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## Header

List View

**General Information** | [Contact](#) | [Default Values](#) | [Discount](#) | [Document Information](#)

Procurement Folder: 96427

Procurement Type: Central Purchase Order

Vendor ID: VC0000006473

Legal Name: THREE DESIGNS PLLC

Alias/DBA: RONNIE L BOLEN

Total Bid: \$0.00

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Solicitation Description: Moundsville FMS#9 EOIDesign Services

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Total of All Attachments: 0



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

**State of West Virginia  
 Solicitation Response**

**Proc Folder :** 96427

**Solicitation Description :** Moundsville FMS#9 EOI Design Services

**Proc Type :** Central Purchase Order

Date issued	Solicitation Closes	Solicitation No	Version
	2015-05-12 13:30:00	SR 0603 ESR05121500000003696	1

**VENDOR**

VC0000006473  
 THREE DESIGNS PLLC  
 RONNIE L BOLEN

**FOR INFORMATION CONTACT THE BUYER**

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

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	Moundsville FMS#9 EOI-Design Engineering				

Comm Code	Manufacturer	Specification	Model #
81101508			

**Extended Description :** The WV Purchasing Division for the agency, WV Army National Guard's Division of Engineering and Facilities, is soliciting expression of interests for professional design services to include window replacement, design of a "battery room" for the storage and maintenance of batteries for military equipment, and to re-design the exterior drainage from the building to the existing storm drain system, at the Moundsville Armory located in Marshall County, per the attached specifications.

Qualification Proposal for:

**The WVANG Construction and Facilities Management  
Moundsville FMS#9 Drainage & Remodel Design  
Moundsville, Marshall County, West Virginia**



May 12, 2015

Presented By:

**THREE DESIGNS, PLLC**

1045 Nease Drive  
Charleston, WV 25387  
(304) 807-0841

[www.threedesignswv.com](http://www.threedesignswv.com)

# THREE DESIGNS, PLLC

Architects / Planners

1045 Nease Drive  
Charleston, West Virginia 25387

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May 12, 2015

Ms. Tara Lyle, Buyer  
Department of Administration  
Purchasing Division  
2019 Washington St E  
Charleston WV 25305

**Reference:** Moundsville FMS#9 EOI Design Services

Ms. Lyle:

Three Designs, PLLC, Architects and Planners is pleased to submit the attached information to demonstrate our team's experience, qualifications and commitment to the project for the Moundsville FMS#9 Drainage & Remodel Design. Three Designs is based out of the Charleston area and has teamed with E. L. Robinson Engineering (ELR), and Miller Engineers, Inc. (MEI). This team is uniquely qualified to provide professional design services on the proposed site for the following reasons:

- ▽ **Experienced Team Members** – Three Designs' team members have worked on various types of projects from courthouse facilities, master plans and administrative offices and support facilities, including analysis and master plans of facilities elements.
- ▽ **Quality Assurance** – At Three Designs, we specialize in design services and we implement all of our knowledge, skills, and training to fit the needs of any customer. We are based in Charleston and have serviced clients throughout West Virginia. What sets Three Designs apart from the others is that we don't just say we will listen to our clients; we treat all of our client's issues or problems with the highest problem solving skills in a timely fashion.
- ▽ **Method of Approach** - Three Designs abides by the elements and principles of design on every project. Our three design principles of functionality, aesthetics and cost control are vital components for every client. When these are brought together and balanced, the client has the project they sought from the designer.

Thank you in advance for taking time to review our attached expression of interest in your project including our team's relevant project experience, qualifications and commitment to your success of the West Virginia Army National Guard Construction and Facilities Management's project. We appreciate your consideration to the Three Designs' team for your valuable community project.

Best Regards,



Ron L. Bolen, A.I.A., LEED AP  
President / Senior Architect

THREE DESIGNS, PLLC

Web site: [www.threedesignswv.com](http://www.threedesignswv.com)  
Cell phone: 304-807-0841

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Miller Engineers, Inc.

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**Three Designs, PLLC**

Ron L. Bolen, AIA, LEED AP  
Caterina McFadden, AIA Assoc.  
Aaron L. Bolen  
Laura Cox, PLA, ASLA, LEED GA

**E. L. Robinson Engineering**

Brian Morton, PE  
Eric Coberly, PE  
Shawn Kelly  
Wendell Williams

**Miller Engineering, Inc.**

B. Craig Miller, PE, LEED AP  
Travis Taylor, PE  
Robert Angus  
Jack Jamison  
Joseph Machnik

**4. PROJECT APPROACH 40**

**The WVANG Construction and Facilities Management  
Moundsville FMS#9 Drainage & Remodel Design**

Project Management  
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Purchasing Affidavit  
Certification & Signature



# 1. PROJECT TEAM DESCRIPTION

## Three Designs' Firm Profile

**Three Designs, PLLC** (a Veteran-Owned Small Business) provides the experience and expertise to successfully develop the Moundsville FMS#9 Drainage & Remodel Design Project. Three Designs has assembled a team with the ideal experiences to ensure that the design for WV Army National Guard's Division of Engineering and Facilities will be a successful project for the Moundsville facility. The design team has designed various phased projects of similar size and type throughout the region.

The Team has blended well together on similar projects in the past, of varying military type projects, as well as related projects this team has previously worked on facilities of similar nature. Collating this talent his gives us an excellent basis of working together on similar types of facilities and will be the very best team for your project.

Given our Team members past experiences, we know what has worked and can adapt our experiences to the Moundsville FMS#9 Drainage & Remodel Design Project. Three Designs' selected project team leaders know how to effectively collaborate to provide services through your project; we will spend the time necessary to complete every task effectively. As necessary, the person that is required for the task (whether Architect or Engineer or Technician) will be available during the planning phases.

Three Designs, PLLC would be a strategic partner to ensure project needs are met with the Moundsville FMS#9 Drainage & Remodel Design Project without the huge overhead of larger firms. We focus on our Three Designs' principles for every project, giving the very best project design.

**Functional** / **Cost Effective** / **Aesthetic**

We utilize a total team concept to supplement the operational model whereby contractual, project based local talent and expertise is supplemented when necessary by Three Designs that may possess specific proficiency in the project type being designed. This project delivery method results in the client receiving the highest level of talent and experience for the execution of their project.

We have qualified employees and our assembled team has designed projects across the State of West Virginia. We are familiar with all the up to date and effective design building codes and standards and the level of quality required for performing planning of the Moundsville FMS#9 Drainage & Remodel Design Project.



## THE SUCCESS OF YOUR PROJECT

Projects are successful when the design team members are available during all phases of the project, this means when an architect or engineer is needed to be at the job site, we commit to the West Virginia Army National Guard (WVANG) that we will have that individual there.

Establishing this trust is the initial objective of the design team and may be achieved through providing:

- ▽ **Creativity Process** for a well-developed project during the design phase – for fees and project costs, aesthetic designs and economic functional facility
- ▽ **Due Diligence** to detail through the investigative and documentation phases - hard work in defining the intent of your needs
- ▽ **Attentive Service** during the construction phase – insuring the Owner’s wishes are defined in the Master Plan Analysis documents

**Project scope control** – We are ascertaining that the architectural program and conceptual design will address needs and goals of the WVANG's Division of Engineering and Facilities

**Goals of the project** – Will include criteria that will be used by WVANG Officials to determine a successful project.

Facility performance criteria - among those to be explored:

- Security
- Better function of the Facility
- Energy usage from window replacement
- Safety of Battery Storage
- Drainage system function

## CONSULTANTS

We are teaming together services **E. L. Robinson Engineering** (ELR) for structural civil / landscape architect services and with **Miller Engineers, Inc.** (MEI) for mechanical / electrical engineering services. This team has worked together previously very successfully and we believe this the very best team for this project. The team will provide complete documentation for Phased Project and assisting the Moundsville FMS#9 Drainage & Remodel Design Project with services from Programming through Construction by the design team.



ELR, the civil engineering / landscape architectural component to the team brings critical design performance to the project for all the civil and landscape architectural components. ELR is a diversified civil engineering and planning firm with proven performance and established experience. For 35 years, ELR has built a solid foundation based on consistently surpassing client expectations through the hard work and determination of its talented professionals.



MEI, the mechanical / electrical engineering component to the team brings critical design performance to the project for all the mechanical, electrical and plumbing components. MEI will analyze the building HVAC, electrical, and plumbing loads to determine the facility requirements. MEI will work with the Owner to determine the mechanical, electrical, and plumbing requirements of the facility.

