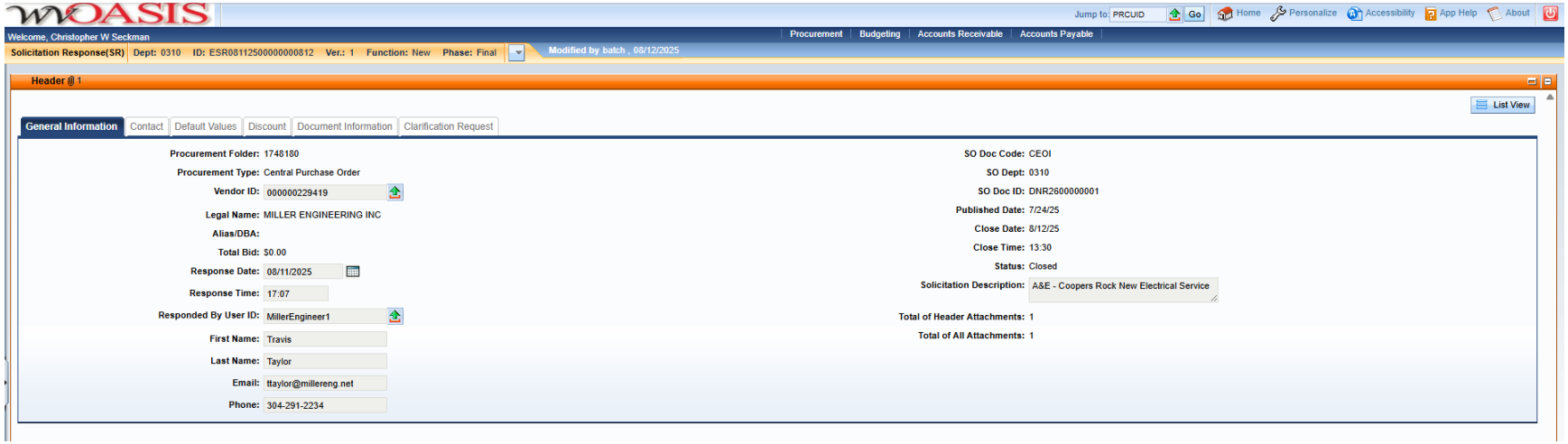
The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency 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.


wvOASIS
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Home
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Accessibility
App Help
About
Welcome, Christopher W Seckman
Procurement | Budgeting | Accounts Receivable | Accounts Payable
Solicitation Response(SR) Dept: 0310 ID: ESR08112500000000812 Ver.: 1 Function: New Phase: Final
Modified by batch , 08/12/2025
Header 1
List View
General Information
Contact
Default Values
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Document Information
Clarification Request
Procurement Folder: 1748180
Procurement Type: Central Purchase Order
Vendor ID: 000000229419
Legal Name: MILLER ENGINEERING INC
Alias/DBA:
Total Bid: $0.00
Response Date: 08/11/2025
Response Time: 17:07
Responded By User ID: MillerEngineer1
First Name: Travis
Last Name: Taylor
Email: ttaylor@millereng.net
Phone: 304-291-2234
SO Doc Code: CEOI
SO Dept: 0310
SO Doc ID: DNR2600000001
Published Date: 7/24/25
Close Date: 8/12/25
Close Time: 13:30
Status: Closed
Solicitation Description: A&E - Coopers Rock New Electrical Service
Total of Header Attachments: 1
Total of All Attachments: 1

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

State of West Virginia
Solicitation Response

Proc Folder:	1748180
Solicitation Description:	A&E - Coopers Rock New Electrical Service
Proc Type:	Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2025-08-12 13:30	SR 0310 ESR08112500000000812	1

VENDOR

000000229419
MILLER ENGINEERING INC

Solicitation Number: CEOI 0310 DNR2600000001

Total Bid: 0 **Response Date:** 2025-08-11 **Response Time:** 17:07:44

Comments:

FOR INFORMATION CONTACT THE BUYER
Joseph (Josh) E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

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

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Professional engineering services				0.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments:

Extended Description:

Design and contract administration services of new electrical service at Coopers Rock State Forest.

Statement of Qualifications
Cooper's Rock State Forest Electrical Infrastructure
Bruceton Mills, WV

11 August 2025

304-291-2234 (ext. 102) | 54 West Run Rd. | Morgantown, WV 26508 | www.MillerEng.net

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The Miller Engineering Difference

We are very pleased to submit our response the WV DNR Cooper's Rock Electrical Infrastructure Project request for expressions of interest. We have elected to submit as prime consultant due to MEI's past history working with WVDNR and the nature of the project. I will serve as Project Manager and lead the team, closely supported by Travis Taylor. MEI has operated in this role many times before on renovations and infrastructure projects including high voltage electrical infrastructure projects for the City of Huntington, multiple generator projects, the WV Capital Complex Chiller Plant, and Holly River High Voltage Repairs. We are currently the prime consultants on several WV National Guard Projects and have also served as the prime consultant on many other projects for various clients and state agencies.

MEI is pleased to team with two firms for this project – RK&K Engineering, and Lemley Technologies. RK&K will interface to the WV Dept of Highways and Tom Caldwell has extensive experience both interacting with and within the DOH. Chuck Lemley is a former First Energy engineer who will provide support to the project on an as needed basis. Having worked with Lemley over many years, we have full confidence in our members. MEI may, with DNR's approval of the entity, add third party testing as the project need might arise.

At 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. Our hands-on experience with the systems we design result in practical and constructible designs. We want to set up our clients to be self-sufficient at the end of a project, while working with them and being available every step of the way.

Most every renovation we do requires a phased approach to keep the facility in operations. As we understand the project, phased delivery will be essential to minimize impact on Cooper's Rock. We routinely deliver phased renovations for educational, institutional, commercial, and government facilities. Every project we do has a particular set of standards of design and peer review 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 betterment change order percentage over the last 18 years is less than 0.1%, actually some $38,000, 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.

While MEI's portfolio covers all types of construction, the majority of our projects are focused on renovations and repairs. Understanding and documenting the existing conditions are critical to renovation work and we use "boots on the ground", along with many years of high voltage project experience over the last 30+ years, to accomplish that. 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 WV DNR Cooper's Rock Electrical Infrastructure project and we look forward to the chance to discuss the project in an interview.

Best Regards and Good Luck with the Project,

Craig Miller, PE
President/Owner
Miller Engineering, Inc.
11Aug24

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ENGINEERING, INC.

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 14 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 AddressVoice/Data/CATV
Urgent Response

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

Facility Utilization
Systems Assessment & Solutions
Adpative 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

304-291-2234 (ext. 107) | 54 West Run Rd. | Morgantown, WV 26508 | www.MillerEng.net
West Virginia | Pennsylvania | Maryland | Ohio

RK&K Qualifications

FIRM OVERVIEW

Headquartered in Baltimore, Maryland with an office in Keyser, West Virginia for over 26 years, RK&K is a full-service planning, engineering, environmental, and construction firm serving a wide range list of clients in the mid-Atlantic , Central, and Southeastern United States. Fueled by a talented and diversified staff, RK&K provides creative solutions to complex challenges that improve the quality of life in our communities.

To its clients, the firm delivers concepts, process and outcomes that are designed for success. RK&K has earned its reputation as a trusted partner, responsive employer and community steward. RK&K's technical expertise consistency results in award-winning projects – placing us at *#76 on the Engineering News Record's 2025* listing of the Top 500 Design Firms.

UTILITY EXPERIENCE

RK&K has extensive experience in providing engineering services for a variety of utility projects throughout. We offer a comprehensive range of utility engineering expertise, which includes the following in-house disciplines:

- ✓ **Topographic, Utility, and Boundary Surveying:** We conduct detailed surveys to accurately map existing utilities and assess potential conflicts with proposed designs.
- ✓ **Master Plan Development:** Our team develops strategic master plans that incorporate utility considerations from the outset.
- ✓ **Environmental Studies and Permits:** We navigate the complexities of environmental regulations to secure necessary permits for utility projects.
- ✓ **Site Engineering and Analysis:** Our engineers perform thorough analyses to ensure that utility installations are optimally designed and integrated into the site.
- ✓ **Infrastructure Analysis:** We evaluate existing infrastructure to identify necessary upgrades or modifications.
- ✓ **Earthwork Analysis:** Our team assesses earthwork requirements to facilitate utility installations.
- ✓ **Access Roads and Parking Lot Layouts:** We design access roads and parking layouts that accommodate utility installations and ensure efficient site circulation.
- ✓ **Stormwater Management and Erosion/Sediment Control:** RK&K implements effective stormwater management strategies and erosion control measures to protect the environment during construction.
- ✓ **Scheduling and Permitting Processes:** We manage project schedules and streamline permitting processes to minimize delays.

