



September 6, 2012

Mr. Frank Whittaker, Senior Buyer
Department of Administration, Purchasing Division
2019 Washington Street, East
Charleston, WV 25305-0130

**Subject: Beech Fork Lodge Expression of Interest
DNR213005**

Dear Mr. Whittaker:

ZMM Architects and Engineers is pleased to submit the attached information to demonstrate our experience and our qualifications to provide professional design and construction phase services for a new lodge at Beech Fork State Park. Established in 1959, ZMM is a Charleston based architecture and engineering firm, and is noted for design excellence and client focus. Our team for this project includes E. L. Robinson Engineering, a site, civil, and landscape consultant with extensive knowledge of the proposed site, as well as Miller Engineering, a local mechanical, electrical, and plumbing engineering firm with recent experience providing services for the West Virginia Division of Natural Resources (WVDNR).


Our team has significant experience with the proposed project and site, and we have completed various feasibility studies and conceptual designs for a new lodge at Beech Fork State Park. These efforts commenced in 1981 when ZMM Architects and Engineers developed a design for a new Lodge and Convention Center at the park. E.L. Robinson Engineering (ELR) completed site selection and feasibility studies in 1994 and 2008. Most recently the WVDNR retained the team of ELR and ZMM Architects and Engineers to prepare the feasibility study for a 75 room lodge at Stowers Branch.

Thank you for taking the time to review the attached the attached Expression of Interest which includes information regarding our understanding of the project, our design approach, a detailed plan for communication through both the design and construction phases of the project, as well as a plan demonstrating how we will meet the project budget. Please note that our experience with each permit, process, and plan outlined in the Outgrant License Process is also included. Additional information includes our team's design experience in each relevant professional discipline, staff qualification, and references.

We appreciate your consideration for this important assignment.

Respectfully submitted,

ZMM, Inc.


Adam R. Krason, AIA, NCARB, LEED-AP
Principal

RECEIVED

2012 SEP -6 AM 11:34

WV PURCHASING
DIVISION

SECTION

1

PROJECT APPROACH

Background
Site/Roadway Analysis
Utilities
Site Development
Permitting
Architectural Design Approach
Quality Assurance/Quality Control
Communication Procedures
Project Budget Approach
USCOE Outgrant License Process

SECTION

2

ZMM TEAM

ZMM
E.L. Robinson
Miller Engineering
Decota Consulting
CRA

SECTION

3

QUALIFICATIONS

Organizational Charts
Resumes

SECTION

4

EXPERIENCE

WVDNR, Lodge, Housing
Site Design
Road
Utilities

SECTION

5

REFERENCES

Client References
Testimonials
Reference Letters

SECTION

6

ATTACHMENTS

RFQ
Addendum Form
Purchasing Affidavit
Insurance Certificates

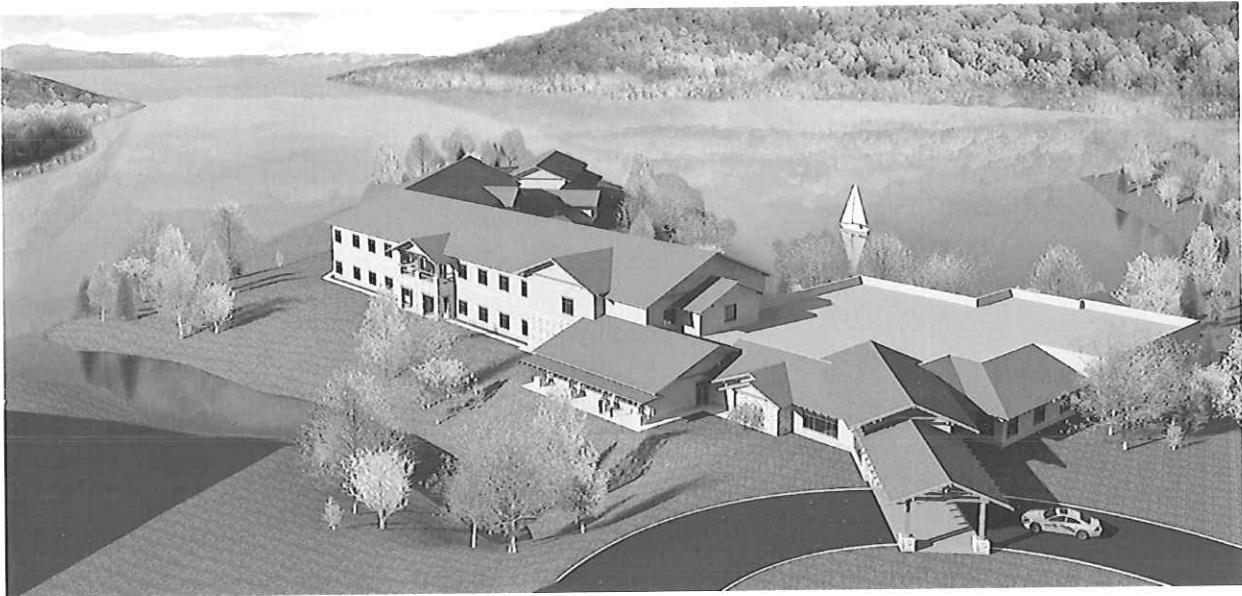
SECTION

7

CERTIFICATIONS

Professional License
Certifications
Degrees

Beech Fork State Park – Proposed Lodge



Statement of Project Understanding

Background

Our team has been completed various feasibility studies and conceptual designs for a new lodge at Beech Fork State Park. These efforts commenced in 1981 when ZMM Architects and Engineers developed a design for a new Lodge and Convention Center at the Park. E.L. Robinson Engineering (ELR) completed site selection and feasibility studies in 1994 and 2008. Most recently the West Virginia Division of Natural Resources (WVDNR) retained the team of ELR and ZMM Architects and Engineers to prepare the feasibility study for a 75 room lodge at the Stowers Branch. This site is located near the swimming beach owned and operated by US Army Corp of Engineers and two miles by road from the Beech Fork Lake Dam. This site was selected after the two previous studies noted above proved the Stowers Branch Site to be the most desirable location for the lodge.

Jeff Nelsen will coordinate our team's effort for the Outgrant License Process, site preparation, infrastructure, utilities, site development, and landscape architecture portion of the project. Jeff's existing knowledge of the proposed site will prove beneficial throughout the planning and design process. Please note that our experience with each permit, process, and plan outlined in the Outgrant License Process is contained later in this submission. A general overview of the project site conditions are contained below:

General Site and Roadway Analysis

The access to the site is off Beech Fork Road (CR 30) about ½ miles from the dam site. From Beech Fork Road, turn on to Falls Branch Road via a Y intersection down steeply sloping terrain. This intersection will need to be upgraded to a T intersection to improve safety. Within 800' a one lane bridge crosses Falls Branch at a 90° turn on the north approach. Even though WVDOH rates this bridge as fair it will

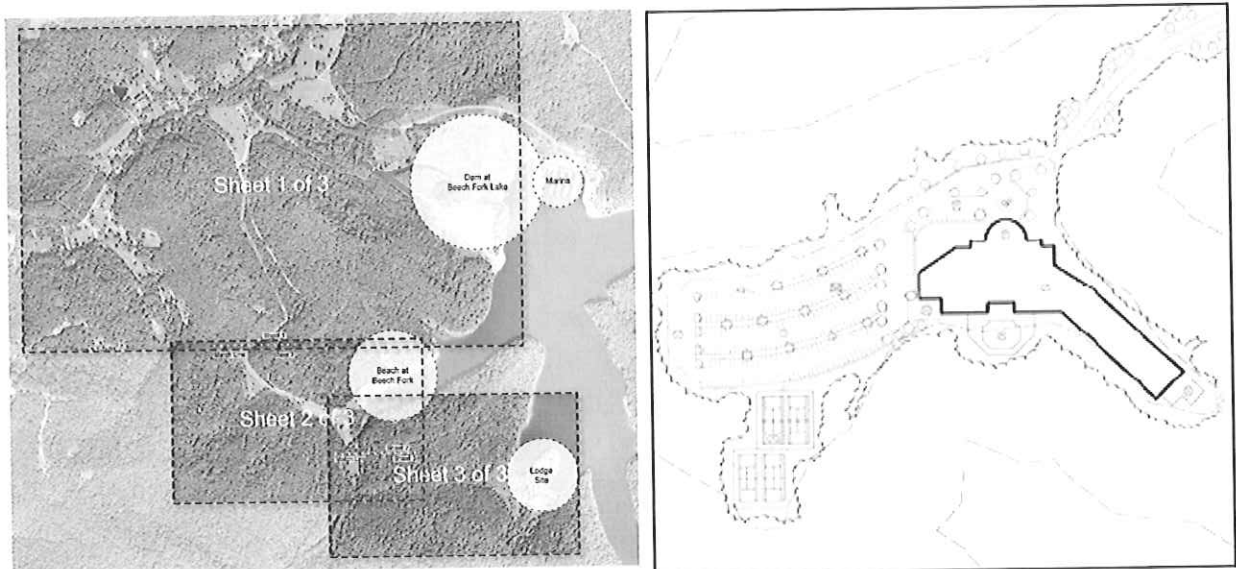
Utilities

Potable water is available at the interaction of Falls Branch and Stowers Branch Road. There is a 6" line with an estimated 110 psi at this location according to Richard Smith of the Lavallette Public Service District – phone: 304-525-3771.

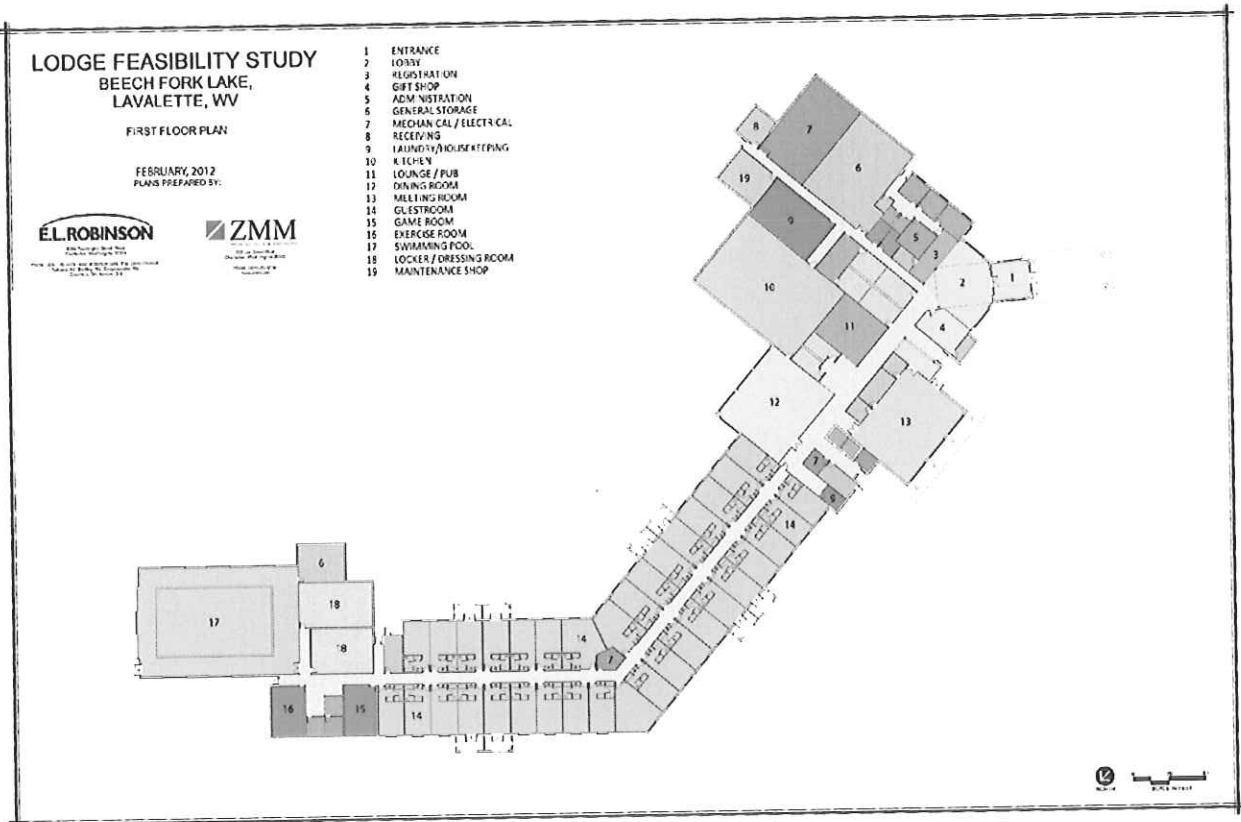
Natural gas is available at the same location with a 4" line available from Consumers Gas Company according to Rex Barker – phone: 304-523-9223. Electric service is provided by Appalachian Power Company to the swimming beach. There is only single phase service to the beach. The contact for Appalachian Power is Brian Stevens – phone: 304-696-1266. There are no sanitary sewer lines near enough to the site. The closest is over three miles away about ¾ miles past the Lavallette Elementary School near Dellwood Road. It is managed by Northern Wayne County Public Service District. A sewage treatment plant at a higher elevation of the lodge upstream the nearby stream next to the lodge will require a lift station from the lodge to the plant.

Site Development

The lodge will be constructed on the peninsula that creates the "Twin Coves" name mainly because it is on the highest land on site. Fill material will still be required here so the lodge structure is above the 614.5' 100 year floodplain elevation. Also, positioning the guest rooms on the peninsula allows lake views out both sides of the lodge. The lodge entry will be positioned over the larger of the two stream channels on site and the parking for the lodge would be within the lowest lying area next to the lake.



The previous study in 1994 called for significantly filling the stream channel next to lodge and dredging the lake to create more land on the shorelines of Twin Coves. The current approach reduces those impacts and lessens the fill material required from over 200,000 cubic yards to 100,000 cubic yards. The design strives to minimize impacts to the shore line, stream channels and wetlands on site.



The exterior of the building is designed to simulate the craftsman style, and is intended to evoke a more relaxed, comfortable and informal feel for guests and visitors. The brick, stone, siding and metal roof materials are common to the area and offer low maintenance and durability to provide a long-lasting, attractive structure. Decisions regarding mechanical and electrical systems, as well as the finishes noted above, will be coordinated with the WVDNR for ease of operation, maintenance, and life cycle cost. The final design solution for the lodge will be developed with additional input from the WVDNR to ensure that the lodge meets your vision.



Quality Assurance/Quality Control

To ensure the quality of the design, a QA/QC team of Ed Robinson, Bob Doeffinger, and Dave Ferguson will conduct an independent review at the end of each phase as a complement to the independent cost estimate. The review will focus on both design and constructability issues and the WVDNR will be an integral part of the QA/QC process.

Communication Procedures

Planning & Design Phases

During the planning and design phases, Jeff Nelsen, Adam Krason, and Craig Miller will be the primary contacts for the design team. All correspondence during the planning and design phase will be copied to this core group. Due to the depth of his knowledge and experience with the proposed project and project site, Jeff Nelsen will serve as the primary contact, and will coordinate the overall effort of the site design team. Mr. Krason will lead the effort as it relates to building design, and Mr. Miller will lead the effort of the mechanical, electrical, and plumbing engineering team. Throughout the project this core design team will have regular contact with the owner's project team.

To help ensure the quality of the design process, the ZMM team recommends regular bi-weekly meetings to review outstanding issues, design progress, regulatory issues, etc. The team will prepare a standing agenda, and will prepare minutes following each meeting documenting discussion items, decisions, and responsibilities for follow-up.

Construction Phase

During the construction phase, all submittals and correspondence will be directed to Mr. Glenn Savage (Construction Administrator), and copied to Ms. Theresa Dorsey (Construction Phase Administrative Assistant). Ms. Dorsey will log each submittal, pay application, and RFI as it is received, and distribute this information to the appropriate member of the design team. Ms. Dorsey will update the design team weekly regarding outstanding submittals and RFI's to ensure that all information is delivered in a timely manner. Mr. Savage will attend all construction meetings, and will coordinate the effort of the design team during this phase. Mr. Robert Angus from Miller Engineering will coordinate the mechanical, electrical, and plumbing engineering team during the construction phase. Mr. Nelsen, Mr. Krason, and Mr. Miller will stay actively involved throughout the construction phase until final completion.

Meeting Project Budgets

The ZMM team has a history of meeting budgets on projects with a similar scope. Due to the fact that our team provides design services throughout the State, we have an understanding of the unique construction markets that exist in certain areas, including Cabell and Wayne counties. Over the last five years, our team has provided design and construction phase services on more than \$167M worth of work in Cabell and Wayne counties. This work includes educational and training facilities, as well as water and wastewater projects. Our ability to meet the project budget on projects with a similar scope is demonstrated below:

Project Name	Project Budget	Bid Amount	Construction Type
Jackson County AFRC	\$23.4M	\$21.5M	Single Prime
Southside Elem/Huntington Middle	\$23.5M	\$20.7M	Multiple Prime

Our Approach for the Beech Fork Lodge USCOE Outgrant License Process

8-30-12

1. Conceptual Review

The US Corps of Engineers (USCOE) have already commenced this review based on earlier submissions by WVDNR of the work completed to date.

2. Market & Feasibility Studies

The EOI states the market study and feasibility study are being completed by another consultant for WVDNR.

3. Field Survey

Topographical mapping for construction document's preparation does not exist in an appropriate scale for the project site and will be completed using aerial photogrammetry this fall or early winter which is the critical first step to meeting the requirements of Outgrant License Process. The only current mapping for this site is 5' contour interval mapping completed by the USCOE in the 1960's as part of the planning for the development of Beech Fork Dam and Lake. It is not suitable for the construction documents of this project.

4. Environmental & Cultural Resource Review

The next step will be the required environmental and cultural resources review by State Historic Preservation Officer, WVDNR and US Fish and Wildlife Service. More than likely WVDNR and USFWS initial response will require further environmental review primarily related to wetlands delineation and stream impacts at the site. This work will be coordinated with ELR's consultant, Decota Consulting of Cross Lanes, WV. The cultural review may require a Phase I Archeological Survey due to the possible presence of an old cemetery indicated on the preflood mapping of the site. Cultural Resource Analysts, Inc. (CRA) from Hurricane, WV will provide these services in coordination with ELR and assist with the preparation and approval of an Archeological Resources Protection Act (ARRA) permit prior to commencing with a geotechnical investigation.

5. Geotechnical Investigations

These critical reviews are required prior to the USCOE authorizing geotechnical services needed for the project's development. The USCOE also requires the applicant (WVDNR) to obtain a license from them to perform geotechnical work. This work usually entails minor clearing for access road construction, test pit digging, and core borings. In order to meet NEPA requirements, an environmental evaluation of the proposal is needed. The evaluation is performed and documented by the USCOE and typically results in the following determination.

NEPA COMPLIANCE DETERMINATION: The proposed action is considered categorically excluded from National Environmental Policy Act documentation per implementing regulations in USACE ER 200-2-2 paragraph 9.h.1 which reads, "Real estate grants for rights-of-way which involve only minor disturbances to earth, air, or water: (1) Minor access roads, streets and boat ramps".

- NPDES permit (obtained from State DEP)
- Section 401/404 (Nationwide or Individual as required)
- mitigation plan (if applicable)
- operation and maintenance plan

Requirement Descriptions for Outgrant Licensing

Master Plan Supplement The Design Team will prepare the necessary Master Plan (MP) or Supplement as directed by WVDNR. MPs are required for civil works projects and other fee-owned lands for which the USCOE has administrative responsibility for management of natural and manmade resources. The Design Team will evaluate the requirements with the USCOE early on in the project to minimize the time to achieve this document approval once the construction documents are completed

Timber Appraisal

Timber appraisals are used to assess the economic value of the timber resource scheduled to be cleared as part of the proposed construction. This work will be completed by Decota Consulting or the WV division of Forestry for WVDNR.

NEPA (National Environmental Policy Act)

For most construction projects the Environmental Review process and meeting the requirements set forth as mitigation satisfies the US Fish & Wildlife Service & WVDNR to complete the construction. Our team working with Decota Consulting will work to minimize impacts to project resources that may require an Environmental Assessment (EA) or an Environmental Impact Statement (EIS). Under NEPA, both the EA and EIS require a public review and comment period. NEPA evaluation and documentation services can be provided by the WVDNR's Design Team which will aggressively manage the time constraints this may pose on the project.

NPDES Permit

ELR will prepare for WVDNR a National Pollutant Discharge Elimination System (NPDES) permit prior to the start of construction. We have prepared and completed numerous projects over 3 acres requiring this permit and are quite familiar with the agency and its personnel with the work we do for the WVDEP's Abandoned Mine Lands Program and the projects we have designed for WVDH. Receipt of the permit is a prerequisite for site clearing/earthwork operations; and a requirement for, or condition of, the issuance of an outgrant license.

Section 401/404

The physical alteration of water bodies, including wetlands and streams, are regulated by Federal and State statutes under Section 401 (Certification) and Section 404 (Permits) of the Federal Clean Water Act (CWA).

There are two categories of permits pursuant to Section 404 and Section 10. These include Standard Permits (Individual Permits and Letters of Permission) and General Permits (Nationwide Permits and Regional Permits).

LODGE FEASIBILITY STUDY

BEECH FORK LAKE, LAVALETTE, WV

FIRST FLOOR PLAN

FEBRUARY, 2012
PLANS PREPARED BY:

E.L. ROBINSON

5088 Washington Street, West
Charleston, West Virginia 25313

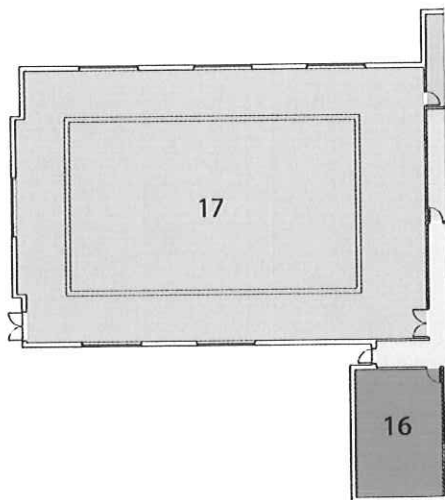
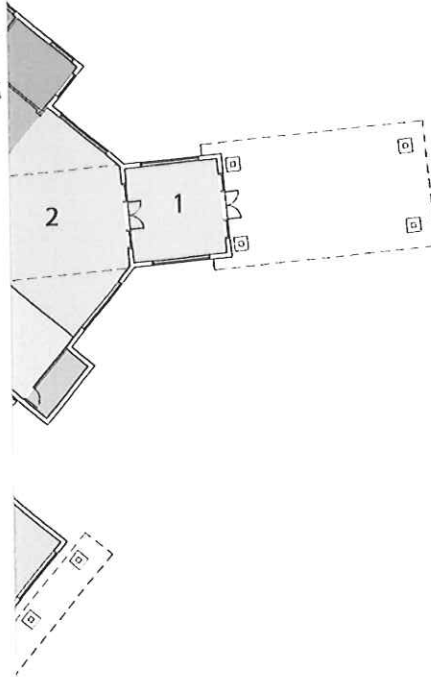
Phone: (304) 778-7473 . www.elrobinson.com . Fax: (304) 778-6426
Ashland, KY, Beckley, WV, Chapmanville, WV,
Columbus, OH, Ironton, OH

ZMM

ARCHITECTS & ENGINEERS

222 Lee Street West
Charleston, West Virginia 25302

Phone: (304) 342-0159
www.zmm.com



0 20 40
SCALE IN FEET



LOCATION:
222 Lee Street, West
Charleston, WV

CONTACT:
Phone 304.342.0159
Fax 304.345.8144
www.zmm.com

History

ZMM was founded in 1959 in Charleston, West Virginia by Ray Zando, Ken Martin, and Monty Milstead. Since the inception of the firm, ZMM has been dedicated to providing an integrated approach to building design for our clients. ZMM delivers this integrated approach by providing all building related design services, including architecture, engineering (civil, structural, mechanical, and electrical), interior design, and construction administration from our office in Charleston. Our integrated design approach makes ZMM unique among architectural firms in West Virginia, and helps to ensure the quality of our design solutions by providing more thoroughly coordinated construction documents.



