



**Expression of Interest**  
**West Virginia – Army National Guard**  
**Camp Dawson Underground Utilities Design**  
**Kingwood, WV**  
**CEOI 0603 ADJ1900000006**  
**August 27, 2018**



RECEIVED  
2018 AUG 28 AM 10: 39  
WV PURCHASING  
DIVISION

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

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## The Miller Engineering Difference



We are very pleased to submit our response for the WV Army National Guard Underground Utilities Design Project in Camp Dawson, Kingwood, WV. Miller Engineering has performed many electrical system evaluations over the years, often as part of a larger project such as a building renovation or an HVAC upgrade. We **have evaluated and designed primary service line relocation to underground.** These include secondary system to 6,000 amps of 480 and services up to 23KV. As such it is imperative that the facilities be operable and maintainable in a personnel safe manner. Our services have included third party electrical inspection of both

commercial and residential electrical system for the last eight years. Jack, our Master Code Official has sat on many National Electric Code panels through the years and is considered a "go to" resource within and beyond the state. During my tenure at WVU, I provided engineering support to the maintenance staff in the form of real-time field assistance, as well as design of modifications to and repairs of the campus electrical systems. Travis Taylor worked for a number of years as a project manager for a large electrical contractor and has performed design on both mechanical and electrical systems since joining MEI.

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.

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 the previous two years. We recently closed out an HVAC renovation project at Building 22 for GSD and are soon to be entering the construction phase of an addition to Cacapon Lodge for DNR. We have experience with the requirements and processes of state procurement, and can deliver a successful project from design through close-out and warranty. I would like to personally thank you for affording Miller Engineering the opportunity to propose on the WV Army National Guard Underground Utilities Design Project in Camp Dawson, Kingwood, WV.

Best regards

A handwritten signature in blue ink, appearing to read "Craig Miller". The signature is stylized and written over a horizontal line.

Craig Miller  
President/Owner  
Miller Engineering, Inc.



## TAB 1 –FIRM QUALIFICATIONS



## Miller Engineering, Inc. Firm Profile

*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 13 years Miller Engineering, Inc. (MEI) has engineered solutions for over \$20.1M in mechanical 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.*

### Additional Benefits

- 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
- Interactive Solutions Provider
- Emergency Facility Response

## Engineering Design and Consultation

- Mechanical
- Electrical
- Plumbing
- HVAC Design
- Renovation
- New Construction

### 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  
Public Pools (indoor & outdoor)  
Department of Parks & Recreation



**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 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**

- *Bobtown Elementary HVAC*
- *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*
- *WV State Building 25 HVAC Piping Replacement*
- *WV State Building 36 HVAC Upgrades*
- *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. 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**

- Suncrest Middle Gym HVAC
- MTEC Welding Shop
- North Elementary Gym HVAC
- WV State Building 36 HVAC Upgrades
- WV State Building 25 HVAC Piping Replacement
- Bobtown Elementary School HVAC Upgrades
- Holly River State Park Primary Electric Service Replacements Phase I & II
- Pipestem Lodge McKeever Lodge HVAC Piping Replacement

### **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

## Staff – Qualifications and Experience



### **Jack Jamison**

Jack brings 15 years as an electrical/building inspector and over 25 years of experience in the commercial electrical construction industry. His knowledge and experience are valuable resources to Miller’s complete assessment process.

#### **Project Role: Master Code Official**

- *Facility Review, Code Research, Field Observations, Issue Resolutions, and Project Evaluation*

### **Professional History**

2010- Present	Miller Engineering, Inc.	Code and Construction Specialist
1999-2010	Megco Inspections	Chief Inspector
1972-1998	Jamison Electrical Construction	Master Electrician

### **Education**

1971 Fairmont State College, BS-Engineering Technology-Electronics

### **Licenses and Certifications**

- Master Code Professional, IAEI Master Electrical Inspector, Class C Electrical Inspector – WV, PA, MD, & OH
- ICC Commercial Building, Building Plans, Commercial Plumbing, Residential Energy, and Accessibility Inspector/Examiner
- WV Master Electricians License
- NCPCCI-2B, 2C, 4B, 4C: Electrical & Mechanical General/Plan Review
- OSHA 30 Hour Course: General Industry
- NFPA Code Making Panel 14 – NEC 2014 Edition





## **Robert Angus**

20 Years of maintenance, operations, and construction management precede Rob's engagement with Miller Engineering. Professional expertise of construction project management was gained as an owner of his own contracting company specializing in residential and commercial construction, electrical, plumbing, and HVAC projects. Rob's hands-on approach, common sense and valuable work history knowledge enables him to interface with construction personnel seamlessly alongside engineers and architects.

