



# Statement of Qualifications for: Veteran's Memorial Renovations Charleston, WV

RFQ# GSD126417  
December 20, 2011



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WV PURCHASING  
DIVISION



ARCHITECTS & ENGINEERS

December 20, 2011

Ms. Krista Ferrell, Buyer  
Purchasing Division  
2019 Washington Street, East  
Charleston, West Virginia 25305

**Subject: Veteran's Memorial located on the West Virginia State Capitol Complex  
RFQ #GSD126417**

Dear Ms. Ferrell:

ZMM is pleased to submit the attached information to demonstrate our experience and qualifications to provide professional architectural and engineering services for the repairs and restoration of the Veteran's Memorial located on the WV State Capitol Complex. ZMM provided the original architectural, structural, civil, and electrical design services to the Memorial in 1997.

Since 1959, ZMM has been consistently recognized as one of the largest, fully integrated, architecture and engineering firms in the State of West Virginia, and the quality of our design work has been recognized with both state and national design awards. Our commitment to providing high quality, budget conscious design solutions was recently demonstrated for the State of West Virginia Division of General Services on the Renovation of the 10<sup>th</sup> Floor of State Office Building #5 – a project that was delivered nearly \$750K under budget.

Thank you for taking the time to review the attached brochure that outlines detailed information regarding the history, services, personnel, and experience of ZMM. Additionally, please visit our website at [www.zmm.com](http://www.zmm.com) to see the full range of projects that we have designed, and to learn about working with ZMM from a client's perspective. We look forward to meeting with you in the near future to review our qualifications, and to discuss the Veteran's Memorial repairs and restoration project in more detail.

Respectfully submitted,  
ZMM, Inc.

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

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## Project Approach

### Renovation Project Approach: As-Built Documentation, Assessment, and Recommendations

Renovation projects require a unique approach. The first step in a successful renovation project involves conducting a thorough examination of the existing memorial to identify both deficiencies and opportunities. **ZMM** recently completed a similar investigation of State of West Virginia Office Buildings 5, 6, & 7, and would propose to use the same methodology for the Veteran's Memorial Restoration. The purpose of the investigation will be to determine the condition of all major systems, and to identify both immediate and long term improvements that will be required to renovate the memorial.

Due to our role in the design of the memorial, **ZMM** maintains existing plans of the facilities. These plans will be manually verified and used as a basis for documentation. Once the plans are completed, existing conditions will be documented with photographs that are keyed to the plans. Additionally, all major equipment will be identified on the plans, and the condition will be noted in the assessment. The investigation will be conducted by a team of building design professionals including Architects, Civil, Structural, Electrical, and Mechanical Engineers.

Once the investigation is complete, the team of Architects and Engineers will conduct an analysis to develop a list of recommended improvements to the Memorial. These recommendations will be developed with input from the State of West Virginia General Services Division, so that the proposed improvements reflect the State's vision for the project.



Once the investigation effort is complete, the design team will prepare an estimate of the probable construction cost for the General Services Division. **ZMM** maintains historical cost data for our projects, and we are constantly updating and adjusting this information to provide accurate projections. We have an outstanding record of meeting budgets and developing budget conscious design on renovation projects – as demonstrated at the State Office Building #5, 10<sup>th</sup> Floor project, which was delivered \$750K under budget.

The result of the investigation will be a report that will serve as the basis for future project decisions. Developing a long-term strategy will be important for the General Services Division. This comprehensive plan will ensure that all improvements are made in a manner that supports the overall approach for the Veteran's Memorial Restoration. As the State begins undertaking the improvements to Building 25, **ZMM** will provide complete design services with the same team that conducted the investigation. Our unique approach to providing professional services on renovation project, in addition to our recent experience providing similar services throughout the Capitol Complex, will help ensure the success of the Veteran's Memorial Restoration for the General Services Division.





- A. Firm Contact: Adam R. Krason, AIA, NCARB, LEED-AP  
Principal  
ZMM, Inc.  
222 Lee Street, West  
Charleston, WV 25302  
304.342.0159  
[ark@zmm.com](mailto:ark@zmm.com)



Signature

B. Team Member Organization

Name	Role
Adam R. Krason, AIA	Principal, Project Manager
Bob Doeffinger, PE	Mechanical Engineer
Steve Hedrick, PE	Structural Engineer
Mary Jo Cleland, PE	Civil Engineer
Scot Casdorph, PE	Electrical Engineer
Nathan Spencer, AIA	Architect
Glenn Savage, CSI-CDT	Construction Administrator

- C. ZMM is a full service architecture and engineering firm and will be the lead on this project with no consultants
- D. ZMM is uniquely qualified to provide design/Repairs/Restoration services of the Veteran's Memorial located on the West Virginia State Capitol Complex. Please note that examples of our experience providing design services on similar projects can be found in Section 4. ZMM is capable to handle the design services for this project for the General Services Division.
- E. ZMM understands and agrees that any and all work produced as a result of the contract becomes the property of the State of West Virginia General Services Division and can be used or shared as deemed appropriate by the Owner
- F. ZMM has been providing design services in the State of West Virginia for more than fifty years. During this time our work has regularly conformed to all local, State, and Federal regulations. Additionally, we regularly coordinates our work during the design phase with the State of West Virginia Fire Marshal to help ensure compliance with NFPA 101 and Title 87.
- G. ZMM is not involved with any litigation or arbitration proceedings with the State of West Virginia General Services Division or any other State Agency related to the firm's delivery of design services. ZMM is party to a lawsuit in McDowell County brought by residents close to a project designed by ZMM for the local school district. During the course of the construction work, which included the relocation of a WV secondary roadway, the WV Dept of Highways decided to provide a temporary roadway to bypass construction. This temporary by-pass, not designed or the responsibility of ZMM, allegedly caused dust and other issues for the plaintiffs. Since ZMM had no design or other responsibility for the roadway that brought rise to the alleged dust and inconvenience, we feel that we will be released by summary judgement. Depositions have been scheduled.



LOCATION:  
222 Lee Street, West  
Charleston, WV

CONTACT:  
Phone 304.342.0159  
Fax 304.345.8144  
[www.zmm.com](http://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





ZMM has been dedicated to the integrated approach to building design which is unique to architectural firms of our size. Our past successful experience demonstrates that providing multi-disciplined services within one organization results in a fully coordinated project. ZMM has the qualified professionals available to provide services throughout the duration of a project from the initial planning phases through post-occupancy evaluations and beyond.

### Advantages of an integrated Design Approach:

- The Owner has a Single Point of Design Responsibility
- Improved Design Schedule
- Improved Coordination of Documents
- Improved Construction Phase Services
- Well Coordinated Documents Lead to Better Bids for the Owner

Additionally, ZMM is constantly working to improve the services we offer by addressing emerging and evolving trends that impact the design and construction market. ZMM has eight LEED accredited Professionals on staff to address the needs of our clients who are interested in designing buildings that meet the US Green Building Council's standards. This continues ZMM's active implementation of sustainable design principles on our projects.

**ZMM has maintained an average of forty (40) employees over the last five years. Our team has the expertise to provide the services below:**

### **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

# Quality Assurance



At ZMM, we strive to be the best. Our Quality Assurance Program is one step in the process of exceeding our clients' expectations. Our QA/QC Program is led by Mr. Rod Watkins, REFP, who brings more than 30 years of experience ensuring the quality of every ZMM project.

## **1. Selecting the Project Team**

ZMM's diverse staff ensures that each project team is made up of highly qualified members, each dedicated to the project's success. Project team members are selected based upon relevant experience, and ability to help achieve the client's vision.

## **2. Identifying Project Requirements**

Project team members are fully integrated in each phase of the design process, ensuring a quality project from the beginning, to take advantage of early sustainable design decision-making. The project requirements are included in a 'Basis of Design' that each member of the project team can access. The 'Basis of Design' helps guide important project decisions.

## **3. Identifying Client Expectations**

Knowing and understanding our clients' expectations is our goal. This knowledge gives ZMM a baseline for exceeding expectations.