RK&K has successfully provided these services on various utility projects, demonstrating our capability in utility coordination and management. Notable projects include:

- ✓ **WVDOH East Dailey Bridge over the Tygart Valley River, Randolph County, WV:** RK&K provided comprehensive utility coordination to ensure seamless integration of the bridge with existing infrastructure.
- ✓ **WVDOH Inwood Bypass Phase 2, Berkeley County, WV:** RK&K conducted utility planning and management to facilitate site development.
- ✓ **WVDOH Keyser-McCoole Bridge, Keyser, WV:** RK&K provided utility coordination services to support infrastructure improvements.
- ✓ **VDOT Richmond Highway Corridor Improvements, Fairfax County, VA:** RK&K is preparing construction plans for the widening of nearly three miles of Richmond Highway, which includes extensive utility relocation efforts.
- ✓ **VDOT Route 2 Upgrade from Cresap to McKefrey, Marshall County, WV:** RK&K provided detailed drainage design and utility coordination to ensure compliance with state regulations.
- ✓ **VDOT Limited Services Contract for Drainage Design, Statewide, VA:** RK&K provided analyses, design, and review services for drainage features and utility coordination across multiple regions.

Section C: Project Team Roles

MILLER ENGINEERING

Craig Miller, PE	President, Principal, Project Manager, Point of Contact
Travis Taylor, PE	Lead Engineer
Tyler Trump	MEP Designer, El. Designer
Rowan Barto	MEP Designer

RK&K ASSOCIATES

Tom Caldwell	Project Manager

LEMLEY TECHNOLOGIES

Chuck Lemley, PE, PS	Supporting Engineer

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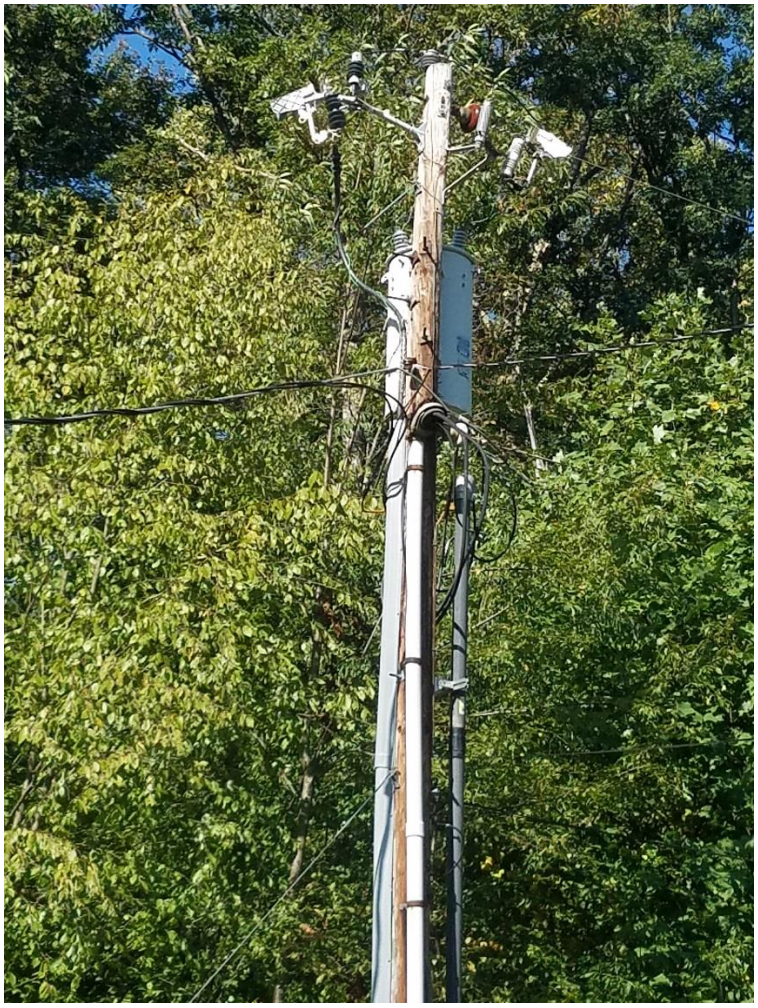
SECTION B – PROJECT GOALS



GOAL1: Evaluation and Planning

Evaluation will begin by performing follow-up site evaluations based on our previous work and a detailed review of the pump stations and their supporting infrastructure. MEI will focus on the electrical portion of the facilities to enhance our knowledge and understanding of the existing system, while RK&K will interact with DOH. We envision both a ground and aerial survey by drone to document the system. We will report our findings and review the initial estimate and budget as we grow our understanding of the project. The evaluation will be the first step in scope definition as we document what we observe and consider design requirements. While this is a replacement of existing, there are some subtleties in the changes to the system to meet codes, and how the project must be implemented.

The need to operate the Forest and the details associated with doing so will be determined in the early meetings surrounding the evaluation of the existing conditions. Initial ideas to accommodate this need will be presented and discussed and will be incorporated into both the estimate and the project scheduling requirements. All of this information will fold into the plan presented to the contractors as part of the bidding documents.

Initial construction schedules and estimates/budgets will be created and any decisions, by either the owner or design team, will be reflected by updating the estimate. Often, budget overruns are caused by many smaller "scope creeps", and monitoring the budget keeps the entire team informed of the impact of decisions. Progress drawings and designs will be presented and submitted in accordance with agreed upon and regulatory requirements.

GOAL 2-SERVICES: Project Design and Delivery Approach

Project Management will be provided with a single point of contact for the duration of the project, Craig Miller. Craig will be supported by Travis, Tyler, and Rowan. He will be lead for all meetings, design, development of design schedules, and coordinate the design team efforts. The key to managing expectations, and a clear understanding of the scope and goals by all involved, is honest communication throughout the project. This will begin with the initial conversations related to Forest operations and logistics. The discussion is documented by meeting minutes, emails, and memos. The project design schedule includes time for reviews and a best estimate of construction time, factoring in equipment delivery times. The design schedule will incorporate goals, or milestones, to keep the design on track. Like the estimate, the schedule has a living component to be monitored and adjusted when the schedule is affected by forces beyond the project team's control.

The inclusion of RK&K to our team is primarily to interface with WV DOH regarding directional boring and the associated rights of way. However, they also have an environmental and natural resources staff who can interface with regulatory agencies should the need arise. Lemley will provide support where needed, particularly in terms of interfacing with the utility and acting as a review partner.

The key to meeting our client's goals and objectives is communication and documentation throughout the design and construction administration process. MEI approaches a project with a team mindset that focuses on honestly and straightforward communication. We work to create a team of all the players on the project. In this particular case, the team members have worked on various projects together, so WVDNR and MEI are known to one another. By building on this relationship history, and incorporating the contractor after bidding, the flow of information is more effective, leading to a better project result. Our "boots on the ground" approach flows from beginning to end of the project. The team will utilize the following methodology to implement the project design:

<u>Schematic</u>

Once the site evaluation is initially complete the team will meet with the owner. The meeting will involve all stakeholders to gain an understanding of the intended project outcomes. MEI will discuss items which will affect the renovation including changes in standards and codes, DNR needs and concerns, current deficiencies and issues, operating methods, operating costs, and construction timeline phasing. MEI will incorporate input from all stakeholders: DNR, MEI, RK&K and DOH. MEI will initiate an issues tracking matrix to follow concerns throughout design. It incorporates information shared by all team members and is modified and signed off by MEI as concerns are resolved. We have found this method to be highly effective in complex projects. Schematic meeting minutes are kept and distributed with open items are recorded on the matrix. Schematic drawings are also prepared as needed.

Schematic review will also include review of any applicable regulatory, safety, and security requirements. Miller Engineering's staff has backgrounds in construction, maintenance, and operations which provide a unique perspective as we do not just think "Will it work?" but also consider "How will it be installed?" and "How well can it be maintained to work as intended?" A majority of MEI's past projects include renovations which must be phased as the owner still occupies the facility. MEI will work with the owner to determine how and when the stations will be renovated to minimize risk during construction, and incorporate these into the project. 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 convey projected costs to the owner.

Design Development

MEI will take input from the owners, and regulatory agencies, based upon review of the 35% design documents and proceed to design development. MEI will continue our conversations with DNR as we work through the “nuts and bolts” of the project. We will not wait until the next meeting to speak with the stakeholders if questions arise. Our philosophy is that the sooner issues are brought forward and addressed, the less they cost to the project in time and money. The estimate will also be updated regularly as MEI treats the working estimate as a "living” document. Any changes or inputs from the owner, as well as other changes which arise, will be reflected in the living estimate. MEI believes in giving the owner the information necessary, including budgetary effects, to make informed decisions regarding the design. We will be working with regulatory agencies, formally and informally to resolve concerns as early as possible. Typically, the design development drawings are around 65% complete and the project specifications are beginning to take shape. We know what systems and equipment we are designing around and are discussing costs and lead times with equipment supplier. The feedback on the progress set will be incorporated into the construction documents and incorporated into the concerns matric.

Construction Documents

The construction documents will be completed using both the results of the progress set reviews and internal peer review. The goal of these documents is to prepare the basis of a legal contract for construction by a competent contractor. 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, and within the team, to ensure the intent of the documents is clearly transmitted. The final 100% construction documents, with completed agency reviews, is issued to the owner for bidding, in which we will assist, along with our best estimate of probable cost.