Our Three Designs' office in Charleston WV provides a full range of architectural services, led by:

### **Ron L. Bolen, AIA, LEED AP**

President

## THREE DESIGNS, PLLC

1045 Nease Drive

Charleston, WV 25387

Cell Phone: 304-807-0841

Email: [rlbolen@threedesignswv.com](mailto:rlbolen@threedesignswv.com)

Web site: [threedesignswv.com](http://threedesignswv.com)

E.L. Robinson is a multi-disciplined engineering /planning firm with a staff of over 125 full-time professionals and support personnel located in eight offices throughout West Virginia (Charleston corporate office, Beckley, Bridgeport, and Chapmanville), Kentucky, and Ohio. Over the last 35 years, E.L. Robinson has grown to one of the largest firms in the region, offering a diverse scope of services. Since 1978, E.L. Robinson has provided a full range of quality engineering services, from planning and analysis to design and implementation

Named for its founder and president, Edward L. Robinson, P.E., P.S., the firm has based its success on a commitment to quality projects with superior client service. Finding new and creative ways to say yes to challenges has brought the firm’s vision of excellence into reality. Along with this “yes, we can do it” attitude, the firm has grown to understand the ingredients of a professional service firm include not only brick and mortar, but also leading edge technology and a talented, motivated staff that is continually growing and advancing their skills. This dedication rewarded ELR with being named one of the **Engineering News Record’s** top 500 engineering firms in the country.

The use of technology has allowed the firm to expand engineering capabilities and make use of new resources such as satellite imagery and digital mapping. In addition to the use of technology, E.L. Robinson also continues to strive to invent new and more effective ways to serve our clients. One of these ways is to provide a thorough pre-analysis of every project, saving the client time, money, and legal exposure. When the client is educated on every phase of the job and every challenge, the reputation of the firm grows stronger and attracts business from a larger marketplace.

E.L. Robinson has been providing its clients with quality products and superior service since 1978. Our staff combines state-of-the-art technology, experienced professionals, and innovative methods to help our clients meet their challenges.

- Transportation
- Infrastructure
- Bridge Design
- Structural Engineering
- Geotechnical Engineering
- Environmental Engineering
- Site Development
- Right-of-Way Services
- Construction Administration/Observation
- Surveying/Global Positioning
- Landscape Architecture
- Oil and Natural Gas Systems Development





*We provide Solutions. You can expect Excellence.*



### Firm Profile

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

*Over the past (13) years Miller Engineering has engineered solutions for over \$17.2M in mechanical system upgrades, repairs, and renovations for projects of all scopes, with clients ranging from private owners to local and state governments.*



*Our team has engineered repairs and stabilized systems to assist an owner to plan for required upgrades, system repair or develop a maintenance plan to extend the life of a system.*

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



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

#### Additional Benefits

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



### Engineering Design and Consultation

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

#### Aquatic Facility Design

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

#### Construction Administration

- Maintenance/Facility Improvement Plans
- Contract Administration
- Code Observation

#### Communication System

- Intercom & Public Address
- Voice/Data/CATV
- Urgent Response

#### Energy

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

#### Facility Utilization

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

#### Life Safety Inspection/Design

- Fire Protection & Alarm Systems
- Access Control
- Fire & Electrical Investigation

#### Industry Experience

- Education
- Local & State Government
- Commercial Development
- Healthcare
- Public Pools (indoor & outdoor)
- Department of Parks & Recreation

## 2. EXPERIENCE

The Three Designs Team brings together various experience capabilities for WVANG - Division of Engineering and Facilities' Moundsville FMS#9 Drainage & Remodel Design Project. We have compiled a cohesive team of professionals with extensive architectural and engineering experience to provide a balance of personnel suited to the needs of this project.

Project profiles for the Three Designs, PLLC experience shows the Principal, Project managers and other personnel's personal experience that have occurred with other firms prior to joining the Three Designs staff.



# Little Kanawha Bus Maintenance / Admin. Office Project

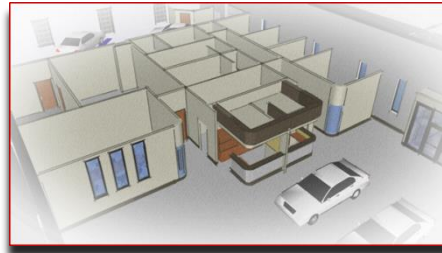
New Facility  
2014



- Prior to founding Three Designs, Mr. Bolen was project manager on this facility which was developed as project to replace and expand aging bus maintenance / administrative office facility for the local community. The prime objective of the project was to design the facility to serve the local Grantsville, WV area.
- The demolition included hazardous materials removal of asbestos and lead based paint. The facilities were fully demolished and removed from the site. Other elements removed included septic tanks and water cisterns.
- Mr. Bolen provided complete demolition design and construction administration services include the hazardous materials removal and the full demolition and proper removal of all debris from the site.
- Mr. Bolen provided complete architectural design and construction administration services include the construction of a pre-engineered metal and brick construction, sited on the available property allowing for future expansion needs. Parking for the buses (in the rear of the building) and employee vehicles will surround the building. The site of the facility is located in Mt. Zion, West Virginia. The site is approximately 4.55 acres.
- The operations facility will have approximately 10,000 square feet of which 4,500 square feet will house four - five offices, a conference room, and money counting room, office storage space, copier and supply room, and a driver training room which will accommodate approximately 25 individuals.
- The remaining 5,500 square feet is dedicated to the maintenance functions. The garage will require a ceiling of a minimum of 16 feet to accommodate bus hoisting. With the structural roof members, the overall roof height will be about 18 feet. This area will also include space for indoor bus storage for approximately seven (7) vehicles.
- Mr. Bolen provided complete LEED design and construction administration services. The site of the facility is located in Mt. Zion, West Virginia. The site is approximately 4.55 acres.

## Good News Mountaineer Garage

Administration Offices &  
Garage Renovations /  
Addition  
2014



Prior to founding Three Designs, Mr. Bolen provided complete architectural design and construction administration services include a renovation to an existing concrete block and brick facility, sited on the available property allowing for future expansion needs. Parking for the vehicles to be repaired and sold and employee and visitor vehicles will be in the front of the building. The site of the facility is located in Charleston, West Virginia.

Mr. Bolen provided complete selective demolition design and construction administration services include the abatement of hazardous materials of asbestos removal. The facility was designed to house a future vehicle maintenance garage, administrative offices and car dealership showroom.

The approximate 5,000 square feet facility underwent extensive selective demolition of structural elements of replacing lintels over garage doors to replacement of water damaged concrete masonry units. The demolition included removal of the leaking roof and repair / replacement of the metal deck, replacement of all roof drains and overflow scuppers. A complete demolition of all electrical, plumbing and mechanical above and below the floor slab was conducted for the future development and complete renovation.

The operations and showroom area will have approximately 3,500 and will house four - four offices, a conference room, office storage space, copier space, ADA toilet upgrades and supply room. The showroom area will also include space for indoor vehicle storage for approximately ten (10) vehicles.

The remaining 2,500 square feet is dedicated to the maintenance functions. In the garage area, the facility required replacement of the (2) overhead doors and the (6) passage metal doors. There were upgrades in equipment and safety fixtures for code compliance. The mechanical / electrical room was divided from the **battery storage room** with fire rated partitions. The garage equipment required a ceiling of a minimum of 12 feet to accommodate vehicle hoisting.



# Coonskin Park Maintenance Facility Design

New Storage and  
Maintenance Facility  
2014



Prior to founding Three Designs, Mr. Bolen provided complete project architectural design services through bidding for a new pre-engineered metal building facility. The building was designed with a drive through bay, and two drive-in bays to the building. The site of the facility is located in Coonskin Park in Charleston, West Virginia.

This new facility was designed for a 6,000 sq. ft. maintenance / storage facility including, approximately 72 sq. ft. of toilet space for the facility. This addition was delivered to the Park Maintenance and was funded by the W.V. Army National Guard. The facility was designed with future infill consisting of two team shower / toilets / and locker areas for the adjacent soccer field.

The new facility blended into the existing park design aesthetically and integrated this facility with the property and the surrounding gravel parking and access road, which was designed for future paving as a primary requirement of the Park Maintenance. Mr. Bolen led the design team delivered a design program that fully realized the requirements of the W.V. Army National Guard and the Park Maintenance and achieved their project goals.

