Materials Investigation ✓ Hazardous Materials Abatement Design Analysis ✓ Hazardous Materials Abatement Contract Documents ✓ Hazardous Materials Abatement Contract Administration ✓ Hazardous Materials Abatement Project-Quality Assurance & Quality Control (QA/QC)- Inspection & Environmental Testing </div> <div style="padding: 10px; width: 75%;"> <p>BEC staff have completed to date- 144 projects within 66 VAMC buildings, as the Prime Contractor, to the Department of Veterans Affairs, whom are responsible for completing campus-wide modernization projects at the Martinsburg VA Medical Center</p> <p>These modernization projects include wholesale and partial demolition of building space for complete retrofit to facilitate mechanical/electrical/plumbing (MEP) upgrades, architectural and functional space use re-design, life-safety upgrades, etc. BEC task orders completed include, but are not necessarily limited to, the following:</p> <p><u>Contract Document Preparation</u> Provided investigations/evaluations to prepare Contract Documents (specifications/drawings) for abatement projects. In addition, Contract Administration services consisting of (a) review of submittals (pre-Bid, pre-Abatement, project progress, proposed changeorder, proposed specification substitutions, project closeout, etc.) and (b) onsite QA/QC abatement project monitoring – as the Governments Industrial Hygiene (G-IH) firm. Contract documentation preparation was performed through Grove & Dall'Olio Architects.</p> <p><u>Lead-Based Paint</u> Conducted lead-based paint (LBP) surveys via RMD LPA-1 lead paint X-Ray Fluorescence (XRF) analyzer. Prepare LBP abatement workplans. Conduct air quality surveillance and post LBP abatement clearance testing.</p> <p><u>Asbestos</u> Conducted asbestos-containing building construction materials (ACBMs) surveys. Prepared asbestos abatement workplans, conducted air quality surveillance and post asbestos abatement clearance testing throughout all locations at the facility.</p> <p><u>IAQ Surveillance</u> Conducted air surveys within long term residence care areas, to assess potential environmental pollution and worker exposure conditions- associated with discovered microbial growth conditions in living areas during Operation Martinsburg Inn within the domiciliary units.</p> <p><u>Asbestos Containing Materials Risk Assessment</u> Conduct site characterization/risk assessments and prepared corrective action plans to address asbestos containing soil that was removed from a building crawl space and dumped onto a private landowner property. The project required submitting the corrective action plans and risk assessment to US EPA and WV DEP for approval prior to commencement of work activities</p> </div> </div>			
25. FIRMS INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	EMSL Analytical	Beltsville, Maryland	Performing Laboratory
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	SanAir Laboratories	Powhatan, Virginia	Performing Laboratory

