



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

State of West Virginia  
 Centralized Expression of Interest  
 Architect/Engr

08/31/21 14:07:59  
 WV Purchasing Division

<b>Proc Folder:</b> 916578			<b>Reason for Modification:</b>
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2021-08-09	2021-09-02 13:30	CEOI 0314 HST2200000002	1

**BID RECEIVING LOCATION**

BID CLERK  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

**VENDOR**

**Vendor Customer Code:** 206059  
**Vendor Name:** ZMM, Inc. (dba ZMM Architects and Engineers)  
**Address:**  
**Street:** 222 Lee Street, West  
**City:** Charleston  
**State:** WV **Country:** USA **Zip:** 25302  
**Principal Contact:** Adam R. Krason, AIA, Principal  
**Vendor Contact Phone:** 304-342-0159 **Extension:** 234

**FOR INFORMATION CONTACT THE BUYER**

Dusty J Smith  
 (304) 558-2063  
 dusty.j.smith@wv.gov

**Vendor Signature X**

**FEIN#** 55-0676608

**DATE** 8-30-2021

All offers subject to all terms and conditions contained in this solicitation

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.:**

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

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

Addendum Numbers Received:

*(Check the box next to each addendum received)*

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

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

ZMM, Inc. (dba ZMM Architects and Engineers)

Company

  
Authorized Signature

8-30-2021

Date

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

**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

ARK, PRINCIPAL  
(Name, Title)  
Adam R. Krason, AIA, LEED AP, Principal  
(Printed Name and Title)  
222 Lee Street, W., Charleston, WV 25302  
(Address)  
304-342-0159 304-345-8144  
(Phone Number) / (Fax Number)  
ark@zmm.com  
(email address)

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law.

ZMM, Inc. (dba ZMM Architects and Engineers)  
(Company)

ARK ADAM R. KRASON, PRINCIPAL  
(Authorized Signature) (Representative Name, Title)

Adam R. Krason, AIA, LEED AP, Principal  
(Printed Name and Title of Authorized Representative)

8-30-2021  
(Date)

304-342-0159 304-345-8144  
(Phone Number) (Fax Number)

WV Training and Conference Center



WEST VIRGINIA OFFICE OF  
**MINERS' HEALTH SAFETY & TRAINING**



Expression of Interest:

Architectural and Engineering Services for:  
WV Training and Conference Center Kitchen Renovation  
Located in Julian, WV  
HST2200000002

August 31, 2021





August 30, 2021

Dusty J. Smith, Buyer  
State of West Virginia, Department of Administration, Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305

**Subject: Expression of Interest to Provide Architectural and Engineering Services for the WV Training and Conference Center Kitchen Renovation – HST220000002  
431 Running Right Way, Julian, WV**

Mr. Smith:

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 the WV Training and Conference Center Kitchen Renovation in Julian, WV. Established in 1959, ZMM is a West Virginia based, full service A/E firm, and is noted for design excellence and client focus. 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 previous experience providing design services on kitchen projects, our team's experience assisting various state agencies with similar projects, and our ability to offer both architectural and engineering services with our in-house team will help ZMM successfully deliver this project for the Office of Miners' Health Safety & Training.

Below please find a list of additional qualifications of the ZMM team that will lead to the successful implementation of your project:

- **West Virginia State Government Experience.** ZMM regularly works with various state agencies to help implement kitchen, office, recreational, gathering/training space, educational, and residential projects.

ZMM's diverse portfolio includes work for the following state agencies:

West Virginia General Services Division  
West Virginia Army National Guard  
West Virginia Division of Natural Resources  
West Virginia State Police  
West Virginia Department of Education  
West Virginia Department of Agriculture  
West Virginia Department of Transportation  
West Virginia Higher Education Policy Commission  
West Virginia Lottery  
West Virginia School Building Authority

- **Kitchen Design Experience.** In addition to our work with the various state agencies noted above, ZMM has provided design services on kitchen projects throughout West Virginia. While many of the kitchens that ZMM has designed are in schools, readiness centers, and correctional facilities throughout the state, our experience also includes kitchens for gathering spaces such as at the Charleston Coliseum and Convention Center, the Valley Park Community Center, and the cafeteria and Liberty Lounge at the Joint Interagency Training and Education Center at Camp Dawson. ZMM also provided the engineering services to help implement the Capitol Cafeteria project and recently provided design services to upgrade the restaurant, bar, and serving areas at Pipestem Resort State Park.

