



West Virginia Purchasing Division

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Charleston, WV 25305
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The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at wvOASIS.gov. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at WVPurchasing.gov with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 1

List View

General Information | Contact | Default Values | Discount | Document Information | Clarification Request

Procurement Folder: 1097814

Procurement Type: Central Contract - Fixed Amt

Vendor ID:

Legal Name: MILLER ENGINEERING INC

Alias/DBA:

Total Bid: \$0.00

Response Date:

Response Time:

Responded By User ID:

First Name:

Last Name:

Email:

Phone:

SO Doc Code: CEOI

SO Dept: 0211

SO Doc ID: GSD2300000003

Published Date: 9/8/22

Close Date: 9/29/22

Close Time: 13:30

Status: Closed

Solicitation Description:

Total of Header Attachments: 1

Total of All Attachments: 1

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	EOI: Bldg. 25 Lighting Design				0.00

Comm Code	Manufacturer	Specification	Model #
81101508			

Commodity Line Comments:

Extended Description:

EOI: Bldg. 25 Lighting Design



Expression of Interest
West Virginia –General Services Division
Building 25 Lighting Design Project
CEOI GSD2300000003
September 29th, 2022



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

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

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The Miller Engineering Difference



We are very pleased to submit our response for the Building 25 Lighting Design Project. MEI has decided to propose as the prime consultant. MEI regularly performs as a prime consultant for multiple clients including for the state of West Virginia. MEI is currently the acting prime consultant for GSD projects including the Elevator Modernizations Project and the recently Capitol Complex Central Chiller Plant Modifications. MEI is currently serving as the prime consultant for HVAC Upgrades to WV Buildings 25 and 54 currently in design. We have also delivered several projects as the prime consultant for WVGSD including B25 HVAC Piping Replacement and B22 Second Floor HVAC Modifications.

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. Based on the EOI, we see those methodologies as valuable to GSD on the project. Our hands-on staff takes great pride in their construction and operations backgrounds, which helps visualize the project as it would be built instead of just lines on paper. We perform takeoff level cost estimating whenever possible and some level of commissioning occurs on each project, due to our "boots on the ground" construction administration approach.

MEI has performed lighting LED retrofits for several facilities as either exclusively a lighting project or as part of a larger renovation. Some examples of projects which included LED lighting upgrades include the Grant County Bank, Blackwater Falls Lodge, and the WVDNR Elkins Operation Center. The Veterans Memorial Restoration on the capitol complex consisted of an extensive lighting upgrade in addition to modernizations of the lighting controls. To assist Miller Engineering with ensuring the best lighting environment for Building 25, we have teamed with Hilbish McGee Lighting Design. They bring extensive knowledge and experience in the realm of lighting design.

We also believe our previous experience with WV Building 25 makes MEI an excellent choice for this project. We were the prime consultant on the HVAC piping replacement project in this building along with the new HVAC modifications project, which will be out to bid soon. We were also a sub consultant on the façade and 6th floor project. Our past experience provides us with extensive knowledge of this buildings complicated floor plan, construction, and daily operations.

MEI would once again like to thank you for the opportunity to submit on the Building 25 Lighting Design Project. We would like to wish best of luck on the project and hope to speak with you in the near future.

Best regards,

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

Craig Miller
President/Owner
Miller Engineering, Inc.



TAB 1 – FIRM PROFILES





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. We approach each and every project with the guiding principle that buildings are designed to be livable and function in their intended purpose with reasonable maintenance. Neither the firm nor its professional engineers have ever faced disciplinary action in any form from the states in which they are registered.

*Over the past 18 years Miller Engineering, Inc. (MEI) has engineered solutions 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 10 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 facilities operations.

*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
- Building Information Modeling

HVAC Design

Commerical, Institutional
Educational
Bldg, and District Chiller Plants
Plumbing and Piping

Construction Administration

Maintenance/Facility Plans
Contract Administration
Code Observation

Communication System

Intercomm & Public
AddressVoice/Data/CATV

Energy

Power Supply (Main/ Standby)
Green & Renewable Consulting
Systems Utilization & Upgrades
Emergency Power systems

Facility Utilization

Energy Conservation Projects
Adaptive Re-use
Planning/Life-Cycle Control
Engineered Replacement
Life Safety, Fire Alarm/ Sprinkler
Access Control
Emergency Response

Industry Experience

Education
Local & State Government
Commercial Development
Healthcare
Department of Parks & Recreation
Industrial