He is adept at preventing and handling issues. Rob is involved at the estimation phase to allow for continuity within the project's design and construction.

### **Project Role: Construction Representative**

- *Construction Project Representation and Management*
- *Construction Administration*
- *Project Cost Estimation*
- *Submittal Review*
- *RFI, RFPCO Review and Response*

### **Professional Project Highlights**

- **MTEC Welding Shop**
- **Cheat Lake Elementary HVAC Upgrade**
- **Suncrest Middle School Gym HVAC Upgrade**
- **North Elementary School Boiler/AC**
- **Mapletown Jr./Sr. High School HVAC/Boiler Upgrade**
- **3<sup>RD</sup> Party Construction Observation – Canaan Valley Resort**
- **Hawks Nest/Twin Falls HVAC**
- **WVU Research Building Office Renovation**

### **Professional History**

2009- Present	Miller Engineering, Inc.	Project Construction Representative
2000-2009	Angus Contracting, LLC	Owner/Operator
1991-2000	BOPARC	Director of Maintenance

### **Education**

2000	Monongalia County Technical Education Center	Heating, Cooling, and Refrigeration Certification
1996	West Virginia University	Recreation and Parks Administration

### **Licenses and Certifications**

- **Licensed West Virginia General Contractor**
- **Licensed West Virginia HVAC Contractor**
- **Certified HVAC Mechanical Contractor**
- **Licensed West Virginia Journeyman Electrician**
- **Licensed West Virginia Master Plumber**
- **OSHA 10-Hour 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*

### **Professional Project Highlights**

- **Bobtown Elementary HVAC**
- **WV State Building 25 HVAC Piping Replacement**
- **Suncrest Middle Gym HVAC**
- **North Elementary Gym HVAC**
- **WV State Building 36 HVAC Upgrades**
- **Westwood Middle Cooling Tower**
- **Pipestem Lodge HVAC Piping Replacement**

### **Professional History**

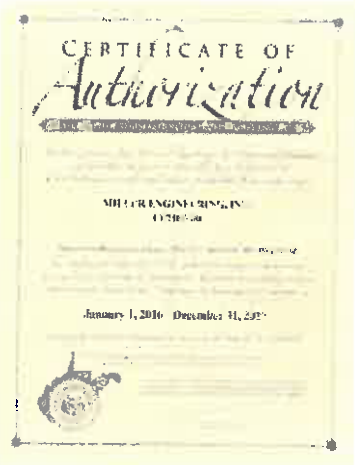
2010 – Present Miller Engineering, Inc. MEP Designer

### **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*

# Miller Engineering Licenses and Certifications



**West Virginia State Board of Registration for Professional Engineers**

**[REDACTED]**

This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is authorized to practice engineering in the State of West Virginia.

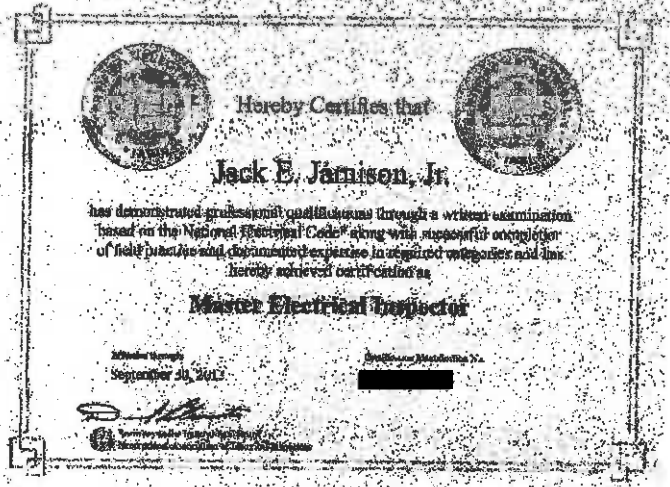
WEST VIRGINIA DECEMBER 31, 2016

**West Virginia State Board of Registration for Professional Engineers**

**TRAVIS W. TAYLOR**

This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is authorized to practice engineering in the State of West Virginia.