**Blacksburg**  
200 Country Club Drive SW  
Plaza One, Building E  
Blacksburg, Virginia 24060  
540-552-2151

**Charleston**  
222 Lee Street West  
Charleston, West Virginia 25302  
304-342-0159  
[www.zmm.com](http://www.zmm.com)

**Martinsburg**  
5550 Winchester Avenue  
Berkeley Business Park, Suite 5  
Martinsburg, West Virginia 25405  
304-342-0159

- **Quality.** ZMM has a history of providing high quality design services throughout West Virginia. This quality has been recognized by the quantity of repeat clients, as well as with both statewide and national planning and design awards. *In fact, ZMM's commitment to design quality has been recognized by the American Institute of Architects West Virginia Chapter with twenty-four design awards since 2005 – an achievement unrivaled in West Virginia.*
- **Schedule and Budget Control.** Our team has a demonstrated history of delivering challenging renovation projects on schedule and within the owner's budgetary constraints. We accomplish this by helping to clearly define the scope, and then working as a team to develop affordable design solutions. ZMM also utilizes independent cost estimates to validate the anticipated construction cost.
- **Talent.** With over sixty local employees ZMM provides an integrated design approach by delivering all building related design services including architecture, engineering (civil, structural, mechanical, and electrical), interior design, and construction administration in-house. ZMM's team includes twelve registered architects, fourteen professional engineers, interior and lighting designers, and construction administrators. Our architects and engineers are highly qualified and have worked together to deliver projects with similar scope and complexity.

Thank you for taking the time to review the attached qualifications that includes information about our firm history, anticipated concepts and methods of approach, staff member qualifications, relevant project experience, and references. Additionally, please visit our website at [zmm.com](http://zmm.com) to see the full range of projects that we have designed, and to learn about working with ZMM from a client's perspective. We appreciate your consideration for this important assignment and look forward to the opportunity to assist the Office of Miners' Health Safety & Training with the WV Training and Conference Center Kitchen Renovation project.

Respectfully submitted,

**ZMM Architects and Engineers**



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

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# PROJECT APPROACH

## WV Training and Conference Center Kitchen Renovation:

Anticipated Concepts and Project Approach, Management Plan, Quality Control Plan, Cost Control Plan

### BACKGROUND

The West Virginia Training and Conference Center (WVTCC), located at 431 Running Right Way in Julian, is operated by West Virginia Miners' Health Safety & Training. The facility "offers the community, government organizations and companies a modern conference center with classrooms and access to mine and electrical labs that are furnished with special equipment and the latest technology. Located conveniently near Corridor G/US-119 and the Southridge Shopping Center in Charleston, the WVTCC is available for meeting rentals, conferences and more."



WEST VIRGINIA OFFICE OF  
**MINERS' HEALTH SAFETY & TRAINING**



The WVTCC requires a kitchen to operate as a full-service conference center. A 471 SF space within the existing facility has been identified for the creation of the kitchen. The space is on an exterior wall and an additional 180 SF of refrigeration equipment will be located outside of the existing building perimeter. The current request for Expression of Interest is to select an architecture and engineering firm to complete the following tasks:

- As-Built Documentation of Existing Facility
- Kitching Planning and Design
- Specify Kitchen Equipment and Refrigeration System
- Develop an Implementation Report and Budget



- Provide Engineering Services to Modify the Electrical, Plumbing, and HVAC Systems to Support the New Kitchen. Proposed services will include:
  - Electrical Service for Equipment
  - Gas Service for Equipment
  - Water Service Including Domestic Hot Water Requirements for Equipment and Sinks
  - Sanitary Service
  - Kitchen Hood, Fire Suppression, and Make-Up Air
  - Grease Trap
- Design Improvements to Meet Life Safety Code
- Coordinate Improvements with the Health Department
- Bidding Phase Services
- Construction Phase Services

ZMM Architects and Engineers has extensive kitchen design experience and renovation experience. While many of the kitchens that ZMM has designed are in schools, readiness centers, and correctional facilities throughout the state, our experience also includes kitchens for gathering spaces such as at the Charleston Coliseum and Convention Center, the Valley Park Community Center, and the cafeteria and Liberty Lounge at the Joint Interagency Training and Education Center at Camp Dawson. ZMM also design services to upgrade the restaurant, bar, and serving areas at Pipestem Resort State Park.



