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

25302

304-342-0159

Solicitation

NUMBER DJS140002

PAGE

ADDRESS CORRESPONDENCE TO ATTENTION OF:

TARA LYLE

04-558-2544

DIVISION OF JUVENILE SERVICES

SHIP SECOND FLOOR 1200 QUARRIER STREET CHARLESTON, WV

25301

304-558-6029

DATE PRINTED 11/21/2013

\*709055254 ZMM INC

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CHARLESTON WV

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## **CERTIFICATION AND SIGNATURE PAGE**

By signing below, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

ZMM. LOC.	
(Company)	-
ARK	The Continues of the State of t
(Authorized Signature)	
ATAM R - KRAS (Representative Name, Title	
304.342.0159	304, 345, 8194
(Phone Number)	(Fax Number)
12/16/2013 (Date)	
(Date)	

RFQ No. DJS 140002

# 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:**

WITNESS THE FOLLOWING SIGNATURE:

Official Seal
Notary Public, State of West Virginia
Jessica Wolfe
4465 Walnut Gap Rd
Huntington WV 25701
My Commission Expires April 16, 2023

"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 exceed 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.

Vendor's Name: <u>ZMM</u> , いこ	,
Authorized Signature:	
State of West Virginia_ County of Kanawha, to-wit:	
County of Kanawha, to-wit:	
Taken, subscribed, and sworn to before me this $\underline{1}\underline{lack}$ da	ay of December, 2013.
My Commission expires APril 16	, <b>20</b> , 3
AFFIX SEAL HERE	NOTARY PUBLIC POSSICA Wolfe
	Purchasing Affidavit (Revised 07/01/2012)

## **CERTIFICATION AND SIGNATURE PAGE**

By signing below, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

ZMM, INC.	
(Company)	
ACRK	
(Authorized Signature)	
ADAM R. KRASON,	PRINCIPAL
(Representative Name, Title)	
304.342.0159	304.345.8144
(Phone Number)	(Fax Number)
16 DEC . 2013	
(Date)	





December 16, 2013

Ms. Tara Lyle, Senior Buyer Department of Administration, Purchasing Division 2019 Washington Street, East P.O. Box 50130 Charleston, West Virginia 25305-0130

Subject:

Expression of Interest – Expansion and Security Enhancements

Division of Juvenile Services - DJS140002

Dear Ms. Lyle:

ZMM Architects and Engineers is pleased to submit the attached information to demonstrate our experience and our qualifications to provide professional architectural and engineering services for Expansion and Security Enhancements to the Donald R. Kuhn Center, the Gene Spadaro Juvenile Center, and the Sam Perdue Juvenile Center. Established in 1959, ZMM is a Charleston based, full service A/E firm, and is noted for design excellence and client focus. ZMM has an extensive portfolio of juvenile center and correctional facility design, and has provided design services for more than twenty (20) facilities throughout the State, with a total construction cost exceeding \$200M. Additionally, our integrated design approach makes ZMM unique among design firms in West Virginia, and will help to ensure the quality of the services that we will provide.

We are confident that our experience designing multiple Juvenile Centers for the West Virginia Division of Juvenile Services, as well as our recent experience providing design and construction administrative services in operational correctional facilities will make ZMM the ideal partner for this project. ZMM is uniquely qualified to provide professional design services for the Expansion and Security Enhancements for the Division of Juvenile Services for the following reasons:

- Experience Designing Juvenile Centers. ZMM has provided design services for J.M. "Chick" Buckbee Juvenile Center, the James H. "Tiger" Morton Juvenile Center, the Gene Spadaro Juvenile Center, the Robert Shell Juvenile Center, the Vickie Douglass Juvenile Center, and the Davis Center. Additionally, ZMM Architect and Principal Adam Krason, AIA, participated on the team that designed the renovations and additions to the Lorrie Yeager Juvenile Center and Sam Perdue Juvenile Center. The depth of our experience with the Juvenile Centers will ensure the quality of the design, and also allow ZMM to expedite the design phase of the projects.
- Experience Renovating Operational Detention and Correctional Facilities. ZMM Architects and Engineers has significant experience renovating operational juvenile centers, jails, and correctional facilities. Our proposed team for this project includes Mr. Adam Krason, Mr. Rodney Pauley, Mr. Steve Cook, Mr. Hank Walker, and Mr. David Unrue. This team has worked on previous successful renovation projects to West Virginia Juvenile Centers and the West Virginia Regional Jails.

Proximity. All of the design professionals providing services on this project will be located out of our office in Charleston. Our ability to provide integrated design services, as well as our ability to have regular access all three facilities due to our central location, will lead to an improved design and construction process for the West Virginia Division of Juvenile Services.

Thank you for taking the time to review the attached expression of interest which includes our recommended project approach, as well as information regarding the history, services, personnel, experience, and qualifications of ZMM Architects and Engineers. Additionally, please visit our website at <a href="https://www.zmm.com">www.zmm.com</a> to see the full range of projects that we have designed, and to learn about working with ZMM from a client's perspective. We appreciate your consideration for this important assignment, and look forward to continuing our work for the Division of Juvenile Services.

Respectfully submitted,

ZMM, Inc.

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

Principal

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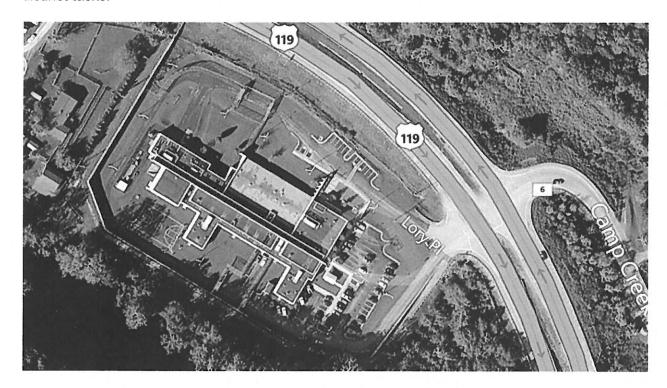
- Client References

Letters of Recommendation



#### A. Project Understanding, Approach, and Methodology

ZMM Architects and Engineers understands that the current project includes the following distinct tasks:



- The addition of a 24 bed maximum security addition to the Donald R. Kuhn Juvenile Center in Julian, WV. The Kuhn Center currently houses 48 secure beds, and is surrounded by a large floodwall. Our approach to this task would include a detailed investigation of the capacity of the existing building systems to support the expansion. ZMM would then recommend situating the addition in a location that would minimize any disruption to the existing operation of the Kuhn Center during the construction phase. The addition would include a 24 bed pod that would be designed to fit seamlessly with the existing facility.
- Converting the Gene Spadaro Center from a staff to a hardware secure facility. ZMM designed the Gene Spadaro Center that opened in 2005. Our experience with the facility will assist with the upgrades to existing controls, cameras, and hardware. ZMM has previously investigated the scope of the required improvements, and recommends improvements to the following systems:
  - Review the security requirements for secure perimeter, day rooms, classrooms and cells and assist in the new security requirements
  - Replace the existing wood doors with level 3 security doors and new lock systems
  - Provide new security doors and frames at sally ports



- Analysis best routing for power and center cable in both surface mounted and recessed locations
- Replace the existing COMTEC equipment and upgrade security head in equipment
- Investigate for UPS Upgrade
- Provide for patching, repairs, painting for all renovated areas
- Provide phasing plan to implement renovation while minimizing disruption to the facility
- Expand the education space and add a vocational building at the Sam Perdue Juvenile Center. Adam Krason, AIA an architect and principal at ZMM served as the project manager on the most recent expansion to the Sam Perdue Juvenile Center while employed at another firm. Mr. Krason's experience with the facility will be a benefit to the Division of Juvenile Services. Our recent experience at the Davis Center included the renovation of the existing educational facility, and ZMM has also designed vocational education facilities in correctional centers.

In addition to our experience designing juvenile centers in West Virginia, ZMM has also designed more than 200 educational facilities across the State. The experience includes work on multiple vocational facilities, including the Roane-Jackson Technical Center and the Mid-Ohio Valley Technical Institute.







Our approach for this task will include an investigation of the existing educational component of the Sam Perdue Juvenile Center, followed by detailed educational facility planning to ensure the proposed improvement meet the educational needs of the juveniles. This planning will take a team approach involving local staff, the Division of Juvenile Services, and the State Department of Education. ZMM utilized a similar process on the Davis Center for the Pro-Start program.

ZMM anticipates that one challenge that impacts all tasks will include specifying equipment in a manner that will satisfy purchasing requirements while ensuring that all materials and systems are compatible with the existing facilities. ZMM also anticipates the need to work closely with the State Fire Marshal's Office to ensure that all improvements are implemented in a manner that does not negatively impact the safety of the building occupants. Our experience providing services on renovation projects to occupied detention and correctional facilities in West Virginia has provided ZMM the opportunity to develop strategies that minimize any adverse impact on operations and safety.



#### B. ZMM Services

ZMM Architects and Engineers is a full service architecture and engineering firm that was founded in Charleston, WV in 1959. Since the firm's founding ZMM has participated in the design of more than twenty (20) juvenile and correctional facilities throughout West Virginia with the total construction cost of facilities designed exceeding \$200M. In additional to our previous experience designing and renovating juvenile centers, our ability to provide integrated design services from our offices in Charleston makes ZMM uniquely qualified to assist the West Virginia Division of Juvenile Services on complex renovation and expansion projects.

If ZMM is selected for the project all of the services identified below will be provided by architects and engineers based in our office in Charleston. No consultants will be utilized on the projects, improving our ability to respond expeditiously to each and every project. Additionally, our team's experience designing and renovating juvenile centers will help ensure the quality of the proposed design solutions.

Pre-Design	Design	Post-Design
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■ Educational Facility Planning
■ Architectural Design
■ Construction Administration

☑ Programming ☑ Sustainable Design ☑ Value Engineering

▼ Feasibility Studies 
 ▼ Structural Engineering 
 ▼ Post-Occupancy Evaluation 
 ▼ Post

■ Existing Building Evaluation
■ Mechanical Engineering
■ Energy Consumption

Analysis 

✓ Site Evaluation and Analysis ✓ Electrical Engineering

#### C. Understanding of Operational, Security, and Functional Requirements

ZMM has experience designing both hardware and staff secured facilities, as well as facilities that serve a variety of classifications. ZMM understands the importance of direct visual control within a juvenile facility, which led to the design of the prototype juvenile center where the staff can fully monitor all movement in the corridor system of the building from a single central control location.

Additionally, ZMM understands the importance of secure intake areas, functional and reliable kitchen and laundry areas, as well as secure educational and vocational facilities. ZMM has recently worked on correctional renovation projects that required the existing facility to remain secure and operational throughout the construction phase, an important requirement of the current projects.









#### D. Experience Renovating Operational Facilities

ZMM Architects and Engineers has significant experience renovating operational juvenile centers, jails, and correctional facilities. Our proposed team for this project includes Mr. Adam Krason, Mr. Rodney Pauley, Mr. Steve Cook, Mr. Hank Walker, and Mr. David Unrue. This team has worked on previous successful renovation projects to West Virginia Juvenile Centers and the West Virginia Regional Jails. The juvenile center renovation experience of our staff includes renovation and/or expansion of the following facilities:



- Davis Center
- Vickie V. Douglass Juvenile Center
- Sam Perdue Juvenile Center (previous experience of Adam Krason)
- Lorrie Yeager Juvenile Center (previous experience of Adam Krason)

Additionally, please find a list of our recent experience providing design and construction phase services on operational West Virginia Regional Jail facilities:

- Replacement of Existing Fire Alarm Systems Central Regional Jail, Southern Regional Jail
- Addition of Auger Pit Southern Regional Jail, Southwestern Regional Jail, and Northern Regional Jail and Correctional Facility
- Replacement of Roof and HVAC Systems Central Regional Jail, Sothern Regional Jail, Northern Regional Jail and Correctional Facility, Southwestern Regional Jail, Eastern Regional Jail.
- Drinking Fountain Replacement Central Regional Jail and South Central Regional Jail
- CCTV Camera and Security Audio Recording Systems All Facilities
- CO Detection All Facilities
- New Vehicle Gate South Central Regional Jail, South Western Regional Jail
- Kitchen Flooring Replacement Central Regional Jail, South Central Regional Jail, Southern Regional Jail



#### E. Understanding of Federal and State Regulations

Through the design of Juvenile Centers, Regional Jails, Holding Centers, and State and Federal Correctional Facilities throughout West Virginia, ZMM Architects and Engineers has developed a thorough knowledge of the codes and standards that regulate their construction. Additionally, when providing design and construction phase services on operational correctional facilities, ZMM coordinates closely with the State of West Virginia Fire Marshal to ensure the health and safety of all building occupants.





# History and Philosophy of ZMM



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.