# Raleigh Co. Bus Maintenance Facility

New Storage and  
Maintenance Facility  
1999



Prior to founding Three Designs, Mr. Bolen developed the design for the Raleigh County Board of Education and the staff a program for a new Bus Maintenance Facility on a limited site, which tied into the existing bus storage yard.

The design of the facility provides for a new building of approximately 4,950 sq. ft., including two vehicle maintenance bays. The facility includes mezzanine storage (approx. 1,470 sq. ft.) The mezzanine area is located above the office / restroom area and housed storage for tires and a battery storage area.

The facility also designed with drive-thru capabilities for both multi-function maintenance bays. The building is comprised of conventionally framed system. Construction documents were completed in less than two months from schematic layouts.

## CAMC Women and Children's Hospital Parking Lot

Project Location: Charleston, West Virginia  
Cost: \$1.2 Million  
Completion Date: 2012  
Client: CAMC  
Address: 3410 Staunton Ave., SE, Charleston, WV 25304  
P. 304.388.9740  
Client Contact: Ray George  
E-mail: ray.george@camc.org  
ELR Office Location: Charleston, WV  
ELR Staff: Brian Morton, P.E., Chris LeRose, P.E.

### Project Description:

This project was for the design of a parking lot for CAMC Women's and Children's Hospital employees. The project site is located in Kanawha County along Pennsylvania Avenue. The project included 590 standard parking spaces, 13 ADA accessible spaces and a storm water drainage system for the site.

## CAMC MacCorkle Avenue Roadway Improvements

Project Location: Charleston, West Virginia  
Cost: \$750,000  
Completion Date: 2013  
Client: CAMC  
Address: 3410 Staunton Ave., SE, Charleston, WV 25304  
P. 304.388.9740  
Client Contact: Ray George  
E-mail: ray.george@camc.org  
ELR Office Location: Charleston, WV  
ELR Staff: Brian Morton, P.E., Chris LeRose, P.E.

### Project Description:

This project was for the design of roadway improvements along MacCorkle Ave. and South Park Road including the lengthening of a storage lane along MacCorkle Ave. turning right onto South Park Road, the addition of storage lanes on South Park Road for turning movements onto MacCorkle Avenue, the installation of a sidewalk along South Park Road, upgrading the drainage system throughout the project limits and the installation of a new traffic signal at the intersection of MacCorkle Avenue and South Park Road.



### CAMC Staunton Avenue Parking Lot

Project Location: Charleston, West Virginia  
Cost: \$200,000  
Completion Date: 2014  
Client: CAMC  
Address: 3410 Staunton Ave., SE, Charleston, WV 25304  
P. 304.388.9740  
Client Contact: Ray George  
E-mail: ray.george@camc.org  
ELR Office Location: Charleston, WV  
ELR Staff: Brian Morton, P.E., Chris LeRose, P.E.

#### Project Description:

This project was for the design of a parking lot extension at the CAMC Facilities Development offices located in Kanawha County, West Virginia. With the parking lot extension, CAMC can now utilize 27 standard parking stalls and 2 ADA accessible spaces. Drainage for the new lot was designed following the City of Charleston's and the WVDEP guidelines for storm water infiltration.

### CAMC Dagher Parking Lot

Project Location: Charleston, West Virginia  
Cost: \$350,000  
Completion Date: 2014  
Client: CAMC  
Address: 3410 Staunton Ave., SE, Charleston, WV 25304  
P. 304.388.9740  
Client Contact: Ray George  
E-mail: ray.george@camc.org  
ELR Office Location: Charleston, WV  
ELR Staff: Brian Morton, P.E., Chris LeRose, P.E.

#### Project Description:

This project was for the design of a parking lot located along MacCorkle Avenue and 34th Street in Kanawha County, West Virginia. The project included 62 standard parking spaces, 3 ADA accessible spaces and a storm water drainage system for the site. Drainage for the new lot was designed following the City of Charleston's and the WVDEP guidelines for storm water infiltration.



## Projects

### Site –Civil Engineering



## CAMC Women and Children's Bank Stabilization Project

Project Location: Charleston, West Virginia  
Cost: \$950,000  
Completion Date: Current  
Client: CAMC  
Address: 3410 Staunton Ave., SE, Charleston, WV 25304  
P. 304.388.9740  
Client Contact: Ray George  
E-mail: ray.george@camc.org  
ELR Office Location: Charleston, WV  
ELR Staff: Tim Cart, P.E., Brian Morton, P.E., Chris LeRose, P.E.

#### Project Description:

This project involves surveying and engineering design of a sheet pile retaining wall approximately 300 feet in length along the northern bank of the Elk River. The new wall will serve to provide for slope protection and support for the CAMC W&C Hospital. The sheet piles are being installed from a barge and helical (soil anchors) were utilized in the design and construction.

## Edgewood Summit Phase III Health Center

Project Location: Charleston, West Virginia  
Cost: \$8 Million  
Completion Date: 2013  
Client: Edgewood Summit  
Address: 300 Baker Lane, Charleston, WV 25302  
P. 304.346.2323  
Client Contact: Diane Gouhin  
E-mail: dgouhin@edgewoodsummit.com  
ELR Office Location: Charleston, WV  
ELR Staff: Brian Morton, P.E., Tim Cart, P.E., Jeff Nelsen, Wendell Williams

#### Project Description:

ELR working with the owner, their developer and AG Architecture assisted with the site design and engineering for the positioning of the building on a difficult site requiring geotechnical and structural engineering for the building, a new rehabilitation and skilled nursing facility with a memory loss unit immediately adjacent the Edgewood Summit Retirement Community.



## Putnam County Business Park Phase II Project

Project Location: Putnam County, West Virginia

Cost: \$100,000

Completion Date: 2010

Client: Putnam County Economic Development Authority

Address: 5664 State Route 34, Winfield, WV 25213

P. 304.757.0318

Client Contact: Andrew Dunlap

E-mail: [adunlap@pcda.org](mailto:adunlap@pcda.org)

ELR Office Location: Charleston, WV

ELR Staff: Eric Coberly, P.E., Wendell Williams, John Kelly, Todd Garnes

#### Project Description:

This project involved the development of a business park access road from the existing Phase I of the business park to connect to the newly constructed Route 35. In addition, E.L. Robinson provided design services to layout the Phase II site providing property layout, water, sewer, electric and other amenities for the business park.

## Mingo County Wood Products Industrial Park Project

Project Location: Mingo County, West Virginia

Cost: \$420,000

Completion Date: 2011

Client: Mingo County Redevelopment Authority

Address: 1100 East 4th Avenue, Williamson, WV 25661

P. 304.235.0042

Client Contact: Leasha Johnson

E-mail: [ljohnson\\_mera@verizon.net](mailto:ljohnson_mera@verizon.net)

ELR Office Location: Charleston, WV

ELR Staff: Eric Coberly, P.E., Tim Cart, P.E., John Kelly

#### Project Description:

This project involved site design including storm water drainage, preparation of construction plans and specifications, surveying and mapping, preparation of permitting applications and contract documents, participation in the solicitation and evaluation of bids, construction administration and inspection..



## Dan's Branch (Pennington) Landslide

Project Location: Mingo County, West Virginia  
Cost: \$221,000  
Completion Date: September 2011  
Client: West Virginia Department of Environmental Protection  
Address: 601 57th Street, SE, Charleston, WV 25304  
P. 304.926.0499  
Client Contact: Thomas G. Smith  
E-mail: thomas.g.smith@wv.gov  
ELR Office Location: Charleston, WV  
ELR Staff: Tim Cart, P.E., John Kelly, Ivan Gillispie

### Project Description:

This project consisted of designing a retaining structure to address an active landslide that endangered residences. ELR's services included surveying of the site, geotechnical investigation, permitting, and the preparation of contract documents. A pile lagging retaining wall was constructed along with grading and drainage to address the problem. Further, ELR assisted WVDEP with bidding, review of shop drawings, and construction assistance.

## Branchland (Blankenship) Landslide

Project Location: Lincoln County, West Virginia  
Cost: \$240,000  
Completion Date: June 2014  
Client: West Virginia Department of Environmental Protection  
Address: 601 57th Street, SE, Charleston, WV 25304  
P. 304.926.0499  
Client Contact: Jason Foster  
E-mail: jason.c.foster@wv.gov  
ELR Office Location: Charleston, WV  
ELR Staff: Eric Coberly, Tim Cart, P.E., John Kelly, Ivan Gillispie

### Project Description:

This project involved a topographical survey and geotechnical investigation of a landslide that endangered a residence and local roadway. ELR developed plans and specifications to extract material and construct a rock toe buttress along with drainage controls to stabilize the area. Further, ELR assisted WVDEP in project bidding and provided technical assistance during construction.