HMLD Credentials

- Almost 75 years combined experience doing what we love
 - *(further talking points in parenthesis - typical)*
 - *(approach projects with passion and enthusiasm)*
 - *(thousands of various-type projects successfully completed resulting in wide range of acquired knowledge)*
 - *(translate our experienced maturity and practical knowledge of current technologies to create impactful and sustainable results)*
- Collaboration, Communication, Trust & Teamwork are the cornerstones of our practice
 - *(establish and maintain appropriate collaborations with staked entities)*
 - *(understand our role as part of the team and the ultimate solutions)*
 - *(no ego-driven or self-stroking design - just optimal solutions that are best for project and end-user)*
 - *(visual and verbal communications used to establish a shared understanding of design intent)*
- Emphasis on site integration
 - *(intent is for cohesive design that becomes part of landscape and architecture)*
 - *(goal for magical results - see the effect but not the cause)*
- Established reputation for follow through to project's successful completion
 - *(establish purposeful/relevant (strong) design specifications based on value, quality and performance) (weeds out inferior subs/alternates)*
 - *(procure and follow UNIT cost estimates through life of project - eliminate \$ misappropriation/creep)*
 - *(make sure attention to details is maintained during installation phase)*
 - *(responsive to field condition issues)*

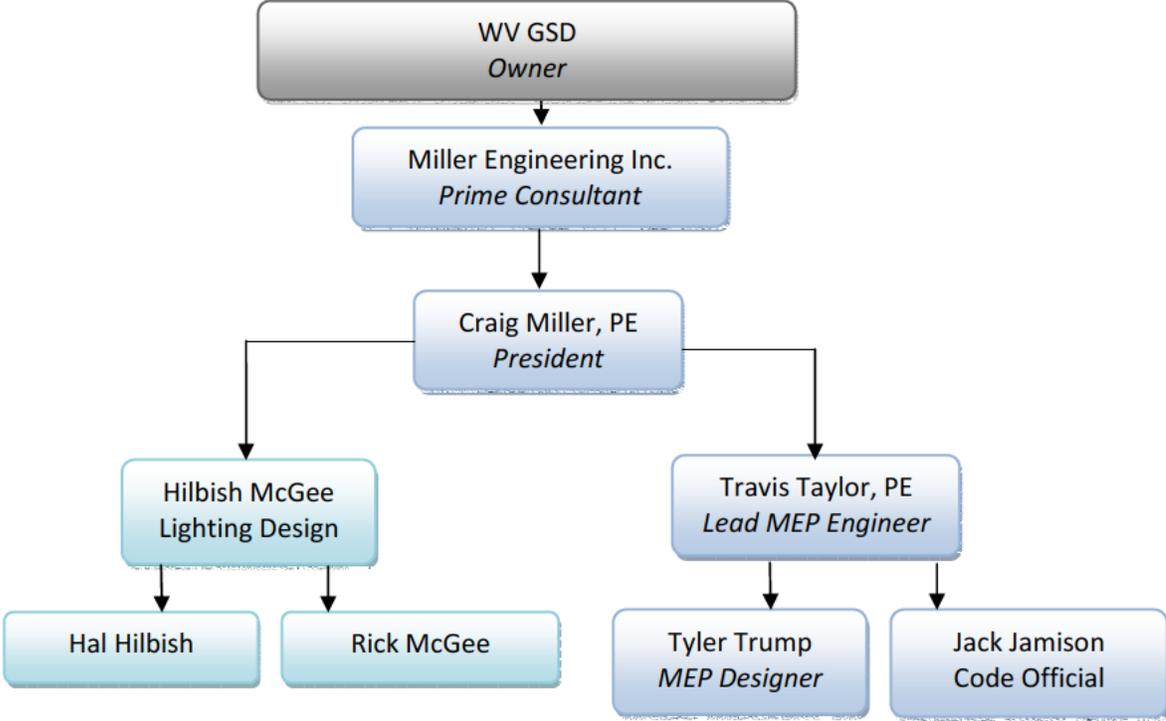
MILLER ENGINEERING

<u>Craig Miller, PE</u>	President, Principal in Charge
<u>Travis Taylor, PE</u>	Lead MEP Engineer
<u>Tyler Trump</u>	Designer
<u>Jack Jamison</u>	Code Review