### **RENOVATION APPROACH**

Renovation projects require a unique approach, and ZMM has provided design services on renovation projects throughout West Virginia. The first phase in a successful renovation project involves conducting a thorough examination of the existing facilities to identify deficiencies and opportunities. The purpose of the investigation is to determine the condition of the major building systems, and to validate the proposed project scope and budget. ZMM will commence the investigation by developing as-built plans of the West Virginia Training and Conference Center. These plans will be created by manually verifying the existing construction and utilizing any existing plans that are available. All major mechanical and electrical equipment will be identified on the plans, with a focus on the area of the proposed kitchen. Once these plans are complete, ZMM will conduct a facility evaluation with a team of architects and engineers, in conjunction with Miners Health, Safety & Training personnel.

Simultaneously with the existing building evaluation, ZMM will be working WVTCC to establish your vision for the project. This will be achieved through a programming and conceptual design process. During the process kitchen equipment will be selected, and the kitchen layout will be completed. At the completion of this first phase, all required improvements will be identified, and any scope/budget issues will be resolved. The proposed improvements will also be reviewed with the State Fire Marshal as well as the

health department. At the completion of the first phase, all information will be documented in a report format. The combination of the initial visioning, planning, and design, as well as the investigative process identified above, will inform the process moving forward.

Once the first phase is completed, ZMM will develop plans, specifications, and bidding documents for the proposed improvements. Drawings, specifications, and estimates will be submitted for review at the completion of the schematic design, design development, and construction document phases. Once the documents have been approved, ZMM will assist with the bidding and construction phases of the project, including participation in a pre-bid meeting, developing any required addenda, responding to RFI's, reviewing submittals, and conducting and preparing minutes of construction progress meetings. Our efforts will continue through substantial and final completion inspections, and include an eleven month warranty walk through. *Our goal throughout this process will be to act as part of the Miners Health, Safety & Training team, with the objective of ensuring the seamless delivery of your project.*



### **PROJECT MANAGEMENT PLAN**

ZMM Architects and Engineers proposes to provide services on the project with a team of design professionals that have worked together on a variety of renovation projects throughout the state. The team will be led by Adam Krason (Principal) and Rodney Pauley (Project Manager). Mr. Krason and Mr. Pauley have led ZMM's effort on a variety of recent renovation projects, including improvements to the Charleston Coliseum and Convention Center, the State Lottery Building, and State Office Buildings 5, 6, & 7. Other key team members will include:

Carly Chapman	Interior Designer
Grant White, PE	Electrical Engineer
Mike White, PE	Structural Engineer
John Pruet, PE	Mechanical Engineer
Mike Flowers	Plumbing Designer
Mark Epling, AIA	Specifications Writer
Keith Gonzales	Construction Administrator
Amy Rhodes	Construction Administrative Assistant

ZMM's team has successfully collaborated on multiple renovation projects that included kitchens, including several that have been recognized with statewide design awards.

### **ZMM QUALITY CONTROL PLAN**

Quality control during the design phase begins with the selection of team members with experience working on projects that are similar to the current effort. ZMM Architects and Engineers staff possesses the kitchen and renovation design experience to ensure the success of the project. Quality control during the design phase will occur through regular, documented, project meetings between the design team and

MHS&T. In addition to the regular design phase meetings more formal QA/QC will occur at the end of each design phase. A more detailed description of the design phase quality control plan is noted below:

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 commencement. 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. We will commence the design effort with a planning session to help identify your vision for the project.



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 (35%)
- Design Development Phase (65%)
- Construction Documents Phase (95%)
- 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.

6. Staff Training, Assessment and Enhancement

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

utilize Win Strock to provide the independent estimate. ZMM and Mr. Strock have successfully collaborated on a number of projects, including:

- Camp Dawson Building 202 Improvements
- WVSP Information Services Center
- Marshall County Readiness Center
- Logan-Mingo Readiness Center
- Parkersburg Readiness Center
- Williamstown Elementary School
- Building 5, 6, & 7 Improvements
- Beech Fork Lodge
- WV State Police Information Services Center
- Edgewood Elementary School
- WV State Lottery Headquarters Renovation
- Brooks' Manor Addition and Renovation
- WWRTP Building 740 Improvements
- Charleston EDGE (Mixed-Use Housing)



ZMM has a history of working to successfully projects under challenging budget and schedule constraints. We commit to working with you to meet the budget and schedule for the proposed improvements to implement the kitchen at the WWTCC.

# ABOUT ZMM ARCHITECTS & ENGINEERS

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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 with our in-house team. Our integrated design approach makes ZMM unique among architecture/engineering firms, and helps to ensure the quality of our design solutions by providing more thoroughly coordinated construction documents.



ZMM has maintained a diverse portfolio since the founding of the firm. Early commissions included higher education projects for West Virginia University and Concord College, State Office Buildings 5, 6, & 7 on the State of West Virginia Capitol Campus, and armories for the West Virginia Army National Guard.