Over the last decade, ZMM has become a leader in sustainable or 'green' design in West Virginia. In addition to participating in sustainable design and construction seminars throughout the State (Beckley, Fayette County, Morgantown, Charleston, and Parkersburg), ZMM designed one of the first sustainable educational facilities in West Virginia (Lincoln County High School). ZMM's unique design approach has proven invaluable on projects that employ sustainable design principles, which often require a more integrated approach to building design.

As ZMM enters our second half-century providing professional design services in West Virginia, we remain committed to the ideal of providing high quality, client focused, design solutions that meet budget and schedule requirements. This commitment to quality has been recognized through both State and National design awards, as well as through the long-term client relationships that we have developed.

Services

Pre-Design

- Educational Facility Planning
- Programming
- Space Planning
- Feasibility Studies
- Existing Building Evaluation
- Site Evaluation and Analysis
- Master Planning
- Construction Cost Estimating

Post-Design

- Construction Administration
- Value Engineering
- Life Cycle Cost Analysis
- Post-Occupancy Evaluation

Design

- Architectural Design
- Sustainable Design
- Interior Design
- Landscape Architecture
- Structural Engineering
- Mechanical Engineering
- Electrical Engineering
- Civil Engineering
- Lighting Design
- Energy Consumption Analysis

LOCATION:
5088 Washington St
Charleston, WV

CONTACT:
Phone 304.776.7473

History

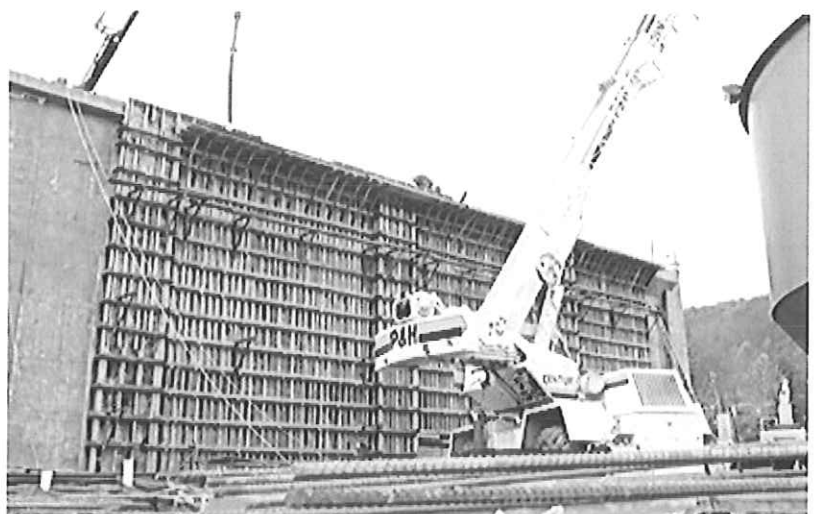
E.L. Robinson is a multi-disciplined engineering /planning firm with a staff of over 125 full-time professionals and support personnel located in seven offices throughout West Virginia (Charleston corporate office, Beckley and Chapmanville), Kentucky, and Ohio. Over the last 30 years, E.L. Robinson has 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



Miller Engineering, Inc. History



LOCATION:

250 Scott Avenue
Morgantown, WV

CONTACT:

Phone 304.291.2234
Fax 304.291.2246
www.millereng.net

History

Miller Engineering, Inc. (MEI) was founded in 2003 and provides professional services to facility owners and operators, architects, and contractors throughout West Virginia, Pennsylvania, Ohio, and Western Maryland. MEI services range through all facets of mechanical, electrical, and plumbing design as well as construction administration and project management. We utilize the abilities of designers with many years experience in their area of expertise, teamed with younger designers on a "best resource for the project approach". We also provide project management services at levels ranging from general oversight to complete project delivery through all phases of design and construction. Our personnel have worked in both the private and public sector and are familiar with many methods of project delivery from classic design/bid/build to full design/build with partnering.

MEI has developed the following philosophy to guide the performance of its services:

- Provide superlative design services to our clients in new construction, renovations, and daily operations.
- Perform work in a timely, accurate, and professional manner.
- Present multiple alternative and solutions whenever possible.
- Work with our clients to control first and life cycle costs.
- Be a technical "sounding board" for our clients in all situations.
- Strive to maintain professional competency through continuing education and training.

MEI utilizes a "practical application" approach to all projects throughout the design process to provide a "well rounded" result. This methodology emphasizes the best overall solution, meeting all the client's needs, instead of just the best technical solution. We believe our lean size provides a distinct advantage to our clients and affords us the freedom to easily team with the clients to achieve the overall best possible result.

Additional Consultants



LOCATION:

4984 Washington St.
Cross Lanes, WV

CONTACT:

Phone 304.776.3333
Fax 304.776.3371
decotaconsulting.com

Decota Consulting Company Inc.

Decota Consulting Company, Inc. is a full service consulting firm dedicated to servicing the unique needs and challenges of the mining and environmental industries. We have provided our clients state of the art solutions since 1996. Our company takes pride in utilizing our experience, integrity and quality of work in every project.

Decota Consulting Company, Inc. consists of a team with over 100 years of combined mining experience. Our staff has expert knowledge of geotechnical engineering, hydrology, geochemistry, biology, geographic information systems, and their application in the real world. We utilize leading software for mine design, hydrologic analysis, geographic information systems and data management to produce a quality product in a timely manner. The success of our organization depends on proper planning, knowledge of resources, how to manage those resources and an ongoing comprehensive cycle of communication between our staff and our clients.

As consultants, we provide the knowledge and technical support to help your organization achieve its goals more efficiently. We will stand as a professional liaison between our clients and various federal, state or local regulatory agencies. Services Include: Environmental Engineering, Mitigation, Monitoring, Natural Channel Design, and Wetland Investigation.



LOCATION:

3556 Teays Valley Rd.
Suite 3
Hurricane, WV

CONTACT:

Phone 304.562.7233
Fax 304.562.7235
www.crai-ky.com

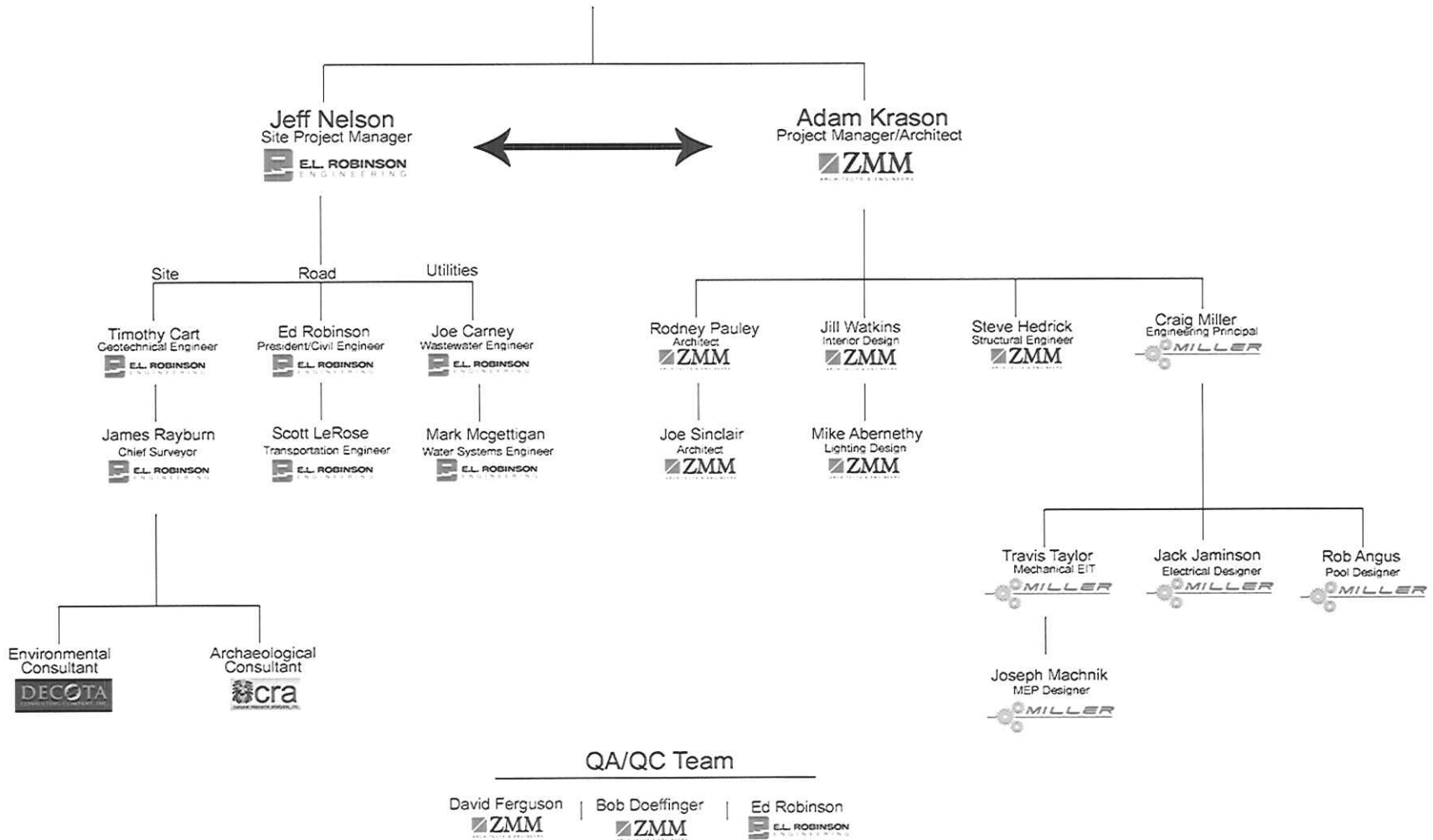
Cultural Resource Analysts, Inc.

CRA currently holds a twenty year-long Indefinite Delivery Indefinite Quantity contract as a prime contractor for providing environmental planning and documentation services with the General Service Administration. Our staff consistently exceeds state requirements for professional education and experience. Every team member has attained a bachelor's degree or higher. All principal investigators in the company possess a master's degree or higher, as do many of our archaeological field supervisors, architectural historians, historians, publications staff, and administrative support. Several of our staff have attained a doctorate in archaeology, and each archaeologist on our staff is a Registered Professional Archaeologist (RPA).

Our three-story headquarters building consists of a wet lab, a specialties lab, a photography studio, an osteological laboratory, a faunal analysis comparative collection, and a series of additional analysis labs with multi-purpose layout space. Similar lab set-ups exist at our satellite offices as well.

CRA produces quality reports that exceed the highest technical standards and clearly convey the results of our work. CRA provides a full range of graphic design and interpretive services. The use of industry-standard computer-aided design and drafting, geographical information systems, and graphic arts and document layout software allows CRA to provide and accept mapping and reports in any format. CRA employs production specialists and professional cartographers who will tailor customized report and mapping solutions to meet your needs. CRA has worked with hundreds of clients over the years and completed thousands of projects. Our management approach ensures that each project is treated individually and that the staff, equipment, and financial resources necessary are made available

Design Phase



Construction Admin. Phase



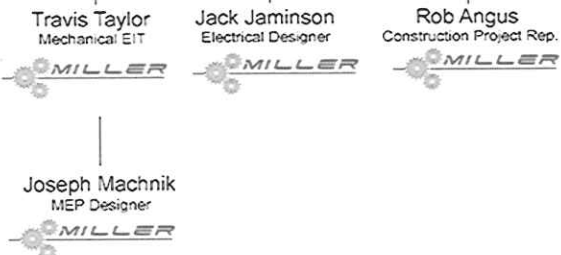
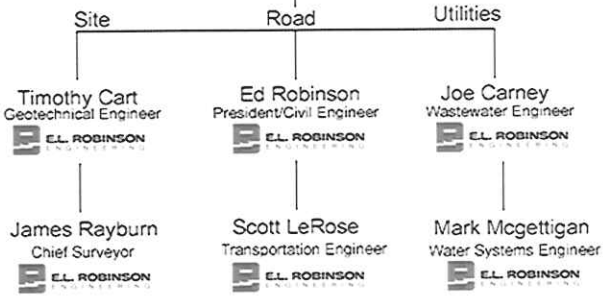
Theresa Dorsey
CA Assistant
ZMM
ARCHITECTS & ENGINEERS

Glenn Savage
Construction Administrator
ZMM
ARCHITECTS & ENGINEERS

Jeff Nelson
Site Project Manager
E.L. ROBINSON
ENGINEERING

Adam Krason
Project Manager/Architect
ZMM
ARCHITECTS & ENGINEERS

Craig Miller
Engineering Principal
MILLER



Adam R. Krason, AIA, NCARB, LEED AP



Role

Project Manager/Project Architect

Professional Registrations

Registered Architect (WV, OH, KY, VA)

LEED Accredited Professional

NCARB (55,984)

Construction Specifications Institute (CSI)

Construction Documents Technician (CDT)

Mr. Krason has served in the capacity of Architect and Project Manager for a variety of projects at ZMM. This experience includes Military, Educational (K-12 and Higher Education), Office, Justice (Courthouses, Correctional, Justice Centers), and Multi-Unit Residential projects. Mr. Krason's responsibilities include programming, design, documentation, coordination of the architectural and engineering team, as well as construction administration. Mr. Krason began his career in 1998, working on a variety of educational, commercial office, and correctional projects throughout Ohio, West Virginia, and North Carolina.

Mr. Krason has been an advocate of sustainable design in West Virginia, participating in a variety of sustainable design seminars throughout the State, and serving on the West Virginia School Building Authority Green Schools Sub-Committee. Recently, Mr. Krason helped coordinate the "Making the Business Case for Sustainability" conference at the University of Charleston that included speakers from Armstrong Industries, American Electric Power, CB Richard Ellis, and Interface Raise. Mr. Krason also assisted Habitat for Humanity Kanawha and Putnam County develop a commercial recycling program to fill a void in the sustainable design infrastructure in West Virginia. Mr. Krason has noted that, "I became a LEED Accredited Professional because I believe that good design has value, and the ability to impact our daily lives. Sustainable design showcases the value of design through demonstrated improvements in the performance of the students and employees who occupy our buildings." In addition to his design and project management responsibilities, Mr. Krason serves on the Board of Directors and is responsible for business development at ZMM.

Project Experience

West Virginia Army National Guard, Joint Interagency Education and Training Center, Camp Dawson, WV.

Mr. Krason was responsible for the preliminary programming, and participated in the schematic design of the 180,000 SF addition to the Regional Training Institute at Camp Dawson. Mr. Krason

Education

Bachelor of Architecture, The Catholic University of America, 1998

Bachelor of Civil Engineering, The Catholic University of America, 1997

Employment History

2007 - Present, Principal, ZMM

2007 - Present, Board of Directors, ZMM

2003 - Present, Architect, Project Manager, ZMM

1998 - 2003, Architect, Project Manager, Charleston Area Architectural Firm

Civic Affiliations

- American Institute of Architects, Member
- Habitat for Humanity Kanawha & Putnam County, Board of Directors 2011 - 2012
- WV Qualification Based Selections Council, President-Elect, 2011
- Leadership WV 2010
- Charleston Rotary
- West Side Main Street, Board of Directors 2008 - 2012
- City of Charleston Land Trust 2008 - 2011
- West Side Elementary School LSIC, Volunteer

Role

Site Project Manager

Professional Registrations

Registered Landscape Architect (WV, OH, VA, MD, IN)

Mr. Nelsen has practiced landscape architecture for over 30 years principally in West Virginia but also has completed projects in Ohio, Indiana and Pennsylvania. His professional experience has afforded him opportunities to assist clients with park and recreation planning and design, community and urban planning, streetscape design, campus planning for elementary, secondary and higher education facilities and site planning and design for residential, commercial and public places. He has been involved in environmental planning and restoration especially lands degraded from past mining practices. He has managed site development on significant projects such as the Stonewall Jackson Resort and the Tamarack Art Center yet enjoys working with clients and communities assisting them visualize the improvements for their parcels and neighborhoods.

Project Experience

Beech Fork State Park Lodge Development, Lavalette, WV: Provided feasibility studies of three different sites for new lodge for the state park beginning in 2008 through 2011. Working with WVDNR and the architectural firm ZMM of Charleston to develop a conceptual plan for the lodge and site improvements for a 75 room lodge near the lake's beach area with a total construction cost of approximately \$29 million.

Clay Center for the Arts and Sciences, Charleston, WV. Prepared construction and bidding documents and provided construction administration for a new public plaza space at the corner of Leon Sullivan Way and Washington Street for Charleston's premier performing arts and science center. The site's design called creating a cool green zone for people to gather informally and as an entertainment venue for special events. The relative flat site consisted of a circular plaza and fountain surrounded by a concentric ring of granite seat walls at the edge of the pavement radiating outward into the lawn area. Large 4" and 6" caliper Linden and Honeylocust trees were planted to create a shaded canopy for the space in front of the center.

Washington Street Streetscape, Charleston's East End, WV. Prepared master plan, construction and bidding documents and provided construction administration services for the remaining segment of the Washington Street streetscape from the state Capitol grounds to Charleston Area Medical Center which entailed a ½ mile of sidewalk

Education

Bachelor of Science in Landscape Architecture, West Virginia University, 1976

Civic Affiliations

- West Virginia Chapter American Institute of Architects, Member

B. Craig Miller, PE, LEED AP



Role

Engineering Principal

Professional Registrations

Professional Engineer (WV, PA, MD, OH)
LEED Accredited Professional
Licensed Master Plumber

Craig founded Miller Engineering in 2003 and serves as President and principal engineer. He has more than (15) years experience in design, specification, and project management. During his employment with WVU, Craig was directly involved with approximately \$130 million in new capital construction.

His experience with a wide range of projects including HVAC, electrical, plumbing, infrastructure upgrades, building automation, energy efficiency, and maintenance/renovation among others, allow him to serve in multiple capacities within a given project.

Profile

- 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

DNR Project Experience

Bluestone State Park - Pool Replacement
Greenbrier State Forest - Pool Renovation
Blackwater Falls
Cacapon State Park (Old Lodge and Pool)
Twin Falls State Park
Hawks Nest State Park

Additional Experience

Augusta Housing Complex, Morgantown WV
Barlett House (adaptive re-use)
Morgantown Domain Apartments

Education

BS, Mechanical Engineering, West Virginia University, 1995

BA, Mass Communications, University of Charleston, 1988

Employment History

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

Professional Highlights

- Systems replacement specialist.
- WV state specialist on aquatic structures.
- Consistent operable and maintainable designs.
- Below industry change order rate status
- High level of customer satisfaction standing.
- Accelerated design and early project delivery achieved on private surgical hospital.

Rodney Pauley, AIA



Role

Architect

Professional Registrations

Registered Architect (WV, GA)

Mr. Pauley is responsible for overseeing the daily design and production of the building, working in conjunction with in-house architectural, interiors and engineering staff to ensure the building not only meets the program requirements and budget, but meet the long-term needs of the owner. He also works directly with project principals to manage contracts, staffing and project deliverables. Mr. Pauley has a broad knowledge of building materials and services, building codes, and construction techniques, along with extensive experience in architectural detailing.

Mr. Pauley began his career in 1992 with an architectural firm in Atlanta, Georgia, and for the next 12 years rose to the Associate level by designing and managing a wide variety of project types including educational, retail, historic renovation, medical, and entertainment, specializing in office and speculative office design.

From 2005 through 2010, he worked at a number of Atlanta firms designing and managing office, high-rise condominium, and hotel projects. In 2010, Mr. Pauley moved back to Charleston, WV, to take a project management position with ZMM where he supervises the design and production of military, correctional and higher education projects.

Project Experience

Bridgemont Community and Technical College (Davis Hall, Building 704), Montgomery, WV. Mr. Pauley is the project manager for a design team that is currently preparing construction documents for the renovation to an existing 7-story, 77,000 SF educational building. The project scope includes remedying several engineering and life safety deficiencies, as well as architectural improvements to the building envelope.

Bridgemont Community and Technical College - Master Plan, Montgomery, WV.

As part of an effort to provide overall Master Plan services to Bridgemont CTC, ZMM worked with various stakeholders to develop a Master Plan for Bridgemont's current and future facilities at the Tech Park. The Master Plan incorporated the

Education

Bachelor of Architecture, University of Tennessee, 1992

Associate of Science, West Virginia Institute of Technology, 1986

Employment History

2010 - Present, Project Manager, ZMM
2008 - 2010, Project Manager, GA Firm
2006 - 2008, Project Manager, GA Firm
2005 - 2006, Sr. Project Architect, GA Firm
Jan. 2005 - Aug. 2000, Project Architect, VA Firm

Civic Affiliations

- American Institute of Architects, Member

Joe Sinclair, AIA, LEED AP BD+C, NCARB



Role

Project Architect

Professional Registrations & Certifications

Registered Architect (WV)
NCARB
LEED AP Building Design + Construction
Building Performance Institute (BPI) Certified Professional

Mr. Sinclair returned to West Virginia in 2010 after pursuing a Master of Architecture degree from the Savannah College of Art and Design and working as both an Intern and Project Architect in Atlanta, GA. Before joining ZMM as a Project Architect, Joe worked as the Program Director for Sustainable Building Technologies at Kanawha Valley Community & Technical College (KVCTC).

An Iraq War veteran, Joe is a Registered Architect and LEED Accredited Professional with a specialization in Building Design and Construction. As a graduate student in Savannah, Joe explored sustainability as form-giver in architecture. As an architect in Atlanta, Joe worked on both commercial and residential LEED-registered projects and was an in-house resource for building science and moisture management analysis. Since returning to WV, Joe has earned multiple BPI certifications for Home Energy Auditing and Retrofitting. Joe brings a passion for sustainability in the built environment as well as a command of building science and of the building envelope.

Project Experience

Reception Station Barracks, Ft. Benning, GA

LEED Silver Registered Project
As Project Architect and LEED AP, Joe designed the building envelope to meet and exceed LEED NC V2.2 energy standards. The envelope was also carefully designed to eliminate thermal bridging and the potential for condensation.

Carlisle Barracks Military Housing, Carlisle, PA Picatinny Arsenal, NJ

LEED for Homes
As Project Architect and LEED AP, Joe integrated a LEED for Homes Silver rating into the design, construction drawings, and specifications of the project.

Naval Housing, Southeastern United States

Joe participated in building design and community development on numerous Naval Stations throughout the Southeast United

Education

Master of Architecture, Savannah
College of Art and Design, Savannah,
GA, 2006

Bachelor of Science Engineering
Technology, Fairmont State College,
Fairmont, WV, 2002

Employment History

July 2012 - Present, Project Architect,
ZMM
2010 - 2012, Program
Director/Instructional Specialist,
Kanawha Valley CTC
2006 - 2010, Project/Intern Architect,
Niles Bolton Associates, GA

Civic Affiliations

- American Institute of Architects (AIA)
- United States Green Building Council (USGBC)
- Home Builders Association of Greater Charleston (HBAGC)



Role

Principal, Engineering Management, Corporate Management

Professional Registrations

Professional Engineer (WV, VA, PA, OH, TN, KY, NY, NH, ME, NC, SC, FL)

In addition to corporate management, Mr. Doeffinger is in charge of the engineering disciplines. It is his responsibility to ensure that the mechanical and electrical engineering components of ZMM's design are coordinated and integrated into the final product.

After graduate school in Architectural Engineering, Mr. Doeffinger joined ZMM. He has 35 years design experience in mechanical and electrical systems for buildings. He has a broad range of engineering experience in education, industrial and manufacturing facilities, large retail, correctional and jails, office buildings, and military facilities.

Mr. Doeffinger is responsible for new design and retrofit of chilled water systems for all building types including large regional shopping malls. He is involved daily with the firm's selection of appropriate systems for all building types and performs life cycle cost analysis and energy studies.