Quality Assurance is seen as a proactive approach whereas Quality Control is reactionary to previous issues. We strives to develop Quality Assurance methods in projects by incorporating best practices in all aspects of the project design. Our size allows us to self-monitor in real-time, avoiding the blinders that can come with larger organizations. Our communication protocols help assure high quality results across our entire team. Systematic decision-making guide by our concerns matrix, rather than checklist, cookie cutter design, allows the design to grow organically to the various

parameters while ensuring the needs are met. Peer and interdisciplinary document reviews are regularly scheduled events.

Bidding Phase

During bidding, Miller Engineering will assist the owner to successfully procure bids for the upgrades. 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 publically bid projects, and understand the requirements associated with competitive procurement.

GOAL 3-SERVICES: Construction Contract Administration

After bids are received and the contract awarded, MEI is not a firm that disappears until the final punch list. The team will provide thorough construction contract 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. For this project, we envision a detailed scope and schedule review prior to the kick-off meeting. Our team will review submittals and work with the contractor to expedite the longest lead items. MEI believes in conducting construction progress meetings and making both formal and informal site visits to keep the project on track. Meeting minutes are prepared and action items are tracked to the responsible party. 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 tenants 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 delays. 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 outages, major installations/lifts, equipment start-up, and owner training. While these events often 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 types of activities to quickly answer any questions and confirm these items are performed properly in accordance with the construction documents.

We treat punch list as a process, not as a document. By spending time on site throughout the project in our “boots on the ground” approach, we work to “pre-punch” the project on site and reduce last minute delays, concerns, or conflicts. MEI photo documents punch list items and all the items are required to be verified by the individual making the correction, and then accepted by the design team and Owner.

Ensuring the Owner has solid project record documentation is particularly important to long term maintenance and operations, MEI requires production of detailed Operations and Maintenance (O&M) materials, and thoroughly reviews the submitted documents with an eye to the future. MEI will monitor the record drawings “red-lines” on site during the project.

In addition to the punch list process, MEI believes in following the project through the warranty and beyond. We write an 11th month contractor warranty walk-through into all our specifications. This helps to ensure that the warranty requirements have been met and any issues that have developed since final completion are documented and addressed before the warranty expires. We have interceded beyond warranty on the Owner’s behalf with equipment issues or situations involving unaddressed latent defects.

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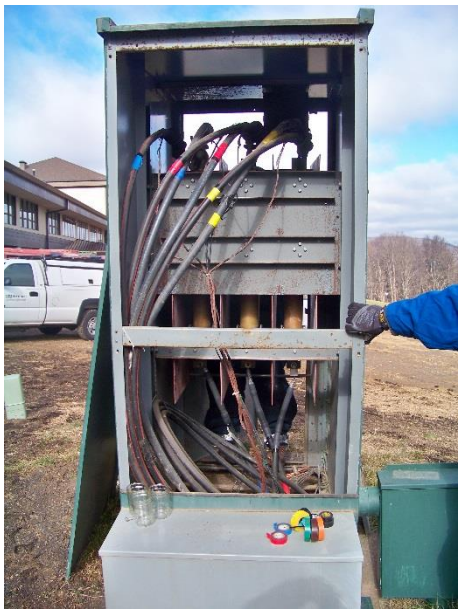
SECTION C – Qualifications, Experience, and Past Performance



ITEM 3:Experience – Statement of Qualifications

Electrical Projects

Primarily electrical projects run the gambit from lighting upgrade to high voltage work. We recently completed an emergency replacement of the Huntington floodwall 4 Pole pump station 34.5KV substation. The original three 1930's 34.5KV/ 4KV single phase transformers had failed oil tests and two were seeping oil. Also original, the open air switchgear had operational and multiple personnel safety concerns. The project consists of two phases, an emergency replacement and a future upgrade. The emergency replacement added a new substation class transformer and constructed a new open air wood pole station adjacent to the existing, expediting cutover and demolition of the old station. MEI located a 15 year old transformer in Colorado which was de-tanked, rebuilt, and shipped in weeks. MEI worked directly the rebuilder and then with the contractor and utility to set, connect, test, and energize the new transformer. Phase 2, as we have master planned and estimated, will replace this temporary substation with a fully redundant dual feed, dual transformer, Main/Tie/Main primary and secondary, substation, with emergency generation capacity. The 4 Pole pump station will have the original 4,160 motor controls for each of the 1,500 pump motors replaced as part of a full pump station power and control upgrade. The funding for Phase 2 is in work at this time.

The WV Dept of Agriculture Ripley Warehouse provides food to school lunch programs throughout the state. The warehouse required increased emergency generation due to facility freezer expansions and upgrades. MEI designed a phased project which utilized a recently acquired generator and a new generator in a walk-in enclosure with transfer switches and switchgear to divide and power the loads. The existing generator had to be relocated to accommodate new power feeder from both the utility and the new generator. The design included determining temporary interconnections and back-feeds, and utility work, to limit any outage to 12 hours of freezer downtime. The project was completed without incident, with MEI on-site during the outages.

The Hurricane Sandy superstorm dumped over four feet of snow on Holly River State Park. The electrical system consisted of two miles of overhead high voltage, installed halfway up the park's steep mountains in the 1920's (not dissimilar to Cooper's Rock) and 3 miles of direct bury underground installed in the 1960's. All of the overhead was destroyed by the snow and the resulting faults damaged the underground cabling. MEI was called in hours after the storm to evaluate the situation and assist in any possible short term restoration, and long term repairs. The steepness of the mountains prevented re-installing the overhead, so an emergency Phase 1 installed new underground through the park in conduit, which was completed in about 100 days. MEI assisted in fault location on the original underground and determined the original cabling needed replacement ASAP. Phase 2 was competitively bid in weeks and the direct buried cable was replaced with cable and conduit before the first anniversary of the

storm. MEI provided a great deal of real-time in the field engineering support to both phases.

Multidiscipline Projects

MEI has successfully completed numerous multiple discipline projects, many as prime consultant, including mechanical, electrical, plumbing, fire alarm, fire protection, site utilities, data, and security/access. Predominantly renovations, most were performed while the buildings remained occupied. We have implemented renovations to WV State Building 25 in Parkersburg as multiple projects over the last 10 years which include a water source heat pump piping and fluid cooler replacement, storage space conversion to office space. We currently have a heat pump replacement, post Covid upgrade of the building outside air system in construction and a building wide electric and lighting upgrade in bidding. The Capacon Lodge Addition and Renovation project increased the lodge by some 300%, adding rooms, a meal prep and catering kitchen, guest spaces and amenities including an indoor pool. The HVAC, electrical, plumbing, fire alarm and data systems in the original lodge were wholesale replace, high voltage utilities were relocated, and new fire protection systems were added. The original medium pressure steam boiler system was replaced with high efficiency hot water boilers, and a new central chiller was added.

One new construction project we are particularly proud of is Advanced Surgical in Washington PA, a fast-track design-build project. The facility includes open heart level surgical suites, imaging and diagnostic, pre and post anesthesia, therapy, overnight stay patient rooms, and offices. The project went from design start to full certification in nine months. We have been informed the PA Dept. of Labor uses the facility as a demonstration facility to train new inspectors. Other multiple discipline projects include:

Keyser Senior Center Renovation
Potomac State Nursing Lab Conversion
Alderson Broaddus Withers Hall
WV DOH District 7 new Multipurpose/ Lab Bldg.
Wesley UMC Renovation
Blackwater Lodge Renovation
South Middle HVAC Renovation

Our experience includes projects in campus environments where multiple facilities on the same site require work. One recent project, the WV Capital Complex Central Chiller Plant Modifications, lowered utility costs by the addition of two 1-megawatt 4,160 volt natural gas generators to drive plant chillers to limit utility demand and provide cooling redundancy during power outages or weather events. A new building houses additional 4,160 volt switchgear interfacing the generators to the existing plant and large heat exchangers and pumps which utilize the plant cooling towers for waterside free cooling. The project also installed automatic transfer switchgear lineups on the primary feeders to provide redundant utility feeds and a 750KW 480 volt generator master planned to a building being renovated to serve as an emergency center.

MEI is currently work with Montum Architecture on renovation to the Mineral County Courthouse campus. The renovation project is addressing space, life safety, deferred maintenance, ADA access, and building infrastructure concerns in the courthouse and the Annex. Additionally, the Annex building is being renovated and a second story added to house the Sheriff's office and support functions. We have completed a number of projects at Pipestem State Park including the Lodge Chilled Water Interconnect, Outdoor Pool and Bathhouse Evaluation and Repairs, Electrical Switchgear Emergency Repairs and Replacement, Lodge HVAC Piping Repairs, Swimming Pool Evaluation and Repairs, New Park Sprayground, Campground Utility Upgrades, Pro Shop HVAC and Roof Replacement, Lodge Chiller Repair, Tram Repairs, and Lodge Fire Alarm Replacement and Electrical Corrections. A fire alarm replacement for the Visitors Center, Lower Tram, and Wolf Creek Lodge is currently under construction.