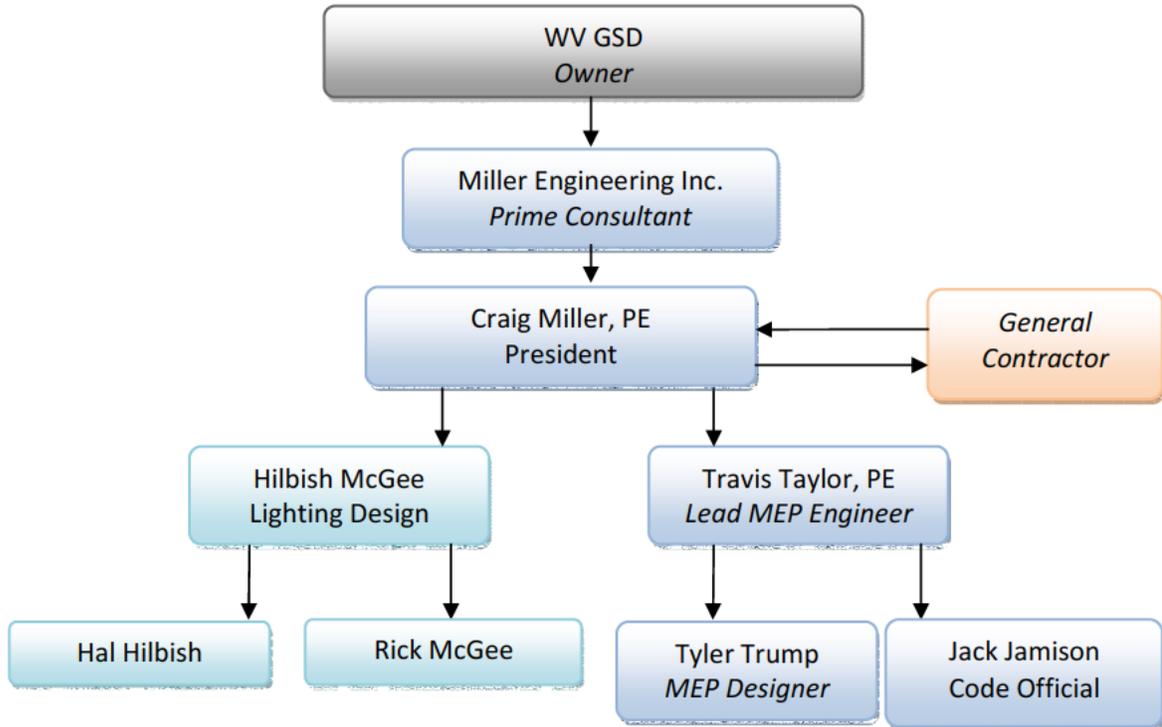
HILBISH McGEE LIGHTING DESIGN

<u>Haldane Hilbish, IALD, IES</u>
<u>Rick McGee, IAS</u>

Organization Chart -Design



Organization Chart – Construction





TAB 2 – GOALS



Building 25 Lighting Project Project Goals

PROJECT GOALS

Miller Engineering has reviewed the project description under Section Three of the Expression of Interest and offers the following outline of project approach concepts, methodologies, core-values, and prior pertinent experience. Please note that the project data sheets in section four (4) further describe many of the projects referenced in this section.

Goal One – Electrical & Lighting Systems Evaluations & Design

A significant portion of MEI's projects revolve around renovations. Many of those renovations involve upgrades to the facilities electrical and lighting. MEI will begin by evaluating any existing drawings and documentation on the project. We will also perform an extensive evaluation of the facilities existing lighting and electrical systems. We will talk with all stakeholders on the project to determine deficiencies and issues in the current systems. We will also identify goals of the upgrades and prioritize these goals. Hilbish McGee Lighting Design (HMLD) will assist MEI with the evaluation. HMLD and MEI will coordinate to determine existing and new building photometric levels and existing lighting deficiencies or excesses. MEI will evaluate the existing electrical distribution and determine the modifications required to incorporate the new lighting. MEI, through experience with previous projects, understands that Building 25 utilizes a modular branch wiring system. MEI will determine if this existing system can be re-used and modified to serve the new lighting fixtures and devices. Examples of projects delivered by MEI related to Building 25 include:

- Building 25 HVAC Piping Replacement
- Building 25 Façade & 6th Floor
- Building 25 HVAC Modifications

Goal Two – Phased Construction Approach

MEI's understands that Building 25 is an important facility to WV DHHR and needs to remain in operation. This does not afford a design in which the facility is vacated, and the contractor will have unlimited access to the building. MEI has performed many projects using this phased approach, including previous work at Building 25. A phased approach requires a detailed and extensive review of the existing facility, the electrical distribution, to determine any limitations this may cause to the phased approach. MEI will review the existing conditions and proposed equipment selections from HMLD to determine an initial project phasing schedule. MEI will review the phasing of the project with the Owner to give the Owner an understanding of the project schedule. A phased project will require coordination between the contractor and Owner regarding the relocation of personnel, equipment, and furniture as needed to complete construction in a designated area. MEI will work with the Owner to determine swing spaces and the delineation of responsibility for moving people and equipment. MEI will also incorporate phasing into the project documents by clearly indicating on the drawings and in the specifications the number of phases, which areas and activities are in each phase, and milestones in the construction schedule for each phase. Project in which MEI used a phased approach include:

- Building 25 HVAC Piping Replacement

- Pipestem State Park McKeever Lodge Piping Replacement
- WVDA Ripley Warehouse Electrical Upgrades
- WVANG Bridgeport FWAATS Restroom Renovations

Goal Three – Design Standards & Criteria

The Owner has concerns related to site access, security, and pedestrian access. Our history with phased renovation projects gives us plenty of experience with these issues. Part of the detailed site evaluation will include identifying contractor access areas, material storage, and site safety concerns. MEI will work with the Owner to ensure the project as designed will not only limit disturbances to operations listed in Goal Two, but additionally allow access and use of the facility by pedestrians and clients. MEI will work with WVGSD and DHHR to include language in the project documents to include requirements related to jobsite safety, site security, temporary barriers and controls, and site access by staff and clients.