## Project Experience: Design/Build

### Advanced Surgical Rehabilitation Hospital

#### Services Provided:

- Mechanical
- Electrical
- Plumbing
- Nurse Call
- Fire Protection/Alarm

**Estimated Budget: \$13M**

**Facility Area: 67,000 ft<sup>2</sup>**

**Owner: AOR Group**



Interactive collaboration with the physician owners and contractor was the guiding principal behind the success of this project. Each and every system within the hospital was designed for and met precise health care compliance standards. Specifications for ventilation, electric, plumbing, HVAC and medical gas safety were all applied to the constructable design. Quality assurance and design aspects were satisfied by regular and customary site visits as well as consistent communication with the contractor. Our complete assessment process enabled the client to meet a fast-paced construction deadline which if missed would have had severe government regulatory repercussions and detrimental business outcomes.

Project Contact:

*Rick Briggs*

*Lutz Myers & Associates, Inc.*

*(724) 758-5455*

## Project Experience: New Facility

### Preston County 911 Center

**Services Provided:**

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

**Estimated Budget: \$2M**  
**Facility Area: 7,000 ft<sup>2</sup>**  
**Owner: Preston County**



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

Project Contact:  
 Michael Mills, AIA  
 Mills Group  
 Phone: (304) 296-1010

### THREE DESIGNS' TEAM

The Three Designs Team brings together outstanding capabilities to meet and exceed the requirements for the WV Army National Guard's Division of Engineering and Facilities' Project. We have compiled a team of professionals with extensive architectural and engineering experience to provide the Moundsville FMS#9 Drainage & Remodel Design Project with a cohesive balance of personnel suited to the needs of this project.

The qualifications and experience of our key team members will provide for a professional, dynamic mix - well suited to meet and exceed the Moundsville FMS#9 Drainage & Remodel Design Project's needs. A resume for key members of the Three Designs' Team is included on the following pages.

# The WVANG Construction and Facilities Management Moundsville FMS#9 Drainage & Remodel Design




## THREE DESIGNS

**Ron L. Bolen, AIA, LEED AP**  
Principal in Charge / Architect

**Caterina McFadden, AIA Assoc.**  
Project Manager / Intern Architect

**Aaron L. Bolen**  
Graphics / CAD Manager

**Laura Cox, PLA, ASLA, LEED GA**  
Landscape Architect / Planner



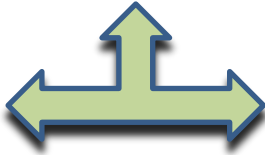

**B. Craig Miller, PE, LEED AP**  
President / Principal Engineer

**Travis Taylor, PE**  
Staff Engineer

**Jack Jamison**  
Code Professional

**Joseph Machnik**  
MEP Designer

**Robert Angus**  
Construction Project Representative

**Edward L. Robinson, PE, PS**  
President / Engineer

**Brian Morton, PE**  
Civil Engineer

**Eric Coberly, PE**  
Project Engineer

**Shawn Kelly**  
Project Designer

**Wendell Williams**  
Senior Project Designer

**Office Location:** Charleston, WV  
**Experience:** 43 years  
**Education:** B.S. Architectural Design, Parkersburg Community College / WVU Ext., 1980  
**Registration:** Registered Architect, No. [REDACTED] West Virginia, 1999  
American Institute of Architects (AIA)  
LEED, AP (USGBC) -LEED® Accredited Professional, BD+C, 2012

### **General Qualifications**

Mr. Bolen brings over 40 years of design and project coordination experience to the project. Mr. Bolen insists on listening to the client's needs and bringing those desires to reality in a distinctive, functional and state of the art facility – on time and within budget. Project types include a multitude of small and large-scale designs, including office, fire-stations and multipurpose facilities, augmented by varied experience in a wide range of opportunities in renovation and new facility design. Truly innovative designs are based on a well-articulated program developed in a close and continuing interaction between the client and the design team.

While at Three Designs, Mr. Bolen has focused most of his time on design and coordination with clients while maintaining a close relationship with the design team. Increasingly, Mr. Bolen's facilities have become the result of collaborative problem solving with other design professionals and our clients. The results are design solutions that balance interests, intentions and objectives with concepts that reflect quality, integrity and aesthetic appeal.

### **Relevant Experience**

#### **Local Area Community Center -**

Mr. Bolen is currently providing Programming services for a local entrepreneur / community developer for a local Community Center with various needs, including Classrooms and Laboratories for Science, Technology, Engineering and Math Training Center, Pre-school classrooms, Art Center, various rental shops, office spaces and auxiliary spaces.

#### **Coonskin Park Maintenance / Storage Facility – Charleston, WV**

As Project Manager, Mr. Bolen provided Architectural Services from pre-design through all phases of document preparation, consultant coordination, client relations, and into construction administration. This new facility of a pre-engineered metal building complex included maintenance / storage bays and an ADA accessible restroom. A layout was also designed for the future two team shower / toilets / locker rooms for the adjacent soccer field.

**Ghent & Standard Maintenance Facilities - WV Parkways Authority**

As Project Manager, Mr. Bolen provided services through pre-design and all phases of document preparation, consultant coordination, client relations, and construction administration.

As Project Manager, he provided services through pre-design and all phases of document preparation, consultant coordination, client relations, and construction administration. Both of the new facility designs replaced the existing buildings for the vehicle maintenance program.

**Raleigh Co. Board of Education Bus Maintenance Facility.**

Mr. Bolen performed duties as Project Manager Services through From Schematic Design through Contract Document. Design for a new facility to replace an existing building for the Bus Maintenance program with new facility within the required state guidelines.

**Little Kanawha Bus Facility, Mt. Zion, West Virginia**

Mr. Bolen was responsible in providing a complete architectural design and detailed construction administration services include the construction of a pre-engineered metal and brick construction, sited on the available property allowing for future expansion needs. Mr. Bolen provided architectural and construction-phase support for a new, 10,000-square foot, pre-engineered, metal and brick bus maintenance and transit operations facility. The 4,500-square-foot administrative area will include offices, a conference room, a money-counting room, and a driver-training room, and the 5,500-square-foot bus maintenance area will include storage for seven buses. The facility will be ADA-compliant and is being designed to achieve a high degree of energy efficiency. Services include site survey and design, geotechnical testing, environmental compliance, utility coordination, bid documents, bid-phase support, and as-built drawings.

**UPS Distribution Facility – Bluefield, WV**

Mr. Bolen provided Project Manager services through pre-design and all phases of document preparation, consultant coordination, client relations, and construction administration. A new facility design houses the Bluefield Vehicle Distribution for the United Parcel Service.

**Vocational Tech. Addition – Raleigh County Board of Education**

He provided Project Manager services from pre-design through all phases of document preparation, consultant coordination, and client relations. This addition / renovation design provided four shops, two classroom and toilets within the required state guidelines.



### **Ronceverte Vol. Fire Station & Community Center**

As Principal / Project Manager, Mr. Bolen provided services from pre-design through all phases of document preparation, consultant coordination, client relations, and construction administration. The design replaced an existing fire station. The facility was designed with five truck bays, office spaces, and conference hall, large meeting hall, toilets, and kitchen facilities and equipped with facilities for community flood relief. The facility is equipped to house approximately 75 people with full kitchen facilities, restroom / showers, and housing in the event of a natural disaster in the community.

### **Lincoln County Courthouse Annex**

Prior to founding Three Designs, Mr. Bolen provided responsibilities which included are Architectural support during construction, cost estimating for future phases of the over all project, Architectural design for rehabilitating the existing Historical Train Depot. The Town of Lost Creek required the planning and design of the rehabilitation of a historic train depot adjacent to the Harrison County Rail Trail. Ron prepared a plan to raise the structure, make repairs to the deteriorated timber, excavate and repair the exterior of the facility, including providing a new deck platform.