WEST VIRGINIA DECEMBER 31, 2016



# Corporate Profile

## HISTORY

- Established in 1997
- Staff of over 80 professionals
- Fully licensed and insured
- Comprehensive internal quality control
- Headquartered in Charleston, WV with regional offices in Morgantown, WV and Winchester, VA



Corporate Office  
Charleston, WV



Morgantown, WV



Winchester, VA

## SERVICES

- Air
- Biological and Toxicological
- CADD/GIS
- Civil Engineering and Design
- Coal Supply and Procurement
- Construction Monitoring
- Environmental Site Assessment
- Geotechnical Engineering
- Groundwater
- Hydrology and Hydraulics
- Landfills and Solid Waste
- Litigation Support
- Marcellus Shale
- Mining
- Occupational Safety and Health
- Oil and Natural Gas Consulting
- Permitting
- Remediation
- Roadway Engineering
- Sampling
- Site Design
- Surveying and Mapping
- Water and Wastewater
- Wetlands

## Professional Experience

POTESTA's staff is committed to delivering innovative, cost-effective solutions to meet our client's complex requirements. POTESTA's engineering department includes civil, geotechnical, environmental, mining and mechanical engineers. The firm's environmental department consists of biologists, geologists, chemists, environmental scientists and environmental engineers, many with advanced degrees (Masters and Ph.D. level). Our registered professional engineers have over 300 years experience among them and are supported by a capable team of engineers, designers and surveyors.

Our firm is driven forward by its two principals and their experience and emphasis on exceeding expectations. Ronald R. Potesta, President, is a former Director of the West Virginia Division of Natural Resources and Dana L. Burns, P.E., Vice President, has more than 35 years experience with civil, geotechnical, mining and environmental engineering projects.



Ronald R. Potesta  
President



Dana B. Burns, P.E., P.S.  
Vice President



## EDUCATION

M.S. Civil Engineering, 1995  
West Virginia University

B.S. Civil Engineering, 1993  
West Virginia University

## EMPLOYMENT HISTORY

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

## PROFESSIONAL REGISTRATIONS

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

## AREAS OF SPECIALIZATION

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

## PROFESSIONAL EXPERIENCE

### Geotechnical

- WVU Transportation Center/Parking Garage - Morgantown, WV
- Copper Beech Student Housing (included 31 buildings, parking areas, and 11,250 linear feet of retaining walls) – Morgantown, WV
- Sunnyside Commons Student Housing (included three multi-story buildings, parking, and 43,000 sq. ft. of retaining walls) – Morgantown, WV
- WVU Engineering Building East Addition – Morgantown, WV
- Potomac State College Admissions Building Addition – Mineral County, WV
- Glenville State College Health & Sciences Building – Gilmer County, WV
- Glenville State College Residence Hall – Gilmer County, WV
- West Run Student Housing (including 16 buildings, parking areas, and 50,000 sq. ft. of retaining walls) – Morgantown, WV
- WVU Research Park – Morgantown, WV
- Student Housing Facility, Parking Garage, Library/Information Center, Student Center Addition, Jomie Jazz Center, and Child Care Center for Marshall University – Huntington, WV
- WVU Luxury Box for Mountaineer Field – Morgantown, WV
- Marshall University Mid-Ohio Valley Center – Point Pleasant, WV
- Monongalia County Public Office Building – Morgantown, WV

### Civil/Site Design

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

- University Place Parking Garage – Morgantown, WV
- Sunnyside Commons Student Housing Project (included 5 multi-story buildings, 268 parking spaces, and 43,000 sq. ft. of retaining walls) – Morgantown, WV
- West Run Student Housing – 1,000 bed student housing project, Morgantown, WV
- Copper Beech Student Housing – 1,000 bed student housing project, Morgantown, WV
- WVU Beechhurst Parking Lot – Morgantown, WV