Maintaining a diverse practice for over 60 years has provided ZMM with extensive experience in a variety of building types, including educational facilities, governmental facilities (military, justice, correctional), healthcare facilities, recreation facilities, commercial office space, light industrial facilities, and multi-unit residential buildings.

The original partners transferred ownership of the firm to Robert Doeffinger, PE and Steve Branner in 1986. Mr. Doeffinger and Mr. Branner helped guide and expand the firm to its present size of 35 people. Over the past 20 years David Ferguson, AIA, and Adam Krason, AIA, LEED-AP joined in ownership of the firm. In 2020, Randy Jones also joined in ownership of the firm when ZMM acquired Blacksburg-based OWPR Architects & Engineers to create a regional design firm that employs more than 50 highly-skilled professionals.

ZMM has become a leader in sustainable / energy-efficient design, and a trusted resource on complex renovation projects. ZMM's unique renovation project approach and ability to



## About ZMM Architects & Engineers (cont.)

provide comprehensive design services has also led the firm to be selected to improve landmark buildings, including the Charleston Coliseum & Convention Center, the Clay Center for the Arts and Sciences, the State of West Virginia Culture Center, and the West Virginia State Capitol Building. Additional significant projects designed by the firm include the Explorer Academy (Cabell County Schools), the Logan-Mingo Readiness Center, the Manassas Park Community Center and Natatorium, the design of the Fourth High School (Frederick County Public Schools), the new Harrington Waddell Elementary School (Lexington City Schools), CAMC Teays Valley ICU, and Ridgeview Elementary School (Raleigh County Schools). ZMM has also provided design services on more than 300 school projects throughout the region.

ZMM's building-related design services include:

### Pre-Design

Educational Facility Planning  
Existing Building Evaluation  
Space Planning  
Master Planning

Programming  
Feasibility Studies  
Site Evaluation and Analysis  
Construction Cost Estimating

### Design

Architectural Design  
Interior Design  
Lighting Design

Sustainable Design  
Landscape Architecture

### Engineering

Civil Engineering  
Mechanical Engineering  
Energy Consumption Analysis

Structural Engineering  
Electrical Engineering  
Net Zero Buildings

### Post-Design

Construction Administration  
Life Cycle Cost Analysis

Value Engineering  
Post-Occupancy Evaluation

As ZMM looks to the future, we remain committed to the ideal of providing high-quality, client-focused design solutions that meet budget and schedule requirements. We listen, we respond promptly with innovative and efficient solutions, and we deliver quality projects and develop lasting relationships. You see us in YOUR community every day.



# AWARD WINNING DESIGN

## 2020

**AIA West Virginia Chapter: Merit Award**  
*Achievement in Architecture for New Construction*  
Mountain Valley Elementary School  
Bluefield, West Virginia



**AIA West Virginia Chapter: Merit Award**  
*Achievement in Architecture*  
Ridgeview Elementary School  
Crab Orchard, West Virginia



## 2019

**AIA West Virginia Chapter: Honor Award**  
**AIA West Virginia Chapter: Citation Award**  
**AIA West Virginia Chapter: People's Choice Award**  
Charleston Coliseum & Convention Center  
Charleston, West Virginia



## 2018

**AIA West Virginia Chapter: Citation Award**  
*Unbuilt Project*  
Charleston EDGE  
Charleston, West Virginia



## 2017

**AIA West Virginia Chapter: Merit Award**  
*Achievement in Architecture*  
Explorer Academy  
Huntington, West Virginia

**AIA West Virginia Chapter: Merit Award**  
*Achievement in Sustainability*  
Logan - Mingo Readiness Center  
Holden, West Virginia



## 2016

**AIA West Virginia Chapter: Merit Award**  
*Achievement in Architecture in Interior Design*  
Christ Church United Methodist  
Charleston, West Virginia