### **Comprehensive Education Facilities Plans (CEFP)**

Mr. Bolen provided Project Manager services for the development of the various Counties' Facilities Plan for the ten-year period of 2000 - 2010. The plans included evaluation of all existing facilities, plans for bringing existing facilities up to current codes and guidelines, cost estimates to bring facilities up to current standards, and final planning scenarios. The following are counties that Mr. Bolen assisting in the development of their CEFP:

**Nicholas County Board of Education**  
**Cabell Co. Board of Education**  
**Wetzel County Board of Education**  
**Pocahontas County Board of Education**  
**Marshall County Board of Education**  
**Monroe County Board of Education**  
**Raleigh County Board of Education (update)**



<b>Office Location:</b>	Charleston, WV
<b>Experience:</b>	10 years
<b>Education:</b>	M. Arch. Architecture - Virginia Tech B. A. Architectural Design - William Smith College
<b>Registration:</b>	Associate AIA - NCARB IDP

### **General Qualifications**

Ms. McFadden provides diverse experiences executing projects, ranging from both new constructions to adaptive reuse, demonstrating a level of professionalism and the expertise to handle your complex project needs. Ms. McFadden understands the value of collaborating with clients and occupants; to assess spatial needs, design goals and stay in the budget. Having extensive training and education in architecture, she consistently exhibits a proficient level of quality, value, and knowledgeable design solutions that ensure the health, safety, and welfare of our clients.

Familiar scope of works include detailed feasibility studies, master planning, new construction, renovations to existing construction, tenant renovations, adaptive reuse, historic preservation and historic renovation, investigative reports and promotional drawings and renderings for a wide range of project types, commercial, institutional, residential, religious and recreational.

Ms. McFadden values the process of collaboration in design. Working successfully with everyone involved, ensures the end result is completed to the highest level of standards. Across the boards, she devotes the same level of attention and service to each and every project.

### **Relevant Experience**

#### **Harrison County E911 - Harrison County, WV**

As Assistant Project Manager, Ms. McFadden provided architectural services from pre-design research through all phases of consultant coordination and document preparation. The architectural program included analysis of an emergency facility per IBC 2012, NFPA 72, 110, 297, and 450 and WV State codes and municipal codes. The Emergency Building featured a communication center, and was structurally innovative with a second floor building within a building construction, a blast resistant wall envelope, and raised panel access flooring, a multi-system security, emergency and standby power systems and back up mechanical systems.

The building contained classrooms, training facilities, multiple ADA restrooms, elevator tower, secure entry access points, card readers, and security cameras. As a secure Emergency facility housing a communication center, much of the construction was rated, to prevent any intruders from causing harm to the center. Care was taken in detailing the three stall garage, which would house different sized emergency vehicles, and need to be accessed quickly by emergency personnel but yet needed to be connected to the facility in the most secure way possible.

### **Doddridge Controls, Fairmont WV**

As Project designer, Ms. McFadden provided architectural services from pre-design through document preparation, consultant coordination, client relations, and into construction documentation for the layout of the office space within this warehouse building, Formerly SM Kisner & Sons Sheet Metal Work Company. The building was purchased by W. Heimbuch for his expanding fabrication and IT company founded in West Union W.V. Most of the fourth story building was converted into a shop for the company's fabrication needs, prior to design. McFadden was careful to document the character of the building, including historical window detailing and structural components. Demolition and restoration was taken to preserve beautiful historic flooring and new high performance windows were specified that both preserved the character of the original building, and yet, provide a fully functional new use, and further helped the efficiency of the new mechanical system. The architectural layout included creating several office spaces, a conference room, two ADA compliant restrooms, multiple storage spaces and a kitchenette.

### **Sourcefire, Columbia MD and Vienna VA**

(purchased by CISCO in 2013)

As Project Architect, Ms. McFadden provided architectural services from pre-design and space planning, through all phases of document preparation, bidding procedures and construction administration. This project had unique challenges as a high performance, government contracted internet security company, using open source intrusion detection services, and as a result, the design including details for secure rooms, electrical back-up supply, generator back-up, mechanical back-up to protect the valuable and sensitive data, and various security measures to ensure any breach of data was prevented. Both tenant outfits were in multi - use buildings, and both required minimum penetrations created to the exterior brick support walls, for adequate sized penetrations for ductwork and electrical components that were required of this type of work. An additional challenge to this project included satisfying both the building owner's specifications and approval with the SourceFire brands requirements. The architectural program included a total of 23 individual office spaces, a large open office for over 20 employees with open cubicle layout attached to power/data poles, multiple ADA and code compliant bathrooms based on occupancy and multiple secure rooms accessed by card reader and other high security protocol.

**Office Location:** Charleston, WV  
**Experience:** 20 years  
**Education:** 2003, Concord College  
**Registration:** American Institute of Architects (AIA Allied Member)

### **General Qualifications**

Mr. Bolen has spent the last ten years working to develop the graphic design development and to implement the drawing development for projects. Since 1994, he has been responsible for overseeing and auditing many aspects of graphic design for Three Designs' projects. For building projects, he ensures that all graphic design features have been incorporated in order to meet the appropriate levels of the owner's requirements. Project types include: University, Administrative offices, Vehicle Maintenance Facilities, Interior spaces, Churches, Equipment Layouts and Storage Buildings.

As a designer, he has been able to solve visual / communication problems or challenges. In doing so, he has identified the communications issue, gathered and analyzed information related to the issue, and generated potential approaches aimed at solving the problem. As a graphic designer, he understands the social and cultural norms of the audience and develops visual solutions that are perceived as relevant, understandable and effective.

Mr. Bolen has a thorough understanding of production and rendering methods. Some of the technologies and methods of production are drawing, offset printing, photography, and time-based and interactive media (film, video, computer multimedia). Frequently, as a designer, he is called upon to manage color in different medias.

### **Relevant Experience**

#### **Good News Mountaineer Garage, Charleston, West Virginia**

Graphic Design Manager. Responsible for the 3D graphic representations of the proposed Auto Repair garage and administrative office facility for this non-profit organization. The Good News Mountaineer Garage graphic three dimensional image representations assisted the client in fund raising and visualization of the finished product.

#### **WVU - P, Parkersburg, West Virginia**

Graphic Design Manager. Responsible for the 3D graphic representations of the proposed maintenance and office facility for the WVU branch at Parkersburg. The graphic three dimensional image representations assisted the client in visualization of the finished product.

**WVSU, Institute, West Virginia**

Graphic Design Manager. Responsible for the 3D graphic representations of the proposed maintenance, classroom, laboratories and office facility for the WVSU at Institute. The graphic three dimensional image representations assisted the client in visualization of the finished product.

**Lincoln County Annex, Hamlin, West Virginia**

Graphic Design Manager. Responsible for the graphic three dimensional image representations of the proposed office facility and maintenance facility for the Lincoln County Commission at Hamlin. The graphic representations assisted the client and the contractors in visualization of the finished product.

**Little Kanawha Bus Maintenance Facility, Mt. Zion, West Virginia**

Graphic Design Manager. Responsible for the graphic three dimensional image representations of the proposed office facility and maintenance facility for the Little Kanawha Bus at Mt. Zion. The graphic three dimensional image representations assisted the client and the contractors in visualization of the finished product.

**Church of God Youth Center Annex, Princeton, West Virginia**

Graphic Design Manager. Responsible for the graphic three dimensional image representations of the proposed Youth Center facility for the COG at Princeton. The graphic three dimensional image representations assisted the client and the contractors in visualization of the finished product.

**Office Location:** Charleston, WV  
**Experience:** 34 years  
**Education:** B.S., 1978, Landscape Architecture, West Virginia University  
Certificate, 1995, Computer Aided Drafting, Putnam County Technical Ctr  
**Registration:** Landscape Architect, Virginia, 1987  
NICET III Transportation-Highway Construction, West Virginia, 1983  
Registered Landscape Architect, West Virginia, 2008  
Licensed Landscape Architect, New Jersey, 2010  
LEED Green Associate, 2010

### **General Qualifications**

Ms. Cox is a Registered Landscape Architect with over 30 years of experience in the fields of landscape architecture and land planning. She has knowledge of all phases of design from site analysis and conceptual planning through construction documentation, permitting and administration. Her design experience includes large scale site preparation and grading, drainage analysis, storm water conveyance and detention, and utility and infrastructure design.

Ms. Cox has an extensive background in site and land use planning for counties and municipalities including, feasibility studies, review and evaluation of preliminary and final subdivision plans, special exceptions, rezoning applications, yield studies, special use permits and client representation at public hearings and meetings with civic groups.