# TIMOTHY M. RICE, E.I.T.

Senior Engineer



## EDUCATION

B.S. Civil Engineering, 1982  
West Virginia University

## EMPLOYMENT HISTORY

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

## PROFESSIONAL REGISTRATIONS

Engineer in Training – West Virginia

## TRAINING/RELEVANT COURSE WORK

Natural Stream Channel Design Levels I-IV

## AREAS OF SPECIALIZATION

Diversified experience with civil, environmental, surveying, and geotechnical engineering projects for public, state, and private clients with an emphasis on project management and coordination of engineering services and environmental services, to include: permitting and compliance, hydraulic and hydrological analysis, slope stability analysis, geotechnical design, Phase I Environmental Site Assessments, stormwater management, municipal water and sewer design, civil site design, water

resources analysis/design, natural gas production well pads and roads, and construction monitoring/observation.

## PROFESSIONAL EXPERIENCE

### Civil/Site Design

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

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

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

### Construction Monitoring

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

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

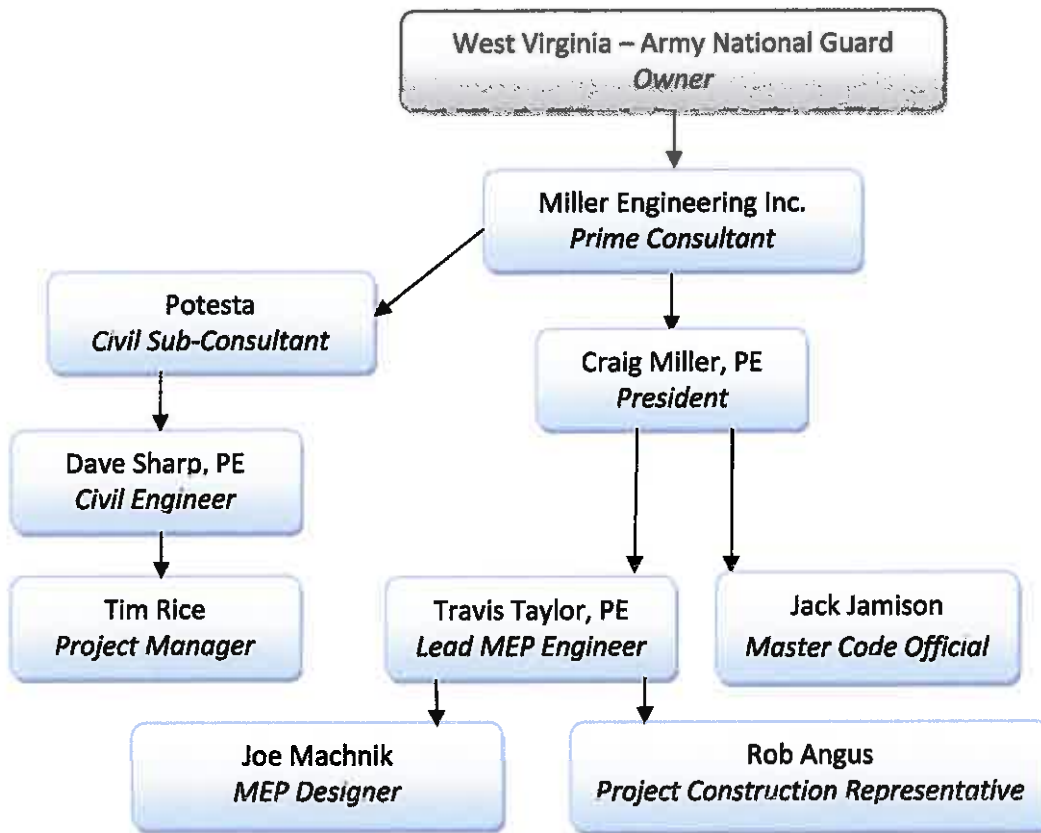
American Campus Communities – Project Manager responsible for the coordination, scheduling, and reporting of the construction monitoring and testing on the Sunnyside Commons Student Housing project at West Virginia University, Morgantown, West Virginia. Construction monitoring included concrete, mortar,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