## **4. Ongoing Project Reviews**

As part of the ongoing project reviews, we conduct quality assurance evaluations during each stage of the project:

- Schematic Design Phase
- Design Development Phase
- Construction Documents Phase
- Construction Administration Phase

ZMM has developed a series of QA/QC review documents that are completed during each phase, and include a programmatic review, technical review, and review of the project schedule and budget.

## **5. Post Project Review**

At the completion of every project, ZMM staff members participate in a learning session to gain insight useful for future projects. These reviews typically include participation from the owner and the contractor

## **6. Staff Training, Assessment and Enhancement**

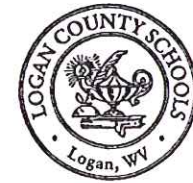
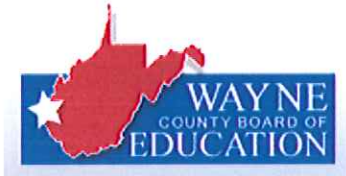
Ongoing staff development and training is very important to ZMM. Providing increased opportunities for learning and advancement leads to improved employee performance more successful projects.



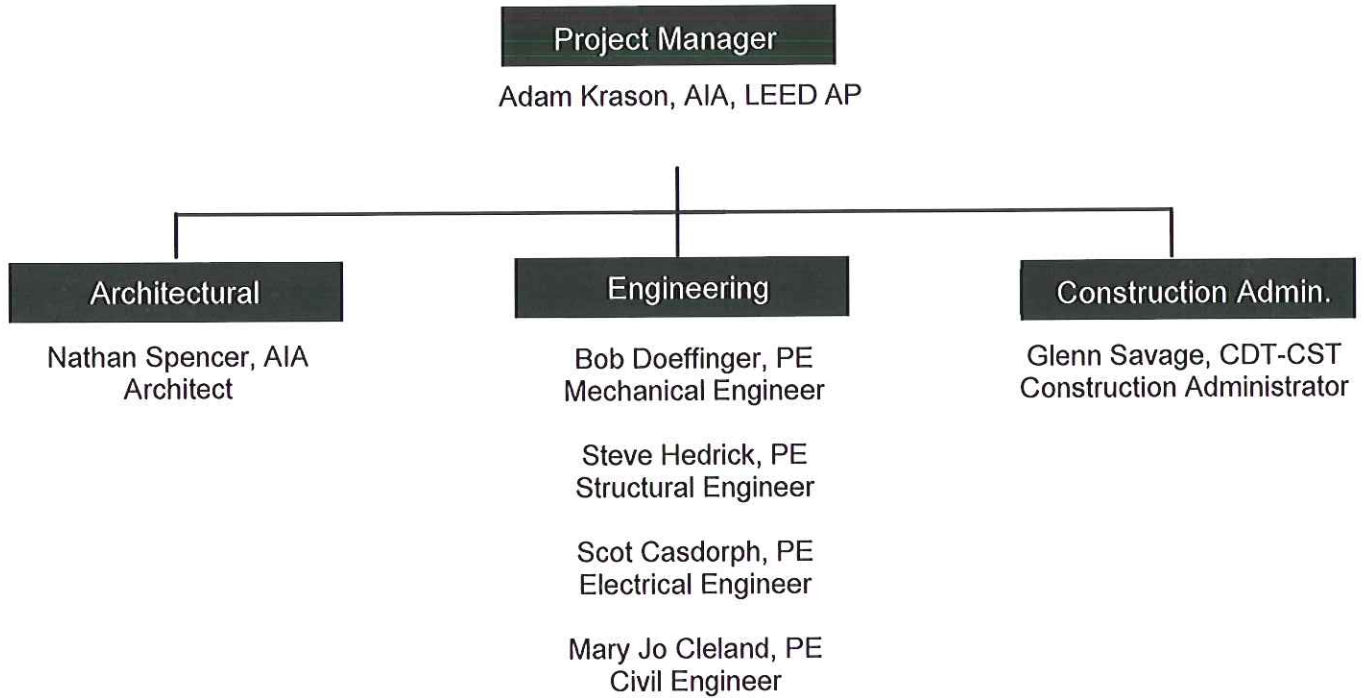
## Quality Assurance



The quality of our work is key to our continued success and repeat client base.



A. Organizational Chart (Resumes Attached)



- B. ZMM has the in-house capacity and experience to complete the design services within the project time frame and the proposed project schedule.





**Role**

Architect, Principal

**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**

**State Office Building #5, 10<sup>th</sup> Floor Renovation, Office of Technology, Charleston, WV.** Mr. Krason led an architectural and engineering team that completed a detailed assessment of State Office Buildings 5, 6, & 7. Once the assessment was complete, ZMM had the opportunity to implement the proposed

**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
- WV Qualification Based Selections Council, President-Elect, 2011
- Leadership WV 2010
- Charleston Rotary
- West Side Main Street, Board of Directors 2008 -2010
- City of Charleston Land Trust 2008 - 2011
- West Side Elementary School LSIC, Volunteer



improvements on the 10<sup>th</sup> Floor of State Office Building #5 for the Office of Technology. The improvements, aiming for LEED-CI Certification, re-oriented the layout by drawing all private offices into the building core, providing access to daylight and views for all employees. The design also utilized acoustical ceiling clouds and bulkheads to maximize the acoustical performance, while also increasing the volume of the space.

**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 was also responsible for managing the production effort for the billeting (hotel) expansion, which increased the total billeting capacity at the JITEC to 600 rooms. The project is aiming for LEED Silver Certification.

**Bridgemont Community and Technical College Davis Hall Renovation, Montgomery, WV.** Mr. Krason led an architectural and engineering investigation into the condition of Davis Hall to help Bridgemont Community and Technical College to develop a scope for the current renovation project, as well as a plan to undertake deferred maintenance at the facility. The project scope included remedying several life safety deficiencies, as well as improvements to the building envelope.

**Construction and Facilities Management Office Expansion, West Virginia Army National Guard, Charleston, WV.** Mr. Krason was responsible for the programming, architectural design, and project management of the office expansion. The project included the renovation and addition to an existing pre-engineered metal building. The design, which was honored with a 2008 AIA Merit Award, focused the client's resources on a new entry and corridor that separated the existing office space from the addition.

**Judge Black Courthouse Annex, Wood County Commission, Parkersburg, WV.** Mr. Krason was responsible for the programming and design of the adaptive reuse of a former commercial space and movie theaters into a modern courthouse annex. The Judge Black Annex included two independent circulation paths – a secure entry and lobby for access to the Family Court and Prosecuting Attorney, and public access to the Assessor and Sheriff's Tax Department. The facility also houses several large public meeting rooms.

**The Boulevard at 2412, Charleston, WV.** Mr. Krason was responsible for the design of the proposed Kanawha Boulevard Condominium project. The sixty unit project, located in the East End Historic District, included a design that increased in height as it stepped back from the Kanawha River, providing the opportunity for a series of outdoor living areas, while also respecting the massing of the adjacent residences in the Historic District. Mr. Krason also assisted with developing marketing materials for the project.

**Edgewood Elementary School, Charleston, WV.** Mr. Krason is currently participating on a design team that is developing the new Kanawha County Elementary School on Charleston's West Side. The school is being designed as a 21<sup>st</sup> Century Learning Environment, with a focus on integrating technology into the delivery of the curriculum. Instructional areas will be located off of an open 'exploratorium' that is being designed to function like a children's museum, providing a variety of learning opportunities, and flexible educational spaces. The school will also visibly integrate sustainable design principles to serve as a teaching tool for the students. Mr. Krason is currently working with students from Watts and Robbins Elementary Schools in Kanawha County, assisting them in an effort to actively participate in the design process.