# **ZMM** Community Support



In addition to our design efforts, ZMM is supportive of institutions and organizations that contribute to the cultural and educational landscape in West Virginia.

ZMM offers financial support to several community and state-wide institutions which reflect the superior quality that we strive to achieve on each of our projects. The following organizations also impact the educational environment through their support of local artisans, performances, broadcasts, and community service:













"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."

Maestro Grant Cooper, Artistic Director and Conductor WV Symphony Orchestra

The ZMM project team will be led by Adam Krason, AIA, LEED-AP. Adam has been involved with several local community organizations and initiatives, including West Side Main Street, the Charleston Area Alliance Economic Development Committee, Charleston Rotary, the Charleston Area Alliance Gateway Committee, the Advisory Council for the Sustainability Institute at Bridgemont CTC, and has previously been active with the Charleston Land Trust. Most recently Mr. Krason served as the Co-Chair of the Imagine Charleston Neighborhoods Committee.

# **Professional Services**



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 35 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

#### Design

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

#### Post Design

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



# **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.







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.

# **West Virginia Juvenile Centers**



Contact:
Denny Dodson
Deputy Director
WV - Division of Juvenile
Services
304.558.9800

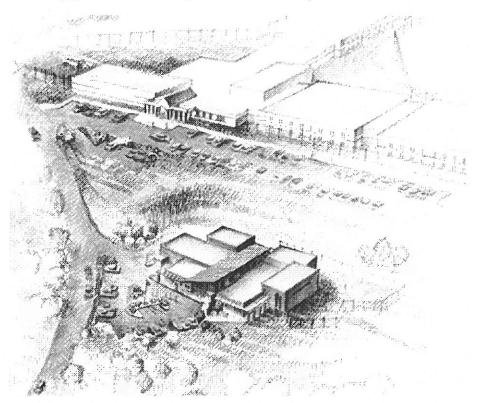
Following a very successful program of regional jail construction based on ZMM/CRA's prototype design, the West Virginia Regional Jail & Correctional Facility Authority awarded ZMM a contract to design a new prototype for juvenile detention facilities.

The original prototype has undergone several transformations, including a 2-story design and a prototypical staff-secured design. All of the versions of ZMM's juvenile center prototype are designed to allow safe and effective operation with a small staff.

The **J. M. "Chick" Buckbee Juvenile Center**, located near Romney, Hampshire County, was the first juvenile center bid under the new program of prototype facilities. Scheduled to open in fall 2003, this single-story, 26,500 square foot building houses a complete program of intake, medical care, education, recreation, food service and administration.

The **James H. "Tiger" Morton Juvenile Center** was designed on the site of the old Kanawha Home for Youth in Dunbar, Kanawha County, West Virginia. Site constraints led to a 2-story variation of the prototype, housing 24 beds in a total building area of 29,000 square feet. This facility, the second of the prototype structures, is scheduled for opening in late 2003.

The **Robert L. Shell Juvenile Center** will be constructed on a site just below the new **Western Regional Jail** in Barboursville, Cabell County, West Virginia. Nearly identical to the Gene Spadaro Juvenile Center, this new center will also use federal IV-E funding and houses minimum-security youth. This facility is scheduled to open in late 2004.



# Gene Spadaro Juvenile Center

West Virginia Division of Juvenile Services



LOCATION: Mount Hope, WV

COST: \$4.8M

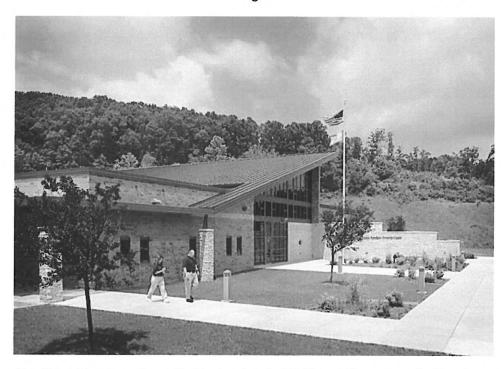
COMPLETION: 2004

CONTACT:
Denny Dodson
Deputy Director
WV - Division of Juvenile
Services
304.558.9800









The **Gene Spadaro Juvenile Center**, located in Mount Hope, Fayette County, proved that the prototype concept can be flexible enough to accommodate a dramatic variation in programming. The "softer" approach to this minimum-security facility anticipates program funding through federal IV-E regulations, and relies on staff involvement for security rather than bars and hardware. Innovative color schemes were used to simulating variety in the spaces.

Completed in 2004, the building is constructed of load-bearing masonry walls with brick and natural stone veneer. Lighting was carefully designed to supplement natural sunlight and ensure comfortable lighting levels. Staff-secured programming required even greater levels of observation, communication, and control. Sleeping quarters resemble a more institutional feel, educating the youth to look at their future and to stay away from delinquency and crime.

This juvenile facility won the 2005 Merit Award for *Achievement in Architecture* for American Institute of Architects, West Virginia Chapter.



# Vicki V. Douglas Juvenile Center

West Virginia Division of Juvenile Services



LOCATION: Martinsburg, WV

COST: \$4.7M

COMPLETION: July 2006

Contact:
Denny Dodson
Deputy Director
WV - Division of Juvenile
Services
304.558.9800







The Vicki V. Douglas Juvenile Center is a 23 bed co-ed, staff secure, juvenile detention center located in Martinsburg, West Virginia. The original Juvenile Center was enlarged and completely renovated by ZMM to provide a secure facility with addition capacity and services to meet the growing needs of the area. The original Juvenile Facility was quadrupled in size while leaving the original façade intact on two sides with the new addition wrapping around the remaining two sides.

ZMM provided multiple class rooms, recreation and common areas for educational, behavioral, training, counseling and life skills activities in the enlarged facility. These activities are able to be observed and monitored by staff from a central control area. The construction of the new addition and renovation of the existing was phased to provide minimal interruptions with operation of the original facility.