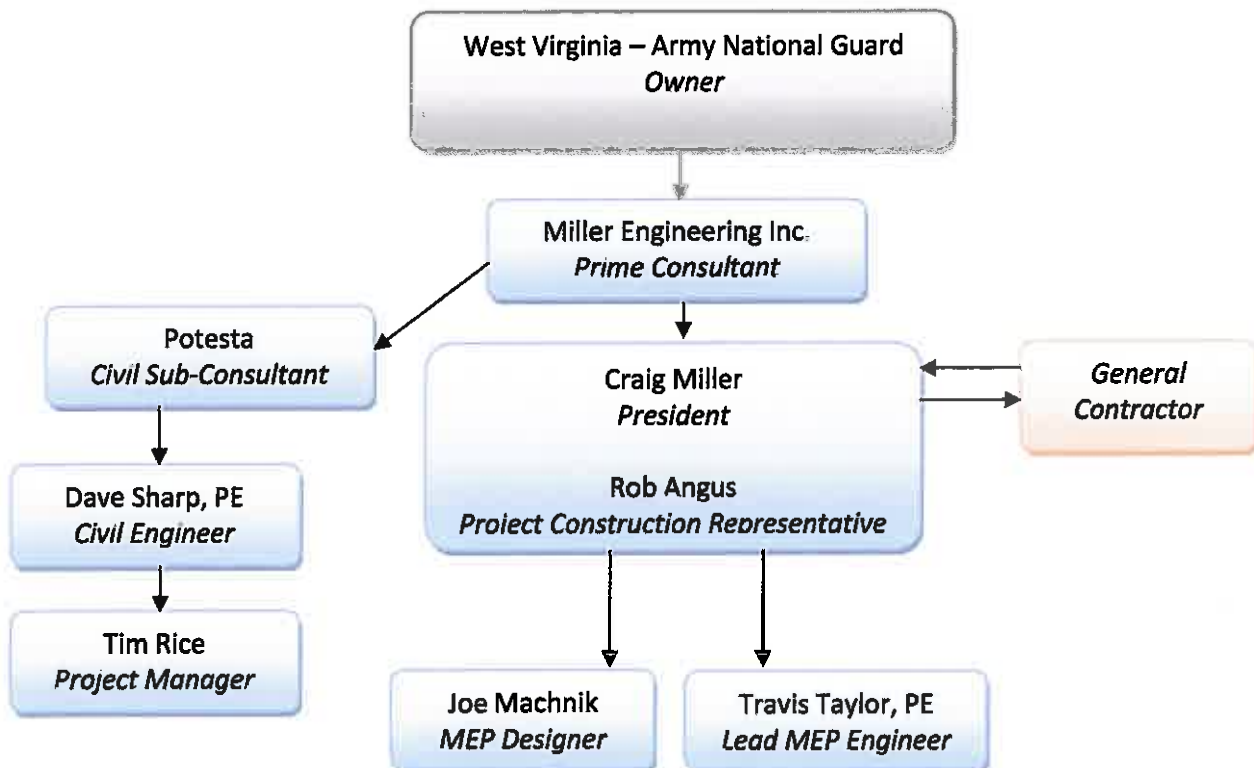
## TAB 2 – PROJECT ORGANIZATION



# Organization Chart – Design



# Organization Chart – Construction





## Staff – Proposed Staffing Plan

**Team Leader/ Primary Point of Contact**

***Craig Miller, PE***

**Engineer in Responsible Charge**

***Craig Miller, PE***

**Electrical Code Specialist**

***Jack Jamison***

**Lead MEP Engineer**

***Travis Taylor, PE***

**Project Construction Representative**

***Robert Angus***

**Lead Designer/BIM Specialist/  
BIM Coordinator**

***Joseph Machnik***

**Civil Engineer**

***Dave Sharp, PE***

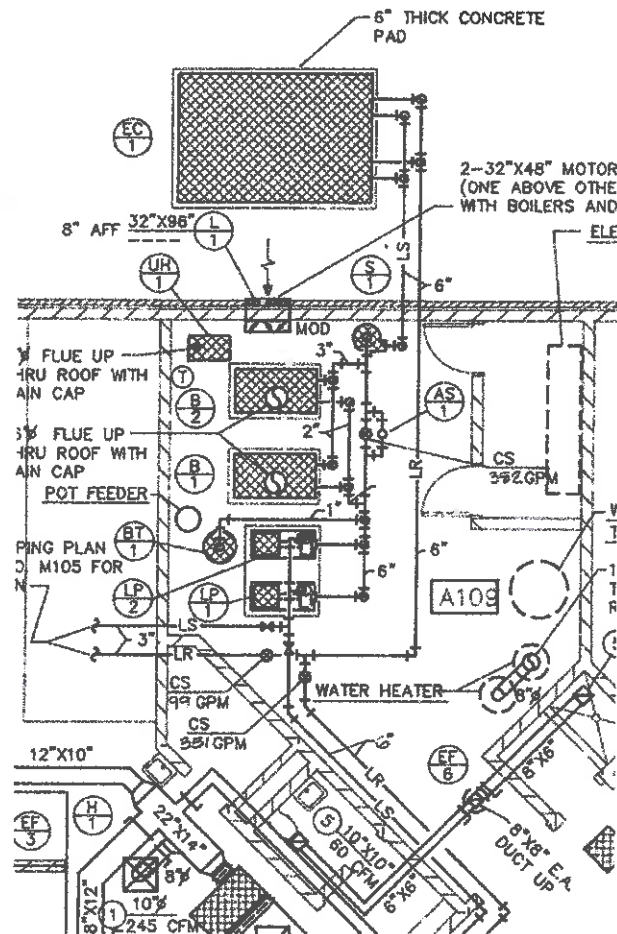
**Project Manager**

***Time Rice***

*\*See Tab 2 for Staffing Resumes*



## TAB 3 – EXPERIENCE





*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*

“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*

<p><b>Brad Leslie, PE</b>  <i>Assistant Chief          WV Division of Natural Resources          State Parks Section          324 4<sup>th</sup> Avenue          South Charleston, WV 25303          (304) 558-2764 ext. 51823  <a href="mailto:Bradley.S.Leslie@wv.gov">Bradley.S.Leslie@wv.gov</a></i></p>	<p><b>Kerri J. Wade, MSW</b>  <i>Extension Agent - Kanawha County          West Virginia University          4700 MacCorkle Avenue, SE          Suite 101          Charleston, WV 25304          304.720.9573  <a href="mailto:Kerri.Wade@mail.wvu.edu">Kerri.Wade@mail.wvu.edu</a></i></p>	<p><b>J. Douglas Carter</b>  <i>General Manager          Potomac Valley Transit Authority          185 Providence Lane          Petersburg, WV 26847          (304) 257-1414  <a href="mailto:icarter@potomacvalleytransit.org">icarter@potomacvalleytransit.org</a></i></p>