MEI can provide an energy use analysis of the existing facility related to lighting. MEI will work with the owner to review utility usage. MEI and HMLD will collaborate to determine how different design aspects can affect energy consumption. These reductions can be by light fixtures and lighting control devices. MEI and HMLD will determine an estimated reduction in usage, and communicate these with the owner. These modeled savings may determine prioritizations of different fixture types and control methods. Such calculations are typical on MEI projects when requested by the Owner. MEI performed energy calculations as part of the Capitol Chiller Plant Modifications project. MEI estimated construction budgets, calculated energy use savings, and approximate ROI of several methods for reducing utility costs in operating the chiller plant serving the Capitol Complex. MEI presented these to the Owner which led to the determination of the natural gas generators acting as prime movers of select chillers, reducing energy costs to operate the chiller plant.

Goal Four – Technology & Energy Conservation

MEI will supplement our knowledge of lighting control systems with the expertise of HMLD to determine and propose the best methods for lighting controls and energy efficiency. Both MEI and HMLD will review lighting control technologies which meet ASHRAE62.1-2013 and the 2018 IECC recently adopted by the state legislature, as finally selected by the Owner for operability and maintainability. Any control system selection or sequencing will be reviewed with the Owner to ensure the equipment and methods selected meet the Owner's goals for proper light level control, operations, maintenance, and energy efficiency.

The Freedom Automotive dealerships in Morgantown, WV are a campus of three separate dealerships. The internal lighting of the buildings use occupancy sensors in the offices and support spaces. The showroom and sales areas use daylight sensors to adjust the light levels for daylight harvesting. The parking and lot lighting are effectively zoned. Each zone has dimming controls which adjust light levels based on a timed schedule with occupancy sensor override when a person or car enters the specific zone of the lot, which is a high energy impact at a car dealership. Both interior and exterior successfully incorporated a hybrid blend of both wired and wireless technologies.

Goals Five – Quality Control

Only successful operation of lighting control systems over time leads to the anticipated energy savings, so maintenance and troubleshooting become critical. MEI has created maintenance schedules and procedures for clients. At Canaan Valley Lodge, MEI reviewed all of the lodge's MEP systems, researched their O&M documentation, and created a maintenance schedule with procedural pointers. For all of the major MEP systems, the Owner was provided with a check list with a description of the maintenance procedure and the intervals to perform said maintenance. This was done on systems designed by other firms so MEI started from ground zero. The procedures are still being used at this time and have reduced system failures and problems.

Goals Six – Quality Control

MEI and HMLD understand that the energy consumption savings are only achieved if the lighting fixtures and controls are operating as intended. There are several steps that need to be taken to achieve this. MEI and HMLD will review the installations on site to verify the contractor is installing the systems as designed. HMLD brings experience and knowledge in making sure the systems are operating as intended and making adjustments to correct. As part of project close-out, MEI will require the contractor to demonstrate proper system operations to MEI and HMLD prior to any training being scheduled. This is to avoid the distraction of "startup during training"; which can occur with a generic project specification. Operational demonstration prior to training is something MEI requires on all projects in all disciplines, especially building and lighting control systems.

Training of the maintenance staff is critical to operation of these systems. The contractor will also be required to train the Owner's staff on the operation and maintenance of these systems. The training requirements will be detailed in the specification to go beyond the normal orientation type training to include problem solving and troubleshooting. Training can be required over multiple sessions to permit the Owner's personnel time to review the training on the actual systems and ask follow on questions at the next training session. MEI will require this training to be recorded with copies delivered to the Owner. Re-training during the warranty period is a discussion item with the Owner during project specification to incorporate those needs into the project bid. MEI also extensively reviews all as-built drawings and O&M manuals for completeness. The contractor will be required to return at the 11th month of the warranty period to test and verify the systems are still operating as intended. One option we have used in the past is an extended warranty on such systems with training requirements beyond one year, giving the maintenance personnel even more opportunity to become proficient with the systems.



TAB 3 –STAFF QUALIFICATIONS





B. Craig Miller, PE

Craig founded Miller Engineering in 2003, and serves as President and Principal Engineer. He has more than 25 years of experience in design, specification, operations and project management. Since forming Miller Engineering, he has implemented hundreds of project with an emphasis on facility renovation. His broad experience runs the gambit of facility and client types. 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 “LEAD Reviewer” for Miller Engineering as the main communication interface between the Owner, the Owner’s design team, and if third party CA occurs, contractors.