## **Davis Center Renovation**

Division of Juvenile Services



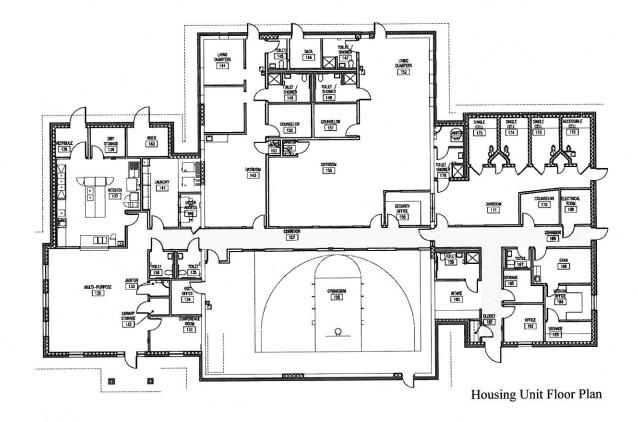
LOCATION: Davis, WV

SIZE: 10,000 SF Housing Unit 6,800 SF Educational Building

CONTACT: Jim Goddard Assistant Director of Operations WV Division of Juvenile Services 1200 Quarrier Street, 2nd Floor Charleston, WV 25301 304.558.9800 The Davis Center Renovation project involves the transformation of a facility that previously housed young men into a minimum/medium security center for female youth. The campus is located near Blackwater Falls State Park in Davis, WV. The project scope included a complete modification of the project site, and involved demolishing older sections of existing buildings and retaining major structural portions for renovation. Outdated living, kitchen and dining facilities were removed from the old 10,000 SF Housing Unit making way for a new kitchen and dining facility along with maximum security cells and new medical unit.

The proposed improvements will keep a portion of the existing gym for exercise, renovating the rear portion into minimum security and transitional areas. The 6,800 SF Educational Building will preserve the majority of the interior spaces for new administrative and educational space with updated finishes. The exterior of both buildings will be renovated with a combination of durable exterior materials including brick, concrete plank siding, insulated aluminum windows and standing seam metal roofing. An existing entrance and parking area will be reconfigured to provide additional parking spaces, a sally port and perimeter security fencing.

The exterior improvements and additions to this project have been completed prior to the project being placed on hold in 2013



## **Correctional Facilities**

West Virginia Regional Jails



CONTACT: Steve Canterbury, Administrative Director

Courts of West Virginia Supreme Court of Appeals Building 1, RM E-100 Charleston, WV 25305 304.558.0145







In 1990, the West Virginia Regional Jail and Correctional Facility Authority awarded the joint-venture team of ZMM/CRA a contract to design a prototype detention facility with the flexibility to meet the long range needs of 10 geographical regions in the State of West Virginia. The prototype building was designed as a 200 bed, 300 bed and 400 bed facility with the ability to add a 100 bed housing pod to each. All services required by the building were designed to accommodate the maximum population.

Unique to the design of the prototype jail is the ability of the staff to fully monitor all inmate movement within the corridor system of the building from a single central control location. The following systems were designed and installed: integrated security and PA system, closed circuit television, fire alarm system, door access control integrated with security system, cable television and perimeter security system.

The **Central Regional Jail** in Flatwoods, Braxton County, WV, was the first of the prototype jails to be completed. It is a 200 bed medium/maximum security facility of approximately 100,000 SF

The **South Central Regional Jail**, second of 10 regional jails to be completed, is a 300 bed facility of 140,000 square feet located in the Southridge Business Park, Charleston, West Virginia.

The **Southern Regional Jail** is a 300 bed regional jail of approximately 133,000 SF The jail has facilities for 96 maximum security inmates with the remaining housing units designed for medium security. This facility is located in Beckley, WV.

### **Correctional Facilities**

West Virginia Regional Jails





The **Northern Regional Jail** and Correctional Facility is a 400 bed combined regional jail and correctional facility of approximately 164,000 SF consisting of 200 beds used by the regional jail and 200 beds used by the West Virginia Department of Corrections. The regional jail section has facilities for 48 maximum security inmates with the remaining housing units designed for medium security. All housing units occupied by the Department of Corrections are medium security.

The **Southwestern Regional Jail** is a 300 bed facility located in Holden, Logan County, WV, and completed in 1998.

Located in Dodridge County, WV, the **North Central Regional Jail** is a 400 bed facility and was completed in 2001.

The **Western Regional Jail**, located in Cabell County, is a 400 bed facility and is scheduled for completion in 2003

A 300 bed facility, the Eastern Regional Jail, is located in Martinsburg, WV and was completed in 1999.

Completed in 2000, the **Potomac Highlands Regional Jail**, is located in Augusta, Hampshire County, WV and is a 200 bed facility.

## **Correctional Facilities**



CONTACT: Steve Canterbury, Administrative Director

Courts of West Virginia Supreme Court of Appeals Building 1, RM E-100 Charleston, WV 25305 304.558.0145







**Prison Industries Facility -** Northern Regional Jail and Correctional Facility - This 25,000 SF building is located at the Northern Regional Jail and Correctional Facility to serve the prison industries vocational education requirements of the Correctional Facility Division.

The building provides space for a mattress shop, print shop, vinyl notebook shop, and Braille shop in the industries area. Within the vocational education area, space is provided for automobile repair and woodworking. The building was completed on schedule and within the Owner's budget.

**Denmar Correctional Facility** - This project consisted of renovations to an existing 4-story hospital's toilet/shower system to accommodate a medium security facility for the West Virginia Department of Corrections.

**Huttonsville Correctional Facility/100 Bed Dormitory** - The 15,000 SF dormitory was designed as a minimum/medium security facility and was completed on schedule and within the Owner's budget.

#### **Lakin Correctional Center for Women**

The center opened in early 2003 as the first comprehensive state correctional facility for women. Located in Lakin, Mason County, this 225-bed facility houses medium and maximum-security female inmates in a building complex of over 153,000 square feet. The project included renovation of an existing building for education and indoor recreation. ZMM will also complete designs for a separate 124-bed dormitory for minimum security, as well as a correctional industries building, on the campus at Lakin.

**Alderson Federal Prison Camp**, Alderson, WV - ZMM provided architectural and engineering services for a major renovation of this women's federal correctional facility located in the Greenbrier River valley. This project includes extensive renovation of eighteen 1938 vintage buildings to current federal prison standards and increases the capacity to 1,269 inmates.