<p><b>Bob Ashcraft</b>  <i>School Safety &amp; Loss Coordinator          Monongalia County Schools          533 East Brockway Street          Morgantown, WV 26501          (304) 276-0152  <a href="mailto:rbashcraft@access.k12.wv.us">rbashcraft@access.k12.wv.us</a></i></p>	<p><b>Mike Trantham</b>  <i>Program Administrator Senior          WVU Environmental Health &amp; Safety          P.O. Box 6551          975 Rawley Avenue          Morgantown, WV 26506          (304) 293-5785  <a href="mailto:Mike.Trantham@mail.wvu.edu">Mike.Trantham@mail.wvu.edu</a></i></p>	<p><b>Richard J. Briggs</b>  <i>Vice President          Lutz Briggs Schultz &amp; Associates Inc.          239 Country Club Drive          Ellwood City, PA 16117-5007          (724) 758-5455  <a href="mailto:lbsa@zoominternet.net">lbsa@zoominternet.net</a></i></p>

*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.

## Project Experience: Electrical Inspection

### Electrical Inspection Services (3<sup>rd</sup> Party)

Area of Coverage: Predominantly Northern and Central WV

#### Services Provided:

- Electric Inspection
- Code Review
- Professional Witness

Fee Vary with Service and by year  
Owner: Varies



Several years ago, the electrical utilities in West Virginia began requiring third party inspections of electrical service new installations. This applies to both residential and commercial customers and is to reduce the hazards associated with inexperienced personnel making mistakes. MEI has offered this service for some 9 years and during that time, we have performed many thousands of residential and many hundred commercial services inspections.