#### **Awards and Acknowledgements:**

AIA Honor Award (2011): WVARNG Joint Interagency Training and Education Center (JITEC)

AIA Honor Award (2011): State Office Building #5, 10<sup>th</sup> Floor Renovation

AIA Merit Award (2009): WVARNG Construction and Facilities Management Office

Organizer: Making the Business Case for Sustainability Conference, University of Charleston (2010)

Speaker: West Virginia Sustainability Summit, Discover the Real West Virginia Foundation (2010)

Speaker: Sustainable Schools West Virginia Summit, WVU (2009)

Article: The West Side Needs Structural Help, Charleston Daily Mail, January 2005

Article: Memorial to Vertical Towers: A Critical Review, West Virginia Executive, Summer 2004



## **Robert Doeffinger, PE**



### **Role**

Engineering Principal

### **Professional Registrations**

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

As, 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**

**West Virginia Research, Education, and Technology – Building 704, South Charleston WV.** Mr. Doeffinger is the engineering principal-in-charge of preparing a life safety analysis of the building as well as design services to improve the exterior façade of Building 704 at the WV Research, Education, and Technology Park. Building 704 had previously been utilized as a campus maintenance facility by Union Carbide and DOW Chemical. Bridgemont began utilizing the facilities for instruction in the Spring of 2011.

### **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, Bridgemont Community and Technical College
- City of Pt. Pleasant, WV – 2<sup>nd</sup> Ward Councilman for 20 years



**West Virginia Army National Guard, Joint Interagency Education and Training Center, Camp Dawson, WV.** 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, Pittsburgh, PA.** 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 -ton chilled water plant and 1,500,000 cfm variable volume system for tenants and constant volume air system for common areas and an engineered smoke control system. The most recent project is a 2011, 100,000 square foot expansion of tenant spaces, a renovation of the food court, and a 1,250-ton chiller addition to the central chilled water plant.

**Bridgemont Community and Technical College Davis Hall Renovation, Montgomery, WV.** Mr. Doeffinger led an architectural and engineering investigation into the condition of Davis Hall to help Bridgemont Community and Technical College to develop a scope for the current renovation project, as well as a plan to undertake deferred maintenance at the facility. The project scope included remedying several life safety deficiencies, as well as improvements to the building envelope.

**NGK Oxygen Sensor and Spark Plug Plant, Sissonville, WV.** Mr. Doeffinger was in charge of engineering design of the 250,000 SF NGK facility. The most recent 130,000 SF expansion moved NGK's spark plug production for the west coast to West Virginia. For both the oxygen sensor plant and spark plug plant Mr. Doeffinger designed a cycle water system for the manufacturing equipment.

**The Boulevard at 2412, Charleston, WV.** Mr. Doeffinger was on the design team for the proposed Kanawha Boulevard Condominium project. The sixty unit project, located in the East End Historic District, included a design that increased in height as it stepped back from the Kanawha River, providing the opportunity for a series of outdoor living areas, while also respecting the massing of the adjacent residences in the Historic District.



### Role

Architect

### Professional Registrations

Registered Architect (WV)

Mr. Spencer is responsible for coordinating the efforts of the design team in preparing thorough and clear design documents. He has experience in all phases of design working on a wide range of building types including; military, educational, office, justice, and residential.

He has worked on several projects that are currently pursuing LEED certification. In addition to production, Mr. Spencer, is also experienced in 3d modeling. He has worked on several preliminary concept study models as well as high quality renderings and 3d models later in the design process. Mr. Spencer is also experienced in high quality physical models.

Mr. Spencer began his career in architecture with ZMM in 2003, working as a summer intern. After graduating in 2003, he began working at ZMM full time.

### Project Experience

**Judge Black Courthouse Annex, Wood County Commission, Parkersburg, WV.** Mr. Spencer assisted with the design and programming of the adaptive reuse of a former commercial space and movie theaters into a modern courthouse annex. The Judge Black Annex included two independent circulation paths – a secure entry and lobby for access to the Family Court and Prosecuting Attorney, and public access to the Assessor and Sheriff's Tax Department. The facility also houses several large public meeting rooms.

### **Tucker County Courthouse Annex, Parsons, WV.**

Mr. Spencer is the Project Architect for the Courthouse Annex renovation project. The Annex is a 4-story, 21,000 Square Foot building that is adjacent to the Tucker County Courthouse. The annex will house spaces for the Circuit Court, Circuit Clerk, Family Court, Magistrate Court, Prosecuting Attorney, County Commission, County Clerk, Community Corrections, and Probation Office.

### Education

Bachelor of Architecture, University of Tennessee, 2007

### Employment History

2009 - Present, Architect, ZMM

2007 - 2009, Intern Architect, ZMM

2003 - 2007, Summer Intern, ZMM

### Civic Affiliations

- American Institute of Architects, Member



**West Virginia Army National Guard, Joint Interagency Education and Training Center, Camp Dawson, WV.** Participated in the schematic design of the 180,000 SF addition to the Regional Training Institute at Camp Dawson. Mr. Spencer was also responsible for coordinating the production effort for the billeting (hotel) expansion, which increased the total billeting capacity at the JITEC to 600 rooms. The project is aiming for LEED Silver Certification.

**Jackson County Armed Forces Reserve Center, Ripley, WV.** Mr. Spencer participated in the schematic design of the 76,000 SF Reserve Center in Jackson County, West Virginia. Mr. Spencer was also responsible for coordinating the production effort for the project. Mr. Spencer also produced several 3d models throughout the design process. The project is aiming for LEED Silver Certification.

**Morgantown Readiness Center, Morgantown, WV.**

Mr. Spencer was a member of the production team for the 58,000 SF project, which housed the Army Band and associated performance spaces. Mr. Spencer also produced several 3d models throughout the design process. He also participated on all production work through all phases. The project is aiming for LEED Silver Certification.

**New Kanawha County Elementary School, Charleston, WV.** Mr. Spencer is currently participating on a design team that is developing the new Kanawha County Elementary School on Charleston's West Side. The school is being designed as a 21<sup>st</sup> Century Learning Environment, with a focus on integrating technology into the delivery of the curriculum. Instructional areas will be located off of an open 'exploratorium' that is being designed to function like a children's museum, providing a variety of learning opportunities, and flexible educational spaces. The school will also visibly integrate sustainable design principles to serve as a teaching tool for the students. A dental and health clinic is also on site for all enrolled students in the Kanawha County School District.

**Highland Medical Facility, Charleston, WV.** Mr. Spencer was responsible for coordinating the production effort for the 60,000+ SF mental health facility. Mr. Spencer also produced several 3-D models throughout the design process.



### 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:** 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.

**Bridgemont Community and Technical College (Davis Hall, Building 704), Montgomery, WV.** Mr. Hedrick is responsible for the structural design for a design team that is currently preparing construction documents for the renovation to an existing 7-story, 77,000 SF educational building. The

### 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



project scope includes remedying several engineering and life safety deficiencies, as well as architectural improvements to the building envelope.

**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 21<sup>st</sup> Century Learning Environment, with a focus on integrating technology into the delivery of the curriculum. Instructional areas will be located off of an open 'exploratorium' that is being designed to function like a children's museum, providing a variety of learning opportunities, and flexible educational spaces. The school will also visibly integrate sustainable design principles to serve as a teaching tool for the students.

**Wood County Justice Center:** Mr. Hedrick was responsible for the structural design for this adaptive reuse project in Parkersburg WV. The existing 32,000 SF building will create a new Magistrate Court and a Sheriffs Department. The project is targeting a LEED Certification.

**Tucker County Courthouse Annex:** Mr. Hedrick was responsible for the structural design for the courthouse annex addition in Parsons, WV. The Annex is a 4-story, 21,000 Square Foot building that is adjacent to the Tucker County Courthouse. The annex will house spaces for the Circuit Court, Circuit Clerk, Family Court, Magistrate Court, Prosecuting Attorney, County Commission, County Clerk, Community Corrections, and Probation Office.

**Joint Interagency Training and Education Center (JITEC), Kingwood, WV.** Mr. Hedrick was responsible for the overall structural design of the three story billeting addition. The project met the requirements of the building code along with the additional requirements of the Department of Defense for blast and progressive collapse resistance.