Mr. Doeffinger is a member of the American Society of Heating, Ventilation and Air-Conditioning Engineers. He is the current national Chairman of the Technical Committee on Heating and Air-Conditioning Load Calculation. He is involved in writing the National Standard on the Method of Calculation, which will shape the nature of the future building energy use for the nation.

Project Experience

Joint Interagency Training and Education Center

(JITEC): Mr. Doeffinger was responsible for the mechanical engineering design of the 600 room billeting expansion to the Regional Training Institute at Camp Dawson. The project is aiming for LEED Silver Certification. The project is served by a 4 - pipe hot and chilled water system with an energy recovery ventilation system.

The Plaza at King of Prussia: One of the largest retail centers in the east. Mr. Doeffinger has performed engineering services for the past 20 years. The project consists of a 5,000 -

Education

Master of Science Architectural Engineering; Pennsylvania State University; 1976

Bachelor of Science Mechanical Engineering; West Virginia University; 1973

Employment History

2010 - Present, President, ZMM

1976 - 2010, Vice President and Engineering Principal, ZMM

Civic Affiliations

- ASHRAE – Member of the Technical Committee Load Calculations Data and Procedures for 15 years, serving as chairman. Presently Chairman of the Research Subcommittee
- Advisory Board for the Department of Electrical Engineering Technology, Bridgmont Community and Technical College
- City of Pt. Pleasant, WV – 2nd Ward Councilman for 20 years



Role

Architect, Principal

Professional Registrations

Registered Architect (WV, OH)
Recognized Educational Facility Professional (REFP)

Mr. Ferguson has served in the capacity of Architect, Project Manager, and Principal in Charge for a variety of projects at ZMM. This experience includes Educational (PK-12, Vocational and Higher Education), Retail, Corporate Office, Industrial, Military, Medical Office Facilities, General Healthcare Hospital and Psychiatric Hospital Projects. Mr. Ferguson's responsibilities include programming, design, documentation, architectural/engineering coordination and construction administration.

Mr. Ferguson began his career at ZMM in 1984 working on a variety of retail, educational and military projects throughout West Virginia, Pennsylvania, Ohio, Virginia, Maryland, New York, North Carolina, South Carolina, Florida, and Washington DC. In 1996 Mr. Ferguson expanded his expertise into the Healthcare and Industrial and Corporate Office facilities and since then has led the effort at ZMM in Educational Design. Mr. Ferguson is a Recognized Educational Facility Professional (REFP) and has been involved in planning, designing and the construction of over 90 educational facilities in West Virginia. As the architect for the first "green" school building in West Virginia Mr. Ferguson has been an advocate for sustainable design and was involved starting the first US Green Building Chapter in West Virginia. Mr. Ferguson has also participated in developing West Virginia Department of Education's Policy 6200 *Handbook on Planning School Facilities* and the West Virginia School Building Authority's *Handbook of Quality and Performance Standards*.

In addition to Mr. Ferguson's project management responsibilities, as a principal of the firm he has corporate administrative duties and serves on the Board of Directors.

Project Experience

Southside Elementary and Huntington Middle School:

Mr. Ferguson led the programming and design effort on this 156,000 sq. ft. facility. This project encompasses all phases of construction; demolition, major renovation and new construction. The original historic 26,000 sq. ft. three story school building was preserved and the remaining less than

Education

Bachelor of Science; Industrial Technology/Architectural Design; West Virginia State University; 1979

Employment History

2007 - Present, Vice President, Secretary/Treasurer, ZMM
2002 - 2007, Vice President, ZMM
2001 - Present, Board of Directors, ZMM
1996 - Present, Architect, Project Manager, ZMM
1984 - 1996, Designer, ZMM

Civic Affiliations

- West Virginia Chapter, American Institute of Architects, Board Director
- American Institute of Architects, Member
- Member, Council of Educational Facility Planners International (CEFPI)
- Recognized Educational Facility Professional (REFP) by the CEFPI
- Professional Member, US Green Building Council
- High School Mentoring/Job Shadowing Program for 6 County School Systems
- WV AIA IDP Program Mentor/Advisor



Role

Construction Contract Administrator

Mr. Savage is responsible for overseeing the construction of ZMM projects. He is the liason between the Owner and Contractor. Responsible for biweekly site visits, attend progress meetings, certify applications for payment, change order processes, Request for information.

Mr. Savage has performed construction administration services on a variety of building types including: Educational Facilities, Correctional Facilities, and Office/Light Industrial Facilities.

Mr. Savage's past experience in the construction testing and environmental fields is a benefit to clients during the site preparation and foundation installation.

Project Experience

- Bridgemont CTC Davis Hall Renovation
- Christ Church United Methodist Renovation
- McDowell County Schools
- Highland Hospital
- Summersville Hospital Medical Building
- Mountaineer Middle School
- Nicholas County High School
- East Greenbrier High School
- Gauley Bridge Elementary
- Cacapon State Park
- Blackwater Falls State Park
- Ronceverte Elementary School
- Mount View High School
- Western Regional Jail
- Alderson Federal Prison Camp
- Jean Dean Safety/Law Enforcement Building

Education

Bachelor of Science, University of Charleston, 1997

Associate of Science, West Virginia State University, 1992

Employment History

1998 - Present, Construction Contract Administrator, ZMM

1997-1998, Geotech

1992 -1997, Battle Ridge Construction

1981-1992, H. C. Nutting Geotechnical Testing Engineers

Civic Affiliations

- Member CSI
- Kanawha Valley Leadership Course Graduate
- Maintained all certifications for WVDOT testing materials

Stephen Hedrick, PE



Role

Structural Engineer

Professional Registrations

Professional Engineer (WV)

Mr. Hedrick is responsible for overseeing the design of the Structural systems, ensuring that the structural systems not only meet the building code requirements, but meet the long-term needs of the owner. He performs the analysis and design of the structural components to resist the loads from lateral and gravity forces. He coordinates with the other disciplines in order to integrate the Structural system into the building, working with the architects to determine the most economical way to construct the components of the building. Mr. Hedrick has participated on several LEED registered projects. Mr. Hedrick also oversees the work of other engineers and coordinates the office structural standards.

Mr. Hedrick began his career in structural engineering by designing large scale residential and light commercial structures for hurricane force winds. He has a broad range of experience in masonry, concrete, steel and timber design. In 2007, Mr. Hedrick moved back to Charleston, WV, to take a structural engineering position with ZMM where he supervises the design and production of the structural engineering projects.

Project Experience

Huntington East Middle School, Huntington, WV. Mr. Hedrick was responsible for the overall structural design of the single story school building. The design included masonry wall, metal panel walls and storefront glazing in order to allow additional light for the LEED designed project.

Southern West Virginia Community College, Williamson, WV. Mr. Hedrick is responsible for the structural design of the new 22,000 SF Applied Technology Center. The building featured large, flexible teaching areas that can adapt as the curriculum changes for each program. The project is targeting LEED Silver Certification.

Edgewood Elementary School, Charleston, WV. Mr. Hedrick is involved with structural design on the new Kanawha County Elementary School on Charleston's West Side. The school is being designed as a 21st Century Learning Environment, with a focus on integrating technology into the delivery of the curriculum. Instructional areas will be located off

Education

Master of Science, Civil Engineering,
University of Tennessee, 2003

Bachelor of Civil Engineering,
West Virginia Institute of Technology,
2001

Employment History

2007 - Present, Structural Engineer,
ZMM

2003 - 2007, Structural Engineer, McCall
Engineering, Inc.

Civic Affiliations

- American Institute of Steel
Construction, Member



Role

Lighting Designer and Electrical Technician

Professional Registrations

Master Electrician – WV License #M02891

Lighting Certification with the National Council on Qualification for Lighting Professionals (NCQLP)

Mr. Abernethy is responsible for overseeing the design of the Lighting and Electrical systems, ensuring that the Electrical systems not only meet the program requirements, but meet the long-term needs of the owner. He performs lighting, electrical and low voltage systems design, electrical load calculations and specifies the type of systems to be incorporated into the building. He coordinates with the other disciplines in order to integrate the Lighting and Electrical systems into the building. Mr. Abernethy has participated on several LEED registered projects; one of his key contributions to these projects is designing lighting systems that comply with energy codes and LEED requirements.

Mr. Abernethy began his career in engineering with ZMM in 1968.

From 1970 through 1971 he was a construction drafting specialist and model maker in the US Army and after his honorable discharge in 1972 he became a staff engineering designer for FMC Inorganic Chemicals Corporation. In 1973 Mr. Abernethy returned to ZMM. He has a broad range of experience in the design and construction of commercial lighting and electrical systems, including K-12 schools, higher education facilities, industrial, manufacturing, military, commercial offices, malls and large retail facilities. Mr. Abernethy also has five years of experience as the office manager, estimator and purchasing agent for a highway lighting and traffic signal construction company.

Project Experience

Joint Interagency Training and Education Center

(JITEC): Mr. Abernethy was responsible for the interior and exterior lighting design of both the billeting expansion and the operations training center. The project utilizes less than .8 watts/SF for interior lighting, which has helped reduce energy consumption on the project by 40% compared to a baseline analysis.

WV State Capitol Buildings #5, 6, & 7 - Electrical

Education

Associate in Science Drafting and Design Engineering Technology; 1997
West Virginia Institute of Technology,
Montgomery, WV

Illuminating Engineering Society of North America (IESNA), Certificate of Technical Knowledge (TKE); 1996

Employment History

1992 - Present, Lighting Designer and Electrical Technician, ZMM

1988 - 1992, Estimator and Purchasing Agent, WV Signal and Light

1973 - 1988, Lighting and Electrical Designer, ZMM

1972 - 1973, Draftsman and Designer, FMC Inorganic Chemicals Division

Civic Affiliations

- Illuminating Engineering Society of North America – 15 Yr. Member
- Elder and Session Member – First Presbyterian Church, Charleston, WV

Jill Watkins, NCIDQ, LEED AP BD&C



Role

Interior Designer/Sustainability Coordinator

Professional Registrations

NCIDQ Certification

LEED Accredited Professional, Building Design & Construction

Ms. Watkins is ZMM's interior designer and sustainability coordinator. After earning a BS in Interior Design from the University of Tennessee, Ms. Watkins lived in Cleveland and Boston for 13 years before coming back home to Charleston in 2008. During that time she worked on a wide variety of commercial interiors projects, and nurtured a passion for sustainable design.

She was one of the founding members of the Cleveland Green Building Coalition; interior designer and sustainability coordinator for the Federal Courthouse in Youngstown Ohio, which was the first courthouse in the country and the first building in Ohio to become LEED Certified; she was interior designer and sustainability coordinator for Cubellis' corporate headquarters in Boston, which is now LEED for Commercial Interiors Gold Certified; Ms. Watkins led the green effort that has since become part of Procter & Gamble's green building standards; she was Chapter President of the International Interior Design Association in Ohio for 4 years; and is currently involved with all of ZMM's LEED projects and several green building outreach efforts on behalf of the firm.

Project Experience

Huntington East Middle School, Huntington, WV.

Targeted for LEED for Schools 2009 Silver Certification.

As LEED Administrator, Ms. Watkins assisted in coordinating design decisions to maximize LEED points and overall operational savings for the client. She was also responsible for interior color selections and finish plans.

Bridgemont Community and Technical College Davis Hall Renovation, Montgomery, WV. Ms. Watkins is responsible for the interior design efforts to the Davis Hall renovations. She is also responsible for interior finishes and furniture selections.

Wood County Justice Center, Parkersburg, WV.

Wood County chose an existing building in downtown Parkersburg to renovate for its Magistrate Courts, Sheriff's Department and Holding Center, and Ms. Watkins was responsible for programming, space planning, coordination with consultants, researching multiple standards and codes, interior

Education

Bachelor of Science in Interior Design,
The University of Tennessee, 1993

Employment History

2008 - Present, Interior

Designer/Sustainability Coordinator,
ZMM

2005 - 2007, Project Designer, Boston
Architecture/Engineering Firm

1995 - 2005, Interior Designer, Various
Cleveland Architecture/Engineering
Firms

Civic Affiliations

- Bridgemont Sustainability Institute Advisory Council, Member
- FestivALL Steering Committee, Member
- Clay Center Development Committee, Member

Edward L. Robinson, PE, PS



Role

President, Civil Engineer

Professional Registrations

Professional Engineer (WV, KY, OH, PA, NC, SC, VA, GA, MD, CO)

Registered Professional Surveyor (WV)

Mr. Robinson founded E. L. Robinson Engineering Co. in 1978 with four employees. Initially the firm provided land surveying and land development services. Over the course of the next 20 years, the firm added water and wastewater engineering as well as structural inspection services simultaneously growing to 14 employees.

Under his leadership, E. L. Robinson enters the new millennium as a multi-disciplined professional services firm that utilizes the latest technology in the design of highways, bridges, structures, environmental, civil, and geotechnical projects as well as global position satellite surveying, right-of-way, construction inspection and architectural services.

The firm now employs more than 85 engineers, landscape architects, surveyors and support personnel and has been converted to an employee owned company through an Employee Stock Ownership Plan (ESOP).

Education

M.S. Civil Engineering, University of West Virginia, 1981

B.S. Civil Engineering, West Virginia Institute of Technology, 1969

Civic Affiliations

- National Society of Professional Engineers
- American Society of Civil Engineers
- Water Environmental Federation
- Chairman of WVUIT Advisory Board
- President of West Virginia Council of Engineering Companies
- Chairman Transportation Committee – WV Association of Consulting Engineers

Timothy B. Cart, PE, PS



Role

Geotechnical & Structural Engineer

Professional Registrations

Registered Professional Engineer (WV, OH)
Registered Professional Surveyor (WV)

Mr. Cart has over 25 years of experience in providing consulting engineering services. Clients served have included Industrial, Public and Private Institutions and State and Federal Agencies.

Mr. Cart has served as Project Engineer on numerous geotechnical investigations over the years. These projects have included highways, bridges, industrial sites and private development.

He has been involved in numerous projects where demolition of an existing structure was deemed the best way to alleviate dangers to the public. These projects have ranged from providing structural inspections of existing structures for government agencies, for single family dwellings in rural areas and multi-story hotels in urban areas.

Mr. Cart has also served as the Sewer Project Engineer for numerous projects revolving new structures where the existing property was occupied by an existing building. Demolition of the existing structure was necessary to prepare the site for the new facility.

He has designed numerous waterline extensions and sewer collection systems. These extensions have included providing service to many residential as well as industrial customers. The sewer collection systems have included design of systems to collect sewage from residential and industrial sites. Mr. Cart served as project engineer on several major waste water treatment plant upgrades for industrial clients in the Kanawha Valley. He has designed several plants to serve industrial as well.

Mr. Cart has performed over 100 Abandoned Mine Land Reclamations projects throughout Appalachia. These projects have been mainly in Ohio, West Virginia and Eastern Kentucky. These projects have involved draining flooded mine workings, support of ground experiencing or subject to Mine subsidence and the stabilization of landslides. Additionally, Mr. Cart has designed numerous retention and retaining ponds for sites. These designs have involved the determination of storm runoff and design of structures to safely retain and pass the required storm peak flows.

Education

B.S. Civil Engineering, West Virginia University, 1981.

Civic Affiliations

- American Society of Civil Engineers

James Rayburn, PS



Role

Chief Surveyor

Professional Registrations

Registered Professional Surveyor (WV)

Mr. Rayburn currently serves as Manager of Surveying for E.L. Robinson Engineering (ELR) and has more than 30 years of Design Surveying and Construction Surveying experience. The responsibilities include management of surveying and control for various design projects, including highways, buildings, and bridges. In addition, Mr. Rayburn manages and performs work consisting of courthouse research for property ownership resolution for the above mentioned project types. This includes preparation of property resolution maps, deed descriptions for property acquisitions required for project plan preparation. Mr. Rayburn has experience in Geodetic Control Surveys, 3D Laser Scanning, Photogrammetric Control, Topographic Surveys, Cemetery Surveys, Boundary Surveys, Construction Stakeout, Subdivision Surveys, along with Hydrographic surveys of river and lake bottoms. A few of the more notable surveying projects performed by ELR under the supervision of Mr. Rayburn, has been the Blennerhassett Bridge Project, 11 continuous miles of Corridor H design surveys, GPS Control for the West Virginia Statewide Mapping and Addressing Board Project, 3D Laser Scan and mapping of the CAMC Parking Garage partial collapse, and 3D Laser Scanning of I64/I77 Retaining Wall for Monitoring.

Project Experience

Design Surveys

Corridor H (WVDOT) Hardy County, WV: Lead Surveyor for Design Surveys, Right of Way Staking, etc. for approximately 11 miles of Corridor H in Hardy County, WV. This was for Sections 6 & 7 of Corridor H, both Sections of which are now under construction. Estimated construction cost of \$150 million dollars.

WV Route 10 (WVDOT) Logan to Man WV, Logan County, WV: Lead Surveyor for Design Surveys for a section approximately five miles in length from Man, WV, to Rita, WV, including the Man Bridge. Also provided control surveying for the entire project length of approximately 12 miles. The approximate five miles section of roadway is now under construction at an estimated cost of \$51 million dollars.

Blennerhassett Bridge, Corridor D (WVDOT), Wood County, WV: Lead Surveyor for Design Surveys for this landmark Bridge Project which is now under construction at an estimated cost of \$120 million dollars.

Education

A.S. Mechanical Engineering, West Virginia Institute of Technology, 1970

Civic Affiliations

- American Congress on Surveying and Mapping
- The American Association for Geodetic Surveying (AAGS)
- Member Organization of ACSM.
- Cartography and Geographic Information Society (CaGIS)
- Geographic and Land Information Society (GLIS)
- National Society of Professional Surveyors (NSPS)
- West Virginia Association of Land Surveyors, Inc.

Scott LeRose, PE



Role

Transportation Engineer

Professional Registrations

Registered Professional Engineer (WV, OH)

While pursuing his degree, Mr. LeRose concentrated on Highway Design and Environmental courses.

Prior to joining E.L. Robing Engineering, Mr. LeRose worked for Potesta & Associates, where he gained experience in landfill design, abandoned mine land reclamation, surveying and earthwork calculations. He also worked several co-op terms for the West Virginia Department of Highways. During these co-op terms, he performed bridge construction inspections including the preparation of daily field reports, supervised core drilling operations, participated in groundwater sampling/monitoring projects, aided in the process of underground storage tank removal and replacement and was involved in various highway design projects.

Since joining E.L. Robinson Engineering, Mr. LeRose has worked with the Highway Design Group. He has worked on several DOH projects, which include – US 52 Kermit Bypass, Corridor H - Section 12 - Davis to Bismarck, Corridor H – Section 7 – Foreman to Moorefield, Meadowbrook Road, I-79 Bridgeport to Meadowbrook, Lower Gassaway Bridge Replacement, Meadowbrook Bridge, and US Route 35. While working on these projects, he has gained experience in horizontal and vertical geometry, major drainage design, site-grading design, utility relocation, MOT, signing, and pavement striping. He has performed quantity calculations for pavement, drainage, seeding, pollution control quantities, and other items associated with roadway plans. He has also participated in the development of ROW plans, including deed plots and legal descriptions.

Mr. LeRose has also worked on smaller site development and subdivision layout projects. Included in these are Saturn of Charleston/Huntington, Hurricane Chevrolet Dealership, Charleston Area Medical Center General Division parking area, Sherwood Forest Subdivision and Centre Court Subdivision.

Mr. LeRose has also been heavily involved in the preparation of gas line relocation plans for several sites owned by Consumers Gas as well as the creation of a land use master plan for Mingo County Redevelopment Authority. replacement, new street lighting, brick accent pavements, street trees, landscaping, utility line relocation and burial and new underground electrical service for 30 structures. Total budget for the project was approximately two million dollars.

Education

B.S. Civil Engineering, West Virginia University Institute of Technology, 1997

Civic Affiliations

- American Society of Civil Engineers

Joe Carney, PE, PS



Role

Wastewater Engineer

Professional Registrations

Registered Professional Engineer (WV, KY, MO)
Registered Professional Surveyor (WV)

Mr. Carney has extensive experience in design engineering, preparation of contract documents, construction supervision and contract administration.

His wide experience in civil engineering projects includes water, wastewater, storm sewers, roads, earthwork, utility relocation and site development.

He has worked in private industry and for several Consulting Engineering firms prior to joining ELR in 1982.

Mr. Carney has designed and supervised the construction of numerous projects, including a \$4 million sanitary sewer system, 5 bridges, over \$5 million of utility relocations for highway projects, and many \$1 million waterline and sewer projects. Mr. Carney has over 25 years of experience in providing consulting engineering services. Clients served have included Industrial, Public and Private Institutions and State and Federal Agencies.

Joe serves as the State Director of the West Virginia Society of Professional Engineers, and as the Past President of the Charleston Chapter of the West Virginia Society of Professional Engineers. Additionally, Joe was honored in 1998 as the Engineer of the Year by the West Virginia Society of Professional Engineers.

Project Experience

- Blackwater Falls State Park Wastewater Treatment Plant for the lodge.
- Holly River State Park Wastewater Treatment Plant for the park.
- Tygart Lake State Park Wastewater Treatment Plant for the park.
- Town of Wayne, West Virginia combined sewer separation.
- Putnam County Public Sewer District Sanitary Sewer Project.

Education

M.S. Civil Engineering, University of Missouri at Rolla, 1974

Bachelor of Science, Aerospace Engineering, West Virginia University, 1969

Civic Affiliations

- American Society of Civil Engineers
- National Society of Professional Engineers
- American Water Works Association
- Water Environment Federation

Role

Water Systems Engineer

Professional Registrations

Registered Professional Engineer (WV)

Successfully worked on and managed numerous Phase I and II ground water quality investigations and feasibility studies for the West Virginia Department of Environmental Protection.

Mr. McGettigan has taken many large water and wastewater projects from the initial development phase through the construction phase. This includes writing the preliminary engineering report, developing funding scenarios, designing the system, developing the plans and specifications, developing the bid documents/overseeing the bid process and managing the construction inspection.

Developed specifications and managed construction inspection for land development and utility construction projects.

Project Experience

- **Dingess Phase I & II Water Distribution System Extension**, Managed all phases of the project including preliminary design, permits, etc.
- **US Route 52 Waterline Extension Project**. Managed all phases of the project including preliminary design, permits, etc.
- **Crockett and Millers Fork Waterline Extension**. Managed all phases of the project including preliminary design, permits, etc.
- **Route 37 Waterline Extension Project**. Managed all phases of the project including preliminary design, permits, etc.
- **Nestlow Phases I & II Waterline Extension Project**. Managed all phases of the project including preliminary design, permits, etc.
- **Crum Mill Creek Waterline Extension Project**. Managed all phases of the project including preliminary design, permits, etc.
- **Crum Route 152 Phase I Waterline Extension Project**. Managed all phases of the project including preliminary design, permits, etc.

Education

B.S. Civil Engineering, West Virginia University, 1981

Civic Affiliations

- American Society of Civil Engineers

Robert Angus



Role

Construction Project Representative

Professional Registrations

- *Construction Safety & Health OSHA Training*
- *Licensed WV General Contractor*
- *Licensed HVAC Contractor*
- *Certified HVAC Mechanic Contractor*
- *Licensed Journeyman Electrician*
- *Licensed Master Plumber*

(20) Years of maintenance, operations, and construction management precedes 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 experience, 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.

Profile

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

Professional Highlights

- In (3) years has managed projects totaling \$35 million dollars.
- Maintains a change order rate of less than (5%) consistently.
- (10) Years of owner experience in large scale construction.
- Advocates and participates in community leadership.