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

- WV GSD Building 3,11,54, 86 IAQ Assessment
- WV GSD Building 25 Humidity and Ventilation Assessment
- 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
- Holly River State Park Primary Electric Service Replacements Phase I & II
- Beech Fork State Park – MEP New Construction Design
- Canaan Lodge Addition Third Party CA

Professional History

2003- Present	Miller Engineering, Inc.	President, Relationship Manager, Engineer of Record
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)
- 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. Travis will backup Craig as review on this project and will direct the staff as required to support the review effort.

Project Role: Lead MEP Engineer

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

Professional Project Highlights

- Blackwater Falls Lodge Boiler Replacement
- MTEC Welding Shop
- WV State Building 36 HVAC Upgrades
- WV State Building 25 HVAC Piping Replacement
- Graftek Steam Systems Evaluations and Modifications
- 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 20 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



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
- Mountain Line Transit Authority Office Renovation

Professional History

2022- Present Miller Engineering, Inc. MEP Designer

Education

2022 West Virginia University, BS - Mechanical Engineering

Licenses and Certifications



Hilbish McGee Lighting Design

Haldane E. Hilbish, IALD, IES



Hal graduated in 1979 from the University of Cincinnati's School of Design, Architecture and Art and immediately began his career at John Maguire Associates (with whom he had co-oped during school) aiding the firm's expansion into larger and more complex projects. His contributions to the firm and its ideals led to his partnership and formation of Maguire Hilbish Associates, of which he obtained ownership in 1995. He has designed lighting systems for a myriad of project types, large and small, public and private, interior and exterior throughout the USA. His interest in the visual arts has led to collaborations with John Maguire, and other artists, in the creation of light art works and site specific installations.

Rick McGee, IES



1988 Design graduate of West Virginia University. Became a member of John Maguire Associates in 1988 after completing an International Association of Lighting Designers (IALD) affiliated internship program. After 14 years, the firm's name changed again to Hilbish McGee Lighting Design in 2002 as partnership status was attained. Project involvement includes design and management through all phases - from schematic/design development through construction administration. Capabilities include high proficiency in 2D and 3D CADD, lighting analysis programs, digital rendering programs, LEED and sustainability issues and energy codes, lighting controls, and new technologies both in lighting and design communication.

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sewickley, pa 15143

ph 412.749.0533
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architectural
+ landscape
illumination
consultants

Staff – Licenses & Certifications





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

<p>Barrow Koslosky, AIA <i>Chief of Planning, Engineering & Maintenance</i> WV Division of Natural Resources State Parks Section 324 4th Avenue South Charleston, WV25303 (304) 558-2764 barrow.a.koslosky@wv.gov</p>	<p>Paul Braham Associate Director of Maintenance & Engineering Mylan Pharmaceuticals 781 Chestnut Ridge Road Morgantown, WV 256505 412-519-9846 304-554-5626 Paul.Braham@mylan.com</p>	<p>Bill Barry <i>Director</i> WV General Services Div. 401 California Ave. Building 4, 5th Floor Charleston, WV 25305 (304) 558-1808 William.d.barry@wv.gov</p>
<p>Bob Ashcraft <i>Safety and Ancillary Projects</i> Monongalia County Schools 533 East Brockway Street Morgantown, WV 26501 (304) 276-0152 rbashcraft@access.k12.wv.us</p>	<p>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</p>	<p>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</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”

February 7, 2020

RE: Letter of Reference Miller Engineering

To whom it may concern

I am writing this letter of reference on behalf of Craig Miller, Miller Engineering, Inc., Morgantown, WV. My company, Eckles Construction Services, Inc. has been providing Clerk of the Works services for the Monongalia County Board of Education for the past five years. We have worked on various projects, ranging from additions and renovations to new building construction, during our involvement with the county. Those projects have been designed by different Architectural and Engineering design teams. Most of the projects have also received SBA funding.

It has been our privilege and pleasure to work with Craig and his team on four projects during that time; two of which received partial SBA funding. Mr. Miller is extremely knowledgeable regarding MEP systems and their operation. He is perhaps the most hands on engineer I have encountered in my 27 years of related school construction in both Pennsylvania and West Virginia. More importantly Miller Engineering is very responsive to the contractors needs during the construction process.

I would not hesitate to recommend Miller Engineering as the Design Professional for your project.

Regards,



Kenneth Holsopple

President

PENNINGTON PLUMBING & HEATING INC.

301 George St. Beckley WV 25801

License WV 001456

April 17, 2019

To Whom it May Concern,

Re: Miller Engineering Design Firm

Pennington Plumbing & Heating has worked with Miller Engineering on numerous projects throughout the years, ranging in size from several hundred thousand dollars to several million. We have always found their firm to be professional, competent, and helpful.