**Jackson County AFRC, Ripley, WV.** Mr. Hedrick was responsible for the overall structural design of the single story armory type structure. The project included the design of light weight metal trusses and long-span steel joists in the drill hall.

**West Virginia Housing Development Fund Building, Charleston, WV.** Mr. Hedrick was responsible for the overall structural design of the two story steel frame and masonry building. The structure consisted of a composite concrete floor slab supported by steel beams and columns supported on a deep pile foundation.

#### **Other Firm Experience:**

Mr. Hedrick has researched and developed design criteria for structural insulated panels, prepared designs for earthquake and wind on FRP tanks. His role has also included supervising the work of design engineers in preparation of construction documents.

## Scot Casdorph, PE



### Role

Electrical Engineer

### Professional Registrations

Professional Engineer (WV)

Mr. Casdorph serves as an Electrical Engineer with ZMM providing electrical design services for a vast number of projects consisting of commercial, educational, correctional, institutional, and military facilities.

Mr. Casdorph is responsible for many facets of the project pertaining to electrical design such as interior and exterior lighting, power distribution, data system design, security, fire alarm, low voltage control systems, equipment specifications and performs electrical assessments during construction prior to the project's substantial completion date. Mr. Casdorph has participated on several LEED registered projects using energy conserving methods and utilizing lighting control systems and other means to meet or exceed ASHRAE 90.1, LEED, and energy code requirements.

### Project Experience

**West Virginia Army National Guard, Joint Interagency Education and Training Center, Camp Dawson, WV.** Mr. Casdorph was responsible for the electrical design of the 180,000 SF 3-story billeting/hotel expansion for the Army National Guard campus style facility for training and operational mission support. The expansion more than triples the facility size and increases the total capacity from 189 guest rooms to 600 guest rooms and suites. The project is targeted for LEED Silver Certification.

**Southern WV Community & Technical College, Williamson WV.** Mr. Casdorph was responsible for the electrical power and lighting distribution design of this 22,000 SF higher education facility. This project is being designed to meet the USGBC LEED Silver.

**West Virginia Research, Education, and Technology – Building 704 WV.** Mr. Casdorph is the electrical engineer for building 704 and responsible for electrical power and lighting distribution. Building 704 had previously been utilized as a campus maintenance facility by Union Carbide and DOW Chemical. Bridgmont began utilizing the facilities for instruction in the Spring of 2011.

### Education

Bachelor of Science, West Virginia  
Institute of Technology, 1995

### Employment History

2000 - Present, Electrical Engineer, ZMM  
1995 - 2000 Electrical Controls Systems  
Manager, WV Engineering Firm



**Lincoln County High School, Hamlin, WV.** Mr. Casdorff was responsible for the electrical power distribution throughout the 216,000 SF facility containing high school classes, vocational education, technical community college classes and a community health clinic. The project was a 2007 AIA Honor Award Winner.

**Milton Middle School, Milton, WV.** Mr. Casdorff was responsible for the electrical design of the new 96,000 SF facility housing 700 middle school students grades 6 through 8.

**Jackson County AFRC, Ripley, WV.** Mr. Casdorff was responsible for the electrical design of the 76,000 SF single story military reserve center which serves both the West Virginia Army National Guard and the United States Army Reserves (USAR) units. The multi-use facility provides educational spaces for classrooms, distance learning, physical training and a weapons simulation center. The project is targeted for LEED Silver Certification.

**Glen Jean Armed Forces Reserve Center, Glen Jean, WV.** Mr. Casdorff was responsible for the electrical design of the 102,000 SF military training facility which houses the Armed Forces Reserve Center (AFRC), Military Entrance Processing Station (MEPS), and an Organizational Maintenance Shop (OMS). The AFRC contains the administrative and training space for the 77<sup>th</sup> Brigade Troop Command, the 1863<sup>rd</sup> Transportation Company, and the 150<sup>th</sup> Armored Regiment Company. The MEPS houses their administrative, medical, headquarters, testing and storage functions at the facility. A comprehensive 8,500 SF OMS vehicle maintenance shop provides space for six large service workbays for maintaining the military fleet.

**West Virginia Housing Development Fund Office, Charleston, WV.** Mr. Casdorff was responsible for the electrical design of the 37,000 SF office building which provides natural daylighting into its interior spaces coupled with an automatic dimming system and motorized shade controls. This 2-story administrative facility houses approximately 95 to 100 employees with a flexible open office floorplan utilizing modular underfloor wiring to accommodate any future modifications of the workspace with minimal disruption to the employees. The project is targeted for LEED Silver Certification.

**J.M. Chick Buckbee Juvenile Center, Romney, WV.** Mr. Casdorff was responsible for the electrical design of the maximum security juvenile detention center. The single story 26,000 SF facility houses intake, medical care, recreation, food service and offers educational programs to help rehabilitate young individuals.

**Gene Spadaro Juvenile Center, Mt. Hope, WV.** Mr. Casdorff was responsible for the electrical design of the minimum security juvenile detention center which offers a softer approach to rehabilitation relying more on the affection from the caregivers than the restraints of lockdown helping young individuals make better life decisions.

**Lakin Correctional Facility for Women, Lakin, WV.** Mr. Casdorff was responsible for the electrical design of a dormitory style expansion on site of an existing correctional facility built exclusively for women. The new 124 bed, 24,000SF dormitory style housing unit provides ample amenities and a culinary arts program for the inmate population. An additional 9,500 SF Correctional Industries building was located near the dormitory and offers a garment, sewing and embroidery factory and manufactures inmate clothing, linens and office chairs.



### Role

Civil Engineer

### Professional Registrations

Professional Engineer (WV)

Ms. Cleland is responsible for the site design for ZMM projects. She coordinates with the project architects and mechanical and electrical engineers to integrate the site layout with the building requirements. Ms. Cleland works with the client and the architect to plan the site circulation, parking, and green space. She is responsible for storm water management and utility layout. For sites with environmental concerns, Ms. Cleland coordinates with the appropriate agencies and assists in permit applications.

Ms. Cleland began her career as a 2<sup>nd</sup> Lieutenant in the US Air Force as a project engineer for aerospace projects. After serving four years in the Air Force, she moved back to West Virginia and began her career in civil engineering. She began assisting lead engineers at an environmental and engineering consultant firm with air quality permitting, utility extension projects, and site development projects. After gaining experience at the consultant firm, Ms. Cleland joined ZMM as the civil engineer for the firm. She has experience with urban and rural site, storm water management system, and site design.

### Project Experience

**Wood County Justice Center:** Ms. Cleland was responsible for site design for this adaptive reuse project in Parkersburg WV. The existing 32,000 SF building will create a new Magistrate Court and a Sheriff's Department. The project is targeting a LEED Certification.

### Highland Medical Facility:

Ms. Cleland was responsible for the site development including utility extensions and relocations, stormwater drainage design, site pedestrian and traffic circulation, and parking area layout. Ms. Cleland also coordinated with the City Engineer to meet local requirements for stormwater management, zoning ordinances, and driveway layout. In addition to coordinating with the City, Ms. Cleland was responsible for permitting required by state agencies for site development.

**Harts PK-8 School:** Ms. Cleland was responsible for site design and permitting. The site was constrained by the Guyandotte

### Education

Bachelor of Science in Education,  
West Virginia State University, 2001

Bachelor of Science in Aerospace  
Engineering, United States Naval  
Academy, 1993

### Employment History

2009 - Present, Civil Engineer, ZMM

2002 - 2009, Project Engineer, Potesta &  
Associates, Inc.

1993 - 1997, Aerospace Engineer, United  
States Air Force

### Civic Affiliations

- National Society of Professional Engineers
- West Virginia Society of Professional Engineers



River, State Route 10, and an unmarked cemetery in the middle of the site. The site was laid out to avoid disturbance of the cemetery and create a building pad and access roads to satisfy the client, State Fire Marshall, and vehicular circulation. The site preparation package included building pad grading, rough site grading, and storm water management. Ms. Cleland coordinated with the local utility agencies, WV Department of Transportation, the United States Army Corps of Engineers, the local floodplain manager, and the WV Department of Environmental Protection.