EXAMPLE PROJECT WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT				#001				
21. TITLE AND LOCATION (City and State)		22. YEAR COMPLETED						
Hazardous Materials Support Services WVU RCB – HSC, Morgantown, West Virginia		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)					
		Industrial Hygiene	Not Applicable					
23. PROJECT OWNER'S INFORMATION								
g. PROJECT OWNER	h. POINT OF CONTACT NAME	i. POINT OF CONTACT TELEPHONE NUMBER						
West Virginia University Robert C. Byrd Health Sciences Center Morgantown, West Virginia	Indoor Air Quality (IAQ) Projects: Robert Lemley, Assistant to the Vice President Asbestos & Lead-Based Paint Projects: Neil A. Wilson, Operations Manager	IAQ Projects: (P) 304.293.6760 (F) 304.293.8611 rlmley@hsc.wvu.edu Asbestos & Lead-Based Paint Projects: (P) 304.293.1752 nwilson@hsc.wvu.edu						
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)								
<p>BEC has supported the WVU RCB-HSC facilities renovation program on an ongoing basis, since 2006. These renovation projects have been located at numerous functional areas of the building; hospital, mechanical equipment rooms, laboratories, teaching/instructional spaces at the School of Medicine, the School of Dentistry, the School of Pharmacy, etc.</p>								
PROJECT FEATURES <ul style="list-style-type: none"> ✓ Hazardous Materials Investigation ✓ Hazardous Materials Abatement Design Analysis ✓ Hazardous Materials Abatement Contract Documents ✓ Hazardous Materials Abatement Contract Administration ✓ Hazardous Materials Abatement Project-Quality Assurance & Quality Control (QA/QC)- Inspection & Environmental Testing 		Indoor Air Quality (IAQ) Studies: <table border="1"> <thead> <tr> <th>School of Dentistry Dental Film Processing Laboratory</th> <th>School of Pharmacy Pharmaceutical Systems & Policy Department</th> </tr> </thead> <tbody> <tr> <td> <u>AIRBORNE CONTAMINANTS</u> Inorganic Chemistry: Acid Screen Common Metals (Aluminum) Hydroxyl Group (Potassium Hydroxide) Sulfides/Sulfites Sulfates Organic Chemistry: Acetic Acid Acetone Aldehydes, Semi-Quantitative Screen Glycols Hydroquinone IAQ "Additional Parameters" Testing: O₂, CO, LEL, SO₂, and TVOCs IAQ "Comfort Parameters": Ambient Temperature, Relative Humidity, CO₂ Building Component Surface Temperature Respirable Dust Air Survey Fibers-in-Air Survey Aerosol Lead & Lead-in-Dust Survey </td> <td> <u>AIRBORNE CONTAMINANTS</u> Total Volatile Organic Compounds (VOCs) Combustible Gases (Lower Explosive Limit) Oxygen (O₂) Carbon Dioxide (CO₂) Sulfur Dioxide (SO₂) Carbon Monoxide (CO) Relative Humidity Ambient Air Temperature Formaldehyde (CH₂O) Particulate Matter (PM₁₀ and Respirable Dust) Building Component Moisture Condition Testing Non-Viable Fungal Spore Trap Sampling Fibers-in-Air via PCM Airborne Asbestos via TEM Airborne Lead via GFL-AA Composite Dust Samples; Asbestos via PLM/DS Composite Dust Samples; Asbestos via SEM SAED Single-Surface Dust Swipe Samples; Lead LBP Screen in situ via X-Ray Fluorescence (XRF) Legionella </td> </tr> </tbody> </table>			School of Dentistry Dental Film Processing Laboratory	School of Pharmacy Pharmaceutical Systems & Policy Department	<u>AIRBORNE CONTAMINANTS</u> Inorganic Chemistry: Acid Screen Common Metals (Aluminum) Hydroxyl Group (Potassium Hydroxide) Sulfides/Sulfites Sulfates Organic Chemistry: Acetic Acid Acetone Aldehydes, Semi-Quantitative Screen Glycols Hydroquinone IAQ "Additional Parameters" Testing: O ₂ , CO, LEL, SO ₂ , and TVOCs IAQ "Comfort Parameters": Ambient Temperature, Relative Humidity, CO ₂ Building Component Surface Temperature Respirable Dust Air Survey Fibers-in-Air Survey Aerosol Lead & Lead-in-Dust Survey	<u>AIRBORNE CONTAMINANTS</u> Total Volatile Organic Compounds (VOCs) Combustible Gases (Lower Explosive Limit) Oxygen (O ₂) Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Carbon Monoxide (CO) Relative Humidity Ambient Air Temperature Formaldehyde (CH ₂ O) Particulate Matter (PM ₁₀ and Respirable Dust) Building Component Moisture Condition Testing Non-Viable Fungal Spore Trap Sampling Fibers-in-Air via PCM Airborne Asbestos via TEM Airborne Lead via GFL-AA Composite Dust Samples; Asbestos via PLM/DS Composite Dust Samples; Asbestos via SEM SAED Single-Surface Dust Swipe Samples; Lead LBP Screen in situ via X-Ray Fluorescence (XRF) Legionella
School of Dentistry Dental Film Processing Laboratory	School of Pharmacy Pharmaceutical Systems & Policy Department							
<u>AIRBORNE CONTAMINANTS</u> Inorganic Chemistry: Acid Screen Common Metals (Aluminum) Hydroxyl Group (Potassium Hydroxide) Sulfides/Sulfites Sulfates Organic Chemistry: Acetic Acid Acetone Aldehydes, Semi-Quantitative Screen Glycols Hydroquinone IAQ "Additional Parameters" Testing: O ₂ , CO, LEL, SO ₂ , and TVOCs IAQ "Comfort Parameters": Ambient Temperature, Relative Humidity, CO ₂ Building Component Surface Temperature Respirable Dust Air Survey Fibers-in-Air Survey Aerosol Lead & Lead-in-Dust Survey	<u>AIRBORNE CONTAMINANTS</u> Total Volatile Organic Compounds (VOCs) Combustible Gases (Lower Explosive Limit) Oxygen (O ₂) Carbon Dioxide (CO ₂) Sulfur Dioxide (SO ₂) Carbon Monoxide (CO) Relative Humidity Ambient Air Temperature Formaldehyde (CH ₂ O) Particulate Matter (PM ₁₀ and Respirable Dust) Building Component Moisture Condition Testing Non-Viable Fungal Spore Trap Sampling Fibers-in-Air via PCM Airborne Asbestos via TEM Airborne Lead via GFL-AA Composite Dust Samples; Asbestos via PLM/DS Composite Dust Samples; Asbestos via SEM SAED Single-Surface Dust Swipe Samples; Lead LBP Screen in situ via X-Ray Fluorescence (XRF) Legionella							
Asbestos-Containing Building Construction Materials Conduct air quality surveillance and post asbestos abatement clearance testing throughout RCP-HSC Complex								
25. FIRMS INVOLVED WITH THIS PROJECT								
a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE					
	Boggs Environmental Consultants, Inc.	Middletown, Maryland Morgantown, West Virginia	Primary Industrial Hygiene Firm					