Education

Monongalia County Technical Education Center: Heating, Cooling, and Refrigeration Certification, 2000

West Virginia University, Recreation and Parks Administration, 1996

Employment History

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

Jack Jaminson



Role

Electrical Designer

Professional Registrations

- Master Code Professional
- ICC Commercial Building, Building Plans, Commercial Plumbing, Residential Energy, and Accessibility Inspector/Examiner
- IAEI Master Electrical Inspector
- Certified WV Home Inspector
- Class C Electrical Inspector – WV, PA, MD, & OH
- WV Master Electricians License
- NCPCCI-1A, 2A, 4A, & 5A: 1 & 2 Family Dwelling
- NCPCCI-2B, 2C, 4B, 4C: Electrical & Mechanical General/Plan Review
- OSHA 30 Hour Course – General Industry
- NFPA Code Making Panel 14 – NEC 2014 Edition

Jack brings over (20) years of experience in the commercial electrical construction field, and over (10) years as an electrical/building inspector. He is certified as a Master Code Professional and has many professional registrations and certifications. Jack also teaches code review classes throughout the year. Through his experience, he is familiar with many local and state code enforcement officials.

Profile

- Design of Electrical Systems
- Facilities and Project Evaluation
- Management of Project Observations
- Field Observations and Issue Resolutions
- Code Research

Education

BS, Engineering Technology -
Electronics, Fairmont State College,
1971

Employment History

2010 - Present, Code Professional,
Miller Engineering, Inc.
1999 - 2010, Chief Inspector, Megco
Inspections
1972 - 1998, Electrician, Jamison
Electrical Company

Civil Affiliations

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

Travis Taylor, EIT



Role

MEP Designer

Professional Registrations

Construction Safety & Health OSHA Training

As a project manager, Travis oversaw many electrical construction projects performed for West Virginia University, allowing him to become familiar with WVU design and construction practices. He has prior experience with many of WVU's physical plant staff.

Travis has successfully passed his fundamentals exam and is currently working toward obtaining his PE license and provides HVAC, mechanical, plumbing, and electrical design services for Miller Engineering.

Profile

- Design of Mechanical, Electrical, and Plumbing Systems
- Submittal and RFP Review
- RFI Review and Response
- Engineering Intern

Professional Highlights

- Successfully managed time constrained electrical projects for WVU athletics (Scoreboards).
- Efficiently coordinated and executed switchgear replacement project while diminishing electrical outage time.
- Coordinated personnel and equipment for over \$4M in construction projects.
- Design team member and construction administration for Pipestem switchgear project.

Education

BS, Mechanical Engineering, West Virginia University, 2006

Employment History

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

Joseph Machnik



Role

MEP Designer

Joseph joined Miller in order to support computer aided design and modeling functions while enhancing design synergy to for clients. He has experience with AutoCAD, MEP and Revit MEP. He provides modeling, drafting, and supervised design services as well as construction support for Miller Engineering.

Profile

- Design of Mechanical, Electrical, and Plumbing Systems
- CADD Coordination of New Construction and Renovation Designs

Professional Highlights

- Implemented the Revit building, modeling and drafting system at Miller Engineering.
- Staff trainer for Revit system.
- Successfully met project drawing deadlines.

Education

AS, Building Engineering Systems
Technology: Building Environmental
Systems, Penn State College, 2008

AS, Building Engineering Systems
Technology: *Architectural Engineering*,
Penn State College, 2007

Employment History

2010 - Present, MEP Designer, Miller
Engineering, Inc.

Beech Fork State Park Lodge

Lodge Design



LOCATION:
Wayne, West Virginia

COMPLETION:
2015

COST:
\$28.49M

CONTACT:
Bradley Leslie, PE
Assistant Chief
WVDNR
State Parks Section
324 4th Avenue
So. Charleston, 25303
304.558.2764 x 51823



The goal of the lodge study was to help determine the feasibility for a new lodge at Beech Fork. This objective was achieved through the development of a concept for a 75-room lodge located on the banks of Beech Fork Lake in Wayne County, West Virginia, which is designed to benefit a variety of visitors. The form of the building was influenced by the site configuration as well as the functions contained within it.

The floor plan is arranged in a way to separate the guestrooms and other guest-only facilities from the more public functions of the building such as the restaurant, pub, gift shop and meeting room. This allows visitors who may not be staying at the lodge to use these areas without encroaching on the privacy of lodge guests. All of the guestrooms are arranged to have access to views of the lake. Those views are also shared by the restaurant, meeting room and the recreation areas.

The exterior of the building is designed to simulate the craftsman style to evoke a more relaxed, comfortable and informal feel for guests and visitors. The brick, stone, siding and roof materials are common to the area and offer low maintenance and durability to provide a long-lasting, attractive structure.



Beech Fork State Park Lodge Feasibility Study

WV Division of Natural Resources



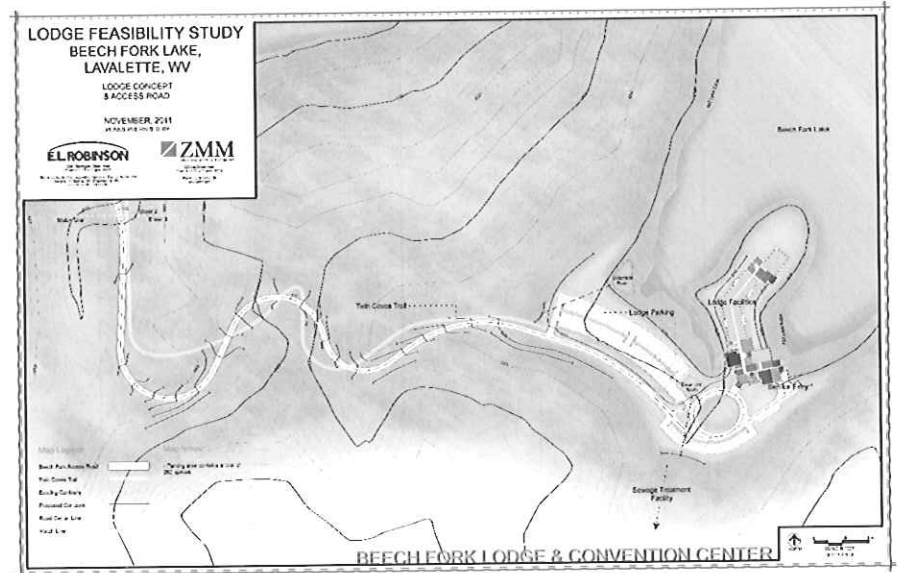
LOCATION:
Lavalette, WV

COMPLETION:
2016

COST:
\$28.5M

OUR ROLE:
Site feasibility studies,
preliminary design, lead
consultant involving civil,
structural, transportation.
Geotechnical engineering,
landscape architecture with
additional services from
other consultants.

CONTACT:
Brad S. Leslie, PE
Assistant Chief
WVDNR
State Parks Section
324 4th Avenue
So. Charleston, WV
304.558.2764 x 51823

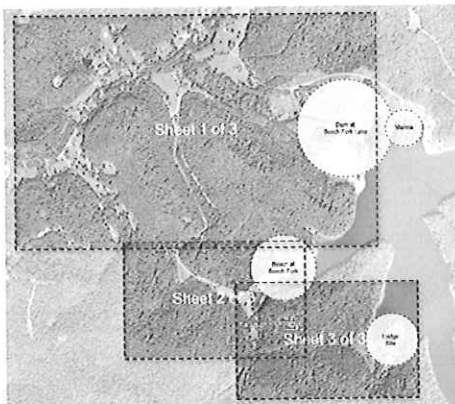


West Virginia Division of Natural Resources has considered a lodge for Beech Fork State Park since before it was opened in 1979. Several studies were completed in the past examining six possible sites for lodges ranging in size from 75 to 150 rooms. The last studies completed in 1995 recommended a 150 room lodge at Stowers Branch.

WVDNR retained E.L. Robinson's landscape architects in 2008 to study a new site near the Beech Fork Lake dam and marina for the feasibility of building a 35, 50, or 75 room lodge. This study found from earth work calculation, cost estimates, and slope analysis maps that the Stowers Branch site was still the most desirable based on costs, proximity to the lake, and visual impact on the park.

In 2011, WVDNR retained the team of E.L. Robinson Engineering and ZMM Architects to prepare a feasibility study for a 75 room lodge at the Stowers Branch location. This site is located near the swimming beach owned and operated by US Army Corps of Engineers and two miles by road from the Beech Fork Lake Dam.

This site was selected after two previous studies completed in 1994 and 2008. It was concluded that after studying six other possible locations, the Stowers Branch Site proved to be the most desirable location. This study is the basis of WVDNR efforts to lease additional USACOE property for the state park's facilities expansion.



Beech Fork State Park Lodge Feasibility Study

WV Division of Natural Resources



LOCATION:
Lavalette, WV

COMPLETION:
2008

COST:
\$16M

OUR ROLE:
Site Feasibility Studies and
Preliminary Design

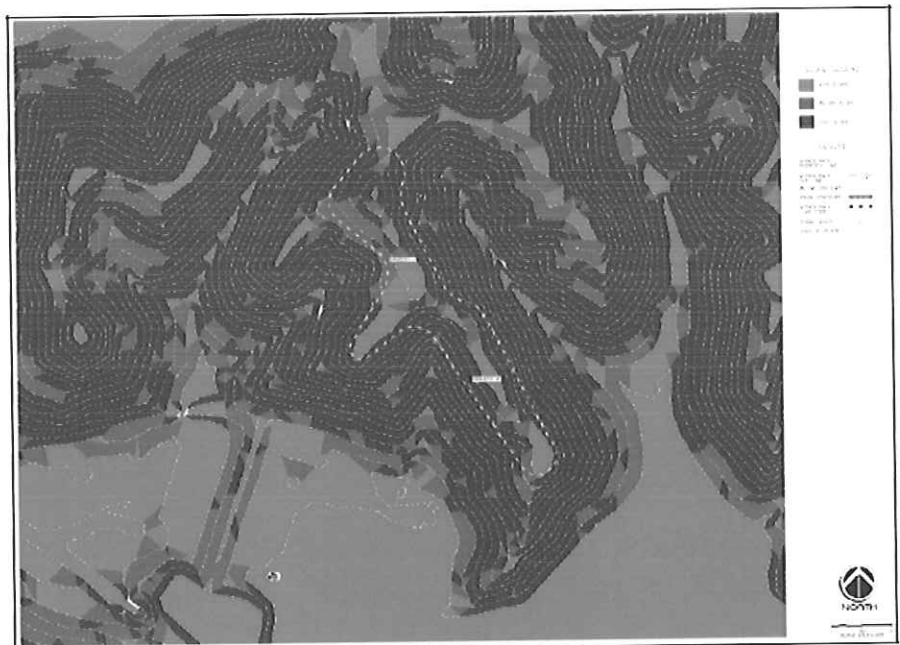
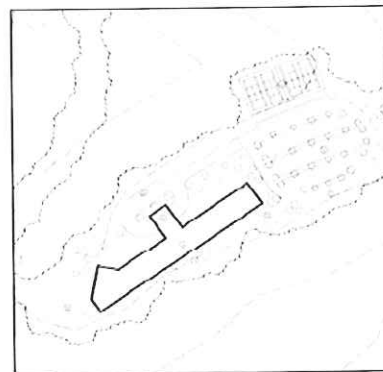
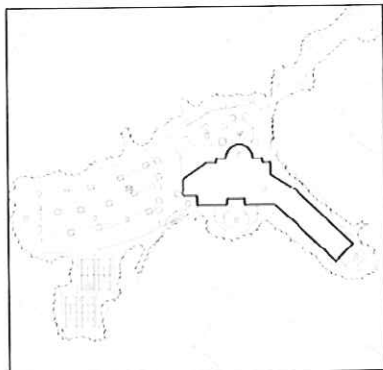
CONTACT:
Brad S. Leslie, PE
Assistant Chief
WVDNR
State Parks Section
324 4th Avenue
So. Charleston, WV
304.558.2764 x 51823



West Virginia Division on Natural Resources has considered a lodge for Beech Fork State Park since before it was opened in 1979. Several studies were completed in the past for lodges ranging in size from 75 to 150 rooms. The last studies completed in 1995 recommended a 150 room lodge at Stowers Branch.

WVDNR retained E.L. Robinson's landscape architects to study a new site near the Beech Fork Lake dam and marina for the feasibility of building a 35, 50 or 75 room lodge. This study found from earth work calculations, cost estimates, and slope analysis maps that the Stowers Branch site was still the most desirable based on costs, proximity to the lake, and visual impact on the park.

This project was completed by E.L. Robinson's landscape architects prior to their affiliation with the firm.





The New Retreat at Glade Springs Resort

Multi-Unit Housing

LOCATION:
Daniels, West Virginia

COMPLETION:
TBD

COST:
\$249,000 - \$269,000
(per unit cost)

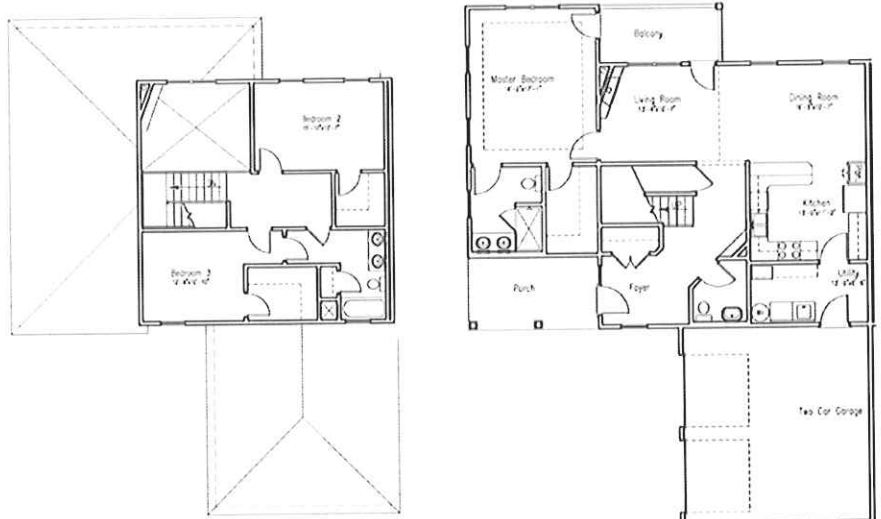
CONTACT:
Mr. Doug Pauley
Encore Management Co.
1591 Washington Street, E
Charleston, WV 25311
304.343.3535



The New Retreat at Glade Springs is a gated community located in a wooded area near the 3rd hole of the Stonehaven Golf Course. Several townhouses had already been constructed on the site by a previous developer. The objective of the new developer was to provide a design that met his vision while also blending with the existing townhouses. Due to the wooded hillside site the new 2 and 3 bedroom units were designed to resemble a mountain lodge, while colors and material choices blended with the existing townhouses.

The material palette was selected to help define the lodge aesthetic and for ease of maintenance, and includes a stone veneer, prefinished composite siding and trim, as well as natural wood doors. The layout of the units was developed to provide end unit master suites with no second level, and a core that includes an open floor plan with a two story living room. Additional bedrooms and loft space are located on the upper level. Each unit has a distinct and well defined entry, while the overall grouping of townhomes resembles a mountain lodge.

ZMM's services included the preparation of a preliminary site design, as well as full architectural, engineering, and interior and lighting design services for a variety of units that could be configured in various manners to fit the site conditions. ZMM also assisted the client in determining a base finish, plumbing, lighting fixture, and appliance package for the units. Construction of Phase I of the townhouse development began in fall 2011.



Cacapon Resort State Park

WV Division of Natural Resources



LOCATION:
Berkeley Springs,
West Virginia

SIZE:
7,600 SF New
8,100 SF Renovated

COMPLETION:
1998

COST:
\$3,200,000

CONTACT:
Tom Ambrose
Superintendent
818 Cacapon Lodge Drive
Berkeley Springs, WV
304.258.1022

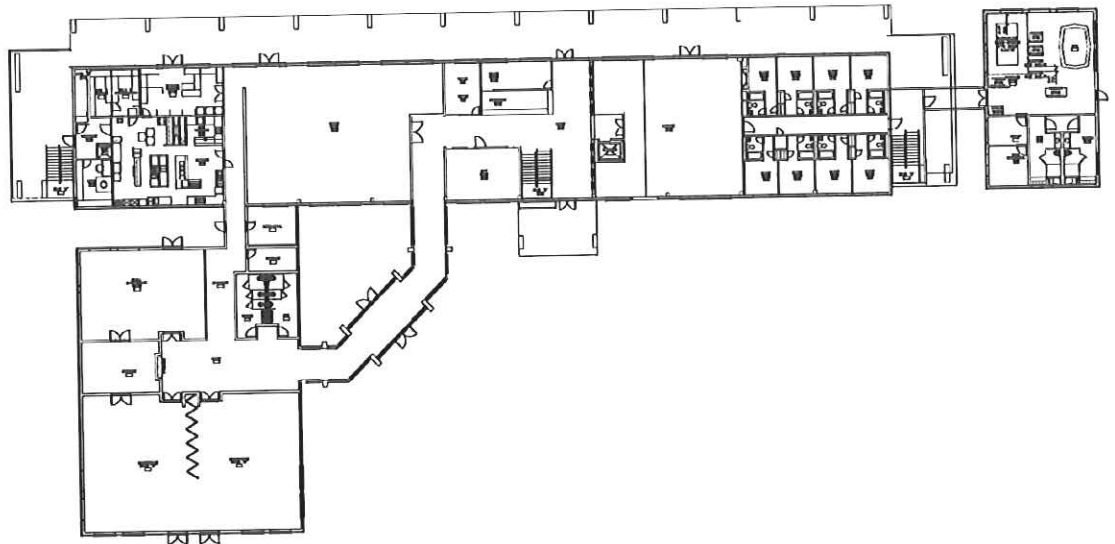


In 1998 ZMM completed an addition and renovation project to Cacapon State Park Lodge Building. This project included a new 7,600 SF conference center, providing a large 3,000 SF dividable conference room, a smaller 1,000SF conference room with connecting entrance lobby, toilets and storage facilities.

The existing kitchen facility was enlarged and renovated to provide banquet capabilities. An elevator was added to improve access to upstairs bedrooms and downstairs multi-use areas. The downstairs multi-use and meeting area were renovated along with the reception and office area.



Bid documents were prepared for a 2,500 SF health spa addition to the lodge building, but this portion of the project was not constructed. Other ZMM projects completed at Cacapon State Park include life safety compliance renovations to the WPA Old Inn building and a 4 bedroom cabin that is ADA accessible.



LOCATION:
Davis, West Virginia

COMPLETION:
1998

COST:
\$2,600,000

SIZE:
10,400 SF Addition

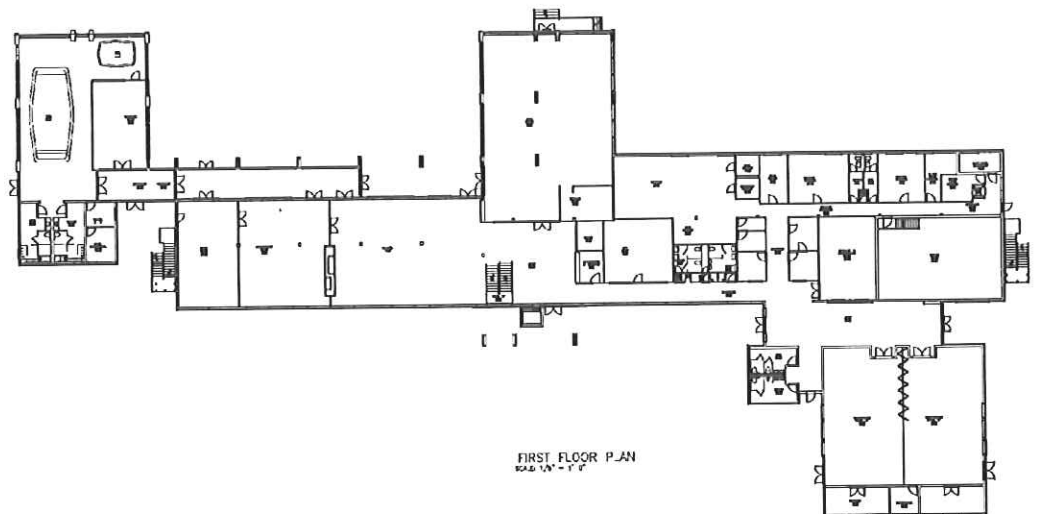
CONTACT:
Robert Gilligan
Park Superintendent
P.O. Drawer 490
Davis, WV 26260
304.259.5216



ZMM completed an addition and renovation to the historic Blackwater Falls State Park lodge building. This project included a 5,400 SF conference center addition providing a large 3,000 SF dividable conference room, entrance, lobby, toilets, and storage facilities.

To meet the owner's intent of reducing the visual impact of the construction, ZMM utilized existing building roof lines and materials for the building addition, which compliments to the original lodge design.

A 5,000 SF spa addition was added to the North Western end of the building provide a swimming pool, large Jacuzzi and a glass walled exercise area with locker rooms/showers. Interior office areas were also renovated with upgrades to mechanical, electrical, and fire alarm



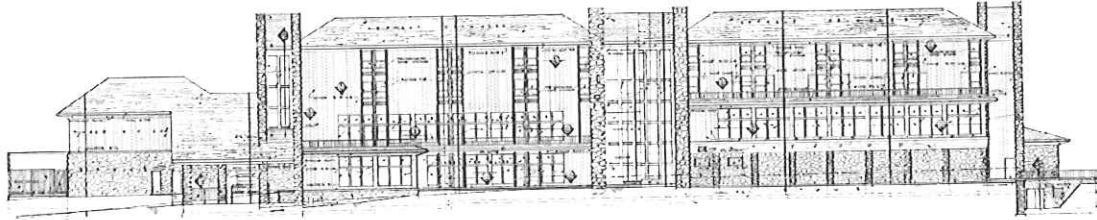
Canaan Valley State Park, State Park Lodge

WV Division of Natural Resources



LOCATION:
Davis, West Virginia

COMPLETION:
Un-Built Project

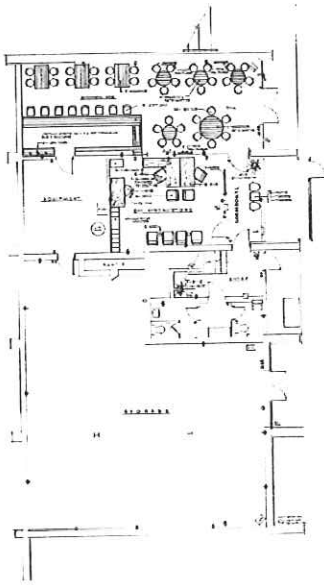


In 1968 ZMM was selected to provide design services for a variety of facilities at Canaan Valley State Park. Many of the facilities remain actively utilized. A description of the various components can be found below.

Lodge Facility

An original design for a four-story lodge and convention facility containing 60 guest rooms, dining, and kitchen facilities, a conference facility seating 300, an indoor pool and support space, was not constructed. Funding restraints required the construction of a lodge of reduced scope.

The original design concept utilized masonry bearing walls and a precast floor system with exterior materials of stone and wood to reflect the natural environment and concept of the park. Each guest room was designed to contain two double beds, bath, and toilets facilities.

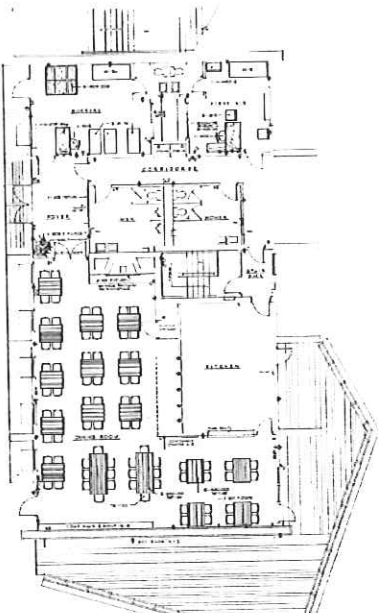


Other Facilities

- New Park Cabins
- Golf Club House
- Ski Base Facility
- Park Headquarters Building

These one and two-story buildings were designed to withstand the harsh winter climate of Canaan Valley and are of wood frame and stone masonry construction. Exposed laminated wood beams are used in selected areas for aesthetic and structural purposes. Native materials, both for interior and exterior applications, have been used to help the buildings blend in with their surroundings.