# AWARD WINNING DESIGN

**AIA West Virginia Chapter: Merit Award**

***Achievement in Architecture***

Gauley River Elementary School  
Craigsville, West Virginia



**2015**

**AIA West Virginia Chapter: Honor Award**

***Achievement in Architecture in Sustainable Design***

Edgewood Elementary School  
Charleston, West Virginia



**AIA West Virginia Chapter: Merit Award**

***Achievement in Architecture***

Kenna PK-5 School  
Kenna, West Virginia



**2014**

**AIA West Virginia Chapter: Merit Award**

***Achievement in Architecture in Sustainable Design***

Huntington East Middle School  
Huntington, West Virginia



**AIA West Virginia Chapter: Merit Award**

***Achievement in Architecture***

Southern West Virginia Community & Technical College  
Williamson, West Virginia



**AIA West Virginia Chapter: Merit Award**

***Achievement in Architecture in Interiors/Graphics***

Girl Scouts of Black Diamond Council  
Charleston, West Virginia

**2012**

**AIA West Virginia Chapter: Honor Award**

***Excellence in Architecture***

West Virginia Housing Development Fund Building  
Charleston, West Virginia

**2011**

**AIA West Virginia Chapter: Honor Award**

***Excellence in Architecture in Historical Preservation***

Southside Elementary/Huntington Middle School  
Huntington, West Virginia





# CHARLESTON COLISEUM & CONVENTION CENTER

LEED  
SILVER

LOCATION	SIZE	COMPLETION	COST	AWARDS
CHARLESTON, WV	283,000 SF	2018	\$100M	2019 AIA WV MERIT AWARD, CITATION & PEOPLE'S CHOICE AWARD

The Charleston Coliseum & Convention Center expansion and renovation was a transformational project for both the city of Charleston and West Virginia.

Our team built on the strong authentic character of Charleston to remake the Charleston Convention Center into a more efficient, sustainable, dynamic, and iconic best-in-class destination.

The design of the expansion and renovation of the Charleston Convention Center was inspired by the story of West Virginia. Defined by a rugged landscape, the early history of the state was dominated by extractive industries: salt, coal, timber, and trapping. This set the local character. Our design started with an organizational concept inspired by this history. The Convention Center has distinct active nodes to celebrate each activity; arena, convention, and banquet. These nodes are connected like the hills and cut-rock faces that are seen throughout the state, as people work to connect to each other through the landscape. The first critical design objective was to create separate entries and identities for the arena and convention center. This allowed for simultaneous events and clarity of use. For the Convention Center to thrive, it needed a real ballroom assembly space. Located overlooking the Elk River, the ballroom pre-function space is the most dramatic feature of the center.





# JOINT INTERAGENCY TRAINING AND EDUCATION CENTER (JITEC)

LEED GOLD

LOCATION KINGWOOD, WV	SIZE 283,000 SF	COMPLETION 2013	COST \$100M	AWARDS 2011 AIA WV HONOR AWARD
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**ZMM, in association with AECOM, provided architectural and engineering design services for JITEC, an Army National Guard campus-style facility for training and operational mission support.**

Sited on 30 acres near Camp Dawson, this project included the design of a new operations building, expansion of the billeting facility, renovation of the training facility, and creation of a new base access control point (ACP) and visitor's center. The vision behind the site design and updated master plan is that of a college campus atmosphere. The facility is designed to meet all anti-terrorism/force protection criteria and has achieved LEED Gold Certification. The operations building is prominently sited as the main focal point upon entering Camp Dawson and consists of four distinct areas: the Joint Operations Center (JOC), a suite of secure training rooms, base headquarters and JITEC administrative offices, and a server and telecommunications room.

Built to SCIF standards, the JOC contains a state-of-the-art command center, housing 48 permanent work stations in a theater-style configuration, facing a large video wall, flanked by conference rooms and offices for both officers and support staff. The billeting (hotel) expansion's lobby design provides a hotel atmosphere, underscored by the Liberty Lounge, an upscale bar and restaurant area, with wood finishes salvaged from the gymnasium floor of the former Preston County Armory.





# VALLEY PARK COMMUNITY CENTER

LOCATION HURRICANE, WV	SIZE 31,216 SF	COMPLETION 2018	COST \$8M
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The 31,216 SF Community Center building is the centerpiece of a multi-million dollar improvement to the existing Valley Park in Hurricane, WV.

The park's previous community building was torn down to make way for a larger, updated Community Center that includes 7,750 SF of conference space, a commercial kitchen, offices for the Putnam County Parks and Recreation Commission, and offices, locker-rooms, and concessions for the existing wave pool.

The exterior design plays off the existing Commons Building, which incorporates stone accents, wood siding, and multi-sloped roofing around a floor plan that emphasizes the internal components. The Community Center entrance is highlighted by a large, exposed-wood truss bearing on tall, battered stone columns. These wood beams are featured at all entrances and carry into the meeting room prefunction to provide a fully-exposed, open wood structure. The majority of the building perimeter is brick veneer with the taller meeting room and entrance separated by cast-stone banding. The more detailed façades for the prefunction space and office blocks feature punched windows set in horizontal wood siding with a stone veneer wainscot, which gives the building a lodge-like feel. Sloped, standing seam metal roofing highlights the more visible portions of the building, while flat roofs cover the support spaces.