**Family Readiness Center (WVARNG):** Ms. Cleland was responsible for site design for a two story building located on a hillside. Due to the existing slopes, Ms. Cleland performed several analyses to determine the optimal finished floor elevations of the building. The building was set into the hillside to allow for on-grade access to both entrances. The access road was design with handicap parking at both entrances. The client wanted the building to have the least impact as practical for the site development. A large segmental block wall was utilized to limit disturbance of cut slopes.

**West Side Elementary School:** Ms. Cleland was responsible for the site design and stormwater management for this site located within a city block. The site utilities were readily available and minimal grading was required for this site. The challenge was the stormwater management requirements. The pre-construction site conditions were a small school building and a large play field took up most of the site. The post- construction site conditions were the opposite creating a significant increase in stormwater runoff rate. A stormwater retention system was designed to infiltrate the majority of the stormwater and recharge the groundwater.

**Project Experience with Other Firms:** Ms. Cleland assisted with site development projects, utility extensions, pump station design, outlet structure design, and wastewater treatment plant design prior to coming to ZMM. In the eastern panhandle of West Virginia, Ms. Cleland designed the site layout and utilities for a planned hill side community with phased development plans. She assisted on the site utilities and sanitary sewer extension project for a two schools in Southern West Virginia.

Ms. Cleland also has experience with environmental investigations and air quality permitting. She assisted industrial clients with preparation and assembly of air permit application to the West Virginia Department of Environmental Protection. Ms. Cleland coordinated with the agencies through to permit issuance.



### 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

WV State Office Building  
Bridgemont CTC – Davis Hall Renovation  
Mountaineer Middle School  
Nicholas County High School  
East Greenbrier High School  
Mount View High School  
Ronceverte Elementary School  
Gauley Bridge Elementary  
Highland Hospital  
Summersville Hospital Medical Building  
Cacapon State Park  
Blackwater Falls State Park  
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



# VETERANS MEMORIAL

*West Virginia State Capitol Complex*



LOCATION:  
Charleston,  
West Virginia

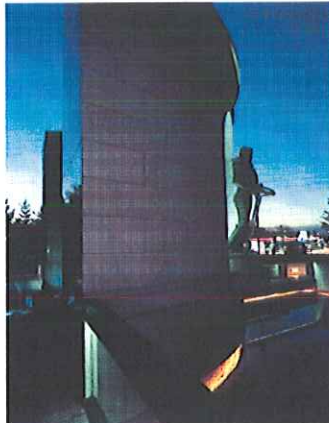
COMPLETION:  
1997

CONTACT:  
Mr. David Oliverio  
Director  
General Services Div.  
1900 Kanawha Blvd. E  
Charleston, WV 25305  
304.558.3517



ZMM provided architectural, structural, civil, and electrical design services for this project. The location of the memorial is placed on the West Virginia State Capitol Complex. The memorial design was conceived by local artist/sculptor P. Joseph Mullins.

This project is a memorial to those citizens of West Virginia that defended the United States of America in the four major wars of the 20th century: WWI, WWII, Korean Conflict, and Vietnam. It is constructed of granite and limestone and reinforced masonry. This memorial pays tribute to the lives lost by engraving each name of the soldier into the interior curved facing. The exterior alcoves showcase four soldier sculptors representing each branch of the military: Army, Navy, Air-force, and-Marines.





# West Virginia Capitol Complex

*Buildings# 5, 6, & 7*



LOCATION:  
Charleston, West Virginia

SIZE:  
500,000 SF

COMPLETION:  
TBA

CONTACT:  
Mr. David Oliverio  
Director  
General Services Div.  
Division  
1900 Kanawha Blvd. E  
Charleston, WV 25305  
304.558.3517



ZMM completed an in-depth analysis of Buildings 5, 6, and 7 on the Capitol Campus. The study included the preparation of as-built plans, as well as an analysis of all building systems, including: Life Safety; Vertical Transportation; Mechanical; Electrical; Data; Façade; Structure; and Roofing. The analysis also included a study related to potential hazardous materials in the facility.



Once the initial analysis is complete, ZMM will develop several options related to the rehabilitation of the existing facility. Prototypical floor plans are being designed currently as well as major infrastructure and utility upgrades. ZMM is also determining sustainable design principles that will be applicable as the renovations are undertaken.



**ZMM also completed the following:**  
Installation/Electrical Services for the Electrical Courtyard Installation, Window Replacements and an Assessment for the State Office Buildings, Roofing Replacement, Retaining Wall as well as complete Renovations to Building #5, 10th floor - Office of Technology.





## State Office Building #5, 10th Floor

Office of Technology



LOCATION:  
Charleston, WV

SIZE:  
22,000SF

COST:  
\$3.7M

COMPLETION:  
2010

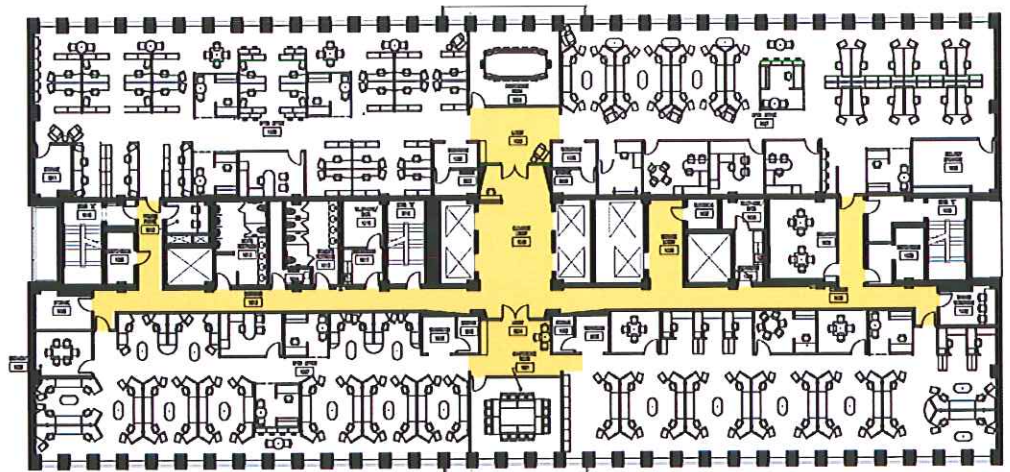
CONTACT:  
Mr. David Oliverio  
Director  
General Services  
Division  
1900 Kanawha Blvd. E  
Charleston, WV 25305  
304.558.3517

AWARD:  
2011 AIA Merit Award  
West Virginia Chapter  
*Achievement in  
Architecture Interiors*



The renovation of the tenth floor of State Office Building #5 on the State of West Virginia Capitol Campus was recently completed for the Office of Technology. The renovation was designed to meet the United States Green Building Council's LEED for Commercial Interiors standard. To commence the project, ZMM conducted a detailed investigation of State Office Buildings 5, 6, & 7, which included recommendations for improvement of the facilities. The renovation of the 10<sup>th</sup> floor of Building #5 was the first major interior renovation project that responded to the recommendations. The renovation was technically intensive, and included demolition of the existing construction back to the building structure, as well as significant hazardous material abatement.

ZMM, working with the State of West Virginia General Services Division, the Real Estate Division, and the Office of Technology developed a strategy to renovate 22,000 SF of space to accommodate 137 employees. The design includes a mix of private and open office space, and responds to current workplace trends. The renovations include a low profile cable management system which maximizes the flexibility of the space. ZMM also developed the interior, furniture, fixture, and equipment design with significant coordination with the Office of Technology. Continued...





## State Office Building #5, 10th Floor



To improve the opportunity for daylighting, office spaces have been "pulled-in" to the core of the building. This decision will allow for daylight to be introduced deep into the interior work areas, and will allow access to the daylight and views for all employees. The perimeter structural bays of the open office areas have a "coffered" ceiling. Ductwork for mechanical distribution is terminated at a bulkhead at the interior edge of the perimeter structural bay, allowing for more open volume and a more contemporary aesthetic.