Each building has its own, energy efficient, heating and cooling system, which on concert with the well insulated walls and roof keep overall energy costs to a minimum. The buildings were, each, situated on their respective sites to create a minimum of site disruption.



Joint Interagency Training & Education Center

WVARNG - Billeting (Hotel)



LOCATION:
Kingwood, West Virginia

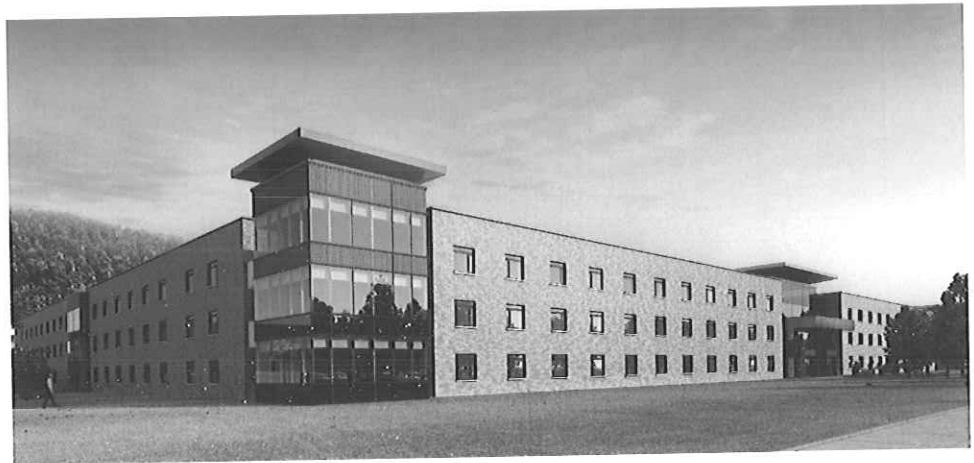
SIZE:
285,000 SF

COMPLETION:
2011

COST:
\$78.4 Million

OWNER:
MG Melvin L. Burch
WVARNG
1707 Coonskin Drive
Charleston, WV 25311
304.561.6450

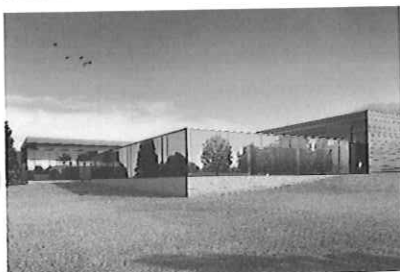
AWARD:
2011 AIA Honor Award
West Virginia Chapter
*Excellence in
Architecture*



ZMM Architects and Engineers, in association with AECOM, is providing architectural and engineering design services for the Joint Interagency Training and Education Center (JITEC), an Army National Guard campus-style facility for training and operational mission support. Sited on 30 acres at the northern end of Camp Dawson between the Cheat River and the foot of Brier Mountain, this 283,000-SF project includes the design of a new operations building; expansion of the billeting facility; renovation of the training facility; creation of a new base entry checkpoint and visitor center; and design for walkway connectors between all the facilities.

The project began with a review of the existing base master plan, followed by a revision of the master plan concept. JITEC is a training and educational facility – the vision behind the site design and updated master plan is that of a college campus atmosphere. The clients goal was to create a campus environment that integrates existing buildings with new ones, which was accomplished by using compatible, yet distinct building materials.

The new facilities are designed to meet all anti-terrorism/force protection criteria and are slated for LEED-NC silver certification from the U.S. Green Building Council. The new 82,000-SF operations building is prominently sited as the main focal point upon entering Camp Dawson through the secure access control point and visitor's center, also designed by AECOM. The building's exterior complements its West Virginia setting. The entire building front, composed of glass and pre-cast concrete walls, is open and inviting with glazing that reflects the surrounding trees and hills.



The Boulevard at 2412

Multi-Unit Housing



LOCATION:
Charleston, West Virginia

CONTACT:
Dr. Richard Howard
2412 Kanawha Blvd, East
Charleston, WV 25311
304.343.8805



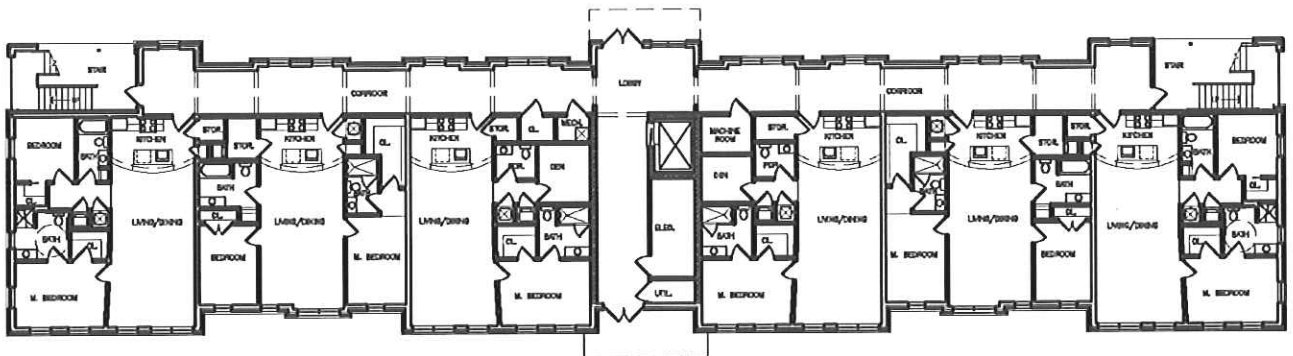
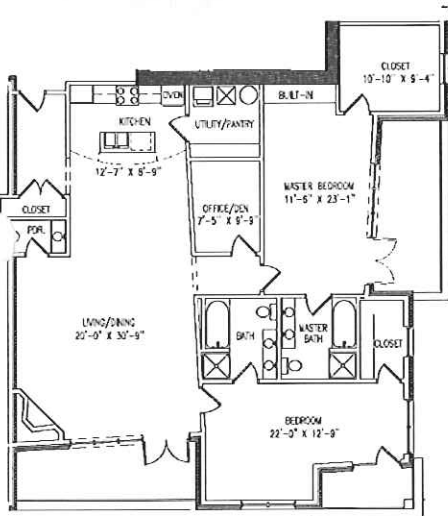
The Boulevard @ 2412 is a proposed mixed-use development on Kanawha Boulevard located in Charleston's East End. When completed, the development will include the construction of sixty new residential units and professional office space.



The scope of the development encompasses nearly one-half of the city block between Chesapeake Avenue, East Avenue, Kanawha Boulevard, and Washington Street East. Four of the twenty lots targeted for development fall within the East End Historic District.

As the owner's objectives included integrating the design into the East End Historic District, ZMM included the following features:

- The building massing has been broken down into a series of smaller volumes, making the overall plan more compatible with existing structures in the neighborhood. The design was developed with a goal of maintaining a residential scale along Kanawha Boulevard.
- Off street parking has been developed primarily to the rear of new structures, and will not be visible from Kanawha Boulevard.



Robert C. Byrd - Regional Training Institute

WVARNG



LOCATION:
Camp Dawson,
West Virginia

SIZE:
148,000 SF

COMPLETION:
2002

COST:
\$21 Million

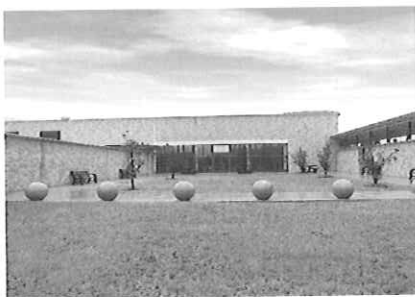
CONTACT:
MG Melvin L. Burch
WVARNG
1703 Coonskin Drive
Charleston, WV 25311
304.561.6450



The Robert C. Byrd Regional Training Institute at Camp Dawson is a 148,000 SF facility designed to provide training, dormitory, dining, and recreational facilities for the West Virginia Army National Guard. The facility, which includes 183 private dormitory rooms in addition to a wide range of training spaces is designed to accommodate a variety of both military and civilian training functions.

The goal of the owner was to provide a campus within a building, with clear circulation and for various uses. ZMM accomplished this objective by employing a large cylindrical mass that marks the main entry where guests can coordinate both their housing and educational needs.

Additionally, the housing wing is joined to the recreational and educational components with a large gathering/transitional space that often serves as an informal meeting area. Due to the success of the project, and growing use of the facilities, ZMM is currently assisting the West Virginia Army National Guard with training and dormitory expansions.



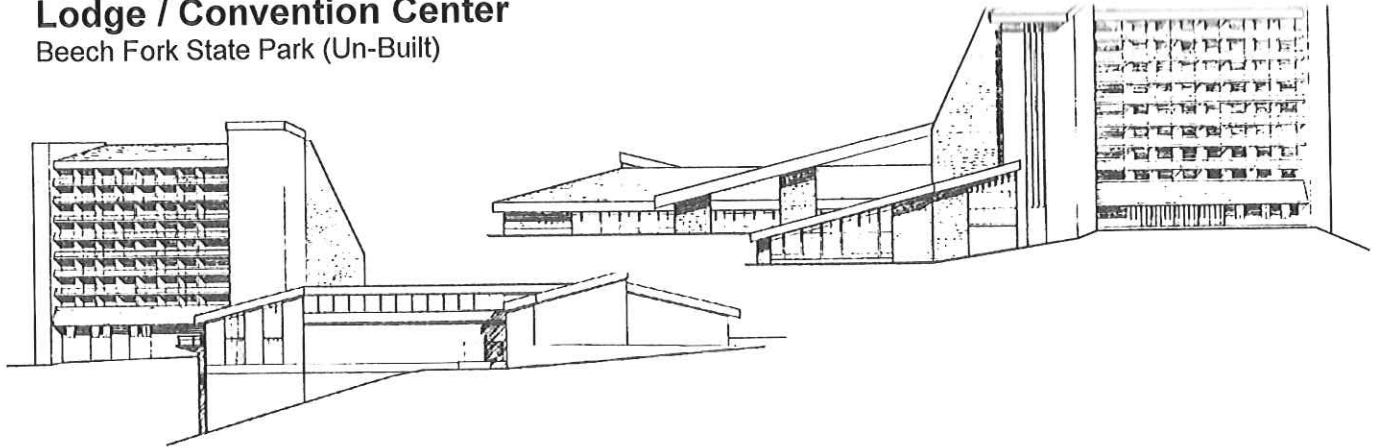
Additional West Virginia State Park Experience

WV Division of Natural Resources



Lodge / Convention Center

Beech Fork State Park (Un-Built)



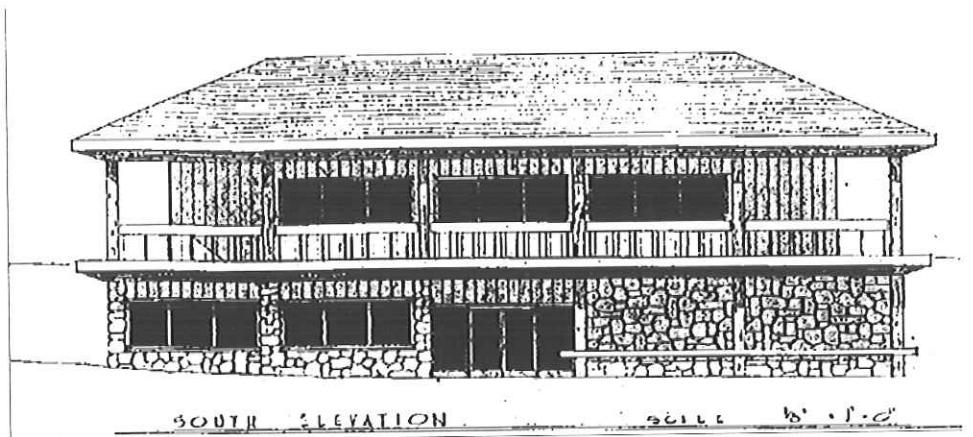
Miscellaneous Services:

Pipestem State Park
Hawks Nest State Park

Twin Falls State Park

Lodge and Convention Facility
Expansion Master Plan

- 25,000 SF Increasing Room Capacity from 20 to 50 Rooms
- The Expansion Increases the Dining, Kitchen, and Meeting Space for up to 200 People





Award Winning Design



2011
Southside Elementary/
Huntington Middle School
2011 - Honor Award



2011
Joint Interagency Education
& Training Center (JITEC)
2011 - Honor Award



2011
State Office Building #5, 10th
Floor - Office of Technology
2011 - Merit Award



2010
Hacker Valley PK-8 School
Hacker Valley, WV
2010 - Honor Award
"Excellence in Architecture"
AIA West Virginia Chapter



2009
Construction & Facilities
Management Office
Charleston, WV
2009 - Merit Award
"Achievement in Architecture"
AIA West Virginia Chapter



2008
Erma Byrd Center
Beckley, WV
2008 - Honor Award
"Excellence in Architecture"
AIA West Virginia Chapter



2007
Lincoln County High School
Hamlin, WV
2007 - Honor Award
"Excellence in Architecture"
AIA West Virginia Chapter
Education Design Showcase
"Project of Distinction Award"
American School & University
"Outstanding Building Design"



2006
Gene Spadaro
Juvenile Center
Mount Hope, WV
2006 - Merit Award
"Achievement in Architecture"
AIA West Virginia Chapter



2004
St. Albans High School
St. Albans, WV
2004 - Impact in Learning Award
"Effective Transformation"
Education Design Showcase
"Outstanding Building Design"
American School & University
"Outstanding Building Design"

Hawks Nest Lodge

WV Division of Natural Resources



LOCATION:
Ansted, West Virginia

SIZE:
28,500 SF

COMPLETION:
2012

COST:
\$1.3 Million

CONTACT:
Bradley S. Leslie, PE
Assistant Chief
State Park Section
324 4th Avenue
S. Charleston, WV 25303
304.558.2764 x 51826

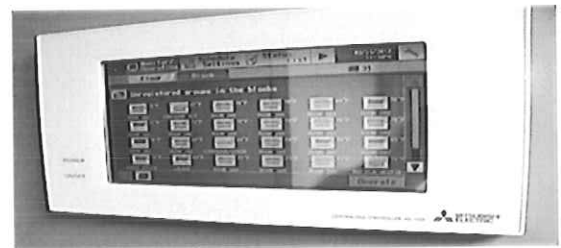
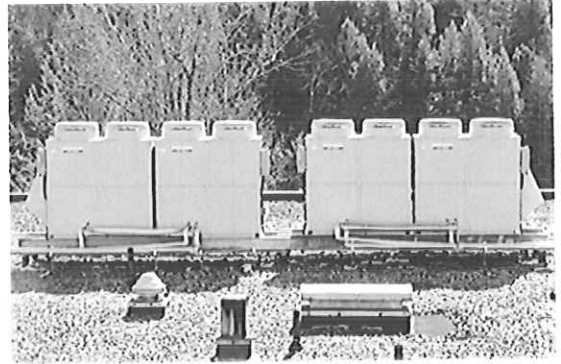


Hawks Nest Lodge is located on the grounds of Hawks Nest State Park in West Virginia. Hawks Nest HVAC replacement focused on the patron rooms within the lodge but the designs for the public areas were also included to prepare for future funding.

A building on the National Register of Historic Places, the replacement had to be accomplished with minimal impact on the building façade and structure. As an ARRAWVDOE funded project, it had an extremely short design period and delivery requirement.

The construction period was shortened by (20%) by the owner after bidding, making our construction administration all the more critical in delivering the project. The funding agency commented that the project was initiated by the owner "much later" than many others but finished first and completely met the requirements of the funding agency.

The response has been excellent, the patrons of the lodge immediately began to comment on how much nicer their visits are now than before.



Berkeley Springs Bathhouse

WV Division of Natural Resources



LOCATION:
Bath, West Virginia

SIZE:
9,000 SF

COMPLETION:
2012

COST:
\$2.1 Million

CONTACT:
Bradley S. Leslie, PE
Assistant Chief
State Park Section
324 4th Avenue
S. Charleston, WV 25303
304.558.2764 x 51826



The Berkeley Springs Bathhouse was built in 1929 and is a historic structure located within the state park. The heated (1000) gallon per minute flow of (78.4) degree, mineral laden water is used by the spa guests prior to other activities via tubs or large Roman baths. The current structure is lacking in proper ventilation and dehumidification systems. The goal of the MEP system design is to provide reliable, cost effective, energy efficient systems that enhance client spa experience and protect the historic nature of the structure.

The successful renovation entailed replacement of all MEP systems and their associated piping. With a need for hot water supply that is exceptionally large, it will require a split into two systems; domestic (2,000 GPH) and Roman Bath water (3,000 GPH) units to fulfill demand requirements. A full VAV-HVAC system with terminal reheat and comfort radiant heating was installed over the client tubs and massage tables to produce optimal atmospheric temperatures. Upon completion, goals of proper ventilation and humidity conditions were met.

Boreman Bistro

West Virginia University



LOCATION:
Morgantown, West Virginia

SIZE:
10,000 SF

COMPLETION:
2008

COST:
\$1.8M

CONTACT:
Paul Whiteman
WVU Facilities Management
979 Rawley Lane
Morgantown, WV 26506
304.293.7773

Boreman Bistro is located within a WVU residence hall and provides dining services to residents. The goal of this project was to upgrade safety standards/codes, create an ergonomically efficient dining area, increase food production area efficiencies, and renovate the dining facility to accommodate both the kitchen staff's needs and the residents who frequent the dining facilities. The facility has had little to no modifications since 1937.

After a field study, the following challenges were discovered: minimum deck-to-deck height area, existing overhead utilities that were required to stay intact, missing utilities, and severely deteriorated piping systems. Miller modeled the space in (3D) to ensure that all new piping, ductwork, and electrical systems would coordinate during the construction. This project planning method enables Miller Engineering to detect further construction obstacles in projects that have multiple goals.

Upon completion of the project, the sanitary drain, supply water, HVAC, and electrical systems were all completely upgraded and brought to current codes. The addition of a substantially larger cooking exhaust was added as well as the successful reversal of the normal manner duct work. The owner's ultimate goal of a maintainable system was accomplished



Before



Hatfields Campus Restaurant

West Virginia University



LOCATION:
Morgantown, West Virginia

SIZE:
1,300 SF

COMPLETION:
2006

COST:
\$500,000

CONTACT:
Charlie Robinson
WVU Facilities Management
979 Rawley Lane
Morgantown, WV 26506
304.293.5280

The Hatfields campus restaurant, located in WVU's Mountain Lair, has undergone several stages of renovation over the years. The goal of this project was to re-design the current serving line, while increasing user flow, and utilization of modern equipment. Ultimately the facility was in need of reconstruction in order to create a facility capable of creating a customer-pleasing menu and dining experience.

The Hatfields restaurant required the renovation of all mechanical, electrical, and plumbing systems. After the field study, exhaust hood ductwork was found to be missing important fire stopping materials from the previous renovation; this will be corrected as part of the project. The re-design of the exhaust hood system enabled the system to now meet current code and fire safety compliances. Plumbing, natural gas piping, and electrical systems were relocated to meet the aesthetic functions and outcomes of the project. The final outcome of the project is a code compliant and safe facility structure that is both efficient and aesthetically pleasing.



Before



US Route 35 Design - Build

WV Dept. of Highways (WVDOH)



COMPLETION:
2009

COST:
\$78.3M

OUR ROLE:
Construction
Management, Design
Build, Structural &
Bridge Engineering and
Value Engineering

CONTACT:
Daryl Allen, PE
WV Dept. Of Trans.
1900 Kanawha Blvd. E
Charleston, WV 25305
304.558.9732



E.L. Robinson teamed with Kokosing Construction Company as joint advocates for the first ever design-build highway project for the West Virginia Department of Highways (WVDOT). The design enhances traffic safety and opens new economic development opportunities for the state and its people.

This project consists of approximately 6.29 miles of new four-lane divided highway, an interchange with WV 34, and approximately 3.34 miles of side road access and two sets of mainline structures. The project involved 6.8 miles of pavement, two bridges, 28 culverts, 39 storm sewer runs, one interchange, six at-grade intersections, realignment of four local roads and one state route, over 8,000,000 cubic yards of earthwork, 6 modified NPDES documents, two reviewing agencies (WVDOH, DEP), and 21-day review times.

The bid price was \$73,819,000 and was approximately \$30 million under the next bidder. One of the reasons that the bid price was substantially lower was due to ELR's innovative design. The original quantity of excavation was expected to be 11 million cubic yards, but was able to be reduced by 3 million cubic yards, thanks to the expertise of our qualified staff. Additional benefits from this reduced excavation included less impact on the topography and environment.

In order to meet the construction timetable, the design phase needed to be completed in four months. The design schedule followed the contractor's CPM schedule, which permitted construction crews to begin the massive excavation task the day after notice to proceed was issued by the West Virginia Department of Highways. The project involved moving approximately 8,000,000 cubic yards of earth and placement of 290,000 square yards of non-reinforced Portland Cement Pavement, along with several large size drainage structures. To complete construction in the time frame needed, both day and night crews were utilized.

Meadowbrook Road - US 19 End

WV Dept. of Transportation Division of Highways



COMPLETION:
Design Completed 2000

(Not Constructed yet)

COST:
\$11.85M

OUR ROLE:
Design and Construction
Observation

CONTACT:
Jason Foster, PE
1900 Kanawha Blvd. E
Charleston, WV 25305
304.558.9732



E.L. Robinson Engineering Co. was contracted by the West Virginia Department of Transportation, Division of Highways to design a 1.5 mile stretch of four lane highway, also known as Meadowbrook Road in Harrison County, West Virginia. This roadway project had an estimated cost of \$11,850,000.

Our Roadway group utilized their expertise to conduct alignment studies, surveying, right-of-way, and drainage, maintenance of traffic, access roads, signing, pavement markings and utility relocations. Also involved in the project was E.L. Robinson Engineering Co. team of geotechnical engineers which provided geotechnical investigations and studies. This project includes over 1.7 million cubic yards of excavation, some of which is over a previously mined underground coal mine

Corridor H – Foreman to Moorefield

WV Dept. of Transportation Division of Highways



COMPLETION:
Design Completed in
2006 Open to Traffic in
2010

COST:
\$75 Mi

OUR ROLE:
Design and Construction
Observation

CONTACT:
Mike Lilly, PE
1900 Kanawha Blvd. E
Charleston, WV 25305
304.558.9699



E.L. Robinson Engineering Company was contracted by the West Virginia Department of Transportation, Division of Highways to design a 5 mile stretch of four lane divided highway, known as Corridor H, in Hardy County, West Virginia. This project also included 3.5 miles of access roads, a truck escape ramp, three bridges, and a naturalized stream design. This project has an estimated construction cost of \$75,000,000.

Our Roadway group utilized their expertise to conduct alignment studies (saving the Division of Highways approximately \$20 Million), surveying, right-of-way, maintenance of traffic, drainage, access roads, signing, pavement markings and utility relocations. The Structures group designed dual structures approximately 185 feet long, another 85 foot long structure, as well as a box culvert. Also involved in the project was E.L. Robinson Engineering Company's team of geotechnical engineers which provided geotechnical investigations and studies, which helped design the 10 million cubic yards of excavation.

Lavalette to Huntington Road

WV Dept. of Transportation Division of Highways



COMPLETION:
Design Completed 1999

Open to Traffic in 2000

COST:
\$802,500

OUR ROLE:
Design and Construction
Observation

CONTACT:
Anthony Carovillano, PE
1900 Kanawha Blvd. E
Charleston, WV 25305
304.558.9727



E.L. Robinson Engineering Co. was contracted by the West Virginia Department of Transportation, Division of Highways to design the widening of approximately one mile of WV Route 152. This widening of Lavalette to Huntington Road was needed to install a center turn lane through an urban area. The total cost of this project was approximately \$802,500.00.