# **Wood County Justice Center**



LOCATION: Parkersburg, WV

SIZE: 32,000 SF

COMPLETION: 2011

PROJECT COST: \$5M

CONTACT: Mr. Blair Couch Commissioner No. 1 Court Square Suite 205 Parkersburg WV 26101 304.424.1978

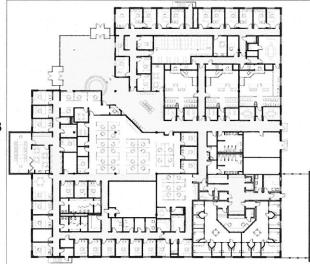






This project was an extensive renovation of a 15 year old, 32,000 square foot, single story office building located in downtown Parkersburg, West Virginia. The building was purchased by the Wood County commission with the purpose of bringing together 3 government functions that had outgrown the 3 separate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

# **Tucker County Courthouse Annex**



LOCATION: Parsons, WV

SIZE: 21,000 SF

COST: Est. \$4M

COMPLETION: 2013

CONTACT: Mr. Joel Goughnour County Administrator Tucker Cty Commission 213 1st Street Parsons, WV 26287 304.478.2866







The Tucker County Courthouse Annex is 4-story, 21,000 square foot building located adjacent to the Tucker County Courthouse in Parsons, WV. The annex sits on the same lot as the courthouse with the original jailor's residence between the two. The location of the existing jailor's residence, which is listed on the National Register, created a challenging planning dilemma. ZMM explored three options for developing the Courthouse Annex. The first option, the original concept proposed by Tucker County, anticipated connecting the Annex at multiple levels via a connector.

The problem with this approach was that the jailor's residence appeared like a building stuck within a larger complex, as well as the cost of the connector structure. ZMM also explored the option of relocating the jailor's residence, an approach that proved not feasible as the location of the facility justifies it's historical quality. The final solution that was examined, and is currently being implemented, involved adding a separate elevator to the existing Tucker County Courthouse, and connecting the entry to the two facilities with an enclosed single level connector. This approach is the most efficient use of the County's resources, and also the best approach for the overall Courthouse site. 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.

The Tucker County Sheriff, currently housed in leased space, will occupy the space that is being vacated in the original Courthouse.

# **West Virginia State Police**

Information Service Center



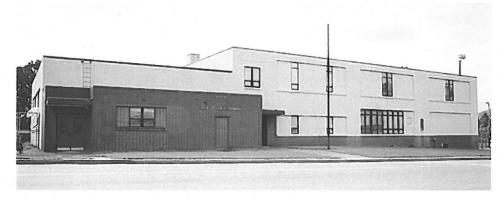
LOCATION: So. Charleston, WV

SIZE:

14,000 SF Renovation 4,000 SF New Construction

CONTACT: Major Gary Tincher Chief of Staff Services West Virginia State Police 725 Jefferson Road So. Charleston, WV 25309 304.746.2115 Gary.r.tincher@wvup.gov





The West Virginia State Police is currently renovating a structure that previously served as the State Medical Examiner's Office, and prior to that, an elementary school. The building is located adjacent to the State Police's main campus in South Charleston, WV. The building is currently undergoing extensive renovation, with the intent of transforming it into an Information Services Center. The divisions are currently housed in the main state police headquarters building.

The scope of the work includes a complete renovation to the 14,000 SF, twostory main building with a new 4,000 SF, one-story addition on the back. The old exterior masonry façade will be enveloped with a thin-brick veneer facing Jefferson Road and an exterior insulation and finish system in rear of the facility. New aluminum windows, high-performance glazing and new single-ply roof membrane complete the exterior. The interior will be converted into professional office space on both floors housing their Communications Division, Criminal Records Division and Traffic Records Division. The space was maximized by utilizing the wide corridors as office space, and creating new, appropriately scale corridors in a loop pattern through the existing classrooms

# **Jackson County Sheriff's Office**

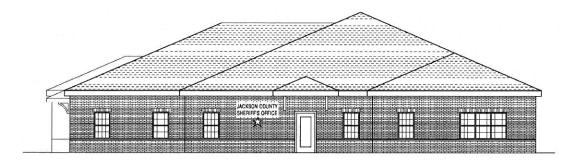


LOCATION: Ripley, WV

COST: Est. \$1.6M

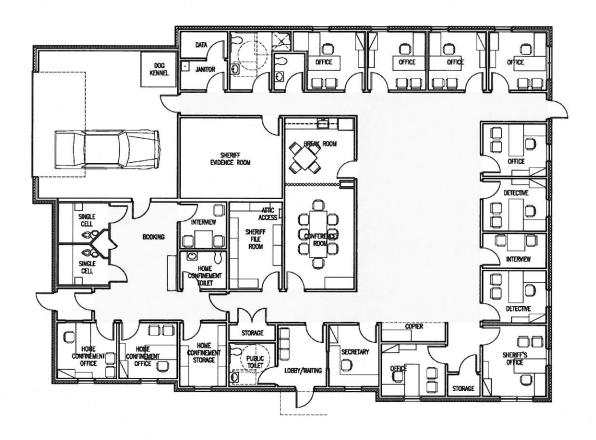
SIZE: 5,400 SF

CONTACT: Sandy Garrett Administrative Assistant Jackson County Commission Ripley, WV 25271 304.561.6539



The Jackson County Sheriff's Office was outgrowing their current facility, so a vacant lot was acquired adjacent to their existing building, which is located on the courthouse square in Ripley, WV. The one story sheriff's office will be approximately 5,500 sq ft. The cost is estimated to be \$1.5 million. The building will function as a full sheriff's office, as well as contain all home confinement reporting necessities for the county.

An improved booking area will contain two holding cells, sally port garage space, interview room, and all crucial processing equipment. The sheriff's office will include a conference room, advanced evidence storage, a work area for the deputies with room to grow, and personal offices for the sheriff, chief, captain, lieutenants, sergeants, and detectives. The public will enter through secured vestibules while staff will have key card access at entryways. The new state-of-the-art building will help the Jackson County Sheriff's Department serve the public more efficiently and effectively.



# Adam R. Krason, AIA, NCARB, LEED AP





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**

Wood County Justice Center, Parkersburg, WV
Mr. Krason was the Project Manager for this adaptive reuse project. The existing 32,000 SF building creates a new Magistrate Court and Sheriff's Department. This juvenile center project received LEED Silver Certification.

#### 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 - 2013
- WV Qualification Based Selections Council, President, 2012/2013
- Leadership WV 2010 2012
- Charleston Rotary
- West Side Main Street, Board of Directors 2008 - 2013
- City of Charleston Land Trust 2008 -2013

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

Mr. Krason was the Project Architect 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 & Education Center (WVARNG), Kingwood, 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.

Construction and Facilities Management Office Expansion (WVARNG), 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 2009 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, 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.

State Office Building #5, 10th Floor, 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 improvements on the 10<sup>th</sup> Floor of State Office Building #5 for the Office of Technology. The renovations, 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.

Bridgemont Community and Technical College Davis Hall Renovation and Master Plan, 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.

WVU at Parkersburg, Parkersburg, WV

Mr. Krason was the project manager for the Downtown Center (W.T. Grant Building). ZMM provided preliminary design services and a construction cost estimate for improvements to the building façade. Services included the development of as-built drawings, conceptual elevations, renderings, and modeling. Working closely with West Virginia University at Parkersburg ensured that the design reflected a contemporary and unified aesthetic.