### **Relevant Experience**

#### **Campus Master Planning Services for State Capitol Complex**

Prior to working with Three Designs, Ms. Cox provided Landscape Architect responsibilities including assisting in various phases of the Master Planning effort including site analysis, design recommendations, and coordination of graphics for publication. Master planning services included plans for expansion, location of new buildings, pedestrian and traffic circulation, landscaping, utilities, and site security. Responsibilities include assisting in various phases of the Master Planning effort including site analysis, design recommendations, and coordination of graphics for publication. Master planning services included location of new buildings, pedestrian and traffic circulation, landscaping, utilities, and site security.

#### **Parsons City-Wide Comprehensive Parks and Recreation Master Plan**

Prior to working with Three Designs, Ms. Cox provided services as Project Planner for Parsons Parks Board.

#### **Erma Byrd Center, Beaver, Raleigh County, West Virginia**

Prior to working with Three Designs, Ms. Cox provided Project Landscape Architect services.

## Education

B.S. Civil Engineering  
West Virginia Institute of Technology, 1998

## Registrations

Registered Professional Engineer in West Virginia, Florida, and Ohio

## Professional Memberships

American Society of Civil Engineers (ASCE)  
American Water Works Association (AWWA)

## Professional Experience

Mr. Morton has over fifteen years of experience in many areas of civil engineering including pipeline design, water distribution systems, sanitary sewer collection systems, storm water collection systems, site development projects, roadway design projects, and airport design projects. His responsibilities at E.L. Robinson Engineering Co. include project management, construction management, contract administration and project engineering.

## Representative Projects

Edgewood Summit, Arthur B. Hodges Center - Project Manager of the engineering design and construction management for the site development of a skilled nursing and assisted living facility in Charleston, WV including site grading, site utilities, storm water design and retention, ADA parking lot, pile lagging retaining wall to support building foundation, roadway relocation, and auxiliary parking lot. Also obtained all site related permits including the City conditional land use permit for the facility and represented the client at public hearings.

CAMC Robert C Byrd Clinical Teaching Facility Site Development and 33rd Street Relocation – Project Manager of the engineering design and construction management for the site development of a 5 story hospital building and the relocation of 33rd Street, the waterline main, sanitary sewer main, and City storm water system in Charleston, WV. Obtained all necessary site related permitting.

CAMC Women and Children Parking Lot – Project Manager of the engineering design and construction management for the site development of a 5 acre parking lot in Charleston, WV which serves the existing CAMC hospital complex. Obtained all necessary site related permitting.



CAMC Medical Resident Housing Site Development - Project Manager of the engineering design and construction management for the site development of the Jefferson Place building on Quarrier and Morris Street in Charleston, WV including parking, storm water design with retention and outlet to combined sewer, and sanitary sewer relocation. Also assisted the structural engineer in the structural design and detailing of the building and obtained all necessary site related permits.

Prieto Retail Site Development - Project Manager of the engineering design and construction management for the site development of a retail shopping center in Inverness, Florida, including utilities, storm water retention, and parking layout. Obtained all necessary site related permits.

Slaby Medical Building- Project Manager of the engineering design and construction management for the site development of a medical office building in Inverness, Florida, including permitting, utilities, storm water retention, and parking layout.

Beverly Hills Dental Office - Project Manager of the engineering design and construction management for the site development of a medical office building in Beverly Hills, Florida, including permitting, utilities, storm water retention, and parking layout.

Alugubelli and Patel Medical Buildings - Project Manager of the engineering design and construction management for the site development of three medical office buildings in Beverly Hills, Florida, including permitting, utilities, storm water retention, and parking layout.





## Education

M.S. Engineering of Mines, West Virginia University, 1990  
B.S. Engineering of Mines, West Virginia University, 1983

## Registrations

Registered Professional Engineer in West Virginia, Kentucky, Ohio, and Maryland

## Professional Experience

Mr. Coberly has more than 30 years of experience as an infrastructure and mining engineer. He has extensive experience in project planning, specifically in mining, site development, water and wastewater projects.

Mr. Coberly served as the Chief for the West Virginia Department of Environmental Protection Abandoned Mine Lands Division for more than 4 years. In this position, he was responsible for managing and directing the operations of the Abandoned Mine Lands Office. This program is responsible for reclaiming lands damaged due to coal mining that occurred prior to 1977. The Office investigates, plans, designs, bids and oversees construction projects reclaiming these abandoned mines. The budget for the Office is approximately \$66 Million with a staff of nearly 60 employees.

Mr. Coberly has managed projects with ELR which have involved site development, infrastructure planning, water, sewer, geotechnical analysis, abandoned mine reclamation projects, building construction, active surface mining projects, insurance investigations, providing expert witness services and various post mining land use projects.

## Representative Projects

Project Manager on over 80 West Virginia Department of Environmental Protection Abandoned Mine Lands reclamation projects

Glen Rogers waterline replacement Project: Project Manager responsible for design and construction oversight of waterline replacement project.

Lavalette PSD Route 52 Waterline Extension Project: Project Manager responsible for design and construction oversight of \$5 Million waterline extension project.

Mingo County Redevelopment Wood and Belo Industrial Parks: Project Manager responsible for design and construction oversight of \$4.5 million site development project that involved over 2 million cubic yards of earthwork and infrastructure development of over 120 acres.

Williamson DHHR Facility: Project Manager responsible for design and construction oversight of \$2.5 million office facility. Project included the geotechnical analysis, foundation design, site grading, water, sewer and storm water design for the facility.



Mason County 911 Facility: Project Manager responsible for design and construction oversight of \$1.5 million office facility. Project included the geotechnical analysis, foundation design, site grading, water, sewer and storm water design for the facility.

Flatwoods Canoe Run PSD - Exchange Road Waterline Extension Project Phase I: Project Manager responsible for the design of a \$3 million waterline extension project.

Norton Harding Jimtown PSD - Scott Road/Findley Orad Waterline Extension Project: Project Manager responsible for design of \$1.2 million waterline extension project.

Putnam Development Authority - Business Park Utility Extension Phase II: Project Manager responsible for design of \$1 million multiple utility extension.

Wayne County 2010 Plan - Project Manager responsible for the development and implementation of a county wide plan for waterline extensions.

Additionally, Mr. Coberly was the initial Project Manager through funding on several projects including Lavalette Route 37, Crum PSD Route 152, Dingess Phase I, Twin Branch Racetrack and Holden Water Project.



## Education

B.S. Civil Engineering, West Virginia University, 2002

## Professional Experience

Mr. Kelly has over ten years of experience in many areas of civil engineering including sanitary sewer collection, water distribution systems, roadway design projects, and site development projects. He has also assisted in the preparation of permits for NPDES, NOI, Public Land, U.S. Army Corps of Engineers, WV Health Department, WVDOH, and CSX Railroad.

Mr. Kelly has experience in the design and draft of construction and right-of way plans as well as performing hydraulic analysis of waterways within project areas. He has also assisted in the coordination of construction activities with utility companies.

## Representative Projects

**Putnam PSD Sewer 2009 Project:** Drafting of the plan and profile sheets for construction purposes, determine quantities for construction purposes.

**Putnam PSD 2012 Water Project:** Drafting of the plans and details for construction purposes, assisted in the preparation of bidding documents and technical specifications.

**Armstrong PSD Water Treatment Plant Improvements and Waterline Extension:** Drafting of the plans and details for construction purposes, assisted in the hydraulic analysis of the water distribution system.

**Buffalo Creek Bridge Replacement:** Drafting of maintenance and traffic plans, determined quantities for pavement marking and traffic control.

**Corridor H Davis to Bismark:** Drafting of pavement typicals on cross sections and determine quantities, determined earthwork quantities for the construction limits within the project area, determined quantities for temporary pollution control.

**U.S. Route 35:** Completed DR-6 and DR-7 forms to determine flow, depth, and velocity to size pipes for minor drainage, determine quantities for temporary pollution control



## Education

A.A.S. CAD Technology, West Virginia State University, 1997  
B.A. Board of Regents, West Virginia Institute of Technology, 1999

## Registrations

Surveyor in Training Certification, West Virginia, 2003

## Professional Memberships

West Virginia Society of Professional Surveyors

## Professional Experience

Mr. Williams has been with E.L. Robinson Engineering since 1978, drawing from over thirty-five years of engineering and design experience to bring to your project. Mr. Williams has been utilizing CAD software since 1990 and has attended supplementary training courses and seminars dealing with third party engineering software programs. Mr. Williams' project experience includes numerous highway construction projects for the WVDOH, including highway plans and right-of-way plans. Also included in his experience is utility design and relocation, residential subdivision layout, survey boundary map preparation, and site development design.