We have found that they are always available to help on challenging situations on different projects, and their designs have had great success on the projects that we have been involved with. They have the capability to handle MEP designs of any size and are always open to modifications that allow the owner to save time and money while maintaining the highest quality and design intent.

We would have no issue recommending their firm to building owners seeking design and construction administration.

Should you have any questions please do not hesitate to contact me.

Best Regards,

Eric Mahaffey
President.



June 6, 2018

RE: Miller Engineering

To Whom it May Concern,

I have worked on several project with Miller Engineering, over the last few years. Craig Miller and his staff are some of the most detail-oriented engineers I have met. They take extra time, and care, to ensure that their design meets the requirements set forth by the owner and that trades are coordinated properly. Their staff make routine visits to the jobsite to ensure the quality of installation meets their specified standards.

Miller Engineering is also willing to help with value engineering, if required, to meet budgets. However, they are not willing to sacrifice the quality, set forth, in their original design standards. This is an admirable trait in today's engineering world. Many times, value engineering is done without the original designer's review or they may allow substandard products and quality is sacrificed as a result.

In closing, Craig Miller always states that "working with them is different". He's correct. In a world where things are done with little input or involvement by the engineering firm during construction, they stand out as a firm who truly cares. They put thought into their design and the functionality of buildings and the results speak for themselves. Their designs are quality and built to last.

Brian D. Gaudiano

Vice President



P.O. Box 558
2155 Park Avenue
Washington, PA 15301

General Construction & Consulting

Phone 724/229-0119
Fax 724/225-1180

To whom it may concern,

As the Vice-President and Lead Project Manager of MacBracey Corporation, a commercial and industrial general contractor located in Washington, PA, I am writing to support and endorse Miller Engineering and their ability to provide construction design services as well as project management.

MacBracey has found Miller Engineering's drawings and specifications to be both thorough and accurate as to the in-field conditions. Any issues that have come about throughout a construction project Miller Engineering is quick to develop a corrective plan and ensured the project doesn't face delays.

I have found Miller Engineering to go above and beyond the industry standard throughout the entire construction process to make sure everything stayed on track. I have spoken with many members of Miller Engineering "after hours" to solve an issue that needed addressed by the following morning. This is a characteristic that you don't see with a lot of design teams.

I found the entire Miller Engineering team to be both knowledgeable and professional. We at MacBracey would enjoy the opportunity to work with Miller Engineering again in the future. It is truly refreshing to work with a design team that has a passion for the industry and is willing to work with everyone involved to ensure the project gets done correctly and in a timely manner.

Sincerely,

Patrick Bracey

Patrick Bracey
**Vice President,
MacBracey Corporation**

Descriptions of Past Projects Completed – Restoration

West Virginia Veterans War Memorial

Services Provided:

- Plumbing
- Electrical
- Lighting
- Pool

Estimated Budget: \$1.5M

Owner: West Virginia General Services Division



The West Virginia Veterans War Memorial on the Capital Complex had suffered some damage and needed repairs to existing systems due to age. MEI was brought in as part of a team to restore the memorial. MEI designed repairs and reconfigurations of the fountain piping for better operation and to meet new pool safety regulations regarding drains. The existing lighting for the memorial was obsolete and non-functioning. MEI replaced the lighting & modernized the lighting controls to best meet the original intentions of the memorial's artist.

Project Contact:
Bob Krause
WV State Dept. of Administration
Phone: (304) 558-9018

Descriptions of Past Projects Completed – MEP

Grant Co. Bank Addition & Renovations

Petersburg, WV

Services Provided:

- Electrical
- HVAC
- Plumbing
- Fire Alarm

Addition Size: 3,200 sq ft

Original Bank Size: 13,400 sq ft

MEP Budget:



Miller Engineering teamed up with Alpha Associates to design an addition to the Grant County Bank in Petersburg, WV. The 3,200 sq ft addition consists of a new main lobby, teller space, drive-through, and offices. A new rooftop unit serves the addition for HVAC. MEI provided design services for new electrical, lighting, data, and plumbing. The original bank building received a new fire alarm system in addition to a LED lighting replacement throughout. A backup generator was installed to serve the drive-through, teller area, security system, and data servers. MEI coordinated with bank consultants for power and data requirements for bank security and surveillance. Construction was phased so the original drive-through could remain in operation until the new drive-through area was operable to minimize customer disturbance.