GSD Elevators Phase 1 and 2
D&E High Voltage and Boiler Replacement
Canaan Valley State Park High Voltage Renovations

Please see the following pages as they relate to the Cooper's Rock Project Qualifications, Experience, and Past Performance:

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
- WVANG Bridgeport FWAATS Restroom Renovations
- ChalleNGe Academy Maclin Hall Make Up Air Unit Replacement
- Advanced Surgical Hospital
- Camp Dawson FMS4 Fire Protection
- Chief Logan Lodge HVAC Renovations
- WVANG Child Development Center HVAC Upgrades
- Cacapon Lodge Addition & 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

- WVANG Bridgeport FWAATS Restroom Renovations
- WVANG USPFO Buckhannon Restroom Renovations
- Camp Dawson FMS4 Fire Protection
- WVANG Jackson County AFRC Canopy
- WV State Building 25 (Piping, HVAC, Lighting)
- Mineral County Commission Facility Additions & Renovations
- Blackwater Falls Lodge Renovations
- WVANG Child Development Center HVAC Upgrades
- Huntington Floodwall Automation

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, Maryland
- OSHA 10-hour Course: Construction Safety & Health

Tyler Trump

Tyler joined Miller Engineering in August 2022. A recent graduate of West Virginia University, he has been eager to learn the means and methods of MEP consulting. Tyler assists the MEP design team with design calculations and is rapidly learning design software such as Autodesk REVIT and Hourly Analysis Program by Carrier. He is also learning construction administrations along with building, electrical, and plumbing codes and standards. Tyler 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

- Cass Scenic Railroad State Park Campground
- Lost River Campground
- WVANG Child Development Center HVAC Upgrades
- USPFO Buckhannon Restroom Renovations
- WV Building 25 Lighting Upgrades
- Ronald McDonald House Morgantown Addition & Renovations
- McKeever Lodge Boiler Replacement
- Chief Logan Lodge HVAC Renovations
- ChalleNGe Academy Maclin Hall Make Up Air Unit Replacement
- Patriot Guardens Electrical Design

Professional History

2022- Present Miller Engineering, Inc. MEP Designer

Education

2022 West Virginia University, BS - Mechanical Engineering

Licenses and Certifications

Rowan Barto

Rowan joined Miller Engineering in June 2025 as a recent graduate of West Virginia University. Eager to grow in the field of MEP consulting, she supports the design team by performing design calculations and is quickly gaining proficiency in industry-standard software such as Autodesk Revit and Carrier's Hourly Analysis Program. Rowan is also developing her knowledge of construction administration as well as building, electrical, and plumbing codes and standards. She is currently preparing to take the Fundamentals of Engineering exam.

Project Role: MEP Designer

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

Professional Project Highlights

- WVAW Eastern Operating Area Field Services Building
- Potomac Valley Hospital OR, PACU, Life Safety Renovations
- Camp Dawson FMS4
- Garrett Regional Medical Center LINAC Renovations

Professional History

2025- Present	Miller Engineering, Inc.	MEP Designer

Education

2025 West Virginia University, BS - Mechanical Engineering

Licenses and Certifications

TOM CALDWELL, TRETCNO

Utility Coordination

EDUCATION

- ✓ BS, Interdisciplinary Studies
- ✓ AS, Applied Science

REGISTRATION

- ✓ Engineering Technologist, Level V, WVDOT #1526

YEARS OF EXPERIENCE

- ✓ 33

Tom has 33 years of experience in engineering inspection, supervision, and project/construction management. Specializing in roadway construction, utility coordination, and water and wastewater systems, Tom has a proven track record of leading complex utility relocation and coordination efforts on major transportation projects. His extensive background includes utility and railroad coordination for the WVDOH District Five office from 2009-2024, where he supervised numerous projects and assisted in design-build initiatives. Tom continues to drive innovation in utility coordination and project management, ensuring compliance with regulatory standards and the successful completion of high-profile infrastructure projects.

PROJECT EXPERIENCE

WVDOH | WV Route 9 and County Routes 1, 9/21 & 9/30 Roundabout, Martinsburg, WV: Tom serves as utility coordinator for the preparation of contract plans and related documents for the design of intersection improvements at County Route (CR) 1 (Harlan Springs Road), CR 9/21 (Stribling Road) and CR 9/30 (GM Access Road) to West Virginia Route (WV) 9 near milepost 10.38. The improvements consist of a four-leg roundabout at CR 1 and CR 9/21, and the addition of dual left turn lanes on CR 9/30. Traffic will be maintained on WV 9, CR 1, CR 9/21 and CR 9/30 during the construction. RK&K will supplement the traffic data provided by the Department as required. The project also includes the preparation and submission of a Traffic and Safety Analysis.

WVDOH | WV 9 SCHOOLHOUSE DR I/S IMPROVEMENT, located in Berkeley County, WV: Tom serves as utility coordinator for WV 9 at milepost 6.53 and is approximately 0.2 mile long. The project includes the intersection of WV 9 and County Route (CR) 9/33 (Schoolhouse Drive). This project shall consist of the preparation of contract plans for the construction of intersection improvements at WV 9 and CR 9/33.

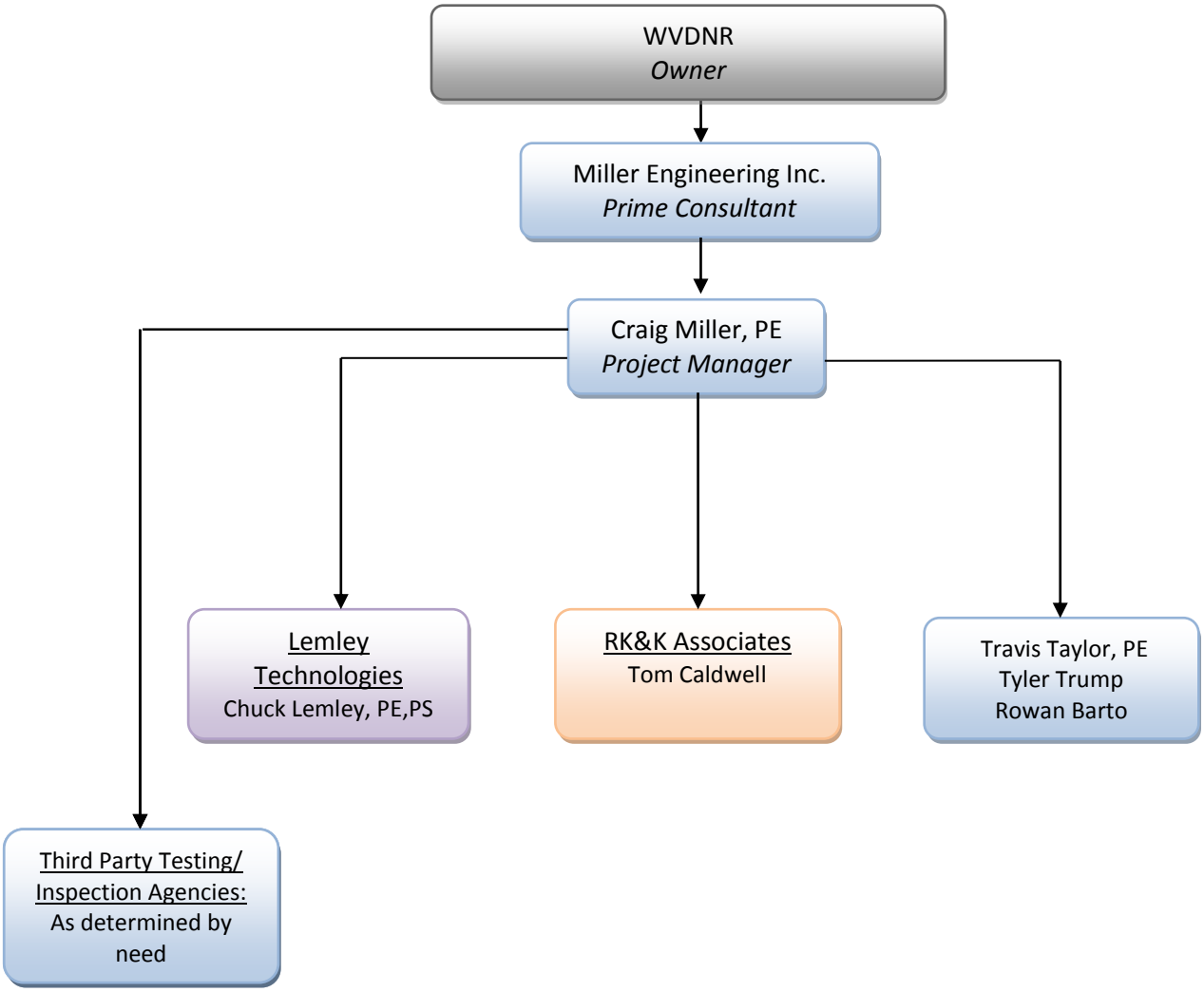
Keyser | Sidewalk Improvements, Keyser, WV: Tom serves as utility coordinator for the evaluation and rehabilitation of segments of the existing sidewalk system. RK&K has been engaged to provide professional engineering design services for this project, which aims to replace approximately 1,650 feet of 10-foot-wide sidewalks along both sides of North Main Street between West Piedmont Street and Armstrong Street.