Numerous storm drainage improvements were included in the design prepared by the E.L. Robinson Engineering Co. Roadway Group. Other services provided to complete this project included an extension to an existing box culvert, maintenance of traffic plans, signing, pavement markings and right-of-way plans.



Blackwater Falls State Park Sewage Treatment Plant Replacement

WV Division of Natural Resources



LOCATION:
Davis, WV

COMPLETION:
2008

COST:
\$600,000

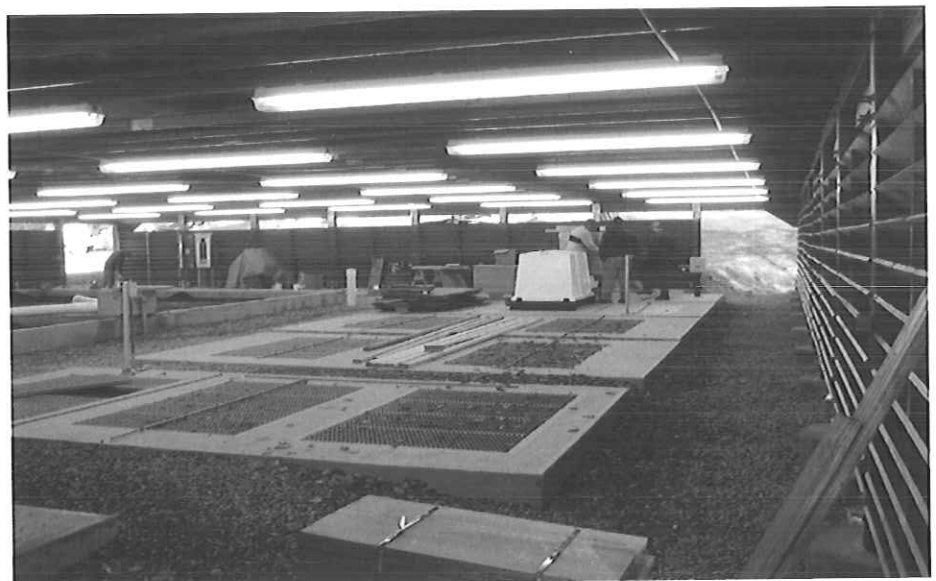
OUR ROLE:
Design and Construction

CONTACT:
Brad S. Leslie, PE
Assistant Chief
State Parks Section
324 4th Avenue
So. Charleston, WV
304.558.2764 x 51823



E.L. Robinson Engineering Co. was contracted by the West Virginia Division of Natural Resources, Parks & Recreation to design a new concrete sewage treatment plant which eliminates the potential for rust. The new plant also uses ultraviolet disinfection and provides a sand filter prior to discharge into the Blackwater Canyon.

The new plant was constructed adjacent to the existing plant. E.L. Robinson's design kept the existing plant in service during construction. A new building was also designed to match the building housing the existing plant.



Tygart Lake State Park Wastewater Treatment Plant

WV Division of Natural Resources



LOCATION:
Davis, WV

COMPLETION:
2008

COST:
\$118,000

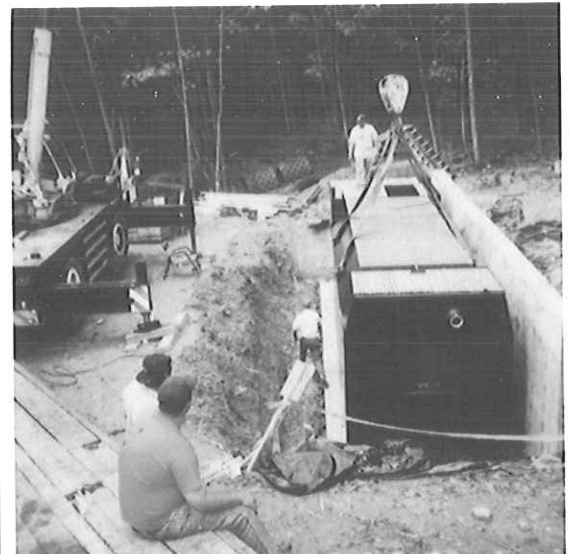
OUR ROLE:
Design and Construction
Observation

CONTACT:
Brad S. Leslie, PE
Assistant Chief
State Parks Section
324 4th Avenue
So. Charleston, WV
304.558.2764 x 51823



E.L. Robinson Engineering Co. was retained by the West Virginia Division of Natural Resources, Parks and Recreation, to provide planning, design and construction administration services for a new waste water treatment plant for Tygart Lake State Park near Grafton, West Virginia.

The existing treatment plant was replaced by an 8,000 gallon per day package plant, with new controls and electrical equipment. The new plant serves the lodge. A concrete retaining wall was also constructed due to poor soil conditions at the plant site.



Holly River State Park Wastewater Treatment Plant

WV Division of Natural Resources



LOCATION:
Davis, WV

COMPLETION:
1999

COST:
\$66,000

OUR ROLE:
Design and Construction
Observation

CONTACT:
Brad S. Leslie, PE
Assistant Chief
State Parks Section
324 4th Avenue
So. Charleston, WV
304.558.2764 x 51823



E.L. Robinson was retained by the West Virginia Division of Natural Resources, Parks and Recreation to provide planning, design and construction administration services for a new waste water treatment plant for Holly River State Park in Webster County, West Virginia.

The existing treatment plant was replaced by a 2,000 gallon per day package plant, with new controls and electrical equipment. The new plant serves part of the campground.



Camp Virgil Tate Sanitary Sewer Improvements

Kanawha County Commission



LOCATION:
Kanawha County, WV

COMPLETION:
2000

COST:
\$53,000

OUR ROLE:
Design and Construction
Observation

CONTACT:
Jennifer Sayre
County Manager
Kanawha Co. Courthouse
Charleston, WV
304.357.0101



E.L. Robinson Engineering co. was retained by the Kanawha County Commission to provide planning, design and construction administration services for a sanitary sewer line replacement at Camp Virgil Tate in Kanawha County, West Virginia.

Several old, deteriorated sewers were replaced with PVC pipe and manholes were added. Existing buildings were reconnected to the new sewer lines.



Southern Wayne County Water System Upgrades and Extensions

Wayne County Commission



LOCATION:
Wayne County, WV

COMPLETION:
2006 - 2016 (9 Projects)

COST:
\$52M

OUR ROLE:
Design and Construction
Observation

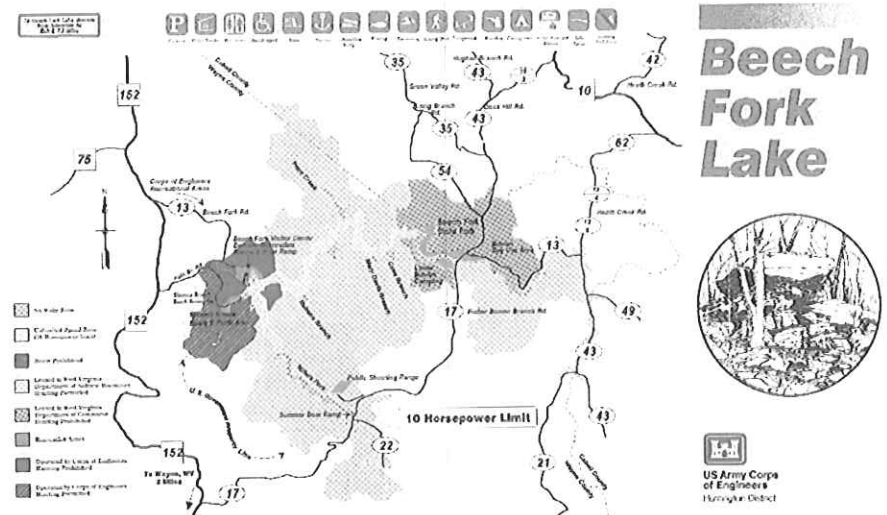
ADDITIONAL MEMBERS:
Lavalette PSD
Crum PSD

CONTACT:
Bob Pasley, President
Wayne County Commission
700 Hendricks St.
Wayne, WV 25570
304.272.6592



E.L. Robinson provided engineering design services and geo-technical services to areas of Wayne County for water system upgrades and extensions. The scale of this project is tremendous. It is divided into nine separate projects and will be performed sequentially. The entire project covered 517 square miles and will service approximately 6,000 residents when complete. The total coverage for the County will be approximately 90%. The project costs an estimate total of nearly \$52 million. The first project started in 2006 and is continuing with 3 completed, 2 under design and one bidding at present (2012).

The scope of work included construction drawings, preparation of funding application and personal meetings with the client. E.L. Robinson not only provided services such as design and funding guidance, but provided a team of trained construction inspectors available to observe the work until final completion.



Southern Wayne County Water System Upgrades and Extensions

Wayne County Commission



LOCATION:
Wayne County, WV

COMPLETION:
2006 - 2016 (9 Projects)

COST:
\$52M

OUR ROLE:
Design and Construction
Observation

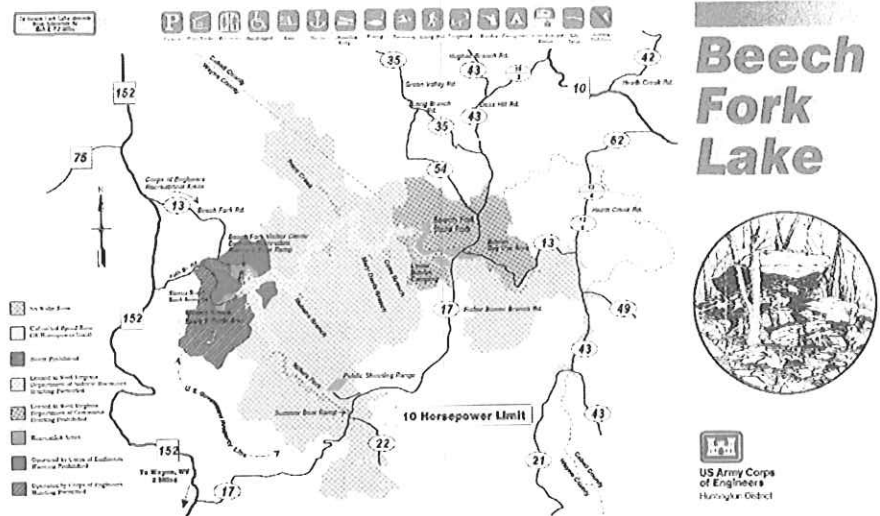
ADDITIONAL MEMBERS:
Lavalette PSD
Crum PSD

CONTACT:
Bob Pasley, President
Wayne County Commission
700 Hendricks St.
Wayne, WV 25570
304.272.6592



E.L. Robinson provided engineering design services and geo-technical services to areas of Wayne County for water system upgrades and extensions. The scale of this project is tremendous. It is divided into nine separate projects and will be performed sequentially. The entire project covered 517 square miles and will service approximately 6,000 residents when complete. The total coverage for the County will be approximately 90%. The project costs an estimate total of nearly \$52 million. The first project started in 2006 and is continuing with 3 completed, 2 under design and one bidding at present (2012).

The scope of work included construction drawings, preparation of funding application and personal meetings with the client. E.L. Robinson not only provided services such as design and funding guidance, but provided a team of trained construction inspectors available to observe the work until final completion.



Town of Wayne Combined Sewer Separation

Town of Wayne



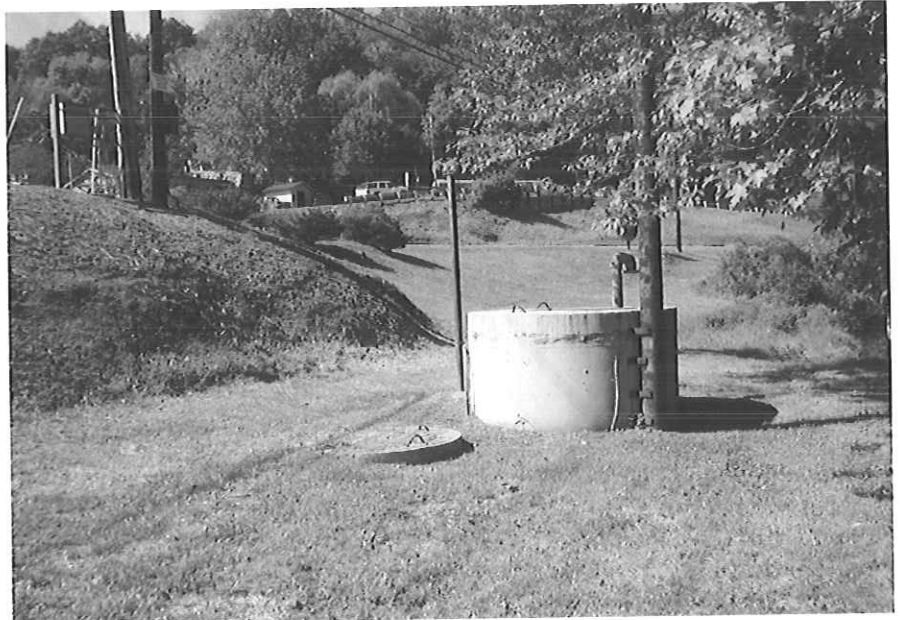
LOCATION:
Wayne County, WV

COMPLETION:
Bidding 2012

COST:
\$3M

OUR ROLE:
Design, Bidding,
Construction Inspection, and
Contract Administration

CONTACT:
Mayor Mike Sanders
PO Box 25
Wayne, WV 25570
304.272.3221



Portions of the existing sanitary sewer collection system in the Town of Wayne are Combined Sewers, which convey both sanitary sewage and storm water. During the periods of heavy rainfall, the storm water exceeds the capacity of the combined sewers and overflows into Twelve-pole Creek.

E.L. Robinson Engineering conducted a Sanitary Sewer Evaluation Study to determine which sewers are combined. We prepared plans to eliminate the combined sewers by constructing new, separate storm and sanitary sewers. Also, the existing sanitary sewers will be upgraded in several areas to replace lines that have been maintenance problems. Many of the older sewers do not have manholes and have deteriorated over the years. These lines will be replaced and upgraded to current standards.

Also, several pump stations will be renovated with new pump bases, guide rails and level transducers to replace existing floats.

Stonewall Jackson Lake Resort

WV State Parks



LOCATION:
Weston, WV

COMPLETION:
2003

COST:
\$35M

OUR ROLE:
Master Planning, Site
Construction Design, Permit
Coordination

CONTACT:
Mr. Rudy Henley
West Virginia Commercial
LLC
305 Washington St. W
Charleston, WV
304.347.7500

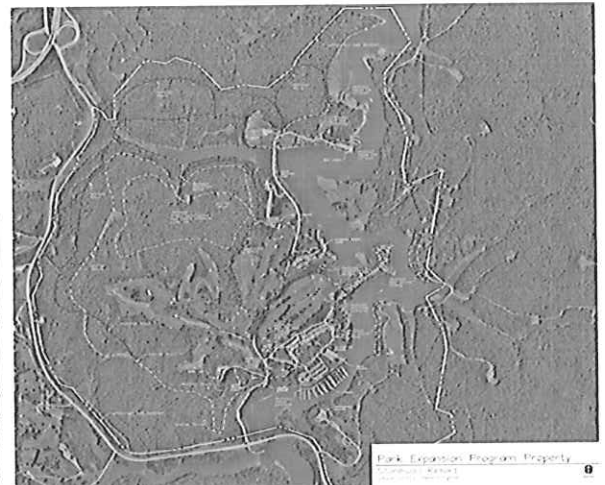


Stonewall Jackson Lake State Park represents a new beginning for state supported recreation development in West Virginia. The 35 million dollar

Resort planned by E.L. Robinson's landscape architects as part of the developer's team, was the first public/private partnership formed in the state for the development of facilities at a state park. The developer was responsible for coordinating all design and construction activity, while the state assisted in the financing package.

ELR landscape architects were responsible for master planning and site construction design for the 2,000 acre resort, including a 180-room lodge, an 18-hole signature golf course by Palmer Course Design Co., a 100-unit campground, cabins, day use improvements, a swimming pool, trails, access and parking. The firm was also responsible for permit coordination with the various state and federal agencies for wetlands, riparian corridors, utilities, stormwater and erosion controls. An extensive tree preservation and relocation program was planned and was coordinated by the firm.

This project was completed by E.L. Robinson's landscape architects prior to their affiliation with the firm.



Earl Ray Tomblin Industrial Park

Logan County Development Authority



LOCATION:
Logan, WV

COMPLETION:
2003

COST:
\$1.2M

OUR ROLE:
Construction Management,
Geotechnical Engineering,
Land Planning and
Landscape Architecture, Site
Development, Survey &
Technology, and
Transportation Engineering

CONTACT:
Mr. Rocky Adkins
Logan County
Development Authority
300 Main Street
Logan, WV
304.792.7243



E.L. Robinson Engineering was contracted by the Logan County Development Authority to provide project planning and site design including approximately one half-mile of access road design, site grading plan, sediment and erosion control, water and sanitary sewer layout; and upgrade to the existing wastewater treatment plant. This development includes 52 acres of land located near the Southwest Regional Jail and US 119 Corridor G. ELR is able to provide clients, like the Logan County Development Authority, with a full range of civil engineering and construction management services. ELR's goal is to provide convenience and make the job of their clients as easy as possible.

ELR is committed to providing maximum efficiency in the completion of every project. The Earl Ray Tomblin Industrial Park and Access Road utilized the full depth of ELR's quality services, including storm water drainage, preparation of bid/contract documents, participation in the solicitation and evaluation of bids received, construction administration and inspection, assistance with easement/property acquisition, surveying and mapping, and preparation of all necessary permit applications.

Mingo County Wood Products

Industrial Park



LOCATION:
Mingo County, WV

COMPLETION:
2010

COST:
\$10M

OUR ROLE:
Design and Project
Construction Inspection

CONTACT:
Mr. Steve Kominar,
Executive Director
Mingo County Redevelop-
ment Authority
1100 East Fourth Avenue
Williamson, WV
304.235.0042



E.L. Robinson Engineering was contracted by the Mingo County Redevelopment Authority to provide site design including storm water drainage, expansion of existing wastewater treatment plant, preparation of construction plans and specifications, surveying and mapping, preparation of all necessary permit applications, preparation of bid/contract documents, participation in the solicitation and evaluation of bids, construction administration and inspection for the Mingo County Wood Products Industrial Park's multiple projects located just off Corridor G (US 119) located in Mingo County, West Virginia.

Stonewall Jackson Resort Park - Pedestrian Bridge

WV Division of Natural Resources



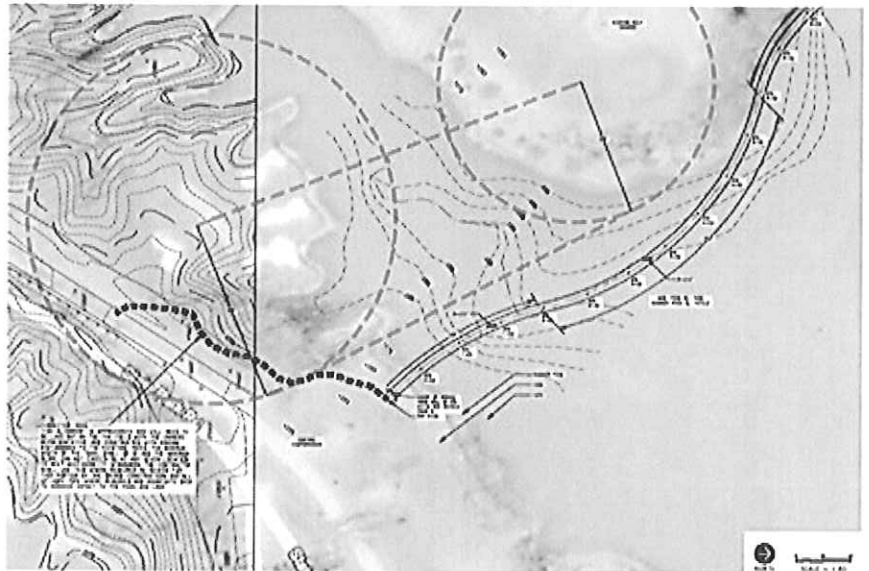
LOCATION:
Weston, WV

COMPLETION:
2011

COST:
\$400,000

OUR ROLE:
Site design, structural
engineering, landscape
architecture, construction
documents, bidding and
construction observation.

CONTACT:
James G. Schotsch, PE
WVDNR
1200 Harrison Ave., Ste. 22
Elkins, WV
304.637.0301



West Virginia DNR received grant to build a pedestrian bridge approximately 900 feet across the lake from the lodge to the campground. An initial concept plan was developed for the bridge in 2008 which serves as the basis of the final design which EL Robinson was retained to develop.

It will be a 10' wide timber pile bridge with appropriate wooden decking and handrail. The accessible approach on the lodge side is complete and the contractor will be required to connect the bridge to that existing approach. At the campground end of the bridge an alignment will be shown on the plans that will allow for the Resort to build that accessible approach separate from the bridge construction.



References



Major General Melvin Burch

Assistant Adjutant General for Installations and Homeland Defense, West Virginia National Guard
Construction and Facilities Management Office
West Virginia Army National Guard
1707 Coonskin Drive
Charleston, WV 25311
Phone: 304.561.6450



Bill Smith

Superintendent
Cabell County Schools
2850 5th Avenue
Huntington, WV 25601
Phone: 304.528.5030



Gary Adkins

Superintendent
Wayne County Schools
PO Box 70
Wayne, WV 25570
Phone: 304.272.5116



Joanne Jaeger Tomblin

President
Southern West Virginia CTC
P. O. Box 2900
Mount Gay, WV 25637
Phone: 304.896.7439



Dr. Beverly Jo Harris

President
Bridgemont CTC
619 2nd Avenue
Montgomery, WV 25136
Phone: 304.734.6601



Steve Kominar

Director, Mingo Co. Redevelopment Authority
1100 East Fourth Avenue
P.O. Box 298
Williamson, WV 25661
Phone: 304.235.0042



Bob Pasley

President, Wayne County Commission
700 Hendricks Street
Wayne, WV 25570
Phone: 304.272.6592



Mike McNulty

Director, Putnam Co. PSD
107 Poplar Fork Road
Scott Depot, WV 25560
Phone: 304.757.6551



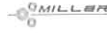
Richard Smith

Lavalette PSD
5308 Rt. 152
Lavalette, WV 25535
Phone: 304.525.3771



Bradley S. Leslie, PE, Assistant Chief

WV Division of Natural Resources
324 Fourth Avenue
South Charleston, WV 25303-1228
Phone: 304.558.2764 ext. 51823



Chris Halterman, Director of Operations

The Dominion Post
1201 Hal Greer Boulevard
Morgantown, WV 26508
Phone: 304.291.9479

**Major General Alan Tackett
Retired Adjutant General – West Virginia National Guard**

Description: Testimonial / ZMM Architects & Engineers

"When you look at the design work and the construction that was done on our facilities there is none better in the United States of America so why wouldn't we use local talent and local companies to do that. I don't think anybody could have done a better job for the West Virginia National Guard than what ZMM and our other people have done in constructing and building the National Guard into the 21st Century.

We've built nearly a billion dollars worth of facilities in the State of West Virginia and ZMM was one of our major Architects through all of that construction and not one project did we have problems with, or have anything bad to say and their all well built. Their all built to last for years and years and years, into the future. All will provide excellent facilities for men and women who are serving in the West Virginia National Guard for centuries to come. The facilities built were built in a way to where the communities get the maximum benefit from the tax payer's dollars that paid for those projects, and your design and set up has made those economic tools. When you look at the Armories that we've built, or the Armed Forces Reserve Centers, they have become economic tools for those communities and it was just fabulous the way we worked together as a team to make sure everything got done on time. The things that you all went out of your way to do to make sure that we got the kind of buildings that we wanted was far and above the call of duty.

I would recommend ZMM above any Architect that I have ever worked with. Your work, your dedication to your customer, and bringing a project in on time and in budget is probably the best I have ever seen."

Video of this testimonial is available at www.zmm.com.