# MANASSAS PARK COMMUNITY CENTER

LOCATION | SIZE | COMPLETION | COST  
MANASSAS PARK, VA | 79,280 SF | 2010 | \$18.5M

The Manassas Park Community Center is a multi-generational facility designed to meet the recreation and community use needs of all the citizens of Manassas Park.

Features of this multi-generational facility include a large entry rotunda with a central control desk that provides visual control over the main corridors, two full-size basketball courts, and a twenty-five-yard eight-lane pool with zero-depth entry area featuring water jets and other play features.

Other features include two community event/banquet rooms with individual access to a catering/commercial kitchen, a pre-function area with access to an outdoor patio/garden area to serve as overflow space for large events, a series of multi-use rooms that can be used individually or combined into larger spaces, a pre-school room, a teen room, a senior citizens room, and a separate Parks and Recreation administrative office area with its own entrance.





# WEST VIRGINIA STATE CAPITOL

LOCATION | COMPLETION  
CHARLESTON, WV | 2007-2021

ZMM Architects & Engineers has completed a variety of improvement project to the State of West Virginia Capitol Building.

The improvements included a renovation to the lower-level food court, a roofing replacement, toilet renovations, and various HVAC improvements – including a project to increase safety during the Covid-19 pandemic. The food court renovations included a full-service kitchen, self-serve area, and seating for 300 people. ZMM worked with a kitchen consultant and provided demolition drawings, base architectural, mechanical, and electrical drawings. The project also included the design of the first phase of a wet pipe sprinkler system. In addition, ZMM also provided the documents to replace the Capitol medium-voltage transformers. ZMM met a stringent timeline for a critical construction completion date.

ZMM replaced the roof of the Capitol Building, which included the main buildings, connectors, and base of the dome. All roof system components were reviewed for integrity and ability to control moisture collection and removal. The components included in the project were parapet walls, railings, wall conditions, colonnades, roof penetrations, roof drains, roof equipment, and walking surfaces. Additional projects included improvements to the Senate toilets, a report that mapped all of the mechanical equipment in Capitol Building, and various mechanical improvements to make portions of the Capitol more safe for occupants during the pandemic.





# INTUIT PROSPERITY HUB

LOCATION BLUEFIELD, WV	SIZE 44,000 SF	COMPLETION 2020	COST \$4.4M
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ZMM worked in collaboration with CBRE, Gensler, the City of Bluefield, and Pray Construction to assist Intuit with the development of its next “Prosperity Hub.”

The former First National Bank building was constructed in 1970. The two-story modern building with marble, aluminum, and glass veneer is comprised of two connecting structures and a parking garage. CBRE was responsible for project management, while Gensler was responsible for programming and the tenant fit-up schematic design. ZMM was responsible for core and shell architectural and engineering work, as well as the fit-up portion from design development through completion. ZMM's effort commenced with a facilities assessment to assist with the scope and budget, which determined the condition of the major building systems, and identified immediate and long-term enhancements required.

The intent was to convert the facility into an office space/customer support center with administrative suites, training rooms, and a break space. The upper levels have an open plan for workstations. One of the challenges involved converting this building with varying floor heights into an accessible office, which was met through the use of creative space planning, refurbished elevators, and raised access flooring. The final design provides a contemporary, safe, and healthy work environment that highlights the branding and contemporary finishes desired by Intuit.





# WOOD COUNTY TECHNICAL CENTER

LOCATION | SIZE | COMPLETION | COST  
PARKERSBURG, WV | 59,500 SF | 2020 | \$10.4M

**This project consisted of a two-story, 28,500 SF addition and renovation to the existing single-story 31,000 SF facility.**

One-story and two-story areas were constructed on the south end of the existing building, which relocated the building's main entrance and added a bus loop and parking lot. The addition showcases the new entry lobby and a flexible 3,500 SF commons space for multiple classroom settings, large group events, and other public/community functions. The existing facility was dated and located adjacent to Parkersburg South High School. One of the owner's goals was to enhance the center's educational spaces and provide a separate identity for the technical center, differentiating it from the high school, as the center serves all students in Wood County.

The licensed practical nursing and adult education programs were relocated to the addition from another facility. 4,000 SF were added to the undersized welding shop. The new two-story area, administrative office area, and welding lab were constructed with a brick veneer façade. The new stair towers and entrance were clad in metal wall panels. The office suite areas were constructed with partitions, providing flexibility for future expansion or reconfigurations. The existing building was reconfigured to accommodate an options classroom, ProStart catering kitchen and classroom, and a therapeutic lab/classroom. Exterior windows and insulated panels were replaced, along with exterior doors and door hardware.