Awards and Acknowledgements:

2011 WV AIA Honor Award Joint Interagency Training and Education Center (JITEC), Kingwood, WV 2011 AIA Honor Award State Office Building #5, 10<sup>th</sup> Floor Renovation, Charleston, WV 2009 AIA Merit Award WVARNG Construction and Facilities Management Office, Charleston, WV 2010 Organizer: Making the Business Case for Sustainability Conference, University of Charleston 2010Speaker: West Virginia Sustainability Summit, Discover the Real West Virginia Foundation 2009 Speaker: Sustainable Schools West Virginia Summit, WVU 2005 Article: The West Side Needs Structural Help, Charleston Daily Mail





**Role** Senior Mechanical Engineer

# Professional Registrations Professional Engineer (WV)

Mr. Cook started his career in 1972 as a designer for an engineering firm in Charleston, West Virginia. He is a Professional Engineer registered in West Virginia and has designed and engineered multiple projects throughout the state.

Mr. Cook has had a full range of engineering design experience including: Plumbing, HVAC, Electrical, Fire Protection and Site Utilities. He has worked on Jails, K-12 Schools, Armories, Hospitals, Office Buildings, Churches, and a variety of other building types.

Other responsibilities include, Serving as a liaison between clients and utility companies, designs of sanitary and gas site utilities, review of plumbing, sprinkler systems, fire pumps and water pumps as well the equipment selection - air handling units, pumps, and boilers, site visits, observation reports and punch lists.

#### **Project Experience**

# West Virginia Regional Technology Park - Building 740, South Charleston, WV

Mr. Cook worked as part of the Design-Build Team to survey the existing building; did preliminary location and layout for the proposed Boiler Building; designed layout and piping for steam boiler system; did electrical design for the proposed Boiler Building. Also did mechanical and electrical design for Buildings 742, 743, and 8736

West Virginia Regional Jails: Mr. Cook was responsible for electrical design on 10 Regional Jails. The design included lighting, power distribution, emergency power systems, fire alarm and security. In 2009 he was project manager for HVAC renovation on four regional jails. This project included replacement of rooftop HVAC units and Building Automation Systems. Mr. Cook has also been responsible for site utility upgrades including sewer augers and on-site sewage treatment plants and lift stations.

Jackson County Armed Forces Reserve Center, Millwood, WV Because of the variety of space types and occupancy patterns, Mr. Cook designed multiple roof mounted air handling

#### Education

Master of Arts in English and Humanity Marshall University Graduate School, 2004

Bachelor of Arts in English and Humanity, West Virginia University, 1972

# Employment History 1989 - Present, Senior Mechanical Engineer, ZMM Present, Board of Directors, ZMM 1976 -1989, Project Manager, WV Firm

# Civic Associations Professional Engineer (WV) American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), Member

1972 -1976, Designer, WV Firm

units, to take advantage of unoccupied scheduling to save energy. The main shower /toilet area is served by a 100% outside air unit with a plate type heat exchanger for energy conservation. The large Drill Hall, which also serves the community with space for up to 2000 people, is served by two rooftop units. One will run during Drill weekends, the second will run only during public events. There are two high efficiency scroll type chillers with primary/secondary pumps to meet part load conditions. The boilers are 95% efficient stainless steel condensing type with variable speed pumps.

Lincoln County High School, Hamlin, WV

Mr. Cook was responsible for HVAC design on this project, which included a 500 ton chilled water system with primary and secondary pumping. The chillers had a heat recovery feature which was used for reheat on VAV air systems. The gas boilers were condensing type with 95% efficiency and variable speed pumps. The school also had vocational shops for which he designed welding fume exhaust and dust collection systems. In addition to this, Mr. Cook was responsible for site utilities including coordination of a water line river crossing and an aerial sewer suspended from the bridge serving the school, which eliminated the requirement for a lift station.

Hacker Valley PK-8 School, Hacker Valley, WV

This project, located in rural Webster County adjacent to a trout stream, was built on a small site where municipal water and sewer were not available. Mr. Cook was responsible for designing a new Water treatment System for the existing domestic well, and a variable speed booster pump to deliver water to the school building. An onsite sewage treatment plant with outflow was not acceptable because of the trout stream, so he designed a "Green" peat bed underground injection system for the school's sewage disposal. The school also required fire protection, and Mr. Cook designed a 64,000 gallon storage tank with a diesel fire pump for distribution. He was also responsible for HVAC design.

# Hank Walker, AIA, LEED AP





Role Architect

# Professional Registrations Registered Architect (WV) LEED Accredited Professional

Mr. Walker is responsible for overseeing the planning, design, and construction of a variety of types of building projects to meet the needs of the clients. Mr. Walker works with other inhouse engineers and design professionals throughout the building process to provide a thoroughly integrated product. Mr. Walker also coordinates with various consultants, code officials, and government agencies to provide a quality building.

Mr. Walker has broad experience in scopes of both new and renovation projects throughout his years at ZMM.

#### **Project Experience**

WVARNG Family Readiness Center, Charleston, WV Mr. Walker was responsible for the design of a two story building set on a sloped hillside. The new facility will provide a variety of offices and public spaces including a chapel, multi-purpose area, a lobby, and a lounge.

Alderson Federal Prison Camp - New Housing Units. Mr. Walker was responsible for the design of two new 500 bed housing units. These units were constructed on the historical site of the first federal prison for women. The prison was in operation during the new construction of both housing units.

#### WV State Capitol Complex, Charleston, WV

Mr. Walker has worked on several renovation projects on the State Capitol Complex including: roof replacements, culture center gift shop, window replacements to buildings 5, 6, & 7, door and security project, and renovations to building #5, 10<sup>th</sup> floor - Office of Technology.

#### Cedar Lakes Conference Center, Ripley, WV

Mr. Walker has worked on several renovation projects at Cedar Lakes including the reroofing project which was completed in 2006. This project included new metal roofing to 11 buildings.

The Retreat at Glade Springs Resort, Daniels, WV Mr. Walker was responsible for the design of a variety of townhouses assembled into a multi-unit building that fit into the hilly terrain of the site.