Prior to RK&K

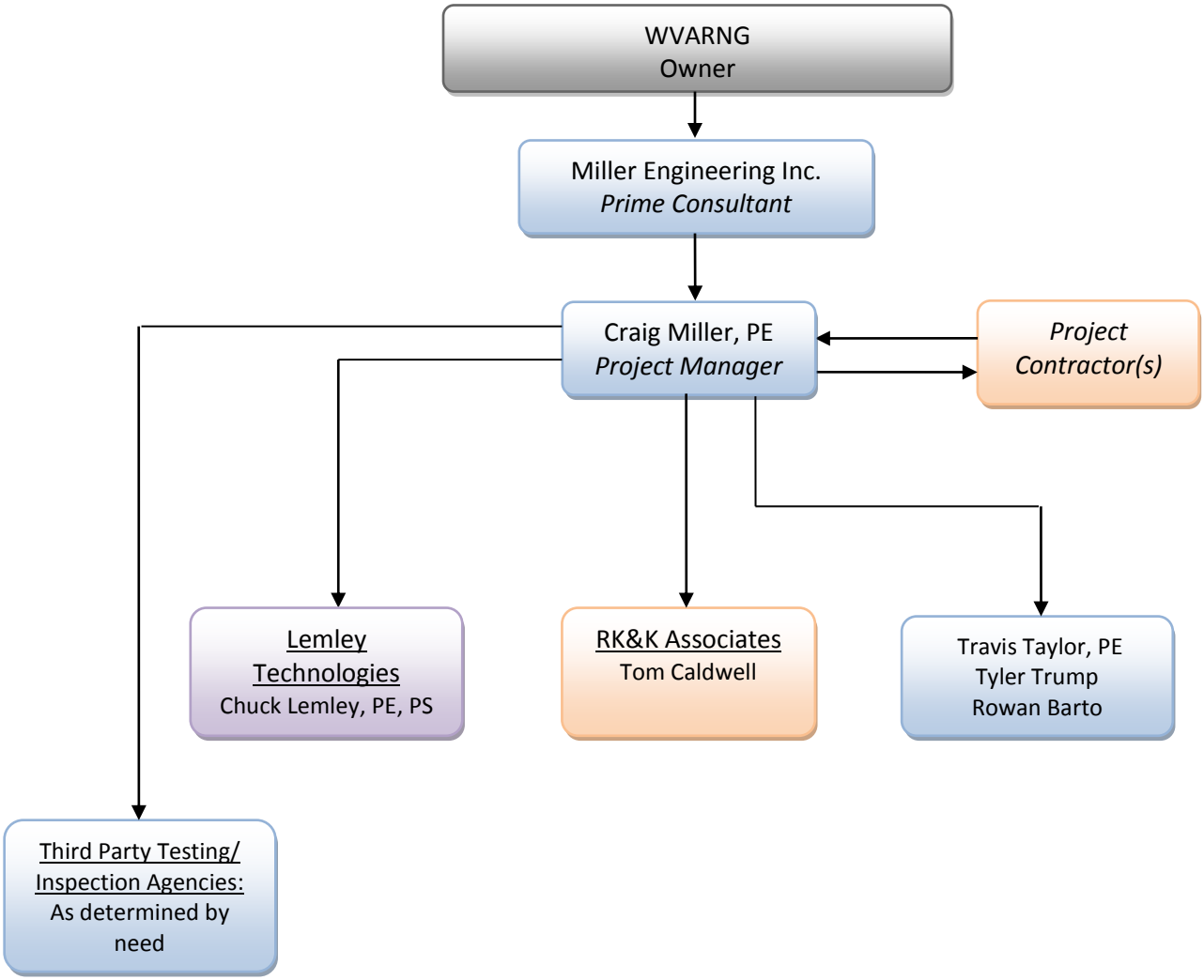
WVDOH | District Five Utility Supervisor, Multiple Locations, WV: Tom served as supervisor for utilities section for seven counties, overseeing both office and field staff. His primary responsibilities included reviewing and approving plans and permit applications for utility companies, acting as the main liaison for various utility services, and coordinating inspections and utility relocation work on construction and maintenance projects. Additionally, he administered agreements between utilities, railroads, and WVDOH, ensuring compliance with state codes. He interacted with other state agencies, reviewed traffic control plans, and handled citizen complaints. He played a key role in updating the WVDOH Utility Manual, developing the Permit Portal and E-Permitting system, and organizing meetings with utility companies to discuss upcoming projects and potential impacts. His role involved reviewing, auditing, and approving invoices for reimbursement payments, ensuring efficient and smooth operations within the Utilities Section.

WVDOH | District Five Finals Supervisor, Multiple Locations, WV: Tom served as supervisor for construction and resurfacing projects, verifying the location, measurement, quantity, quality, and progress of work. He ensured that all work was accurately documented and in compliance with governing specifications and contract documents. Tom verified the method of measurement, accuracy of calculations, and computations used to establish pay quantities, ensuring that only work performed and accepted according to the specifications was included for payment. Additionally, he trained personnel in proper documentation and inspection practices and developed a system for tracking construction and resurfacing projects from award date to final payment. Tom's comprehensive oversight and management ensured smooth and efficient operations within the District Five Finals Section.

Organization Chart – Design



Organization Chart – Construction



Experience – Electrical

Huntington Fourpole Substation Repairs and Floodwall Pump Station Automation

Huntington, WV

Services Provided:

- HV Design
- Procurement Assistance
- Backup Power
- Electrical
- Controls

Fourpole: no budget - emergency
Automation Budget: $780K
Automation Cost: $785,993
No known CO's
Owner: Huntington Stormwater Utility,
Patrick A. Taylor, PE, Senior Engineer
Huntington Water Quality Board
ptaylor@huntingtonsb.com
Office: 304-781-1907/Cell: 304-993-7999
555 7th Ave
Huntington, WV 25701

Construction Schedule: unknown, MEI was not retained for contract administration. Work on the project is ongoing.

Potesta Project Contact:
Mark Sankoff, PE
Potesta & Associates
(304) 342-1400
masankoff@potesta.com

As a sub-consultant to Potesta under their MASTER AGREEMENT, Miller was asked to evaluate and make recommendations related to the Fourpole Substation to address immediate concerns with equipment life. Miller Engineering designed a new temporary substation to replace the ancient step down transformers and switching structure serving the main four pole station, and 3 smaller stations, prior to their failure. MEI located and assisted in the procurement and delivery of a re-manufactured transformer in a relatively short time. MEI reviewed the installing contractor's construction upon completion. MEI also evaluated the electrical systems of the Four Pole main pump station and the three smaller stations served by the substation. MEI worked with AEP on initial planning to eliminate single source upstream failures from the utility and schematically master plan solutions.

Miller Engineering worked with Potesta and Associates to design upgrades to the automation of the seventeen floodwall pump stations. SCADA units with cellular capability are utilized to monitor and transmit alarms from each station. A service rated manual transfer switch was installed at each station to will allow the staff to connect a portable generator at each facility to keep the automation and monitoring online.

Descriptions of Past Projects Completed – High Voltage Repair

Holly River State Park

Hacker Valley, WV

Services Provided:

- High Voltage Electrical Design
- Emergency Bidding
- Emergency Repair
- Installation

Emergency Repair - No Budget:
Total Cost: Approx $2.4M
Ph 1: 60 day completion
Ph 2: 90 day completion
Owner: West Virginia Division of Natural Resources

Project Contact:
Bradley S. Leslie, PE, Assistant Chief (ret.)
WVDNR State Parks Section
324 4th Avenue
South Charleston, WV 25303
(304) 389-7663
brad.s.leslie@wv.gov

Alternate contact:
Roger Wolfe, PE Project Engineer
WV DNR
(304) 550-8137
roger.c.wolfe@wv.gov

Emergency design and acquisition of contractor for emergency complete replacement of pole mounted HV electrical distribution with underground system after Hurricane Sandy completely destroyed the overhead section of the park distribution. 1.7 miles of underground was designed, emergency bid, and installed in 60 days. 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 emergency bid in less than 10 days. Coordination with the DOH and the DEP were facilitated during this short turnaround. Our team designed and developed a plan to restore power to the park and reduce future outages. MEI's design solution opted for burying 1.7 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. Phase 2 involved the replacement of approximately, 13,000 feet of direct buried 15kV cable with new 15kV cable in conduit, which failed 4 months after Ph1 was completed. Phase 2 also involved replacing "pit" mounted transformers with proper pad mounted transformers to provide 240V power to the campground area. The campsites were equipped with new RV power pedestals to provide electrical power to each campsite. Both project phases were successfully completed in record time.