## ST. ALBANS HIGH SCHOOL

LOCATION | SIZE | COMPLETION | COST | AWARDS  
ST. ALBANS, WV | 216,500 SF | 2003 | \$24M | IMPACT ON LEARNING AWARD & EDUCATION DESIGN SHOWCASE

One outstanding feature of the completed renovation of St. Albans High School is its unique, inviting physical entryway and the aesthetically pleasing and functional commons/cafeteria area.

The commons is a visual focal point of the school, creating a natural flow from the front entrance through the commons to the outside assembly/instructional area. It also serves as a connecting hub between the academic spaces and the physical education and auditorium areas. Significant green space was retained and enhanced, providing an inviting and safe approach to the high school building. An outside amphitheater, located adjacent to the music and theater departments, provides ample space for music and drama productions, as well as a gathering space for students. In response to the students' need for more "outside living space," the rear dining plaza was created. It has a visual impact both from the interior and on the exterior of the building, and provides a flexible learning environment for the students and educators.

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





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



## Role

Principal

## Professional Registrations

Registered Architect (WV, OH, KY, VA, MD, NJ)  
LEED Accredited Professional  
Accredited Learning Environment 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

### Charleston Coliseum & Convention Center, Charleston, WV

Mr. Krason served as principal-in-charge of the expansion and renovation to the Charleston Civic Center. The \$75M, 283,000 SF design-build project is being completed as a collaboration

## 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

- WV American Institute of Architects, President
- Habitat for Humanity Kanawha & Putnam County, Board of Directors 2011 - 2014
- WV Qualification Based Selections Council, President, 2012/2013
- Leadership WV 2010 - 2012
- Charleston Rotary
- West Side Main Street, Board of Directors 2008 - 2014
- City of Charleston Land Trust 2008 - 2014

with tvsdesign and BBL Carlton. Mr. Krason was responsible for the overall management of the design team, coordination with the client, and also has input critical project management decisions. The design commenced in the spring of 2015, and construction was complete in 2018.

**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. This project received LEED Gold Certification.

**Morgantown Readiness Center (WVARNG), Morgantown, WV**

Mr. Krason was the project architect on the new Morgantown Readiness Center. This facility is a unique due to its location on an abandoned airport runway at the Morgantown Municipal Airport. The 54,000 SF Readiness Center occupies a 35-acre tract at the airport. This center supports traditional military functions including the 1-201<sup>st</sup> Field Artillery. A significant portion of the Morgantown Readiness Center supports the 249<sup>th</sup> Army Band. The Readiness Center contains a performance hall, pre-function spaces, as well as a variety of training and rehearsal areas.

**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.

**State Office Building #5, 10<sup>th</sup> Floor Renovation (Office of Technology), Charleston, WV**

Mr. Krason led an architectural and engineering team that completed a detailed assessment of State Office Buildings 5, 6, & 7. Once the assessment was complete, ZMM had the opportunity to implement the proposed 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.

**BridgeValley 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 BridgeValley 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 remediating several life safety deficiencies, as well as improvements to the building envelope.

**Edgewood Elementary School, Charleston, WV**

Mr. Krason was the project manager 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. Mr. Krason worked with students from Watts and Robbins Elementary Schools in Kanawha County, assisting them in an effort to actively participate in the design process

**Participated on the team that won the following awards and acknowledgements:**

2020 WV AIA Merit Award Mountain Valley Elementary School, Green Valley, WV

2019 WV AIA Honor Award Charleston Coliseum & Convention Center, Charleston, WV

2018 WV AIA Citation Award Charleston EDGE, Charleston, WV

2017 WV AIA Merit Award Logan-Mingo Readiness Center, Holden, WV

2016 WV AIA Merit Award Christ Church United Methodist, Charleston, WV

2015 WV AIA Merit Award Edgewood Elementary School, Charleston, WV

2014 WV AIA Merit Award Girl Scouts of Black Diamond Council, Charleston, WV

2011 WV AIA Honor Award Joint Interagency Training and Education Center (JITEC), Kingwood, WV

## Rodney Pauley, AIA



### Role

Project Manager

### Professional Registrations

Registered Architect (WV)

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

#### **WVSOM Tech Building Expansion (Testing Center), Lewisburg, WV**

Mr. Pauley is currently the project manager on the design of the new testing center at WVSOM. The new testing center was designed to connect to the Tech Building to the CEC and will accommodate 220 students. The Testing Center does not have exterior windows, features from both buildings including masonry banding and natural stone elements were used to provide human scale, while natural lighting is introduced in the concourse and pre-function space.