Other administrative responsibilities include reviewing contract plans, scheduling of survey crews, cost estimate proposals and general project coordination. Mr. Williams has also spent a considerable amount of time providing construction administration and observation services for a large dichotomy of representative projects. He has served as construction inspector on various water, sanitary sewer, storm sewer and roadway construction projects. In assisting the Surveying and Right-of-Ways Departments, he often performs survey office calculations, note reduction, plat plotting and courthouse research.

## Representative Projects

Throughout his extended career, both in the field and the office, Mr. Williams has been involved in the design, construction and coordination of over 20 single and multi family residential subdivision projects. A few of his subdivision and gated community projects include Centre Court, South Hills; South Gate, South Hills; Quail Pointe, Mink Shoals; Bedford Glen, Charleston; Briar Meadow, Cross Lanes; and Sherwood Forest, South Hills.

Mr. Williams has designed and coordinated the development of commercial property. Some of his projects are Saturn of Hurricane/Charleston in Hurricane, Pizzaria Uno's in Bridgeport, Hurricane Chevrolet in Hurricane, Sleep-Inn in Charleston, TGI Fridays in Cross Lanes, WV Air National Guard in Bridgeport, and Edgewood Summit Retirement Community in Charleston.





**B. Craig Miller, PE**

Craig founded Miller Engineering in 2003, and serves as President and Principal Engineer. He has more than (15) 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 which included pool projects.

His experience with a wide range of projects including HVAC, electrical, plumbing, infrastructure upgrades, building automation, energy efficiency, and maintenance/renovation, among others, allow 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***

- ***WVU Recreation Center Indoor Pool – Owner’s Engineer***
- ***WVU Natatorium – Owner’s Engineer***
- ***Camp Virgil Tate***
- ***WVU Jackson’s Mills***
- ***Greenbrier State Park***
- ***Beech Fork State Park Lodge indoor/outdoor pool design development***
- ***Cacapon Lodge Addition***
- ***(25) years combined experience in pool operations, maintenance, evaluation, and design***

***Professional History***

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

**Education**

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

**Licenses and Certifications**

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



## Travis Taylor, PE

Experience in project management facilitates Travis’s ability to create and design constructible projects. Prior to joining the Miller Engineering team he was directly responsible for managing \$10 million in electrical construction budgets. His experiences encompass both new construction and renovation.

Travis maintains professional competencies by attending seminars and continuing education classes. As a staff 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: Staff MEP Engineer***

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

### ***Professional Project Highlights***

- *Experience with design for pool mechanical systems*
- *Camp Virgil Tate lighting and pool design*
- *Green Hills Country Club outdoor pool*
- *Krepps Park ADA upgrades*
- *Greenbrier State Park*
- *Cacapon Lodge pool addition and evaluation*
- *Beech Fork State Park Lodge indoor/outdoor pool design development*
- *Greenbrier State Park*

### ***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





## **Rob Angus**

*(20) Years of maintenance, operations, and construction management precede Robert’s engagement with Miller Engineering. Professional expertise of construction project management was gained as an owner of his own contracting company specializing in residential and commercial construction, electrical, plumbing, and HVAC projects.*

*(Robert’s hands-on, common sense, and valuable work history knowledge, enables him to interface with construction personnel seamlessly alongside engineers and architects. He is adept at preventing and handling issues. Robert is involved at the estimation phase to allow for continuity within the project’s design and construction.*

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

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

### **Professional Project Highlights**

- **BOPARC Pool and Ice Skating Rink** (Previous Employment Experience)
- **Camp Virgil Tate – WVU 4-H Pool Renovation**
- **Greenbrier State Park Pool Renovation**
- **Bluestone State Park Pool Renovation**
- **Maintains a change order rate of less than (5%) consistently**
- **(10) Years of owner experience in large scale construction**
- **(20) Years of experience in pool operations, maintenance, and design**

### **Professional History**

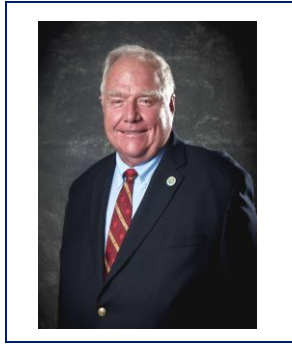
2009- Present	Miller Engineering, Inc.	Aquatic Construction Representative
2000-2009	Angus Contracting, LLC	Owner/Operator
1991-2000	BOPARC	Director of Maintenance

### **Education**

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

### **Licenses and Certifications**

- Licensed West Virginia General Contractor
- Licensed West Virginia HVAC Contractor
- Certified HVAC Mechanic Contractor
- Licensed West Virginia Journeyman Electrician
- Licensed West Virginia Master Plumber
- OSHA 10-Hour Construction Safety & Health



## Jack Jaminson

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

### **Project Role: Code and Construction Specialist**

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

### **Professional Project Highlights**

- *Board Member of the WV Code Officials*
- *Founder and Secretary of the West Virginia Division of the International Association of Electrical Inspectors*
- *IAEI Ohio Chapter – Membership Chair*

### **Professional History**

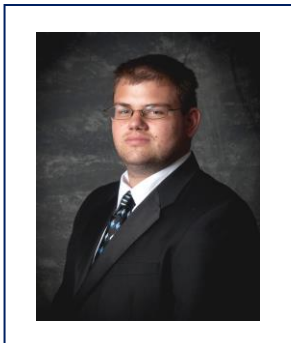
2010- Present	Miller Engineering, Inc.	Code and Construction Specialist
1999-2010	Megco Inspections	Chief Inspector
1972-1998	Jamison Electrical Construction	Electrician

### **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



## Joseph Machnik

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

### **Project Role: MEP Designer**

*Revit/CADD Coordination of New Construction and Renovation Designs*

### **Professional History**

2010 – Present	Miller Engineering, Inc.	MEP Designer
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### **Education**

2008 Penn State – Fayette, AS - Building Engineering Systems Technology: *Building Environmental Systems Technology*  
 2007 Penn State – Fayette, AS - Building Engineering Systems Technology: *Architectural Engineering Technology*

### ➤ Design & Permitting

Miller Engineering, Inc. (MEI) will work with the design team along with any owner's representatives and stakeholders to determine the requirements of the project. MEI will meet with the owner's staff to ensure the project meets desired design criteria and standards in addition to interfacing with any existing building systems. All standards related to the installation of a battery room, including ventilations considerations, will be included in the construction documents. MEI will also consult with local and state code officials for compliance in regards to applicable construction and life safety codes. A preliminary budget will be created, which will be updated to help the owner better understand the associated costs with any design options or scope changes prior to bidding.

### ➤ Construction Administration

Miller Engineering will be available to provide construction administration (CA) services for the project if necessary. MEI will be present during pre-bid meetings and will assist in answering questions from contractors and vendors during the bidding process. MEI will provide support to the design team and the client in issuing addenda. Miller Engineering will take part in kick-off meetings and in agreed upon progress meetings. It is company policy to answer any RFIs and review submittals in an expedient manner, as any delays can cost the project time and money. CA services can also include performing project observation outside of scheduled progress meetings. MEI will be available to perform punch lists related to substantial and final completions.

### Project Close-out

Another company policy is to require the contractor to provide training and demonstration to the owner's maintenance staff, at which MEI will be present. CA duties will also include reviewing operation and maintenance manuals, close-out documentation and record drawings.

## Client References

*What our satisfied customers have to say...*

“I chose Miller Engineering because they are not a purely design based firm. They have real world construction experience and the work ethic to ensure that the project is completed on time, on budget. I have confidence that my agency’s interest is well served in design and in construction contract administration. I cannot say that about every firm I have worked with.”

*--Bradley S. Leslie, PE*

“Hard working, very customer oriented, diligent and your team at Miller Engineering will do ‘whatever it takes’ 24/7 to meet our needs or any customers’ needs. Willing to come in on days off, weekends, nights, and holidays - no questions asked!”