Experience –Electrical & Mechanical

Capital Complex Chiller Plant Generators

Services Provided:

- Evaluation – Study
- Electrical
- Mechanical
- Plumbing

Project Budget: $6.75M
Project Cost: $7.26M
No change orders
Original Duration: 14 months
Actual Duration: 24 Months (COVID)
Owner: WV GSD

WV General Services wished to reduce electrical demand, and thereby costs, to operate the Capital Chiller Plant and provide emergency cooling. MEI was commissioned to develop and evaluate options, make a recommendation, and then design and manage the construction of the solution. MEI designed a generator system, incorporating 2 – 1 megawatt natural gas engine driven, along with the associated 4,160 volt switchgear, switching controls, and significant low voltage electrical systems and controls, to automate the systems based on real-time electrical demand. We performed full construction administration on the project, including overseeing quality and minimizing down-time impact on the Owner, which was limited to 22 hours over one weekend. The $6.75M system has been in operation for three years and is saving the taxpayers over $275,000 per year with significantly increased operational reliability. The project also installed some 800 horsepower of new pumping capacity to utilize free cooling. The project was completed in May of 2022. COVID issues delayed the delivery of the generators by some 10 months.

Project Contact:
Dave Parsons
Energy Manager
WV GSD
Bldg 1
Charleston, WV
304-550-9650
david.k.parsons@wv.gov

Descriptions of Past Projects Completed – Electrical

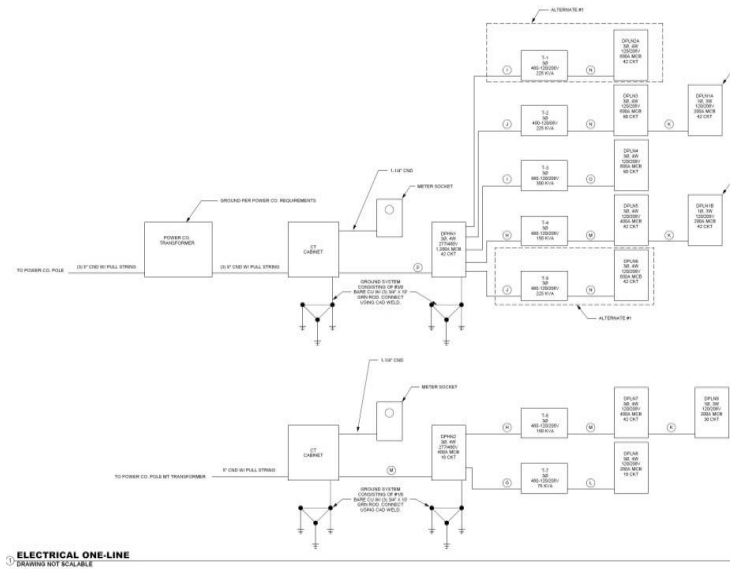
Cass Scenic Railroad Campground

Cass, WV

Services Provided:

- Electrical
- Mechanical
- Plumbimg

Construction Budget: $8m
Owner: West Virginia Division of Natural Resources



MEI served as the MEP consultant to Ghosh Engineers and Montum Architecture on the new campground for the Cass Scenic Railroad. The campground will consist of 100 campsites with electrical hookups, 2 bathhouses, and a check-in building. MEI designed the electrical distribution to serve the campsites and buildings. The bathhouses will contain individual bathrooms with shower facilities, laundry rooms, and mechanical support spaces. MEI designed the plumbing, electrical, and HVAC for the bathhouses and check-in buildings. MEI also provided electrical power to RV sewer lift stations. The project is currently under construction with an anticipated completion date in 2026.

Project Contact:
Don Bailey
WVDNR State Parks Section
(304) 558-2764

Descriptions of Past Projects Completed – Electrical

Ripley Warehouse Electrical Upgrades

Ripley, WV

Services Provided:

- Backup Power
- Electrical
- Construction Administration

Estimate: $900k
Bid Amount: $935K
No change order for cost
Original Time Estimate: 270 days
Contract Time: 270 days
Contract Extension: 60days (COVID)
Facility Area: Approx 42,000 sq ft
Owner: WV Dept. Of Agriculture

The West Virginia Department of Agriculture (WVDA) Ripley Warehouse houses the food distribution program storage, primarily for WV K-12 schools. The facility consists of office space, commodity warehouse, and approximately 20,000 square feet of cooler & freezer space for storing food. The WVDA was looking to expand its cooler / freezer space, thus requiring an electrical service upgrade to handle the additional cooler / freezer compressor loads. MEI performed a thorough evaluation of the existing electrical service and distribution system. After reviewing the system, performing load calculations, and coordinating with the refrigeration vendors, determined the service should be increased from 1,200 amps to 3,000 amps, allowing for future expansion. As there was no space in the warehouse or compressor buildings for equipment, MEI has proposed to house the new service equipment in a pre-fabricated building. The new service equipment allowed the building distribution to be "split" allowing the existing generator to be re-used. A second generator will be installed to handle the remaining loads. This approach allowed a phased approach to installation preventing any long duration outages. The solution allowed partial building operation in the event of a generator failure. The project was completed in the Summer of 2020. There have been no reported concerns since completion.

Project Contact:
Alan Clemans
Assistant Director (Fiscal Management)
Administrative Services Division
WV Department of Agriculture

(304) 558-2221
aclemans@wvda.us

Descriptions of Past Projects Completed – Electrical

Beech Fork Moxley Branch Campground

Barboursville, WV

Services Provided:

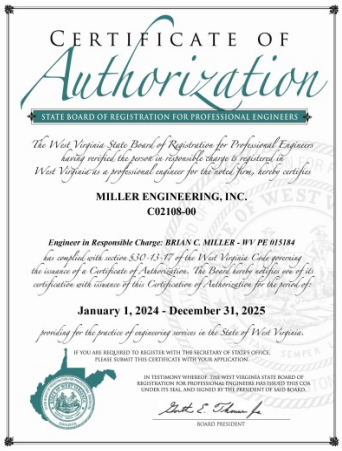
- Electrical

Electrical Budget: $300k
Owner: West Virginia Division of Natural Resources

The existing campsites at the Moxley Branch of Beech Fork State Park had been in poor repair and outdated. MEI was tasked with designing new power distribution to the 39 camp sites, including new service equipment, distribution panels, and campsite power pedestals with receptacles and breakers for RVs. MEI worked with the utility company and owner to maximize the amount of larger 50 amp campsites while still staying within budget. Two additional challenges to the project were the campground location elevation and a funding source requirement that no overhead electrical service was allowed. Moxley Branch campground is approximately 30' below the 100 year floodplain. MEI worked with AEP and E.L. Robinson to design a tower to place the service disconnect above the floodplain while still allowing AEP to have the service access they require. MEI designed the main disconnect to have shunt trip capability to allow for remote shutdown of the electric service during an emergency. Additional branch panels were installed to minimize voltage drop and allow for safe power disconnection to the pedestals. The project was completed in August of 2019.

Project Contact:
Roger Wolfe, PE Project Engineer
WVDNR State Parks Section
(304) 885-6100

Staff – Licenses & Certifications



CERTIFICATE OF
Authorization

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

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

MILLER ENGINEERING, INC.
C02108-00

Engineer in Responsible Charge: BRIAN C. MILLER - WV PE 015184

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

January 1, 2024 - December 31, 2025

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

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

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

BOARD PRESIDENT

West Virginia State Board of Registration for Professional Engineers

BRIAN C. MILLER
WV PE #015184

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

EXPIRES December 31, 2026

West Virginia State Board of Registration for Professional Engineers

TRAVIS W. TAYLOR
WV PE #020244

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

EXPIRES December 31, 2026

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

Roger Wolfe *Project Engineer* *WV Division of Natural Resources* *1000 Conference Center Drive* *Logan, WV 25601* ***(304) 885-6100*** roger.c.wolfe@wv.gov	**Jim Skaggs** Technical Analyst *WVARNG – Division of Engineering & Facilities* *1707 Coonskin Dr.* *Charleston, WV 25311* ***304-561-6550*** Robert.a.skaggsii.nfg@army.mil	**Cindy Fisher** *Procurement Administrator* *WV Dept. Of Agriculture* ***(304) 558-2221*** cfisher@wvda.us
Bob Ashcraft *Safety and Ancillary Projects* *Monongalia County Schools* *533 East Brockway Street* *Morgantown, WV 26501* ***(304) 657-4079***	**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"

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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"

Projects Completed Without Major Legal or Technical Problems

(previous 10 years)