The design of the 10<sup>th</sup> floor renovation also provided the opportunity to introduce a standard "transverse" core will be developed throughout State Office Buildings 5 & 6. The transverse core includes all of the major entry, meeting, and workroom functions. In addition to the office areas, the elevator lobby has been updated to create a consistent look and level of finish at the entry point to the Office of Technology.





# State of West Virginia

## Capitol Food Court



**LOCATION:**  
Charleston, West Virginia

**SIZE:**  
14,000 SF

**COST:**  
\$3.7 Million

**COMPLETION:**  
2007

**CONTACT:**  
Mr. David Oliverio  
Director  
General Services Div.  
1900 Kanawha Blvd. E  
Charleston, WV 25305  
304.558.3517



This project involved renovating an existing food service area in the WV Capitol Building. The new renovations include a full service kitchen, self serve area and seating for 300 people. ZMM worked with a kitchen consultant and provided demolition drawings, base architectural, mechanical and electrical drawings.

The project included design of the first phase of a wet pipe sprinkler system that will serve the entire Capitol. ZMM also provided the documents to replace the Capitol medium voltage transformers located in the basement vault. ZMM met stringent timeline for a critical construction completion date.





# Joint Interagency Training & Education Center

WVARNG



LOCATION:  
Kingwood, West Virginia

SIZE:  
285,000 SF

COMPLETION:  
Est. 2012

COST:  
\$110 Million

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

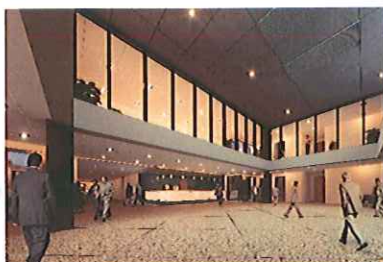
AWARD:  
2011 AIA Honor Award  
West Virginia Chapter  
*Excellence in  
Architecture*



ZMM, 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 check-point 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 design intent is to create a campus environment that integrates existing buildings with new ones 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. Continued...





# Joint Interagency Training & Education Center



Security requirements for the command center influenced the design of the attached, copper-clad "black box" that is an homage to the native rock stratification seen throughout the state.

The building consists of four distinct areas: the Joint Operations Center; a suite of secure training rooms; base headquarters and JITEC administrative offices; and a 6,000-SF server and telecommunications room.

Entry to the Joint Operations Center (JOC) is provided by a secure mantrap adjacent to a dedicated security office. Built to SCIF standards, the JOC contains a state of the art command center housing 48 permanent work stations in a theater-style configuration facing a large video wall, flanked by conference rooms and offices for both officers and support staff. Within the JOC is a secure area consisting of workstations, offices, and two divisible conference rooms with secure video conferencing capabilities. The secure area construction dictates a windowless environment, requiring proper lighting and creative use of materials to create an agreeable work atmosphere.



The 180,000-SF billeting (hotel) expansion more than triples the facility size and increases the total capacity from 189 guest rooms to 600 guest rooms and suites. Designed to relate to the existing architecture with similar scale, materials, textures, and massing, the addition also brings in new elements, such as iconic glazed building corner elements, to integrate the design of the new operations building. A new dedicated lobby with terrazzo tile flooring leads to a monumental stair with terrazzo treads, open risers, and a glass/stainless steel railing for access to the open lounge areas on the second and third floors.



The lobby's design provides a hotel atmosphere, underscored by the new Liberty Lounge, an upscale bar and restaurant area, with wood finishes salvaged from the gymnasium floor in the existing headquarters building. The new six "executive suites", are designed to the full amenities of corporate hotels.



# Construction & Facilities Management Office

WVARNG



LOCATION:  
Charleston, West Virginia

SIZE:  
19,935 SF

COST:  
\$3.5 Million

COMPLETION:  
2008

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

AWARDS:  
2009 AIA Merit Award,  
West Virginia Chapter,  
*Achievement in Architecture*



The Construction and Facilities Management Office (CFMO) Expansion project will bring all of the operations of the CFMO together under one roof. The branches that will occupy this facility include: Director of Engineering, Environmental, Planning and Programming, Facility Operations & Maintenance, Business Management, Resource Management, and Design and Construction. This new facility is located slightly to the front, and adjacent to the existing facility, lending prominence to the new construction, and providing a new aesthetic to the entire complex.



This transitional space was designed to connect the two structures, while maintaining a connection to the outside through use of natural light, direct visual connections to the exterior, large volumes, irregular geometries, and the use of natural materials.

The entry design was coordinated with the Recruiting and Retention building to create an outdoor courtyard, along with new sidewalks, stairs and signage. The entry roof is sloped to provide a greater massing, while a lower canopy provides scale and protection from the elements. Large gathering and work spaces were located on the north elevation to take advantage of large expanses of glazing





# Wood County Justice Center



**LOCATION:**  
Parkersburg,  
West Virginia

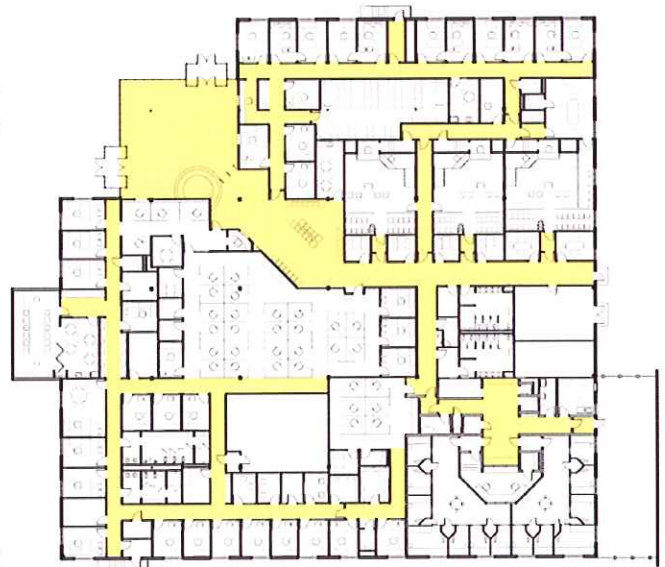
**SIZE:**  
32,000 SF

**COMPLETION:**  
Under Construction

**CONTACT:**  
Mr. Rick Modesitt  
Commissioner  
No. 1 Court Square, Suite  
203  
Parkersburg WV 26101  
304.424.1984



This project was an extensive renovation of a 15 year old, 32,000 square foot, single story office building located in downtown Parkersburg, West Virginia. The building was purchased by the Wood County commission with the purpose of bringing together 3 government functions that had outgrown the 3 separate buildings that they occupied.



The renovated building consists of offices and 3 Courtrooms for the County's Magistrate Court system, public service windows for document pick-up and payment of fines, offices for the Sheriff's Department and Home Confinement and a 12-hour Inmate Holding Center.

Due to the building's new use, the interior was completely demolished leaving only the shell. The building's main entrance was relocated and redesigned to provide a new, more prominent identity to the building and to align with the new parking area created by the demolition of the adjacent existing magistrate court building. The old HVAC system was removed and replaced with a more energy efficient system and new, energy efficient lighting was installed. The project was designed around the U.S. Green Building Council's New Construction and Major Renovation Guidelines with a target of becoming LEED Certified.





# Bridgemont Community and Technical College

## Davis Hall Renovation



LOCATION:  
Montgomery,  
West Virginia

SIZE:  
77,215 SF

COMPLETION:  
Est. March 2012

COST:  
\$4 Million

CONTACT:  
Dr. Jo Harris, President  
619 2nd Avenue  
Montgomery, WV 25136  
304.734.6600



ZMM was selected by Bridgemont Community and Technical College and the West Virginia Community and Technical College System to provide professional architectural and engineering design services for the Renovation of Davis Hall in Montgomery. Davis Hall is a 77,215 SF classroom and laboratory facility that was constructed in 1970 for WVU-Tech. The exterior of the facility consists of architectural pre-cast concrete panels and a curtain wall system. The interior includes an open two story atrium, a large auditorium, and five levels of office and classroom space that is constructed of demountable partitions.