Maestro Grant Cooper
Artistic Director and Conductor West Virginia Symphony Orchestra

Description: Partnership with the West Virginia Symphony / ZMM Architects & Engineers

"One of the joys of being in West Virginia is discovering the incredible commitment to quality that many institutions here have, and we have been able to partner with ZMM an incredible architectural and engineering firm based here in Charleston, which shares our commitment to quality. We believe that quality is the way to the future. It is the way that we see what is possible, with our people, with our resources, and indeed we are going to build together a brighter future for everybody by these partnerships."

Video of this testimonial is available at www.zmm.com.

Client Testimonials for Miller Engineering:

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

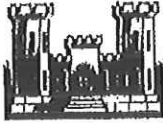
Chris Halterman, Director of Operations
The Dominion Post

"I chose Miller Engineering because they are not a purely design based firm. They have real world construction experience and the work ethic to insure that the project is completed on time, on budget. I have confidence that my agencies interest is well served in design and in construction contract administration."

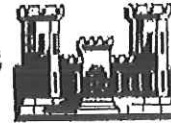
Bradley S. Leslie, PE, Assistant Chief
WV Division of Natural Resources

"Mr. Miller and his team are always available to answer questions and communicate effectively with all stakeholders in a project, from contractors to board members."

Patrick Sweeney, Business Manager
Southeastern Greene School District



WEST VIRGINIA ARMY NATIONAL GUARD
CONSTRUCTION & FACILITIES MANAGEMENT OFFICE



1707 Coonskin Drive
Charleston, West Virginia 25311-1085
Phone: 304-561-6339 Fax: 304-561-6458 DSN: 623-6339

15 April 2009

WV Higher Education Policy Commission
Chief Procurement Officer
Richard Donovan
1018 Kanawha Blvd. East
Suite 700
Charleston, WV 25301

Dear Mr. Donovan,

The AECOM/ZMM Team has been assisting the West Virginia Army National Guard with the design of a 285,000 SF addition to the Robert C. Byrd Regional Training Institute (RTI) at Camp Dawson, near Kingwood, West Virginia. The new JITEC (Joint Interagency Training and Education Center) will include highly flexible educational facilities that will serve a dual use in the case of a state wide or national emergency. These facilities will include sophisticated data systems, video walls, and also incorporate a high level of electronic security.

The AECOM/ZMM Team has exceeded our expectations, delivering a high level of local expertise, complimented by the knowledge base of a large design firm. The Team's commitment to design quality has been demonstrated through the development of a site strategy that evokes a campus, while maintaining all of the programmed spaces in one facility. The JITEC design balances the need to re-orient the campus while also complimenting the existing RTI. The technical ability of the AECOM/ZMM Team has also been demonstrated through the design of redundant power and HVAC systems, as well as through the examination of various building components to meet the requirements of LEED Silver.

The AECOM/ZMM Team has been very responsive and has done an excellent job of communicating the West Virginia Army National Guard's vision for this project. Additionally, the design team has provided these services within a compressed timeframe to meet our requirements. Please contact me if I can provide any additional information about our experience with the AECOM/ZMM Team.

MELVIN L. BURCH

Brigadier General

West Virginia Army National Guard

Assistant Adjutant General

The Higher Education Foundation

200 MAIN STREET, BECKLEY, WEST VIRGINIA 25801-4613

TELEPHONE 304 929-2010

FACSIMILE 304 929-2009

forwardsww@earthlink.net

January 22, 2008

Mr. Rod Watkins, Vice-President, AAIA, REFP
ZMM, Inc.
222 Lee Street West
Charleston, WV 25302

Dear Rod,

Last week, January 14, 2008, we began the second semester of use of The Erma Byrd Center at the Public Higher Education Center campus, Beaver, West Virginia. This endeavor has been a significant triumph for our area and is the first of its kind in West Virginia. Seven public colleges/universities have come together in a single center in a spirit of cooperation rather than competition.

This is a note to thank you and the ZMM family for the critical role with excellence that you played in this project. Initially, we had worked with another architect in Pittsburgh, but unfortunately a series of events made continuance with them impossible. We were then met with crucial deadlines for reformulating an entire building with a very constricted timeline and an equally restricted budget. We turned to ZMM.

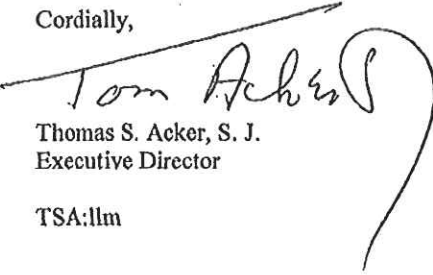
Our contract with you began in December, 2005. We had to complete architectural plans, bid the building, secure a contractor, and begin construction by July, 2006, in order to meet an opening date of August, 2007. ZMM was the perfect partner with us as we forged a new building on a yet raw campus and made it work.

The building designed by ZMM was elegant, yet simple. The budget parameters were met, including a striking view from I-64. The building design impresses all.

Radford & Radford was chosen as the builder, and ZMM worked with them expeditiously and effectively. The architectural plans were exceptionally clean, and the few change orders were almost entirely initiated by the owner as some afterthoughts developed. The project was completed on time, and the first semester was excellent. Over 131 classes were taught engaging 1,990 students.

I simply wanted to send you this note of thanks for accepting a very daunting task, completing it with excellence, maintaining the very restricted budget, and making this whole project successful. We are now looking forward to a second building, and while we probably need by state law to seek architectural services through an RFP, I hope that ZMM will engage in the process. It would be to our benefit if ZMM were the winning architects. You have my highest recommendation and most sincere thanks.

Cordially,


Thomas S. Acker, S. J.
Executive Director

TSA:llm



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

Solicitation

NUMBER
DNR213005

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
FRANK WHITTAKER 304-558-2316

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE

SHIP TO

DIVISION OF NATURAL RESOURCES
 PARKS & RECREATION SECTION

 324 4TH AVENUE
 SOUTH CHARLESTON, WV
 25303-1228 304-558-3397

DATE PRINTED
08/15/2012

BID OPENING DATE: 09/06/2012 BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		
ARCHITECTURAL/ENGINEERING BEECH FORK LODGE.						
EXPRESSION OF INTEREST (EOI)						
ARCHITECTURAL/ENGINEERING SERVICES						
THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES, IS SOLICITING EXPRESSIONS OF INTEREST FROM QUALIFIED ARCHITECTURAL AND ENGINEERING FIRMS FOR THE DESIGN AND CONSTRUCTION OF A NEW LODGE LOCATED AT BEECH FORK STATE PARK NEAR HUNTINGTON, WEST VIRGINIA PER THE ATTACHED SPECIFICATIONS.						
***** THIS IS THE END OF RFQ DNR213005 ***** TOTAL:						

SIGNATURE <u>Adg RK</u>	TELEPHONE <u>304.342.0159</u>	DATE <u>31-AUG-2012</u>
TITLE <u>PRINCIPAL</u>	FEIN <u>55-0676608</u>	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.:

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

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

Addendum Numbers Received:
(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

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

ZMM, INC.
 Company


 Authorized Signature

31. AUGUST. 2012
 Date

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

RFQ No. DNR213005

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: ZMM, Inc., Architects and Engineers

Authorized Signature: *[Signature]* Date: 09/06/2012

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 6th day of September, 2012.

My Commission expires 10/6, 2018.

AFFIX SEAL HERE



NOTARY PUBLIC

[Signature]

Purchasing Affidavit (Revised 07/01/2012)



209434

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
7/26/2012

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Commercial Lines - (304) 232-0600 Wells Fargo Insurance Services of West Virginia Inc. #2 22nd Street, 2nd Floor Wheeling, WV 26003-3826	CONTACT NAME: Bri Harveth PHONE (A/C, No, Ext): (304)232-0600 E-MAIL ADDRESS: Bri.Harveth@wellsfargo.com	FAX (A/C, No): (304)233-5536
	INSURER(S) AFFORDING COVERAGE	
INSURED ZMM, Inc. 222 Lee Street Charleston, WV 25302	INSURER A: The Charter Oak Fire Ins. Co	NAIC # 25615
	INSURER B: Catlin Insurance Company, Inc.	NAIC # 19518
	INSURER C:	
	INSURER D:	
	INSURER E:	
INSURER F:		

COVERAGES **CERTIFICATE NUMBER:** 4657846 **REVISION NUMBER:** See below

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$	
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$	
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$	
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			XOUB-0393T130	07/01/2012	07/01/2013	WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000	
B	Professional Liability Claims Made Retro Date 06/01/1987			AED-205449-1112	11/18/2011	11/18/2012	\$2,000,000 Each Claim \$2,000,000 Aggregate Retention \$25,000	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Evidence of Insurance.

CERTIFICATE HOLDER**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Grant Bruden



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

4/17/2012

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER BB&T-Carson Insurance Services 601 Tennessee Avenue Charleston, WV 25302 304 346-0806	CONTACT NAME: PHONE (A/C, No, Ext): 304 346-0806		FAX (A/C, No): 8887513002
	E-MAIL ADDRESS: _____		
INSURED ZMM Inc. & BBS Partnership 222 Lee Street West Charleston, WV 25302	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A : Cincinnati Insurance Company		10677
	INSURER B :		
	INSURER C :		
	INSURER D :		
	INSURER E :		

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY		EBA0072554	05/07/2012	05/07/2013	EACH OCCURRENCE	\$1,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY					DAMAGE TO RENTED PREMISES (Ea occurrence)	\$50,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR					MED EXP (Any one person)	\$5,000
						PERSONAL & ADV INJURY	\$1,000,000
						GENERAL AGGREGATE	\$2,000,000
						PRODUCTS - COMP/OP AGG	\$2,000,000
							\$
A	AUTOMOBILE LIABILITY		EBA0072554	05/07/2012	05/07/2013	COMBINED SINGLE LIMIT (Ea accident)	\$1,000,000
	<input checked="" type="checkbox"/> ANY AUTO					BODILY INJURY (Per person)	\$
	<input type="checkbox"/> ALL OWNED AUTOS	<input type="checkbox"/> SCHEDULED AUTOS				BODILY INJURY (Per accident)	\$
	<input checked="" type="checkbox"/> HIRED AUTOS	<input checked="" type="checkbox"/> NON-OWNED AUTOS				PROPERTY DAMAGE (Per accident)	\$
							\$
A	UMBRELLA LIAB		EBP0019577	05/07/2012	05/07/2013	EACH OCCURRENCE	\$1,000,000
	<input checked="" type="checkbox"/> EXCESS LIAB	<input checked="" type="checkbox"/> OCCUR				AGGREGATE	\$1,000,000
	<input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$0	<input type="checkbox"/> CLAIMS-MADE					\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY					WC STATU-TORY LIMITS	OTH-ER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory In NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A			E.L. EACH ACCIDENT	\$
						E.L. DISEASE - EA EMPLOYEE	\$
						E.L. DISEASE - POLICY LIMIT	\$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Evidence of Insurance

CERTIFICATE HOLDER

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Larry D. Kern



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

Solicitation

NUMBER
DNR213005

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
FRANK WHITTAKER 304-558-2316

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE

SHIP TO

DIVISION OF NATURAL RESOURCES
 PARKS & RECREATION SECTION

324 4TH AVENUE
 SOUTH CHARLESTON, WV
 25303-1228 304-558-3397

DATE PRINTED
08/30/2012

BID OPENING DATE: 09/06/2012 BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
THIS ADDENDUM IS ISSUED TO PROVIDE THE ATTACHED DOCUMENTATION.						
0001	1	LS		906-00-00-001		
ARCHITECTURAL/ENGINEERING BEECH FORK LODGE						
***** THIS IS THE END OF RFQ DNR213005 ***** TOTAL:						

SIGNATURE <i>A. K. K.</i>	TELEPHONE 304.342.0159	DATE 31-AUG-2012
TITLE PRINCIPAL	FEIN 55-0676608	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

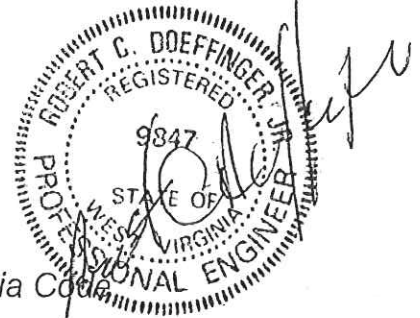
**WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION
CERTIFICATE**

ISSUED TO:
ZMM INC
222 LEE ST W
CHARLESTON, WV 25302-2225

BUSINESS REGISTRATION ACCOUNT NUMBER: 1040-0001

This certificate is issued on: 06/21/2011

*This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code*



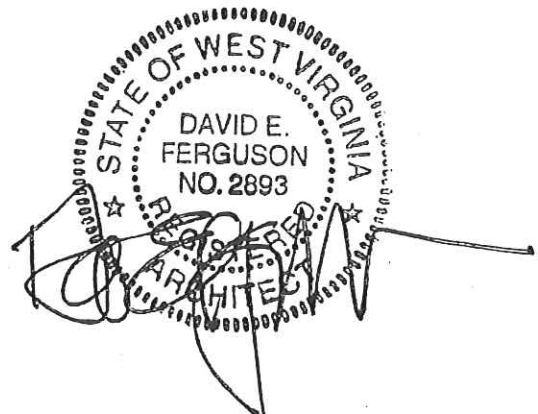
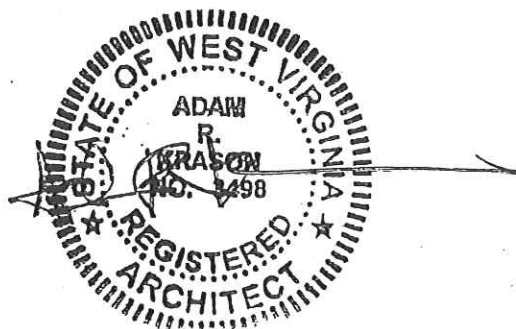
*The person or organization identified on this certificate is registered
to conduct business in the State of West Virginia at the location above.*

This certificate is not transferrable and must be displayed at the location for which issued.
This certificate shall be permanent until cessation of the business for which the certificate of registration
was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new
certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of
this certificate displayed at every job site within West Virginia.

atL006 v.4
L1625087104



CERTIFICATE OF

Authorization

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

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

ZMM, INC.

C00689-00

Engineer in Responsible Charge: ROBERT DOEFFINGER - WV PE 009847

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

July 1, 2012 - June 30, 2013

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

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



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

BOARD PRESIDENT

CERTIFICATE OF *Authorization*

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

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

**E. L. ROBINSON ENGINEERING COMPANY
C00165-00**

Engineer in Responsible Charge: EDWARD ROBINSON - WV PE 006918

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

July 1, 2012 - June 30, 2013

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



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

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

BOARD PRESIDENT

CERTIFICATE OF *Authorization*

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

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

MILLER ENGINEERING, INC.

C02108-00

Engineer in Responsible Charge: BRIAN MILLER - WV PE 015184

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

July 1, 2012 - June 30, 2013

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

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



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

BOARD PRESIDENT

The West Virginia Board of Architects

certifies that

ADAM R. KRASON

is registered and authorized to practice
Architecture in the State of West Virginia.

In testimony whereof this certificate has been issued
by the authority of this board.

Certificate Number 3498

The registration is in good standing until June 30, 2013.



Leta C. Lewis

Board Administrator

THE CATHOLIC UNIVERSITY OF AMERICA

UPON THE RECOMMENDATION OF THE FACULTY OF

THE SCHOOL OF ARCHITECTURE AND PLANNING

WITH THE APPROVAL OF THE ACADEMIC SENATE
HAS CONFERRED UPON

ADAM R. KRASON

THE DEGREE OF

BACHELOR OF ARCHITECTURE

WITH ALL THE HONORS, RIGHTS AND PRIVILEGES PERTAINING THERETO.
GIVEN UNDER THE SEAL OF THE UNIVERSITY, BY VIRTUE OF THE
AUTHORITY VESTED IN THE BOARD OF TRUSTEES BY THE CONGRESS
OF THE UNITED STATES, AT WASHINGTON IN THE DISTRICT OF COLUMBIA
THIS SIXTEENTH DAY OF MAY, NINETEEN HUNDRED AND NINETY-EIGHT.

UPON THE RECOMMENDATION OF THE FACULTY OF

THE SCHOOL OF ENGINEERING

WITH THE APPROVAL OF THE ACADEMIC SENATE
HAS CONFERRED UPON

ADAM R. KRASON

THE DEGREE OF

BACHELOR OF CIVIL ENGINEERING

WITH ALL THE HONORS, RIGHTS AND PRIVILEGES PERTAINING THERETO.
GIVEN UNDER THE SEAL OF THE UNIVERSITY, BY VIRTUE OF THE
AUTHORITY VESTED IN THE BOARD OF TRUSTEES BY THE CONGRESS
OF THE UNITED STATES, AT WASHINGTON IN THE DISTRICT OF COLUMBIA
THIS SIXTEENTH DAY OF MAY, NINETEEN HUNDRED AND NINETY-EIGHT.



Bertha Patrick Ellis, F.S.C.
PRESIDENT

Edward Cardinal Gaud
CHAIRMAN OF THE BOARD OF TRUSTEES

William E. Kelly
DEAN

G. Kendall Rice
REGISTRAR

The U.S. Green Building Council

hereby certifies that

Adam Krason

has successfully demonstrated knowledge of the
green building design and construction industry and the
Leadership in Energy and Environmental Design (LEED®) v2
Green Building Rating System, Resources and Process required
to be awarded the title of


LEED® v2 Accredited Professional



Kevin Hydes, Chairman



LEED.



S. Richard Fedrizzi, President,
CEO and Founding Chairman



The Construction
Specifications
Institute

CONSTRUCTION DOCUMENTS TECHNOLOGIST

This is to certify that

Adam Krason, CDT

has successfully completed the Construction Documents Technology examination,
demonstrating a knowledge of General Conditions of the contract in common use and CSI recommended
procedures for project manual organization as prescribed by the Certification Committee of The
Construction Specifications Institute.

A handwritten signature in cursive script, reading "John P. McCaffrey".

John P. McCaffrey, FCSI, CCS, AIA, SCIP
Secretary
The Construction Specifications Institute

A handwritten signature in cursive script, reading "Lisa Turner".

Lisa Turner, CSI, CCPR, LEED AP
Chairman
Institute Certification Committee

June 19, 2007



THE AMERICAN INSTITUTE OF ARCHITECTS

DECLARES THAT

Adam R. Krason

IS ADMITTED TO ASSOCIATE MEMBERSHIP HAVING BEEN FOUND ELIGIBLE

BY AUTHORITY OF THE BOARD OF DIRECTORS

AND IS ENTITLED TO EXERCISE AND ENJOY ALL THE RIGHTS AND PRIVILEGES

OF THIS CATEGORY OF MEMBERSHIP AS PRESCRIBED IN THE BYLAWS.

DATED MAY 13, 1999

Michael S. Stutz
PRESIDENT

Thomas J. Schi
SECRETARY

The West Virginia Board of Architects

certifies that

DAVID E. FERGUSON

is registered and authorized to practice
Architecture in the State of West Virginia.

In testimony whereof this certificate has been issued
by the authority of this board.

Certificate Number 2893

The registration is in good standing until June 30, 2013.



Leta C. Lewis

Board Administrator

State of West Virginia



STAMP

West Virginia State College

To whom it may concern, Greeting: *These presents certify that the degree of Bachelor of Science in Industrial Technology has been conferred upon David Elsworth Ferguson by the West Virginia Board of Regents upon the recommendation of the Faculty of West Virginia State College.*

In Testimony whereof, the West Virginia Board of Regents and the Faculty of the aforesaid West Virginia State College have herewith affixed their signatures, and the West Virginia Board of Regents has caused to be attached the seal of its office.

Done at Institute, West Virginia, this 21st day of December, 1979.

State Board of Regents

Ge. J. J. J.
President
Ben. J. J.
Chancellor

Faculty

Harold M. McMillan
President
Donald Anderson
Dean
John L. Fuller
Registrar

Your ACTIVE PE renewal fee has been received...

Your ACTIVE PE renewal fee has been received. Your pocket card indicating you are entitled to practice engineering in West Virginia until June 30, 2013 may be detached and used until that date unless invalidated as a result of Board audit of your renewal form or formal disciplinary action.

IMPORTANT REMINDERS:

1. Please include your WV ACTIVE PE license number on any correspondence to this office.
2. Please sign the back of this pocket card and carry the registration with you.
3. You are required to immediately notify the Board, in writing, of the following: loss or theft of license or seal, any name change, any address change, or any employment change.