#### Education

Bachelor of Science Architecture; 1973 The University of Cincinnati

#### **Employment History**

1979 - Present, Project Architect, ZMM 1977 - 1979, Designer, ZMM 1977, Designer, Holderby Engineering 1973 - 1976, City Planning, American Peace Corps, Iran

#### **Civic Affiliations**

- American Institute of Architects, Member
- West Virginia Society of Architects, Member
- Charleston Salvation Army advisory board 1990 – Present
- Advisory Board Chairman 1997 -1998

**Barboursville Middle School, Barboursville, WV** Mr. Walker was part of the design team that was responsible for designing a replacement building for the existing middle school. The design required that the new school building be built where the existing building was occupied on the same size. An existing large gymnasium was renovated and incorporated into the next education complex.

Blackwater Falls and Cacapon WV State Parks, Davis, WV Mr. Walker was responsible for the design of additions to the existing historical lodge building for the two state parks. Mr. Walker incorporated new meeting rooms, elevator, pool and health spas into the existing lodge building and incorporated various renovations to existing buildings to make the buildings more usable for large groups.

**Braxton County Memorial Hospital, Gassaway, WV** Mr. Walker has worked on a variety of additions and renovations projects at the hospital. The renovations and additions were completed on the emergency room floor, medical surgical, radiology, laboratory, and outpatient areas while the hospitals departments were kept in operation.

#### Awards and Acknowledgements:

Design Award Received from the Corps of Engineers for: The Stonewall Jackson State Park Facilities.

Mr. Walker received recognition in the *Charleston Gazette* Newspaper for his own home residence, which incorporated "passive solar" and other "Green" Design principals.

# Rodney Pauley, AIA





Role Project Manager

# **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**

WV Division of Juvenile Service (Davis Center Renovations), Davis, WV Mr. Pauley is the project manager for a design team that is currently preparing construction documents for the renovation to an existing juvenile corrections campus for women. The project scope includes the demolition of two buildings, the interior renovation of the 6,800 SF education building, and a major reconstruction to the 10,000 SF gymnasium which includes two major additions for dining and living facilities. An entrance and parking area will be reconfigured to provide additional spaces, a sally port and perimeter security fencing.

Morgantown Readiness Center, Morgantown, WV Mr. Pauley was the project manager for the 58,000 square foot multi-use facility which includes assembly rooms, kitchen and dining facilities, military supply storage as well as locker rooms.

#### 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 The building is also designed to house the 249<sup>th</sup> Army Band and their associated practice and support spaces. This area is highlighted by a 150-seat auditorium and state-of-the-art main rehearsal stage. This project is aiming for LEED Silver Certification.

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 need to develop a consistency between Bridgemont's Montgomery and South Charleston campuses, while also integrating the Bridgemont brand into the Park. The final design included planning for a new classroom and laboratory building adjacent to Building 704, across from the Advanced Technology Center. Signage, site circulation, parking, and campus amenities were also included in this planning process.

**Edgewood Elementary School, Charleston, WV** Mr. Pauley is the project manager for the design team that is currently developing a new 60,000 SF 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.

**Other Project Experience** 

One Federal Place, Birmingham, AL. Mr. Pauley was the project architect responsible for design, construction documents and construction administration for the 12-story, 466,600 SF speculative office building with attached 5-story, 520-car parking deck. The base of the office tower and parking deck, which are located in the heart of downtown Birmingham, are faced in granite to match the surrounding buildings. The tower is faced with architectural precast concrete panels and an insulated glass curtainwall system. The entrance lobby is highlighted by custom wood paneling and a highly-detailed granite floor.

North Georgia Technical College for GA Department of Technical and Adult Education Clarkesville, GA. Mr. Pauley was the project manager for the a major campus renovation which included the demolition of an old automotive classroom building, the renovation of Mobley Hall, the existing administration building, and the construction of two new education buildings, the Visual Technology Center and the Transportation Center.

- Mobley Hall, the main campus entry building, was refaced with new brick veneer and a new gable roof with entry feature was constructed covered in standing seam metal roofing.
- The Visual Technology Center is a 2-story, 28,000 SF state-of-the-art, photography, media and print building that is sited adjacent to existing educational buildings to create a formal "quad" within the campus. It contains a commercial print lab, a large photography shooting room, digital production rooms, a video production studio and is highlighted by a 2-story media gallery with glass façade open to the quad.
- The Transportation Center is a 37,000 SF educational building that is highlighted by three, highbay spaces with clerestory windows opening into pitched standing seam metal roofs. These bays contain educational space for conducting repair and maintenance for automobiles, boats, large trucks and commercial earth-moving equipment.

# Robert Doeffinger, PE





Role Engineering Principal

#### **Professional Registrations**

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

As ZMM's Principal Engineer, 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 37 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 Army National Guard, Joint Interagency Training & Education 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.

# West Virginia Capitol Complex - Buildings #5, 6, & 7, Charleston, WV

Mr. Doeffinger was the Project Engineer for the in-depth analysis of Buildings #5,6,& 7 at the State Capitol Campus. The study included the preparation of as-built plans, as well as

#### 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

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.

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.

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.

West Virginia Regional Technology Park (WVRTP) - Building 740, South Charleston WV Mr. Doeffinger is the engineering principal-in-charge of the new Steam Plant for Building 740. This project involves designing and constructing the Interim Steam Heating System throughout Building 740.

#### **Building 770 Evaluation, South Charleston, WV**

Mr. Doeffinger has worked with MATRIC to conduct a detailed assessment of Building 770 to help establish a budget for required improvements to the facility. ZMM's services included an investigation, assessment of the building condition including the building envelope, life safety issues, and engineering systems, as well as the development of conceptual plans for the lab areas. ZMM's assessment also included a detailed review of the building's current and future energy use. The energy consumption information helped to validate the payback of the proposed improvements.

#### WVRTP Steam Plant Analysis, South Charleston, WV

Mr. Doeffinger worked collaboratively with WVRTP staff and various consultants to develop an analysis of the efficiency of the Tech Park steam plant. Based upon the results of the analysis, the WVRTP decided to shutter the plant, resulting in a significant yearly savings.

#### Building 740 Steam Plant, South Charleston, WV

Mr. Doeffinger is working with West Virginia Heating and Plumbing to develop a steam plant for Building 740. The steam plant will include new steam (convertible to hot water) boilers for the facility. The project also includes a new four bay block building to house the steam plant. The system designed by ZMM meets the current needs, and also plans for future improvements to the facility.

#### 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.

#### 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 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**

J.M. Chick Buckbee Juvenile Center, Romney, WV Mr. Casdorph 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. Casdorph 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. Casdorph 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.

#### 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 Joint Interagency Education and Training Center (WVARNG), Kingwood, 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.