Prior to commencing the design effort, ZMM completed a thorough assessment of the facility. The assessment revealed significant life safety concerns that had not been previously identified, including the use of non-plenum rated plastic insulated wiring throughout the return air plenums, mechanical units located above ceilings in exit stairs, and a lack of adequate fresh air for building occupants. As part of this initial assessment, ZMM assisted in developing a scope of work for the current project, as well as a long range plan for future improvements to Davis Hall.

The scope of the current project includes life safety upgrades (replace non-plenum rated wiring, new fire alarm system), improvements to the building envelope (curtain wall replacement and re-roofing), hazardous material abatement, mechanical improvements (boiler and chiller replacement, outdoor air ventilation system replacement), and interior improvements (replace ceilings and lighting, upgrade furnishings). The budget for the proposed improvements is \$4M, and the design work is scheduled for completion in March of 2012.



# Southside Elementary & Huntington Middle School

Cabell County Schools



LOCATION:  
Huntington, West Virginia

SIZE:  
158,194 SF

COMPLETION:  
2010

COST:  
\$27 Million

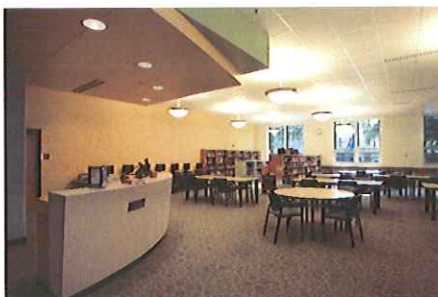
CONTACT:  
Mr. William Smith  
Superintendent  
2850 5th Avenue  
Huntington, WV 25702  
304.824.3033

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



The two schools that previously occupied the site of the New Southside Elementary School and Huntington Middle School were known as Cammack Elementary School and Cammack Middle School. The new facility houses a combined 1,014 Elementary and Middle School students. When the Cabell County Board of Education proposed a \$61M bond issue in 2006, the Huntington community expressed the importance of saving this neighborhood landmark.

The new facilities were designed to blend with the architectural character of the existing facility. More than 70% of the existing building was demolished and the portion remaining was completely renovated. Two new stair towers provide a vertical architectural element that separates the existing structure from the new construction. The result is a cohesive design that blends the unique elements of the former Cammack School into a modern educational complex that exceeds the requirements of 21<sup>st</sup> century learning. Continued...



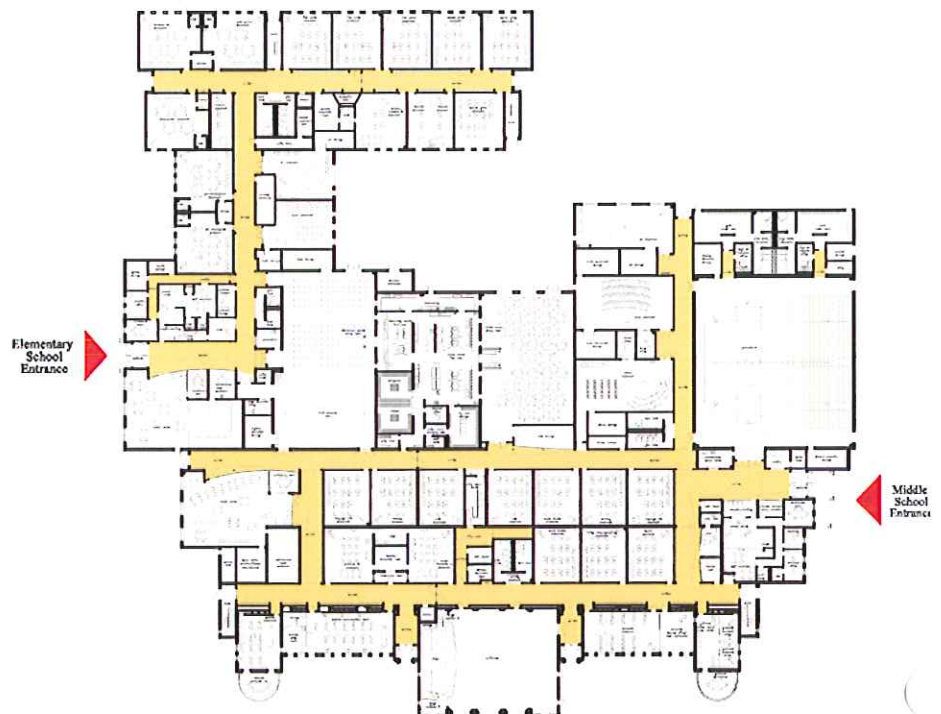


# Southside Elementary & Huntington Middle School



Although the expanded facility houses both an elementary and a middle school, each have their own distinct entrance and administrative complex and the students remain physically separated on opposite sides of the facility. The new schools only share a kitchen, which has been located to serve separate dining facilities.

With the community's support of the bond, ZMM has designed a facility that maintains the historic character of the façade and auditorium, while replacing the remainder of the facility. The community has maintained a landmark, while developing new state of the art elementary and middle schools.





# St. Albans High School

Kanawha County Schools



LOCATION:  
St. Albans, West Virginia

SIZE:  
216,500 SF

COMPLETION:  
2003

COST:  
\$24 Million

CONTACT:  
Dr. Ron Duerring  
Superintendent  
200 Elizabeth Street  
Charleston, WV 25523  
304.348.7732

#### AWARDS:

Impact on Learning Award  
*Effective Transformation*

Education Design Showcase  
*Outstanding Building Design*

American School & University  
*Outstanding Building Design*



One outstanding feature of the completed renovation of St. Albans High School is its unique, inviting physical entryway and the aesthetically pleasing and functional commons/cafeteria area. The commons is a visual focal point of the school creating a natural flow from the front entrance, through the commons to the outside assembly/instructional area, it also serves as a connecting hub between the academic spaces and the physical education and auditorium areas.

Significant green space was retained and enhanced which providing an inviting and safe approach to the high school building. An outside amphitheater, located adjacent to the music and theater departments, provides ample space for music and drama productions as well as a gathering space for students. In response to the students need for more "outside living space" the rear dining plaza was created. It has a visual impact on the interior and provides a flexible learning environment for the students and educators.

The addition of an auxiliary gym, renovations to the auditorium complex, a new media center and other additions and improvements allow spaces for more extensive use by the community. Renovations to the auditorium resulted in a space that is educationally functional and is a source of pride for the students and the entire community. Continued...





# St. Albans High School



Instructional spaces have been designed to be flexible, adaptable and accommodating for the more active, student oriented instructional programs and methods of the district. Classroom and other spaces are bright and welcoming for students and staff and appropriate space and equipment are provided to allow for the efficient and effective delivery of program objectives.

Responding to concerns from students, staff and the community, and due to the condition of existing science facilities, science wing was completely replaced with modern, functional and flexible space and equipment.

Provisions for new and emerging technologies were greatly enhanced throughout the building. The new media center is the central hub for technology and with the inclusion of an appropriate infrastructure, providing flexibility needed for the technology of the future. St. Albans High School was completed during the summer of 2003 and was occupied by the student body at the beginning of the 2003-2004 school year.