Chief Logan Lodge Generator
Chief Logan Precast Building
Jenkins – Subaru
Coombs Farm Estates Pool
Forbes & Atwood Building
Canaan Lodge Pool Evaluation
Blackwater Spa
Duff Street UMC
WVDNR Canaan Demo
VA Cranberry
Slide the City
Freedom Ford
Freedom Volkswagen
Courtyard Marriott Morgantown
Mountaineer Casino Energy Evaluation
Elkins Coal & Coke
Sweeney House
University Place Electrical Evaluation
MCBOE MTEC Welding Shop
WVU CAC Lift
WVDNR Watoge & Cass Model Cabins
WVDNR Beech Fork Campground Upgrades
National Mine Safety Academy Pool
WVDNR Chief Logan Cabin
Jane Lew Truck Stop
WVDNR Hawks Nest HVAC Phase II
Putnam Co. Wave Pool
MCBOE MHS Boiler & HVAC Renovations
WVDNR Pipestem Pro Shop Roof
WVDNR Forks of Coal
Danville VA Clinic
Lewis Wetzel Pool
Potomac Valley Transit Authority Generator
WCLG Apartment Addition
Building 22 HVAC Replacement
WVDNR Cacapon Lodge Addition & Renovation
MCBOE Suncrest Middle School Heat Pump Repl.
Huntington Sludge Loadout Building
Potomac State BSN
WVGSD Bldg4 CW line stop
WVDNR District 2 Necropsy Lab
WVDNR Tomlinson Run Bath House
Grant Ave. Apartment
Jenkins - Ford
Laborer's Union
Lutz Pitt Classroom
Dr Adeniyi's Office
Krakora El 1 line
Lutz Naalco HVAC Review
Concentra Kittanning
Potesta Water Tank Telemetry
SEC & REA
Nova Care Rehabilitation
Freedom Kia
Wavetech Pool
Mountaineer Casino MAU Replacement
Grant County Bank Addition & Renovation
WVDR Chief Logan Pool Splash Area
Wesbanco Bldg Apartments
Building 36 Emergency Chiller Replacement
WVDNR Cacapon Old Inn Renovation
Building 36 HVAC Replacement
WVDNR Pipestem Campground Upgrades
Beech View Plaza
DNR Pipestem Outdoor Pool & Bathhouse
WVDNR Chief Logan Shelter
T.J. Maxx
Freedom Kia Clarksburg
Goodwill Westover
Chick-Fil-A Patteson Drive
WVDNR Charging Stations
Los Mariachis
Morgantown City Hall Plumbing Renovation
Lutz-Concentra Humidity Evaluation
DNR Blackwater Falls Boiler Replacement
Huntington Chlorination Building
WVDNR Canaan Emergency Chiller
MCBOE MTEC AHU Replacement
WVDNR Canaan Lodge Chiller Replacement
Park Place 12K Building
WVGSD Chiller Plant El Evaluation
DNR Berkeley Springs Roman Bathhouse
Weston Multipurpose Building & Lab
Novelis Corridor & Ramp

Park Place III Retail Building
Westwood Middle Heat Pumps
WVDNR Blennerhassett Electrical Review
CAS Pipestem Pool Demo
MCBOE Maintenance-Energy
WVDNR Blackwater Falls Pool HVAC
WVGSD B5 Elevator Replacement
WVGSD B25 6th Floor
WVDNR WV Wildlife Center Electrical Upgrades
AB Withers-Brandon Hall
DOE NETL Buildings 3,7,17
Camp Muffly Pool
WVGSD Ice Plant & Chiller Modifications
WVDNR Hawks Nest Lodge Renovations
Kanawha County Schools Elk Center
WVGSD Building 25 HVAC Evaluation
Mylan Chiller Replacement
Moorefield Farm Labor Housing
Pipestem/HN TAC
WVDNR Watoga Pool Renovations
WVDNR Tomlinson Run Water Slide Repairs
WVDNR Kanawha State Forest Campground
WVGSD Buildings 3,8,54,&86 ASHRAE COVID
WVDNR Watters Smith Pavilion & Addition
MCBOE Transportation Addition
Mineral County Judicial Annex
Center Street Methodist Church
BUMFS Mill Meadow
CAS Whitaker Square
Heritage Place Morgantown
Morgantown Public Library Plumbing Repairs
WVDNR Canaan Valley Tube Conveyor
WVGSD B54 Emergency Rental Chiller
WVDNR Elkins Operations Center HVAC
Huntington Flood Wall Electrical
Huntington Four Pole Emergency Repairs
Follansbee South Pump Station
Camp Dawson Operations Building HVAC
WVDNR Cass Campground
Bridgeport Axe
WVDNR Plum Orchard Headquarters Building
WVANG Bridgeport FWAATS Restroom Ren
Waxler Old Warehouse
LaVale UMC
Ronald McDonald House – Morgantown
Tomlinson PSD Booster Station
WVDNR Blackwater Falls Entry Canopy
WVDNR Island Belle Hydraulics
WVDNR Pipestem Chiller Repair
Ripley Warehouse Electrical Upgrades
CAS Pipestem Tram & Mtn Creek Lodge
Camp Dawson FMS4 Fire Protection
Concentra Belmont OH Clinic
WVDNR Chief Logan Sprayground Repair
WV GSD Bldg 11 ATS Evaluation
Huntington Flood Wall Pump Sta Generator
MCBOE Middle School ALC Building
Huntington 8th & 10th St Underpass Pumps
WVGSD Elevator Modernizations
Short Gap Volunteer Fire Department
Mylan Chiller Evaluation
WVDNR District 2 & 3
Morgantown City Hall Plumbing Phase 1&II
Boone Co PSD Prenter II
WVDNR Blackwater Falls Lodge Renovations
WVDNR Ridge Fish Hatchery CA
WVDNR Chief Logan Water Slide Repairs
WVDNR Twin Falls Recreational Facilities
WVDNR Cacapon Campground & Renov.
Huntington WWTP Ventilation & Heating
WVDNR District 2 & 3
MEI Office Addition
CAS Hawks Nest Boathouse
Jackson County AFRC Canopy
Keyser Senior Center
Webster Co. DOH Headquarters
Mineral County Detention Center
MCDA Waxler New Warehouse Tenant
Suncrest UMC HVAC
BUMFS Staggers Office
Moncove Pool Evaluation
Dunbar WWTP Electrical Review
WVGSD Building 54 HVAC Renovations
WVDNR Lost River, Cacapon, & BW Falls Im
WVDNR Blackwater Falls Kitchen - Regency
WVDNR Hawks Nest & Pipestem Trams
WVDNR Greenbrier State Forest HQ Bldg
Met Theater Chiller Replacement
LTA Doctor's Office
MLTA Office Buildout & Renovation
Morgantown Powersports
Tennerton Booster Station

WVDNR Elk River Rail Trail Shop & Maint Bldgs
Enterprise Mileground
REACT/RISE
WVDNR Pipestem Boiler Replacment
WVDNR Pipestem Fire Alarm
WVGSD Ice Storage Plant
Viatris Air Compressor
Fresh Kraez
Mineral County - Office Addition
Keyser HS Fieldhouse
WVDNR Chief Logan Lodge
WVDNR Cacapon Lodge Vendor Truck Power
Mill Run Mine Drainage Improvements
Elite Towing
Viatris AHU10
WVDNR North Bend & Watoga Pools
TEMA WV Hazard Analysis
WVSU HVAC Renovations
WVANG Child Development Center HVAC
Viatris AHU6 & AHU12
WVANG Camp Dawson FMS4 Renovation
Riffle Residence
Kingwood Public Library Storm & Sanitary
Potomac Plaza Phase 4
Larenim Park Amphitheater
WVGSD B25 Lighting Upgrades
Cyclops Sight Glass ASME Cert Review
El Jinete
WVANG Challenge Academy So HVAC Mods
Viatris AHU7
GSD Chiller #1 Fault Evaluation
WVANG USPFO Buckhannon Restroom Ren
Mineral County - Senior Center Generator
Logan Avenue House
Buckhannon Water Plant Evaluation
Hardy World the Deck Second Floor Shell
Kappler's Pool (Maple Avenue Pool Eval)
Mylan Park KOA Campground
Huntington 3rd & 5th Street Pump Stations
MCDA PVH Apartments
WVDNR Blennerhassett HVAC
Belt Construction Corp Office
Blackwater Food Pantry
WVANG MCA South Kitchen HVAC
WVANG Huntington Tri State Readiness Add
Viatris NMR
PVH PACU, OR, Life Safety
Viatris Site & Roof Survey

ITEM 3.1.1: Communication Procedure

Miller Engineering utilizes a communications procedure designed to minimize downtime while ensuring neither the Owner, design team, nor contractor is left out of the loop. Each phase of the project is detailed in the following plan.

Evaluation, Budgeting, and Design

Craig Miller

- Main point of contact with Owner's Project Manager.
  Communication is both verbal and written, by phone or email. Design notes are written and distributed to design meeting attendees.
  Integrates RK&K and Lemley input to Owner and directs their work
- Travis Taylor & Tyler Trump will be copied on all correspondences.

Travis Taylor

- Serves as backup contact with Owner's Project Manager.
- Communicates between MEI and sub-consultants, vendors, & local utilities.

Tyler Trump

- Secondary communication with sub-consultants & vendors.

Estimating

Craig

- Main point of contact with Owner's Project Manager.
  Communication is both verbal and written, by phone or email. Meeting notes are written and distributed to attendees.
- Travis will be copied on all correspondences.

Travis

- Serves as lead estimator on electrical projects.
- Serves as backup contact with Owner's Project Manager.
- Coordinate estimating between MEI and sub-consultants and vendors.

Tyler

- Correspondence with vendors and suppliers for material take-offs.

Bidding

Craig

- Main point of contact between Miller Engineering and the Owner's Project Manager.
- Travis will be copied on all correspondences related to bidding.

Construction

Craig

- Main point of contact with Owner's Project Manager, vendors, and contractors.
- MEI serves as the hinge pin for communication to better track progress and concerns.

- Communication is in person at meetings and site visits, as well as being written and verbal.
- Travis will be copied on all correspondences.

Travis
- Will serve as backup point of contact between Miller Engineering with vendors, sub-consultants, and contractors.