*--Christopher T. Halterman*

<p><b>Brad Leslie, PE</b>            Assistant Chief            WV Division of Natural Resources            State Parks Section            324 4<sup>th</sup> Avenue            South Charleston, WV 25303-1228  <b>(304) 558-2764 ext. 51823</b>  <a href="mailto:Bradley.S.Leslie@wv.gov">Bradley.S.Leslie@wv.gov</a></p>	<p><b>Kerri J. Wade, MSW</b>            Extension Agent - Kanawha            County            West Virginia University            4700 MacCorkle Avenue, SE            Suite 101            Charleston, WV 25304  <b>304.720.9573</b>  <a href="mailto:Kerri.Wade@mail.wvu.edu">Kerri.Wade@mail.wvu.edu</a></p>	<p><b>Christopher T. Halterman</b>            Director of Operations            The Dominion Post            1201 Earl Core Rd.            Morgantown, WV 26505  <b>(304) 291-9479</b>  <a href="mailto:chalterman@dominionpost.com">chalterman@dominionpost.com</a></p>
<p><b>Pat Sweeney</b>            Business Manager            Southeastern Greene School            District            1000 Mapletown Rd.            Greensboro PA 15338  <b>(724) 943-3052</b>  <a href="mailto:Sweeney.pat@segsd.org">Sweeney.pat@segsd.org</a></p>	<p><b>Mike Trantham</b>            Program Administrator Senior            WVU Environmental            Health &amp; Safety            P.O. Box 6551            975 Rawley Avenue            Morgantown, WV 26506  <b>(304) 293-5785</b>  <a href="mailto:Mike.Trantham@mail.wvu.edu">Mike.Trantham@mail.wvu.edu</a></p>	<p><b>Randy Kolson</b>            Vice President            Aqua Pool, Inc.            1438 Electric Avenue            Pittsburgh, PA 15112  <b>(412) 824-6900</b>  <a href="mailto:randy@aquapoolinc.com">randy@aquapoolinc.com</a></p>

**For more information contact** – Craig Miller, PE, Owner of Miller Engineering, Inc.  
 Phone: 304-291-2234, 250 Scott Avenue Suite 3, Morgantown, WV 26508

## 4. PROJECT APPROACH



### The WVANG Construction and Facilities Management Moundsville FMS#9 Drainage & Remodel Design

**Three Designs'** approach to the WVANG Construction and Facilities Management's Project is consistent with the strategies employed by the Three Designs' team on its professional service design projects.

Should we be tasked with developing a design/construction package for WVANG to address the existing facilities upgrade, the following approach will be followed. WVANG's Approach is described in components in this section with our project plan and the tools by which we intend to accomplish the aspirations for your project.

#### PROJECT MANAGEMENT

Successfully produced projects are the result of establishing trust with the client that the Three Designs' Team will commit to meeting the client's goals, schedule and budget concerns in a timely, comprehensive manner. Reference contacts are:

**Mr. Todd M. Dorcas** – Community Development Specialist - *WV Public Transit Authority* –  
(304) 558-0428  
(*Little Kanawha Bus Maintenance Facility*)

**Mr. Jason Hudak, PE**– MSHA D4 - Impoundments –  
(304) 877-3900 EXT 202

**Ms. Kathy Goldsmith** – Town of Lost Creek – (304) 745-3322  
(*Lost Creek Train Depot Restoration*)

## WV Army National Guard's Division of Engineering and Facilities - RFP Language

### Mission:

The mission or purpose of the project for which bids are being solicited is to provide architectural and engineering design services for the FMS#9 Maintenance Facility of the West Virginia Army National Guard to include window replacement, design of a “battery room” for the storage and maintenance of batteries for military equipment, and to re-design the exterior drainage from the building to the existing storm drain system.

### Project & Goals:

The project goals and objectives are:

- Develop drawings and specifications for renovating/updating the existing building for the purpose of advertising and awarding a construction contract.
- Provide drawings and specification to allow for window replacement as directed by the Owner.
- Design and provide drawings and specification for a “battery room” for the storage and maintenance of batteries for military equipment.
- Re-design and provide drawings and specifications for the exterior drainage system of the building and tie that design to the existing storm drain system currently in place.

This RFP Language gives us a very good start to setting up the project and helps us in understanding how the needs can be met as follows:

- Building systems selections*** Systems will be closely discussed with the Owner prior to any selection. Some elements changes which require adjustment to the facility will be addressed with the Owner.
- Building materials preferences and cost comparisons that could be considered.*** This input amounts to early value engineering for selection of key materials to be considered and incorporated. This can save and will save your project considerable time and expense to obtain this initial input.
- Budget control.*** Successful projects result from all members of the project team developing a good understanding of the limitations that the project budget establishes, and then working to remain within those budget constraints. Since the contractor ultimately determines the cost of the project, obtaining early, and continuous input, is extremely valuable to achieving this goal.
- Schedule control.*** As with selecting reasonable materials and systems that meet the design criteria, intent, and budget, it is also critical to ensure that the design components are developed within a designated schedule that meets WVANG’s needs.



## PROJECT EXECUTION

For execution of this project, Three Designs will create a Work Plan that identifies accomplishing the following project phases/tasks/ progression:

### **a. Facilitate a project kick-off conference**

1. The objective will be to introduce the design team to the history of the project, the progress made to-date, and for WVANG's Project to present the assessment criteria, concept design and/or vision.
2. This meeting is to be interactive and to familiarize the design team with WVANG's goals, ideas, and expectations for the project. It is an opportunity to become more familiar with design team members and their particular expertise.

### **b. Existing Building Analysis**

Building Systems Analysis - Assess existing Architectural, Structural, Mechanical, Electrical and Plumbing systems and to determine best option for the battery storage needs and window replacement issues.

- Review any existing drawings and specifications available from the Owner's archives
- Consider, more energy efficient and cost effective options to complete the renovations
- Location and size of utility chases and access points for usage of the building renovations / expansions
- Identify key techniques, operations
- Confirm the approach to:
  - a. Operational standards
  - b. Security
  - c. Safe working environment
  - d. Cost effectiveness
  - e. Apparatus
- Develop a Code Analysis of the facility for review
- Develop an analysis of the existing mechanical / electrical / plumbing systems including utility corridors with dimensional control and sizing of members
- Confirmation of space needs
- Understand schedule ramifications / confirm milestones
- Develop an understanding of the design context and preferences of WVANG
- Develop an understanding of the building usage, including circulation
- Explore budget ramifications of design precepts

## **c. Condition of Storm Drainage System**

Review existing drainage system and becoming familiar with all renovations performed to date

- Review any existing drawings and specifications available from the Owner’s archives
- Location of existing drainage structures and capacities, as well as identifying defects of the system
- Develop the dimensional confirmation of all storm water the system is to handle
- Develop the Assessment Report of the system’s components
- Submit the existing conditions package, including drawings and report to WVANG’s project team for review

## **d. Design of Drainage & Building Needs**

The Design the drainage system using the most energy efficient methods available and prudent

- Use of current codes / standards as required
- Identify drainage system needs, location of system devices and maintenance access
- Identify adjacency to facilities, proximity of spaces
- Confirm preferences for heavy storms and flood situations
- Submit windows and battery storage drawings and specifications package to WVANG’s project team for approval
- Submit System Plan drawings and specifications package to WVANG’s project team for approval
- After approval, finalize the development the systems to bidding and construction of the drainage and building renovation needs

**Goals of the project** – Our goals will include criteria that will be used to provide WVANG’s Officials a successful project. These goals stem from our Three Design Principles:

Function - Providing the best function of the facility changes to meet the needs of the users

Cost Effective – Utilizing the best consultants, providing the best designs and the most effective product on the project.

Aesthetic Design - Developing a pleasing design that enhances the facilities purposes.

**Functional / Cost Effective / Aesthetic**

## 5. ATTACHMENTS

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

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

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

**DEFINITIONS:**

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

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

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

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: Three Designs, PLLC

Authorized Signature: *[Handwritten Signature]* Date: 05/12/2015

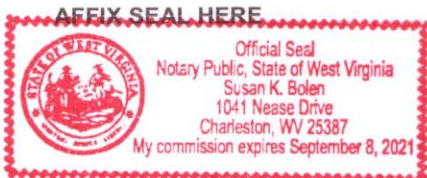
State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 12 day of May, 2015.

My Commission expires September 8, 2021.

NOTARY PUBLIC *[Handwritten Signature: Susan K. Bolen]*

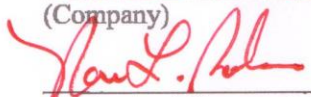


**CERTIFICATION AND SIGNATURE PAGE**

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained 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.

THREE DESIGNS PLLC

(Company)

 RON L. BOLEN

PRESIDENT

(Authorized Signature) (Representative Name, Title)

304.807.0841 05/12/2015

(Phone Number) (Fax Number) (Date)