Project Contact:
Rick Colebank, PE
Alpha Associates
(304) 291-2234

Descriptions of Past Projects Completed – Renovation

Blackwater Falls State Park Lodge Renovations

Davis, WV

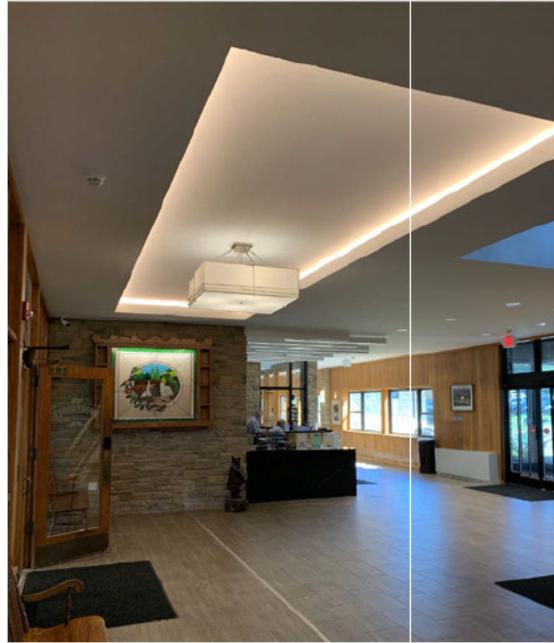
Services Provided:

- General Trades
- Plumbing
- Electrical
- Mechanical
- Pool

Const. Cost: \$4.6 Mil

Facility Area: 44,000 ft²

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



Project Contact:

Barrow Koslosky, AIA – Chief of PEM

WV DNR

Phone: (304) 558-2764

MEI was part of a design team with Paradigm Architecture to design the interior renovations to the lodge at Blackwater Falls State Park. All 54 lodge guestrooms were completely renovated with new finish, HVAC, and bathroom upgrades. Four of the guestrooms were modified to meet modern ADA guidelines. The lobbies, reception area, and dining rooms were upgraded with new HVAC, lighting, and finishes. The original finned tube radiant was replaced with new 4 pipe fan coil units and were tied into the boilers which were recently replaced by a previous MEI project.

A new chiller was installed with pumps and chilled water piping to the fan coil units. The guest rooms HVAC systems are fan coil units with ventilation served by make-up air units. Energy recovery ventilators pre-condition outside air to make the make-up air units operate more efficiently. The lodge was re-opened in January 2022.

Descriptions of Past Projects Completed – Electrical

Elkins DNR Operations Center Standby Generator

Elkins, WV

Services Provided:

- Backup Power
- Electrical Distribution
- Emergency Lighting

Electrical Budget: \$92K

Facility Area: Approx 30,000 sq ft

Owner: WV DNR



The WV DNR Operations Center in Elkins, WV requested to have an emergency generator installed due to losses incurred from a long power outage caused by Hurricane Sandy. MEI coordinated which systems the DNR wanted on standby power. This required the installation of new panels which are fed through a transfer switch. Critical operation loads were installed in these panels. The owner requested a natural gas fueled generator, requiring modifications to the building's gas service. To provide emergency lighting, the existing metric fluorescent light fixtures were retrofitted in place with LED drivers and modules and are now fed by an emergency circuit.

Project Contact:
Brad Leslie, PE
WV DNR
(304) 558-2764

Project Experience: MEP

West Virginia State Building 25 6th Floor & Facade

Parkersburg, WV

Services Provided:

- HVAC
- Electrical
- Plumbing

Estimated Budget: Unknown

Facility Area: 58,500 ft²

**Owner: State of West Virginia –
General Services Division**



MEI worked with Alpha Associates on a project consisting of façade upgrades and a renovation to the entrance for ADA accessibility. The façade and window replacement portion required a phased approach which involved relocating employees. The empty space on the 6th floor was renovated with new power, data, fire alarm, LED lighting, and new heat pumps. The boilers located in the basement, which has venting concerns, were replaced with new, highly efficient, condensing boilers. A new mechanical room was constructed in the mezzanine above the 6th floor to house the boilers, pumps, and new heat pumps. The main entry on the 4th floor was renovated with new stairs, ADA ramp, and doors with ADA pushbuttons. The project was completed in fall 2020.

Project Contact:
Scot Casdorph
Manager, Engineering
WV GSD
112 California Ave
Charleston, WV
(304) 957-7145

Project Experience: HVAC Upgrade

West Virginia State Building 25

Parkersburg, WV

Services Provided:

- Mechanical Piping
- Electric
- Construction Administration

Estimated Budget: \$843k

Facility Area: 58,500 ft²

**Owner: State of West Virginia –
General Services Division**



The PVC piping system at Building 25 had a history of leaking, along with smaller piping sagging over time and breaking, prompting the owner to replace the entire system. The building was a logistic challenge to design due to offset multi-level mezzanines, resulting in low deck-to-deck heights in the lower levels. A new, rolled-groove piping system was installed, including a new cooling tower and supporting structure, and connected to the original boilers. To eliminate the problems associated with manganese, which forms solids and clogs piping, the system was converted from water to propylene glycol with the flow rates adjusted to accommodate the change. The water source heat pumps which serve the building were flushed and cleaned to prevent contamination of the new water. MEI designed a phased approach to accomplish the piping, which was adjusted in consultation with the owner and contractor during construction to minimize the impact on the building occupants, who remained in the building during the entire construction period. MEI worked on an almost daily basis with the contractor to accomplish the re-piping of the building, providing support and real-time answers to questions and to work around challenges.