Budget and Timeline History

Project Name	Project Type	Budget	Cost	Notes
Bluestone State Park	Pool Replacement	\$1,000,000	\$935,600	On budget
West Virginia State	HVAC Piping Renovation	\$650,000	\$533,400	On budget
Canaan Valley Resort	Emergency Electrical Repairs	\$225,000	\$129,829	On budget
Holly Grove Manor	Renovation	\$885,000	N/A	On hold
Mapletown Jr/Sr High School	HVAC Renovation	\$1,050,000	\$1,105,900	5.19% over budget
Pipestem – McKeever Lodge	HVAC Piping Replacement	\$1,600,000	\$1,776,000	10.43% over budget
Tygart Lake State Park	Beach and Bathhouse	\$750,000	\$695,000	On budget

 = Delivered on budget/on time

Budget and Timeline History

Project Name	Project Type	Contract Length	Contract Delivery	Notes
Blackwater Falls State Park	Boiler Replacement	120 days	180 days*	*Extended 60 days due to equipment delivery issues
Bluestone State Park	Pool Replacement	180 days	180 days	Delivered on time
Canaan Valley Resort	Construction Administration	3.5 years	3.5 years	Long-term project with varying facets – no direct schedule
Twin Falls/Hawks Nest Lodge	HVAC Renovation	90 days	90 days*	*Expedited delivery
Mapletown Jr/Sr High School	Boiler/ HVAC Renovation	180 days	180 days	Delivered on time
Pipestem – McKeever Lodge	HVAC Piping Replacement	365 days	365 days	Delivered on time
Tygart Lake State Park	Beach and Bathhouse	270 days	270 days	Delivered on time

What our satisfied customers have to say...

"Hard working, do-whatever-it-takes, diligent team that provides excellent customer service is what you can expect from Miller Engineering."

--Chris Halterman, Dominion Post, Morgantown

"As a design/build team, working with Miller Engineering, our project involving a private surgical hospital together was a success – completed ahead of schedule and on budget. Miller worked with us throughout the project to consult, engineer and inspect the mechanical systems. Craig Miller, PE and his staff are working with us again, and are very important members of our design/build team. I highly recommend their services."

--Richard J. Briggs

Brad Leslie, PE

*Assistant Chief
WV Division of Natural
Resources
State Parks Section
324 4th Avenue
South Charleston, WV 25303
(304) 289-7663
Bradley.S.Leslie@wv.gov*

Paul Braham

*Associate Director of
Maintenance & Engineering
Mylan Pharmaceuticals
781 Chestnut Ridge Road
Morgantown, WV 256505
412-519-9846
304-554-5626
Paul.Braham@mylan.com*

Gregory L. Melton

*Director
WV General Services Div.
401 California Ave.
Building 4, 5th Floor
Charleston, WV 25305
(304) 558-1808
304-965-1219
Gregory.L.Melton@wv.gov*

Bob Ashcraft

*Safety and Ancillary Projects
Monongalia County Schools
533 East Brockway Street
Morgantown, WV 26501
(304) 276-0152
rbashcraft@access.k12.wv.us*

Dave Parsons

*Energy Program Manager
WV General Services
112 California Avenue
Building 4, 5th Floor
Charleston, WV 25305
(304) 957-7122
David.K.Parsons@wv.gov*

Richard J. Briggs

*Vice President
Lutz Briggs Schultz & Assoc. Inc.
239 Country Club Drive
Ellwood City, PA 16117-5007
(724) 651-4406
lbsa@zoominternet.net*

From Jonathan Miller, Mechanical Project Manager, Nitro Mechanical:

"Miller Engineering is not your average engineering company; they work with the owner AND the contractor to solve all issues that arise throughout the project to make the process as fluid as possible"



TAB 4 – METHODOLOGY & APPROACH



Project Methodology & Approach

Evaluation

Miller Engineering will begin the design process by reviewing all existing documentation regarding AASF-1. This includes construction documents, submittals, Testing and Balancing (TAB) reports, and as-built drawings. MEI will use this as the basis to perform a complete site evaluation of the facility and document the building systems as currently constructed and compare to the original design documents. Montum Architecture will evaluate the shower / restroom facilities in regards to modern building codes and ADA requirements. MEI will incorporate these reviews to construct a building information model (BIM) of the AASF-1 showers and restrooms using Autodesk REVIT.