Tyler
- Backup contact with vendors, and contractors.

Warranty

Craig
- Main point of contact with Owner for warranty period.
- Craig will track and resolve warranty concerns, documenting them in writing as necessary,

Methodology for Communication

The preferred method of communication is written, but Miller Engineering's staff will use verbal communication if necessary for continuing project flow. Any verbal discussions or directions will be documented in meeting minutes, memo, or email, and distributed to all members of the project team possibly affected by the conversation. All correspondences deemed to be critical will be saved both in hard copy and digitally.

ITEM 3.1.2: Budget Plan

Controlling the Project Budget in Design

Budget control is an essential part of project management, which will be provided by a single point of contact, Craig Miller, with backup from MEI staff. MEI will initially meet with all stakeholders to determine the preliminary construction goals for the project after conducting preliminary field work.

Field work, in this case, a detailed survey of the Forest's existing HV and LV systems and their observed deficiencies, will help define scope. MEI will then review those findings with the Owner and, based on experience, will develop the budget.

While scope defines budget needs, the budget has to be reconciled with funding realities, which is developed from prioritization of the concerns arising from the assessment of conditions, codes, and operational parameters

The plan for controlling Project Budget in Design is generally broken down as:

- Begin with initial field work.
- Review findings with Owner, including feedback on any initial existing budget using a realistic assessment of conditions.
- Use experienced based estimating of costs.
- Prioritize the work where possible.
- Continue field work to eliminate as many unknowns as possible which instills confidence in the bidders understanding of the project.
- Design project based on scope, prioritization, and budget.
- Develop construction cost estimates early and in detail with take-off level estimating.
- Obtain material quotes for special, large volume, and high-cost items.
- Consider and address design option impacts to overall function and operation.
- Factor lead times into estimating.
- Coordinate cost impacts with design decisions. Avoid Scope creep as it pertains to design schedule and budget.
- Explore alternate design options and how they affect cost.
- Develop bidding Alternates where possible to allow full utilization of project funds.
- Perform real-time estimating concurrent with design development for up-to-date budget impacts.
- "Keep our eye on the ball" – checking against primary project goals and milestones.
- Consider more than one contract for the project.
- Evaluating contractor market for potential bidders.

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Controlling the Project Budget during Construction

Controlling the budget during construction is a proactive project management mechanism. Monitoring the contractor's work helps us identify concerns early and work with the contractor and Owner on adjustments or solutions which have minimal effect on budget. The early design evaluations and detailed scope help to minimize unforeseen conditions that can lead to additional project expense. Our quality assurance methodology (found elsewhere in this proposal) both in design and construction is an integral part of executing the project.

The plan for controlling Project Budget in Construction includes:

- Actively encouraging bidding questions to maximize the contractors understanding of the project, resulting in a bid based on actual work scope rather than assumptions.
- Meeting with and educating the contractor and their personnel on the clear intent of the project, to help them stay on track and within their bid.
- Answering RFI's early and quickly to allow work to continue to flow, minimizing the opportunity for claims.
- In the event of unforeseen conditions, preparing detailed information to be the basis of additional work, minimizing the contractor's need to "pad" numbers for unknowns.
- Reviewing any cost proposal with a real-world eye to ensure they are mutually fair and acceptable.

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Budget History

Project Name	Project Type	Budget	Cost	Notes
Ph 1-GSD Elevators	Elevator Renovations	7,958,200	6,563,813	On budget
Ph 2-GSD Elevators	Elevator Renovations	$8,100,000	6,991,150	On budget
GSD B25 HVAC	HVAC Renovation	$2,538,627	$2,325,400	On budget
DNR Blackwater Piping	HVAC and Dom. Piping Renovation	$650,000	$533,400	On budget
Canaan Valley Resort	Emergency Electrical Repairs	$225,000	$129,829	On budget
Capital Chiller	Chiller Plant Renovation	$6,950,000	7,263,000	4.5% over budget
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

ITEM 3.1.3: Scheduling Plan

Defining/ Controlling the Project Schedule in Design

Controlling the project schedule is a project team effort which starts in design starts by laying out the realities associated with implementing the project, while keeping the Forest an active recreation area. These realities are developed as a part of site work, particularly when working on outdoor infrastructure with constraints such as those at Coopers Rock. Implementation of the project must be considered from Project Design Kick-off and includes such items as:

- The season of construction activities and weather effects on various types of work.
- The potential impacts of construction activities on Forest's flora and fauna and how best to manage/ mitigate them.
- Operation of the Forest's facilities, which have seen a marked increase in facilities served by the infrastructure in the last couple of years.
- Visitor safety during construction.

The plan for controlling Project Schedule in Design includes:

- Significant Owner interaction to develop the operational realities of the Forest and then use that information to define the expected project schedule to the contractors.
- Utilizing Gantt Chart (Critical Path Method) during design to dovetail construction and Forest activities into a cohesive plan.
- Tracking these concerns and defining "ball-in-court" timeframes for design decisions, to prevent design logjams.
- Keeping project milestones realistic for both the Owner and contractor.
- Detailing these milestone and schedule realities into the project documents in a clear, concise manner.
- Clearly defining completions by area/ phases of work.
- Defining and communication schedule goals to the contractor up front.
- Considering multiple contracts to better align work to available resources and their availabilities.

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Controlling the Project Schedule in Construction

Controlling the Project Schedule in Construction is an outflow from proactive project management. MEI utilizes a "boots on the ground" approach to project management, which utilizes our extensive real-world construction experience to monitor the flow and progress of the project. This helps us to be proactive when we see project facing hurdles or logjams. By watching the project closely and communicating schedule deviations to both the Owner and the Contractor, we can adjust the situation earlier, rather than later, which is a benefit to everyone.

The plan for controlling Project Schedule in Construction includes:

- A detailed initial scope review with the contractor, focusing on their initial plan and any concerns related to delivery of project labor and materials.
- Requiring and reviewing realistic Gantt scheduling from the General Contractor in detail until it aligns with the needs of the Owner as detailed in the project documents.
- Active construction administration, with written field reports.
- CLOSELY MONITORING construction schedule with actual accomplishments and address issues and implement corrective action proactively with early notification of surety.
- Frequent informal site visits and “check-in” with the Owner’s staff on construction impact.
- Formal project meetings and “ball in court” tracking of concerns and task items. Frequent follow up such items, which are assigned and “complete action by” milestone.
- Document the construction administration, including all stakeholders.
- Clearly Defined Completions by area/ phases of work.
- Detailed communication of progress to Owner in field reports and progress emails between progress meetings as needed.

Timeline History

Project Name	Project Type	Contract Length	Contract Delivery	Notes
GSD B25 HVAC	HVAC Renovation	240 days	240 days	Delivered on time
Capital Chiller	Chiller Plant Renovation	390 days	480 days	Contractor Concerns
DNR Blackwater Lodge Boilers	Boiler Replacement	120 days	180 days*	*Extended 60 days due to equipment delivery
Twin Falls/Hawks Nest Lodge	HVAC Renovation	90 days	90 days	Delivered on time
Ph 1-GSD Elevators	Elevator Renovations	420 days	510 days (projected)	Subcontract concerns
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

= Delivered on time

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ENGINEERING, INC.

Section 5 – PROJECT EOI FORMS

	Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130	**State of West Virginia** **Centralized Expression of Interest** **Architect/Engr**

Proc Folder: 1748180 **Doc Description:** A&E - Coopers Rock New Electrical Service **Proc Type:** Central Purchase Order			**Reason for Modification:**
Date Issued	**Solicitation Closes**	**Solicitation No**	**Version**
2025-07-24	2025-08-12 13:30	CEOI 0310 DNR2600000001	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code:

Vendor Name :

Address :

Street :

City :

State : **Country :** **Zip :**

Principal Contact :

Vendor Contact Phone: **Extension:**

FOR INFORMATION CONTACT THE BUYER

Joseph (Josh) E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor Signature X FEIN# -1386 DATE 11 Aug 25

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.

(Printed Name and Title) Craig Miller, PE

(Address) 429 Laurel Run Rd

(Phone Number) / (Fax Number) 304-291-2234 ext 102 / NA

(email address) cmiller@millereng.net

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through *wv*OASIS, I certify that: I have reviewed this Solicitation/Contract 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/Contract 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 this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

Miller Engineering Inc
(Company)

11 Aug 25
(Signature of Authorized Representative)

Brian Craig Miller/ President
(Printed Name and Title of Authorized Representative) (Date)

304-291-2234 ext 102 / NA
(Phone Number) (Fax Number)

cmiller@millereng.net
(Email Address)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI 0310 DNR2600000001

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: NONE
(Check the box next to each addendum received)

- ☐ Addendum No. 1
- ☐ Addendum No. 2
- ☐ Addendum No. 3
- ☐ Addendum No. 4
- ☐ Addendum No. 5
- ☐ Addendum No. 6
- ☐ Addendum No. 7
- ☐ Addendum No. 8
- ☐ Addendum No. 9
- ☐ Addendum No. 10

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

Miller Engineering Inc
Company

Authorized Signature

11Aug25
Date

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