Project Contact:

*David Parsons, Operations and
Maintenance Manager
State Capitol, Room E-119
(304) 957-7122*



Hilbish McGee Lighting Design

**Selected
Interior Public Space
Renovation Projects**

Project	Location
Bal Harbour Tower	Bal Harbour, FL
Bellagio Everyday	Asheville, NC
Carnegie Mellon University - College of Fine Arts	Pittsburgh, PA
Carnegie Museum of Art - Ailsa Mellon Bruce Galleries	Pittsburgh, PA
Carnegie Museum - Hillman Hall of Mineral & Gems	Pittsburgh, PA
Crown Castle Headquarters - Dining Facility	Canonsburg, PA
Duquesne University - Chapel	Pittsburgh, PA
East Liberty Presbyterian Church	Pittsburgh, PA
Elliot USA Headquarters	Jeanette, PA
Family Eye Care - Retail Store	Pittsburgh, PA
Giant Eagle - Market District Store	Fox Chapel, PA
Jewish Home Lifecare - Chapel	New York, NY
Marina Jack Restaurant	Sarasota, FL
Phipps Conservatory & Botanical Gardens - Renovation	Pittsburgh, PA
Quantum Building	Pittsburgh, PA
Parkhurst Corner Mercantile	Pittsburgh, PA
Rapid American Corporation	New York, NY
Saint Vincent Basilica	Latrobe, PA
Saints John & Paul Church	Sewickley, PA
Sisters of Divine Providence - Provencial House Chapel	Allison Park, PA
SALT & Legume Restaurants	Pittsburgh, PA
Shadyside Presbyterian Church	Pittsburgh, PA
Three Mellon Center	Pittsburgh, PA
Thiel College - University Center	Greenville, PA
University of Pittsburgh - Heinz Memorial Chapel	Pittsburgh, PA
UPMC World Headquarters - USX Tower	Pittsburgh, PA
USX Tower - Steel Plaza Escalator/Stairs	Pittsburgh, PA
West Liberty University - Health Sciences Building	West Liberty, WV
West Virginia University - Oglebay Hall	Morgantown, WV

In Progress	
Bal Harbour Shops	Bal Harbour, FL
Goodwin House	Alexandria, VA
Jewish Home LifeCare	New York, NY
Fifth Avenue Place - Lobby/Retail Floors	Pittsburgh, PA

402 pebbles street
sewickley, pa 15143

ph 412.749.0533
fax 412.749.0523

architectural
+ landscape
illumination
consultants



TAB 5 – PROJECT 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: 1097814			Reason for Modification:
Doc Description: EOI: Bldg. 25 Lighting Design			
Proc Type: Central Contract - Fixed Amt			
Date Issued	Solicitation Closes	Solicitation No	Version
2022-09-08	2022-09-29 13:30	CEOI 0211 GSD2300000003	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 :

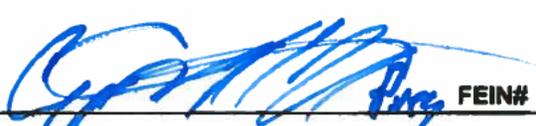
City :

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

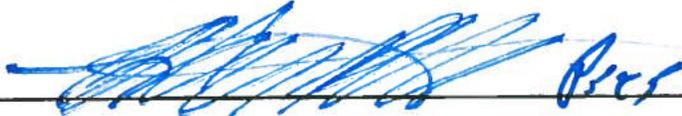
Principal Contact :

Vendor Contact Phone: **Extension:**

FOR INFORMATION CONTACT THE BUYER
 Melissa Pettrey
 (304) 558-0094
 melissa.k.pettrey@wv.gov

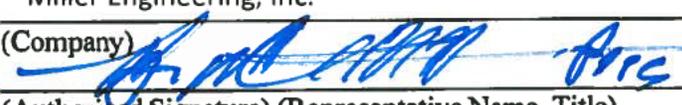
Vendor Signature X  **FEIN#** -1386 **DATE** 9/28/2022

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) B. Craig Miller, PE - President
(Address) 54 West Run Rd. Morgantown, WV 26508
(Phone Number) / (Fax Number) (304) 291-2234
(email address) cmiller@millereng.net

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, 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 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) 
(Authorized Signature) (Representative Name, Title)
B. Craig Miller, PE - President
(Printed Name and Title of Authorized Representative) (Date)
(304) 291-2234
(Phone Number) (Fax Number)
cmiller@millereng.net
(Email Address)