Jackson County Armed Forces Reserve Center, Millwood, WV Mr. Casdorph 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. Casdorph 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 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. Bridgemont began utilizing the facilities for instruction in the Spring of 2011.

West Virginia Housing Development Fund Office, Charleston, WV Mr. Casdorph 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 floor plan 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.

**Lincoln County High School, Hamlin, WV** Mr. Casdorph 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. Casdorph was responsible for the electrical design of the new 96,000 SF facility housing 700 middle school students grades 6 through 8.

**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.

#### **Current Education Projects:**

Valley High School, Smithers, WV Divide Elementary School, Lookout, WV





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, Parkersburg, WV
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 LEED Silver Certified.

Tackett Family Readiness Center, Charleston WV
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.

#### 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

West Side Elementary School, Charleston, WV

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 preconstruction 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.

Harts PK-8 School, Harts, WV

Ms. Cleland was responsible for site design and permitting. The site was constrained by the Guyandotte 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.

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

Ms. Cleland is the Civil Engineer on the 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 need to develop a consistency between Bridgemont's Montgomery and South Charleston campuses, while also integrating the Bridgemont brand into the Park. The final design included planning for a new classroom and laboratory building adjacent to Building 704, across from the Advanced Technology Center. Signage, site circulation, parking, and campus amenities were also included in this planning process.

Highland Hospital, Charleston, WV

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.

**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.

#### 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

#### Wood County Justice Center, Parkersburg, WV

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 Sheriff's Department. The project received LEED Silver Certification.

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

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 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

#### Education

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

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

#### **Employment History**

2013 - Present, Board of Directors, ZMM 2007 - Present, Structural Engineer, ZMM 2003 - 2007, Structural Engineer, McCall Engineering, Inc.

#### **Civic Affiliations**

 American Institute of Steel Construction, Member additional requirements of the Department of Defense for blast and progressive collapse resistance.

**Jackson County Armed Forces Reserve Center, Millwood, 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.

**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.

**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.

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, 77,215 SF educational building. The project scope includes remedying several engineering and life safety deficiencies, as well as architectural improvements to the building envelope.

**Southern West Virginia Community & Technical College, Williamson, WV** Mr. Hedrick was 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.

#### 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.

#### David R. Unrue, AAIA





Construction Administrator

#### **Professional Credentials**

CSI, Certified Construction Specifier (Construction Specification Institute)

CDT, Certified Construction Document Technologist

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

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

#### **Project Experience**

State of West Virginia Division of Juvenile Services West Virginia Regional Jail & Correctional Facility Authority Joint Interagency Training & Education Center (JITEC) Jackson County Armed Forces Reserve Center Morgantown Readiness Center **Tucker County Courthouse Annex** Southside Elementary/Huntington Middle School Lincoln County High School St. Albans High School Milton Middle School Marshall University Elevator Project WV Housing Development Fund Office **Huntington East Middle School** Ft. Gay Elementary School Job Corps Center, WV Sears, Roebuck & Company, Retail Centers Various Cabell County Schools, WV

#### Education

Bachelor of Science, University of Charleston, 1997

Associate of Science, West Virginia State University, 1992

#### **Employment History**

1991 - Present, Construction Administrator, ZMM 1985 - 1991, West Virginia Board of Regents, Charleston, WV 1979 - 1984, Charleston Area Architectural Firm, Charleston, WV

#### **Civic Affiliations**

 Associate Member, America Institute of Architects, West Virginia Chapter

## 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:

08/21/2011

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

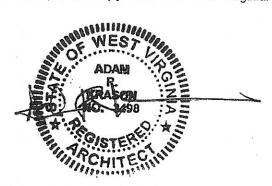
The person or organization identified on this certificate is registered to conduct business in the State of West Virginia at the location above.

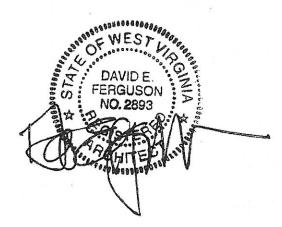
This certificate is not transferrable and must be displayed at the location for which issued. This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

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





## 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.



Board Administrator

Leya C. Lewis



## 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** 

#### 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.



Buther Patrick Elli. F.S.C.
PRESIDENT

William E/Kelly
DEAN

D. Kendell Rice

# 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

## 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** 

#### References



**COL David Shafer** 

Previous CFMO West Virginia Army National Guard 1707 Coonskin Drive Charleston, WV 25311 304.561.6539

Joel Goughnour, County Administrator

Tucker County Commission 213 First Street Parsons, WV 26287 304.478.2866

**Denny Dodson, Deputy Director** 

West Virginia Division of Juvenile Services 1200 Quarrier Street, 2nd Floor Charleston, WV 25301 304.558.9800

Paul O'Dell, Deputy Director

West Virginia Regional Jail and Correction 1325 Virginia Street, East Charleston, WV 25301 304.558.2110 Mr. Steve Canterbury

Administrative Director Supreme Court of Appeals of West Virginia Capitol Complex, Building One, Room E-100 Charleston, WV 25305-0830 304.558.0145

**David Blair Couch, President** 

Wood County Commission #1 Court Square, Suite 205 Parkersburg, WV 26101 304.424.1978/304.834.0306

Charles Lawrence, Executive Director

State of West Virginia Real Estate Division 900 Pennsylvania Avenue, Suite 500 Charleston, WV 25302 304.558.3490



## WEST VIRGINIA ARMY NATIONAL GUARD ONSTRUCTION & 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.

Brigadier General

West Virginia Army National Guard

Assistant Adjutant General

## The County Commission of Wood County

No.1 Court Square, Suite 203 Parkersburg, West Virginia 26101 (304) 424-1984



ROBERT K. TEBAY

RICK MODESITT

DAVID BLAIR COUCH

COUNTY ADMINISTRATOR
Marty Seufor
424-1976

COUNTY CLERK Jamie Six 424-1850

March 3, 2008

Dear Sir/Madam:

This is a letter of reference for Adam R. Krason, ZMM, Inc. The County Commission of Wood County has employed ZMM, Inc. on several projects, most notably the renovation of the Judge Black Annex.

Mr. Krason has always been extremely professional and has proven himself to be very flexible in meeting our needs. He is friendly and easy to work with. He has proven to be an asset to the County and we anacipate a long-term relationship with ZMM, Inc. in the coming years.

Sincerely,

THE COUNTY COMMISSION OF WOOD COUNTY

Robert K. Tchay, President

Rick Modesitt, Commissioner

David Blair Couch, Commissioner

WCC:ah