Schematic

Once the BIM models of AASF-1 are complete, and MEI grasps the building systems intent and construction, MEI will meet with the owner. The meeting will involve all stakeholders to gain an understanding of the intended project outcomes. The discussions will involve prioritizing project objectives, phasing, and budgets. Any deficiencies found during evaluation in relation to building codes, ADA compliance, or operating conditions will be relayed to the owner for discussion. The initial schematic design will be the basis of the 35% documents. MEI will provide cost estimates using real material quotes and take-offs to accurately convey projected costs to the owner.

Design Development

MEI will take input from the owners based upon review of the 35% design documents and proceed. While the requirements of the EOI give specific milestones for progress sets (35%, 65%, 95%, & 100%), MEI will not wait until the next progress set to speak with the stakeholders if questions arise. Our philosophy is that the sooner issues are brought forward and addressed, the less they cost the project in time and money. The estimate will also be updated regularly as MEI treats the estimate as a "living document." Any changes or inputs from the owner, as well as other changes made during proceeding with design development, will be reflected in the estimate. MEI believes in giving the owner the information necessary, including budgetary effects, to make informed decisions regarding the design. The 65% and 95% progress sets will reflect the outcomes of the formal and informal discussions with the owners.

Construction Documents

The construction documents will be completed using both the results of the progress set reviews and internal peer review. MEI understands that while working on a project, engineers and designers can get "tunnel vision", meaning they see what they want to see reflected in the documents. All drawings and specifications issued by Miller Engineering go through a three step peer review internally to ensure the intent of the document is clearly transmitted. The final 100% construction document set will be issued to the owner for bidding, along with our best estimate of probable cost.

Bidding

During bidding, Miller Engineering will assist the owner to successfully procure bids for the showers and restrooms renovations. MEI will be present during the pre-bid meeting to discuss the technical scope of work for the project. Any technical questions from contractors or vendors to the owner during bidding will be answered by MEI. MEI will provide addendum documents as needed. MEI will also assist in reviewing bids and making recommendations to the owner. We have completed many projects through WV State Purchasing, and understand the requirements to successfully bid a project with the state of West Virginia.

Construction Administration

After bids are received and the contract awarded, MEI is not a firm that disappears until the final punch list. MEI will provide thorough construction administration (CA) services as agreed upon with the owner. We will be present for a construction kick-off meeting to make sure the project gets off on the right foot. MEI believes in being present at construction progress meetings and making informal site visits to keep the project on track. Our background in construction and operations allows us to understand the sequencing of construction in the field to better aid the contractors when questions arise.

One of MEI's main beliefs is that any requests for information (RFIs) submitted by the contractor should be reviewed and answered within one business day if possible. This is because we understand that delays in RFI responses can lead to additional costs and construction days. If necessary, we will provide an informal answer and follow up with the formal response to keep the project rolling. During progress meetings and site visits, any issues discovered by MEI will be relayed to the owner and contractor immediately to prevent delays. Another company standard is for our staff to be present for testing and balancing (TAB), equipment start-up, and owner training. While these events occur at the very end of the project, they are critical to ensure the new systems operate as designed. MEI will be on hand for these activities to quickly answer any questions and confirm these items are performed properly in accordance with the construction documents.



TAB 5 – PROJECT FORMS





Purchasing Division
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: 761812

Doc Description: Williamstown AASF1- Shower-Restroom Renovation Design

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2020-07-30	2020-08-18 13:30:00	CEOI 0603 ADJ2100000002	1

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:

FOR INFORMATION CONTACT THE BUYER

Tara Lyle

(304) 558-2544

tara.l.lyle@wv.gov

Signature X

FEIN #


-1386

DATE

8/13/2020

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

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.


(Name, Title)

Craig Miller, PE - President

(Printed Name and Title)

240 Scott Ave. Suite 1 Morgantown, WV 26508

(Address)

304-291-2234

(Phone Number) / (Fax Number)

cmiller@millereng.net

(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.

Miller Engineering, Inc.

(Company)


(Authorized Signature) (Representative Name, Title)

Craig Miller, PE - President

(Printed Name and Title of Authorized Representative)

8/13/2020

(Date)

304-291-2234

(Phone Number) (Fax Number)

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

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

DEFINITIONS:

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

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

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

Authorized Signature: [Signature] Date: 8/13/2020

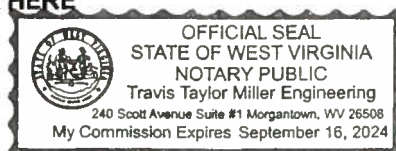
State of West Virginia

County of Monongalia, to-wit:

Taken, subscribed, and sworn to before me this 13th day of August, 2020.

My Commission expires September 16, 2024.

AFFIX SEAL HERE



NOTARY PUBLIC

[Signature]

Purchasing Affidavit (Revised 01/19/2018)