ROBERT C DOEFFINGER JR
WV PE # 009847
ZMM, INC.
222 LEE STREET WEST
CHARLESTON, WV 25302

West Virginia State Board of Registration
for Professional Engineers
300 Capitol Street, Suite 910
Charleston, West Virginia 25301
304-558-3554 Phone
800-324-6170 Toll Free

THIS IS YOUR RENEWAL PAYMENT RECEIPT
(in addition to your secondary records of either a canceled check or credit card statement, as well as a confirmation email and printed confirmation page if renewing via our website)
PLEASE SAVE THIS FOR YOUR RECORDS



West Virginia State Board of Registration
for Professional Engineers

ROBERT C DOEFFINGER JR
WV PE # 009847

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

EXPIRES JUNE 30, 2013

STUDENT NO. 233807377
 DATE OF BIRTH: 02/28/50
 ENTRANCE DATE: 08/1968

STUDENT NAME AND ADDRESS: DOEFFINGER, ROBERT CAL, JR., 1405 KANAWHA ST, PT PLEASANT W VA
 PARENT NAME AND ADDRESS: ROBERT C DOEFFINGER, 1405 KANAWHA ST, PT PLEASANT W VA

A.C.T. STANDARD SCORES ENGL. 21 MATH 23 SOC. S. 23 NAT. S. 26 COMP. 23

COURSE: ENGR
 MAJOR SUBJECT: M E
 DEGREE CONFERRED: B. S. M. E., MAY 20, 1973.
 ADMITTED FROM: PT PLEASANT H S, PT PLEASANT W VA
 1968

SUBJECT		COURSE TITLE	SEM. HRS.	GRD.	GRADE POINTS	SUBJECT		COURSE TITLE	SEM. HRS.	GRD.	GRADE POINTS
NAME	NO.					NAME	NO.				
233807377		FIRST SEMESTER 1968-69				233807377		SECOND SEMESTER 1970-71			
CHEM	15	FUNDAMENTALS CHEMISTRY	4	A	16	ENGL	36	TYPES OF LITERATURE	3	C	6
ENGL	1	COMPOSITION RHETORIC	3	C	6	PHYS	124	INTRO MODERN PHYSICS	4	A	16
MATH	14	PRE-CALCULUS MATHEMATICS	4	B	12	TAM	102	MECHANICS MATERIALS I	3	B	9
MIL S	1	MILITARY SCIENCE	2	A	8	TAM	104	DYNAMICS	3	B	9
G	1	ENGINEERING LECTURES	0	A	0			13 40 3.0769	13		40
P E	1	GENERAL PROGRAM M	1	B	3	233807377		FIRST SEMESTER 1971-72			
		14 45 3.2140	14		45	E E	105	ELECTRICAL FUNDAMENTAL I	4	C	8
233807377		SECOND SEMESTER 1968-69				M E	10	KINEMATICS OF MECHANISMS	3	C	6
CHEM	16	FUNDAMENTALS CHEMISTRY	4	A	16	M E	140	ENGR THERMODYNAMICS	3	B	9
ENGL	2	COMPOSITION RHETORIC	3	C	6	M E	170	MECHANICAL ENGR ANALYSIS	3	B	9
GEOG	240	GEOG OF USSR & ESTRN ERP	3	B	9			13 32 2.4615	13		32
MATH	15	CALCULUS	4	B	12	233807377		SECOND SEMESTER 1971-72			
M E	20	ENGINEERING GRAPHICS	3	B	9	E E	106	ELECTRICAL FUNDAMENTAL II	4	B	12
P E	2	GENERAL PROGRAM M	1	B	3	I E	100	MANUFACTURING PROCESSES	3	B	9
		18 55 3.0555	18		55	M E	112	DYNAMICS OF MACHINES	3	C	6
233807377		FIRST SEMESTER 1969-70				M E	141	ENGR THERMODYNAMICS	3	B	9
GEOG	118	GEO OF WESTERN EUROPE	3	B	9	M E	180	MECH ENGR MEASUREMENTS	3	A	12
HIST	53	MAKING MOD AM SINCE 186	3	B	9			16 48 3.0000	16		48
MATH	16	CALCULUS	4	C	8	233807377		FIRST SEMESTER 1972-73		ENGR	
PHYS	11	GENERAL PHYSICS	4	W	0	CH E	105	ENGR MATERIALS SCIENCE	3	A	12
C E	1	SURVEYING	2	B	6	M E	134	MECHANICAL ENGR DESIGN	3	B	9
I E	7	WELDING HEAT TREATMENT	1	B	3	M E	144	THERMODYNAMICS OF FLUIDS	3	B	9
		13 35 2.6923	13		35	M E	152	HEAT TRANSFER	3	B	9
233807377		SECOND SEMESTER 1969-70				M E	182	ENGR SYSTEMS LABORATORY	2	A	8
ENGL	6	AMERICAN LITERATURE	3	B	9			14 47 3.3571	14		47
ENGL	35	TYPES OF LITERATURE	3	B	9	233807377		SECOND SEMESTER 1972-73		ENGR	
GEOG	109	ECONOMIC GEOGRAPHY	3	B	9	B LAW	111	LEGAL ENVIRONMENT OF BUS	3	A	
MATH	17	CALCULUS	4	B	12	I E	277	ENGINEERING ECONOMY	3	B	
PHYS	11	GENERAL PHYSICS	4	A	16	M E	136	ENGR SYSTEMS DESIGN	3	A	12
		17 55 3.2352	17		55	M E	264	HEAT VENT AIR CONDITION	3	A	12
233807377		FIRST SEMESTER 1970-71				M E	282	ENGINEERING ACOUSTICS	3	B	9
ENGL	5	AMERICAN LITERATURE	3	B	9			15 54 3.6000	15		54
MATH	140	DIFFERENTIAL EQUATIONS	3	B	9			146 450 3.08231	146		450
PHYS	12	GENERAL PHYSICS	4	B	12						
TAM	101	STATICS	3	B	9						
		13 39 3.0000	13		39						

COMMITTEE ACTION:

IDENT NUMBER 233-80-7377

LAST NAME DDEFFINGER

FIRST NAME ROBERT

MIDDLE NAME CARL

JP

DATE OF BIRTH 02/28/50

DATE OF ADMISSION FALL 1973

SEX M

DEGREE SOUGHT M S

MAJOR A E

EARNED DEGREES W VA U

B S

05/73

HOME ADDRESS

COURSE	NO.	TITLE	CREDIT	GRADE	COURSE	NO.	TITLE	CREDIT	GRADE
E	351	FALL TERM 1973	2.0	A					
E	402	ENVIRON ENGR BLDGS	3.0	B					
E	545	ARCHITECTURAL ENGR SEMINAR	1.0	A					
E	430	WINTER TERM 1974	3.0	A					
E	458	ARCHITECTURAL ENGR ADV ARCH ACSTCS	3.0	B					
E	542	SPRING TERM 1974	2.0	B					
E	548	PROBLEMS&RESEARCH STRUCT DES DYN LDS	3.0	B					
E	546	SUMMER TERM 1974	3.0	A					
MCH	509	THIN CONC STR PLATES & SHELLS	3.0	B					
MCH	524A	FALL TERM 1974	3.0	AU					
E	513	MATH METHS IN ENGR CONVECTION	3.0	B					
E	542	WINTER TERM 1975	1.0	A					
E	600	PROBLEMS&RESEARCH RESEARCH	4.0	R					
E	498	SPRING TERM 1975	3.0	AU					
E	600	SOLAR ENGY BLD SYS RESEARCH	3.0	R					
E	600	SUMMER TERM 1975	6.0	A					
E	600	RESEARCH							

SPECIAL ACTIONS AND NOTES

R 1976 M S CONFERRED

ISSUED TO STUDENT

GRADING SYMBOLS
PASSING GRADES: A, B, C
FAILING GRADES: D, F
GRADE POINTS
A = 4 B = 3 C = 2 D = 1 F = 0

AVERAGE COMPUTED ON BASIS OF EARNED GRADES IN 400 and 500 COURSES

1 CREDIT = 1 SEMESTER HOUR

OTHER SYMBOLS

TERM	MAJOR	CUMULATIVE CREDITS	CUMULATIVE GRADE PTS.	AVERAGE	TOTAL CREDITS EARNED
LL 73	A E	4.0	13.0	3.25	4.0
NTER 74	A E	10.0	34.0	3.40	10.0
RING 74	A E	15.0	49.0	3.27	15.0
MMER 74	A E	21.0	70.0	3.33	21.0
LL 74	A E	24.0	79.0	3.29	24.0
NTER 75	A E	25.0	83.0	3.32	29.0
RJ 75	A E	25.0	83.0	3.32	32.0
MML 75	A E	31.0	107.0	3.45	38.0

AU = AUDIT NRC = NOT RESIDENT CREDIT W = WITHDREW
R = RESEARCH NDC = NOT DEGREE CREDIT WP = PASSING
DF = DEFERRED GRADES BELOW C AND WF = FAILING
P = PASSED COURSES BELOW 400 WN = NO GRADE
(NO CREDIT) LEVEL

THIS IS A TRUE AND CORRECT COPY OF THE OFFICIAL RECORD OF THE ABOVE NAMED STUDENT. WHEN SIGNED AND SEALED IT IS AN OFFICIAL TRANSCRIPT. STUDENT IN GOOD STANDING UNLESS STATED OTHERWISE.

RECORDER

DATE
SLAI

The West Virginia Board of Architects

certifies that

RODNEY ALLEN PAULEY

is registered and authorized to practice
Architecture in the State of West Virginia.

In testimony whereof this certificate has been issued
by the authority of this board.

Certificate Number 4302

The registration is in good standing until June 30, 2013.



Leya C. Lewis

Board Administrator

The West Virginia Board of Architects

certifies that

RYAN JOSEPH SINCLAIR

is registered and authorized to practice
Architecture in the State of West Virginia.

In testimony whereof this certificate has been issued
by the authority of this board.

Certificate Number 4244

The registration is in good standing until June 30, 2013.



Leya C. Lewis

Board Administrator

West Virginia Institute of Technology



Upon recommendation of the Faculty and by authority
of the West Virginia Higher Education Interim Governing Board
hereby confers upon:

Stephen Edward Hedrick II

the degree of

Bachelor of Science

Civil Engineering

together with all the rights, privileges, and honors therewith appertaining.

In Testimony Whereof, the signatures of the duly authorized officers
have been affixed at Montgomery, West Virginia

May 3, 2001

Karen R. LaRow

President, West Virginia Institute of Technology

Stephen D. Goodman

Dean, Leonard E. Fisher College of Engineering

The Trustees
of
The University of Tennessee

on the recommendation of the Faculty have conferred on

Stephen Edward Hedrick II

the degree of

Master of Science

*with all the Rights Privileges and Honors thereunto appertaining
In witness whereof this diploma is granted and the Seal of the
University and the signatures of the President of the University and the
Secretary of the Board of Trustees are herewith affixed*

*Given at Knoxville in the State of Tennessee this sixteenth day of August
in the year of our Lord two thousand three
and of the University the ten hundred and ninth*



Catherine J. Minell
Secretary of The University of Tennessee

James H. ...
President of The University of Tennessee



West Virginia State Board of Registration
for Professional Engineers

STEPHEN E HEDRICK II
WV PE # 017551

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

EXPIRES JUNE 30, 2013

The Trustees
of
The University of Tennessee

on the recommendation of the Faculty have conferred on

Rodney A. Pauley

the degree of

Bachelor of Architecture

with all the Rights, Privileges, and Honors thereunto appertaining.
In witness whereof this diploma is granted, and the Seal of the
University, and the signatures of the President of the University, and the
Secretary of the Board of Trustees are hereunto affixed.

Given at Knoxville in the State of Tennessee this fifteenth day of May
in the year of our Lord nineteen hundred and ninety-two
and of the University the one hundred and ninety-eighth.



Bennett E. Progen
Secretary of the Board of Trustees

Joseph Johnson
President of The University of Tennessee

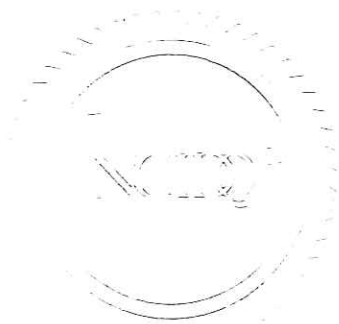
Certificate of Recognition

The National Council for Interior Design Qualification
formally acknowledges that

Jill M. Watkins

has satisfied the eligibility requirements of the Council
and successfully passed the standard NCIDQ examination

Given under our hands and seal of the Council this
1st day of October in the year 1997



Rinda A. Smith

PRESIDENT

Arvi M. White

DIRECTOR OF FINANCE/ADMINISTRATION

The Trustees
of
The University of Tennessee

on the recommendation of the Faculty have conferred on

Jill M. Watkins

the degree of

Bachelor of Science in Interior Design

*with all the Rights Privileges, and Honors, thereunto, appertaining
In witness whereof, this diploma, is granted, and the Seal of the
University, and the signatures of the President of the University, and the
Secretary of the Board of Trustees, are hereunto, affixed.*

*Given at Knoxville in the State of Tennessee this fourteenth day of May
in the year of our Lord nineteen hundred and ninety-three
and of the University the one hundred and ninety-ninth.*



Beaumont E. Progen
Secretary of the Board of Trustees

Joseph Johnson
President of The University of Tennessee

NCQLP™

National Council on Qualifications
for the Lighting Professions

*The National Council on Qualifications for the
Lighting Professions certifies that*

MICHAEL ABERNETHY

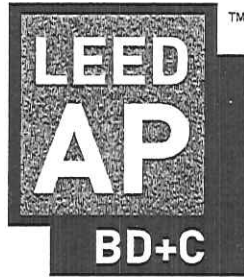
has met all of the qualifications for the LC credential.



Jonathan Linn

Jonathan Linn, LC
2009 NCQLP President

Exp: 12/31/2012



THIS CERTIFICATE HEREBY CERTIFIES THAT

Jill Watkins

HAS ATTAINED THE DESIGNATION OF

LEED AP BUILDING DESIGN + CONSTRUCTION

BY DEMONSTRATING KNOWLEDGE OF GREEN BUILDING PRACTICE REQUIRED FOR
SUCCESSFUL IMPLEMENTATION OF THE LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
(LEED®) GREEN BUILDING RATING SYSTEM™.

A handwritten signature in black ink, appearing to read "Shay R. ...".

Chairperson

A handwritten signature in black ink, appearing to read "Peter Templeton".

Peter Templeton, GBCI President

June 30, 2010

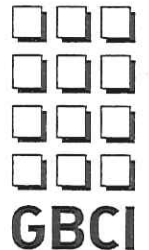
Date Issued

27706

Identification Number

June 29, 2012

Exp. Date



Your ACTIVE PE renewal fee has been received...

Your ACTIVE PE renewal fee has been received. Your pocket card indicating you are entitled to practice engineering in West Virginia until June 30, 2013 may be detached and used until that date unless invalidated as a result of Board audit of your renewal form or formal disciplinary action.

IMPORTANT REMINDERS:

1. Please include your WV ACTIVE PE license number on any correspondence to this office.
2. Please sign the back of this pocket card and carry the registration with you.
3. You are required to immediately notify the Board, in writing, of the following: loss or theft of license or seal, any name change, any address change, or any employment change.

JOSEPH T CARNEY
WV PE # 007254
111 HAYES AVENUE
CHARLESTON, WV 25314

West Virginia State Board of Registration
for Professional Engineers
300 Capitol Street, Suite 910
Charleston, West Virginia 25301
304-558-3554 Phone
800-324-6170 Toll Free

THIS IS YOUR RENEWAL PAYMENT RECEIPT
(in addition to your secondary records of either a
canceled check or credit card statement, as well
as a confirmation email and printed confirmation
page if renewing via our website)
PLEASE SAVE THIS FOR YOUR RECORDS



West Virginia State Board of Registration
for Professional Engineers

JOSEPH T CARNEY
WV PE # 007254

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

EXPIRES JUNE 30, 2013

State of West Virginia



Fairmont State College

This Diploma Makes Known

*That the State College System of West Virginia upon the recommendation
of the faculty of the College has conferred upon*

Mark Allen McGettigan

the degree of

Bachelor of Science in Engineering Technology

Cum Laude

*In Testimony thereof, the signatures of the duly authorized officers of the State
College System of West Virginia and of the Faculty of the College have been affixed.*

Done at Fairmont, West Virginia, this eighteenth day of December, 1999.

STATE COLLEGE SYSTEM OF WEST VIRGINIA

Ronda Moore Lucht

CHAIR OF THE BOARD OF DIRECTORS

Cipyard M. [Signature]

CHANCELLOR

J. W. [Signature]

COLLEGE

[Signature]

PROVOST AND VICE PRESIDENT FOR ACADEMIC AFFAIRS

2
0
1
3



State of West Virginia

Board of Professional Surveyors
JAMES THOMAS RAYBURN

License # 2024

Is a PROFESSIONAL SURVEYOR who has qualified for a license under Chapter 30, Article 13A, *Code of West Virginia*, and has met the requirements for license renewal for the period ending June 30, 2013

Issued: July 1, 2012
Expires: June 30, 2013

West Virginia Board of Professional Surveyors
The attached cards certify that you are a licensed Professional Surveyor in the State of West Virginia until June 30, 2013.

416 Airport Road, Suite 1
Sutton, West Virginia 26601
Phone (304) 765-0315 Fax (304) 765-0316
E-mail: wvbps@wv.gov Website: www.wvbps.wv.gov

2
0
1
3

State of West Virginia
Board of Professional Surveyors
ANNUAL LICENSE RENEWAL



This license certifies that the individual listed below is a PROFESSIONAL SURVEYOR who has qualified for a license under Chapter 30, Article 13A, *Code of West Virginia*, and has met the requirements for license renewal for the period ending June 30, 2013. This license must be displayed at the licensee's principal place of practice. (*West Virginia Code §30-13A-19*)

Board Members

Roy E. Shrewsbury, II, PS
Nelson B. Douglass, PS
Mark H. Hornish, PS
R. Michael Shepp, PS
Anthony J. Sparacino, Jr.

Board Administrator

Dennis D. Jarrell



JAMES THOMAS RAYBURN

License #: 2024

Issued: July 1, 2012

Expires: June 30, 2013

Chairman

Secretary



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

**WILLIAM S LEROSE
WV PE # 015178**

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

EXPIRES JUNE 30, 2013



**WEST VIRGINIA STATE BOARD
OF LANDSCAPE ARCHITECTS**

This certifies that

Jeffrey L. Nelsen

is registered as

LANDSCAPE ARCHITECT

Certificate No. **174**

Expires: **6/30/13**


Licensee's Signature



West Virginia State Board of Registration
for Professional Engineers

TIMOTHY B CART
WV PE # 010023

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

EXPIRES JUNE 30, 2013

WEST VIRGINIA UNIVERSITY



THE COLLEGE OF ENGINEERING

KNOW ALL PERSONS BY THESE PRESENTS
THAT THE UNIVERSITY OF WEST VIRGINIA BOARD OF TRUSTEES
UPON THE RECOMMENDATION OF THE FACULTY
HAS CONFERRED UPON

CRAIG MILLER

THE DEGREE OF

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

WITH ALL THE RIGHTS, HONORS AND PRIVILEGES THEREUNTO
APPERTAINING, WITNESS THE SEAL OF THE UNIVERSITY
AND THE SIGNATURES OF ITS DULY AUTHORIZED OFFICERS
HEREUNTO AFFIXED THIS FOURTEENTH DAY OF MAY,
NINETEEN HUNDRED NINETY-FIVE

Neil S. Becklew

PRESIDENT OF THE UNIVERSITY

Robert M. Deane

DEAN OF THE COLLEGE

John R. Holladay

CHAIR, UNIVERSITY OF WEST VIRGINIA
BOARD OF TRUSTEES

Charles W. Manning

CHANCELLOR, UNIVERSITY OF WEST VIRGINIA
BOARD OF TRUSTEES

Your ACTIVE PE renewal fee has been received...

Your ACTIVE PE renewal fee has been received. Your pocket card indicating you are entitled to practice engineering in West Virginia until June 30, 2013 may be detached and used until that date unless invalidated as a result of Board audit of your renewal form or formal disciplinary action.

IMPORTANT REMINDERS:

1. Please include your WV ACTIVE PE license number on any correspondence to this office.
2. Please sign the back of this pocket card and carry the registration with you.
3. You are required to immediately notify the Board, in writing, of the following: loss or theft of license or seal, any name change, any address change, or any employment change.

BRIAN C MILLER
WV PE # 015184
429 LAUREL RUN ROAD
CARMICHAELS, PA 15320

West Virginia State Board of Registration
for Professional Engineers
300 Capitol Street, Suite 910
Charleston, West Virginia 25301
304-558-3554 Phone
800-324-6170 Toll Free

THIS IS YOUR RENEWAL PAYMENT RECEIPT
(in addition to your secondary records of either a canceled check or credit card statement, as well as a confirmation email and printed confirmation page if renewing via our website)
PLEASE SAVE THIS FOR YOUR RECORDS



West Virginia State Board of Registration
for Professional Engineers

BRIAN C MILLER
WV PE # 015184

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

EXPIRES JUNE 30, 2013

The Pennsylvania State University



By Authority of the Board of Trustees and
Upon Recommendation of the Faculty, Hereby Confers Upon

Joseph M. Machnik

the degree of

Associate In Engineering Technology

College of Engineering

In recognition of the completion of the Major in
Architectural Engineering Technology

In Testimony Whereof the Undersigned Have Subscribed Their Names
and Affixed the Seal of the University this month of May, 2007.

James S. Broadhurst
President of the

Graham B. Spanier
President of the University

Robert D. Egan
Executive Vice President

WEST VIRGINIA UNIVERSITY



COLLEGE OF ENGINEERING AND MINERAL RESOURCE

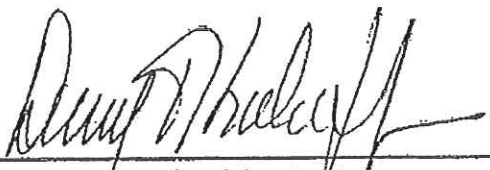
*Know all persons by these presents
that the West Virginia University Board of Governors
upon the recommendation of the faculty
has conferred upon*

TRAVIS WAYNE TAYLOR

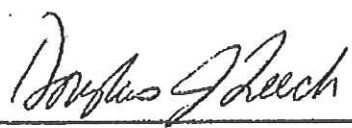
The Degree of

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

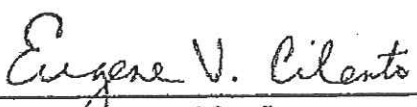
*With all the rights, honors, and privileges thereunto
appertaining. Witness the seal of the university and
the signatures of its duly authorized officers hereunto
affixed this fourteenth day of May,
two thousand six,*



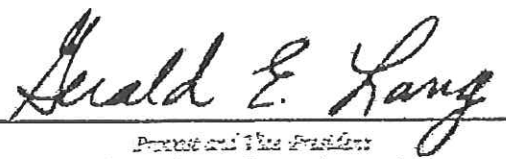
President of the University



*Chair, West Virginia University
Board of Governors*



Dean of the College



*Provost and Vice President
for Academic Affairs*

The State Board of Registration
For
Professional Engineers of West Virginia



Herewith Certifies That

Travis Taylor

having completed the educational requirements satisfactory to the Board and passed the Fundamentals of Engineering Examination consisting of mathematics, the physical sciences and the principles of engineering, is hereby enrolled as an

Engineer Intern
Certificate Number – 9566

After completing a sufficient period of engineering experience of a character satisfactory to the Board, one may take the final examinations to complete the requirements of the Law for registration as a Professional Engineer in the State of West Virginia.



Issued in Charleston, WV on May 17, 2012

President

William E. Pierson
Vice-President

Bhajan S. Saha
Secretary

Richard E. Dlyna
Laura D. Timms, Jr.

State of West Virginia



Fairmont State College This Diploma Makes Known

*That the West Virginia Board of Regents upon the recommendation
of the faculty of the College has conferred upon*

Jack E. Jamison, Jr.

the degree of

Bachelor of Science

*In Testimony thereof, the signatures of the duly authorized officers of the
West Virginia Board of Regents and of the Faculty of the College and
the seal of the West Virginia Board of Regents have been affixed.*

Done at Fairmont, West Virginia, this 15th day of May, 1971.

WEST VIRGINIA BOARD OF REGENTS

Earle T. Andrew

PRESIDENT OF THE BOARD OF REGENTS

Samuel Woodard

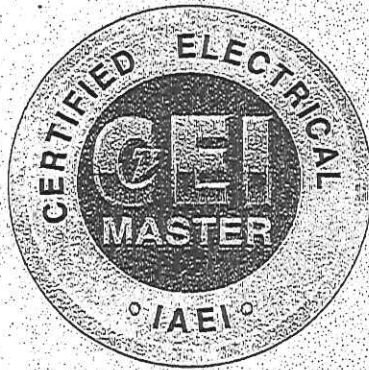
CHANCELLOR

E. R. Seaster

PRESIDENT OF COLLEGE

William A. Boran

DEAN OF ACADEMIC AFFAIRS



Hereby Certifies that



Jack E. Jamison, Jr.

has demonstrated professional qualifications through a written examination based on the National Electrical Code® along with successful completion of field practice and documented expertise in required categories and has hereby achieved certification as

Master Electrical Inspector

Effective through:
September 30, 2013

Certification Identification No.
CEI-M-187



Secretary to the International Board
International Association of Electrical Inspectors



International Code Council
500 New Jersey Avenue, NW
Washington, DC 20001

The individual named hereon is CERTIFIED in the categories shown, having been so certified pursuant to successful completion of the prescribed written examinations.

Jack E. Jamison, Jr.
Not valid unless signed by certificate holder.
ICC Certification attests to competent knowledge of codes and standards.



International Code Council
500 New Jersey Avenue, NW
Washington, DC 20001

The individual named hereon is CERTIFIED in the categories shown, having been so certified pursuant to successful completion of the prescribed written examinations.

Jack E. Jamison, Jr.
Not valid unless signed by certificate holder.
ICC Certification attests to competent knowledge of codes and standards.

- Jack E. Jamison, Jr - 5171444
- Accessibility Inspector/Plans Examiner - Exp. 10/31/2014
- Certified Building Official - Exp. 10/31/2014
- Commercial Building Inspector - Exp. 10/31/2014
- Commercial Mechanical Inspector - Exp. 10/31/2014
- Electrical Inspector - Exp. 10/31/2014
- Master Code Professional - Exp. 10/31/2014
- Mechanical Plans Examiner - Exp. 10/31/2014
- Residential Combination Inspector - Exp. 10/31/2014

INTERNATIONAL
CODE COUNCIL

- Jack E. Jamison, Jr - 5171444
- Building Plans Examiner - Exp. 10/31/2014
- Combination Plans Examiner - Exp. 10/31/2014
- Commercial Electrical Inspector - Exp. 10/31/2014
- Commercial Plumbing Inspector - Exp. 10/31/2014
- Electrical Plans Examiner - Exp. 10/31/2014
- Mechanical Inspector - Exp. 10/31/2014
- Plumbing Plans Examiner - Exp. 10/31/2014
- Residential Energy Inspector/Plans Examiner - Exp. 10/31/2014

INTERNATIONAL
CODE COUNCIL