In addition, we have done whole facility code evaluations; reviewing existing conditions and reporting hazards to building owners. We are the building inspectors of record for some small towns in Northern WV and have been consulted with by the WV State Fire Marshal's Office on occasion.

Additionally, we work as professional witnesses, assisting attorneys as a technical resource in litigation related to deaths, fires, and shocking cases. We have been complimented for our ability to explain technical issues and our realistic assessments of situations

Project Contact:  
*References Available on Request*

## Descriptions of Past Projects Completed – High Voltage Repair

### Holly River State Park

Hacker Valley, WV

#### Services Provided:

- High Voltage Electrical Design
- Emergency Repair
- Installation

**Estimated Budget: \$2.4M**

**Facility Area: 8,101 acres of recreational space**

**Owner: West Virginia Division of Natural Resources**



Emergency electrical supply was restored to select areas of the park in phase 1 due to the timing of the storm and the onset of winter. Phase 1 was a priority for the owner (WVDNR) and went from start of design to bid in less than 4 weeks. Coordination with the DOH and the DEP were facilitated during this short turnaround in order to restore electrical supply to the administrative areas.

Our team designed and developed a plan to restore power to the park and reduce future outages. MEI's design solution opted for burying 2.5 miles of electrical supply cabling in conduit, demo of the existing storm damage-prone overhead service, reclaiming PCB transformers and re-connecting all existing electrical loads. During Phase 1, MEI noted several concerns and safety issues which needed to be addressed long term.

MEI worked with the client to both document and estimate the cost to address code deficiencies and issues, which the client used to secure funding. Phase 2 design of the replacement of 9,000 feet of high voltage cabling and PCB transformers has been completed and is bidding.

Phase 2 addresses the long-term reliability and code deficiencies in the remainder of the park, particularly the campground areas.

#### Project Contact:

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

## Descriptions of Past Projects Completed – New Construction

### Preston County 911 Center

#### Services Provided:

- Mechanical
- Electrical
- Plumbing
- Fire Protection
- Fire Alarm

**Estimated Budget: \$2M**

**Facility Area: 7,000 ft<sup>2</sup>**

**Owner: Preston County**



The 7,000 ft<sup>2</sup> facility incorporates many features to increase the facility's reliability and functionality as a county-wide emergency operations center, in addition to being a 911-service call center. The HVAC system serving the 911 center and its supporting data center are redundant and incorporate a "shelter in place" function to seal them from outside air should the need arise. The training facility is equipped with HVAC systems and power/data cabling to permit it to function as an emergency operations center. The facility has a dual fuel emergency generator which serves the 911 center and the training room/operations center. The building water, electric and tel/data/cable utilities each required special attention and coordination with the service providers.

Project Contact:  
Duane Hamilton  
Preston OES  
Phone: (304) 329-1855

## Descriptions of Past Projects Completed – Fire Suppression

### FMW Composites Building

#### Services Provided:

- Electrical
- Plumbing
- HVAC
- Fire Protection
- Fire Alarm

**Estimated Budget: \$3.8M**

**Facility Area: 15,000 ft<sup>2</sup>**

**Owner: FMW Composite Systems**



The facility's production process utilizes explosive hydrogen and propane requiring electrical, HVAC and plumbing systems to be explosion-proof. The project required extensive review of air movement (supply, exhaust, room-to room) within and outside the facility. The processes also use chemicals which can emit vaporous hydrochloric acid, requiring emergency ventilation systems. An extensive code review process was performed as well as design of a foam-based fire suppression system. Process gasses flow from exterior bulk storage to the process equipment through a piping network. Significant complexity was added as the roof structure could not support any HVAC equipment and location, footprint and services were already established during building of the shell.

Project Contact:  
*Richard Colebank, PE*  
*Alpha Associates*  
Phone: (304) 296-8216

## Descriptions of Past Projects Completed – Renovation

### Clear Mountain Bank - Reedsville

#### Services Provided:

- Mechanical
- Electrical
- Plumbing
- Fire Alarm

**Estimated Budget: N/A**  
**Facility Area: 2,700 ft<sup>2</sup>**  
**Owner: Clear Mountain Bank**



Work included demolition of the main level of the existing building and reconstruction on the existing basement walls. Project consisted of traditional air handlers located in the basement, all new lighting including decorative tension-suspended fixtures and exterior pole lights, and integration of bank security and operational systems. Goals included re-use of the existing utility services and construction efforts kept the existing safe deposit vault intact and operational.