2011

Southside Elementary/  
Huntington Middle School  
2011 - Honor Award  
*"Historical Preservation"*  
AIA West Virginia Chapter



2011

Joint Interagency Education  
& Training Center (JITEC)  
2011 - Honor Award  
*"Excellence in Architecture"*  
AIA West Virginia Chapter



2011

State Office Building #5, 10th  
Floor - Office of Technology  
2011 - Merit Award  
*"Architecture in Interiors"*  
AIA West Virginia Chapter



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"*



## Additional Award Winning Design



### **West Virginia Society of Architects Design Honor Awards**

**Corporate Headquarters Facility**  
Blue Cross / Blue Shield of West Virginia  
Charleston, West Virginia

**John XXIII Pastoral Center**  
Wheeling-Charleston Diocese  
Charleston, West Virginia



**Corporate Office Building**  
Contractors' Association of West Virginia  
Charleston, West Virginia

**One Bridge Place Office Renovation**  
Fisher-Bryson Properties  
Charleston, West Virginia



**United States Navy  
Admiral's Commendation**  
**Operations Building Alterations**  
Naval Security Group  
Sugar Grove, West Virginia

### **Construction Specifications Institute Honorable Mention**

**Restoration and Renovation Projects**  
Cottage Renovations to Federal Prison Camp  
Alderson, West Virginia



### **Stonewall Jackson Lake Merit Award**

**Design and Environmental Program**  
Recreation Area Basic Park  
Weston, West Virginia



## Client References



**David Oliverio, Director**  
General Services Division  
1900 Kanawha Blvd. E  
Charleston, WV 25305  
304.558.3517

**Veterans Memorial** - ZMM provided architectural, structural, civil, and electrical design services for this project. The location of the memorial is placed on the West Virginia State Capitol Complex. The memorial design was conceived by local artist/sculptor P. Joseph Mullins. The memorial is constructed of granite and limestone and reinforced masonry. This memorial pays tribute to the lives lost by engraving each name of the soldier into the interior curved facing.

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**Chuck Lawrence, Director**  
Department of Administration  
Real Estate Division  
1409 Greenbrier Street  
Charleston, WV 25311  
304.558.4331

**West Virginia State Office Building #5, 10th Floor (Office of Technology)** - The renovation of the tenth floor of State Office Building #5 on the State of West Virginia Capitol Campus was recently completed for the Office of Technology. The renovation was designed to meet the United States Green Building Council's LEED for Commercial Interiors standard. ZMM, working with the State of West Virginia General Services Division, the Real Estate Division, and the Office of Technology developed a strategy to renovate 22,000 SF of space to accommodate 137 employees.

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**Brigadier General Melvin L. Burch**  
Construction Facilities Management Office  
WV Army National Guard  
1707 Coonskin Drive  
Charleston, WV 25311  
304.561.6450

**Construction & Facilities Management Office** - The Construction and Facilities Management Office (CFMO) Expansion project will bring all of the operations of the CFMO together under one roof. The branches that will occupy this facility include: Director of Engineering, Environmental, Planning and Programming, Facility Operations & Maintenance, Business Management, Resource Management, and Design and Construction. This new facility is located slightly to the front, and adjacent to the existing facility.



**Dr. Jo Harris, President**

Bridgemont Community and Technical College  
619 2nd Avenue  
Montgomery, WV 25136  
304.734.6600

**Bridgemont Community and Technical College** - ZMM was selected to provide professional architectural and engineering design services for the Renovation of Davis Hall in Montgomery. Davis Hall is a 77,215 SF classroom and laboratory facility that was constructed in 1970 for WVU-Tech. The exterior of the facility consists of architectural pre-cast concrete panels and a curtain wall system. The interior includes an open two story atrium, a large auditorium, and five levels of office and classroom space that is constructed of demountable partitions.

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**William Smith, Superintendent**

Cabell County Schools  
2850 5th Avenue  
Huntington, WV 25702  
304.528.5030

**Southside Elementary/Huntington Middle School** - The two schools that previously occupied the site of the New Southside Elementary School and Huntington Middle School were known as Cammack Elementary School and Cammack Middle School. The new facilities were designed to blend with the architectural character of the existing facility. More than 70% of the existing building was demolished and the portion remaining was completely renovated. With the community's support of the bond, ZMM has designed a facility that maintains the historic character of the façade and auditorium, while replacing the remainder of the facility.





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

## Request for Quotation

RFQ NUMBER

GSD126417

PAGE

2

ADDRESS CORRESPONDENCE TO ATTENTION OF:

KRISTA FERRELL  
304-558-2596

\*709055254 304-342-0159

ZMM INC  
222 LEE STREET W

CHARLESTON WV 25302

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DEPARTMENT OF ADMINISTRATION  
GENERAL SERVICES DIVISION  
JOBSITE  
SEE SPECIFICATIONS

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304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS		
11/23/2011						
BID OPENING DATE: 12/20/2011		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
BINDING.						
NO CONTACT BETWEEN THE VENDOR AND THE AGENCY IS PERMITTED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE STATE BUYER. VIOLATION MAY RESULT IN THE REJECTION OF THE BID. THE STATE BUYER NAMED ABOVE IS THE SOLE CONTACT FOR ANY AND ALL INQUIRIES AFTER THIS EOI HAS BEEN RELEASED.						
EXHIBIT 10						
REQUISITION NO.: .....						
ADDENDUM ACKNOWLEDGEMENT						
I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.						
ADDENDUM NO.'S:						
NO. 1 <u>APX</u>						
NO. 2 .....						
NO. 3 .....						
NO. 4 .....						
NO. 5 .....						
I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.						
VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE <u>Ad RK</u>		TELEPHONE <u>304.342.0159</u>		DATE <u>20 DEC 2011</u>		
TITLE <u>Principal</u>		FEIN <u>55-0676608</u>		ADDRESS CHANGES TO BE NOTED ABOVE		

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



**GENERAL TERMS & CONDITIONS**  
**REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at [www.state.wv.us/admin/purchase/vrc/hipaa.html](http://www.state.wv.us/admin/purchase/vrc/hipaa.html) and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

**INSTRUCTIONS TO BIDDERS**

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).





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

WV PURCHASING ACA SECT Fax 304-558-4115

Dec 19 2011 12:45pm P001/003

# Request for Quotation

RFQ NUMBER

GSD126417

PAGE

1

ADDRESS CORRESPONDENCE TO ATTENTION OF

KRISTA FERRELL  
304-558-2596

\*709055254 304-342-0159

ZMM INC  
222 LEE STREET W

CHARLESTON WV 25302

345-8144

DEPARTMENT OF ADMINISTRATION  
GENERAL SERVICES DIVISION  
JOBSITE  
SEE SPECIFICATIONS

304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
12/14/2011				

BID OPENING DATE: 12/20/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
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## ADDENDUM NO. 1

THIS ADDENDUM IS ISSUED TO PROVIDE ANSWERS TO ALL  
TECHNICAL QUESTIONS SUBMITTED IN ACCORDANCE WITH THE  
PROVISIONS OF THE ORIGINAL EXPRESSION OF INTEREST  
(GSD126417).

BOI OPENING DATE REMAINS: 12/20/2011  
BOI OPENING TIME REMAINS: 1:30 PM

\*\*\*\*\* END ADDENDUM NO. 1 \*\*\*\*\*

0001 1 IS 906-07  
A/E SERVICES: DESIGN OF VET MEMORIAL RENOVATIONS

\*\*\*\*\* THIS IS THE END OF RFQ GSD126417 \*\*\*\*\* TOTAL:

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>[Signature]</i>	304-342-0159	20 DEC 2011
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
PRINCIPAL	55-0676608	

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

GSD126417

RFQ No. \_\_\_\_\_

STATE OF WEST VIRGINIA  
Purchasing Division**PURCHASING AFFIDAVIT**

**West Virginia Code §5A-3-10a states:** 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

**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.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "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.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this 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.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

**WITNESS THE FOLLOWING SIGNATURE**Vendor's Name: ZMM, Inc.Authorized Signature: [Signature] Date: 20 DEC 2011State of West VirginiaCounty of Kanawha, to-wit:Taken, subscribed, and sworn to before me this 20<sup>th</sup> day of December, 2011My Commission expires 10/6, 2018.

AFFIX SEAL HERE

NOTARY PUBLIC

[Signature]



Architectural Design  
Interior Design  
Building Programming & Planning  
Construction Administration  
Mechanical Engineering  
Electrical Engineering  
Structural Engineering  
Civil Engineering



"Green" Building Design  
Master Planning  
Site Evaluation & Analysis  
Feasibility Studies  
  
Value Engineering  
Construction Cost Estimating  
Energy Consumption Analysis  
Life Cycle Cost Analysis

# ZMM