Project Contact:  
*Cindy Tehrani, Assistant Vice President*  
*Clear Mountain Bank*  
*(304) 379-2265*



## Descriptions of Past Projects Completed – Switchgear

### Pipestem State Park

#### Services Provided:

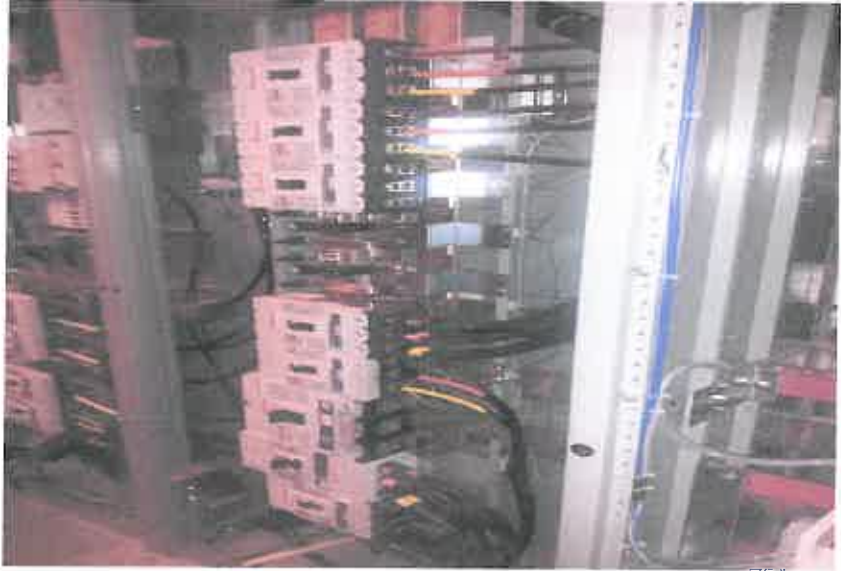
- Design
- Replacement

**Estimated Budget: \$180k**

**Facility Area: N/A**

**Owner: West Virginia**

**Department of Natural  
Resources**



The project replaced an existing 480V, 2,000 amp switchgear serving half of McKeever Lodge at Pipestem State Park. The existing switchgear experienced water damage due to a burst HVAC line. The new switchgear incorporates electronic trip breakers compared to the original fused switches. Fault indication was added to the switch gear to reduce personnel hazards. Additional grounding of the equipment, enclosures and raceways were also included in the project. The existing switchgear had to be repaired so it could operate temporarily until the project could be completed. Miller Engineering, along with the DNR's electricians and maintenance staff, were able to repair the existing equipment for temporary use.

**Project Contact:**  
*Brad Leslie, PE*  
*WVDNR State Parks Section*  
*(304) 558-2764*

## 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



## TAB 4 – 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: 481522

Doc Description: Camp Dawson Underground Utilities Design

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2018-08-07	2018-08-29 13:30:00	CEOI 0603 ADJ1900000006	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**

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

*[Handwritten Signature]*  
 Signature X

FEIN # 86-1081386

DATE August 27, 2018

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)

  
\_\_\_\_\_  
(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, Owner

\_\_\_\_\_  
(Printed Name and Title of Authorized Representative)

August 27, 2018

\_\_\_\_\_  
(Date)

304-291-2234

\_\_\_\_\_  
(Phone Number) (Fax Number)

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: CEOI ADJ1900000006**

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

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

**Addendum Numbers Received:**

*(Check the box next to each addendum received)*

- |   |  |      |
|---|--|------|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  | None |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7  |      |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8  |      |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9  |      |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |      |
|   |  |      |

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

Miller Engineering, Inc.

Company \_\_\_\_\_

  
Authorized Signature \_\_\_\_\_

August 27, 2018

Date \_\_\_\_\_

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

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**MANDATE:** 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 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: August 27, 2018

State of West Virginia

County of Taylor, to-wit:

Taken, subscribed, and sworn to before me this 27 day of August, 2018

My Commission expires March 1st, 2021.

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]

Purchasing Affidavit (Revised 07/01/2012)