#### **Charleston Coliseum & Convention Center, Charleston, WV**

Mr. Pauley served as project manager on the expansion and renovation to the Charleston Civic Center. The \$75M, 283,000 SF design-build project was completed as a collaboration with

### 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. 2005, Project Architect, VA Firm

### Civic Affiliations

- American Institute of Architects, Member

tvdsdesign and BBL Carlton. The design commenced in the spring of 2015, and construction was completed in the fall 2018.

#### **WV Lottery Headquarters, Charleston, WV**

Mr. Pauley was the project manager and prepared construction documents for renovations to the existing WV Lottery Headquarters complex in Charleston, WV. Renovations to the existing 12-story office building include the demolition and reconstruction of three floors of tenant space and demolition and replacement of the existing roof along with various minor renovations throughout the office tower. The existing 5-story parking deck had extensive structural renovations. Renovations included: replacing bearing pads, patch & repair of concrete members and the addition of waterproofing protection. The existing warehouse under the parking deck was enlarged to provide additional storage space.

#### **Bridgemont Community and Technical College (Davis Hall, Building 704), Montgomery, WV**

Mr. Pauley was the project manager for a design team that prepared construction documents for the renovation to an existing 7-story, 77,000 SF educational building. The project scope included 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.

#### **WVU Institute of Technology, Montgomery, WV**

Mr. Pauley was the project manager responsible for owner coordination and construction document production for renovations to the Engineering Classroom Building at the WVU Institute of Technology campus in Montgomery, WV. The main project scope included various minor interior renovations to the existing 44,000 SF building in support of the Owner's replacement of the building's two elevators. Coordination was critical between ZMM, WVU, the owner's elevator supplier & installer and the WV Division of Labor.

#### **Valley Health Systems, Wayne, WV**

Mr. Pauley was the project manager on the new health clinic in Wayne, WV. ZMM prepared construction documents for a new, one-story medical building operated by Valley Health Systems of Huntington, WV. The building is 15,580SF on a 2-acre site including approximately 100 parking spaces. Valley Health Systems provides primary and preventative care to the medically underserved population of southern West Virginia. The new building will replace an existing undersized facility.

**Edgewood Elementary School, Charleston, WV** Mr. Pauley was the Project Manager for the design team that developed a new 60,000 SF elementary school in Kanawha County. The school was 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 was designed to function like a children's museum, providing a variety of learning opportunities, and flexible educational spaces. The school also brings visible integrated sustainable design principles to serve as a teaching tool for the students.

# John Pruett, PE, LEED AP



## Role

Senior Mechanical Engineer

## Professional Registrations

Professional Engineer (WV, VA, IN)

LEED Accredited Professional

Mr. Pruett is responsible for overseeing the design of the HVAC systems, ensuring that the HVAC systems not only meet the program requirements, but meet the long-term needs of the owner. He performs heating and cooling load calculations and recommends the type of systems to be incorporated into the building. He coordinates with the other disciplines in order to integrate the HVAC systems into the building. Mr. Pruett has participated on several LEED registered projects; one of his key contributions to these projects is conducting energy analyses and recommending energy use reduction alternatives.

Mr. Pruett began his career in engineering with a manufacturing company in 1994. In 1998, he made a career change and joined an engineering consulting firm as an HVAC design engineer. He has a broad range of experience in HVAC systems design, including K-12 schools, higher education facilities, office buildings, libraries, hotels, restaurants, a convention center and several natatoriums. Having served in the Marines for 14 years, Mr. Pruett also led a design team for a "virtual memorial" for the birthplace of the U.S. Marine Corps.

## Project Experience

WWARNG Camp Dawson Building  
WWARNG Camp Dawson Building 246  
WWARNG Camp Dawson Building 301  
WWARNG Camp Dawson Mail Facility  
WWARNG Marshall County Readiness (Design)  
WWARNG Camp Dawson Job Challenge Academy

**Wood County Justice Center, Parkersburg, WV** Mr. Pruett was responsible for the HVAC systems design for the LEED Silver project comprised of the judicial courts, Sheriff's department and holding cell area. The project utilizes high-efficiency custom air handling units, including an energy recovery unit for the holding cell area, which has helped reduce energy consumption on the project by 18% compared to a baseline analysis.

## Tucker County Courthouse Annex, Parsons, WV

Mr. Pruett was the Mechanical Engineer for the Courthouse Annex renovation project and responsible for the HVAC

## Education

Bachelor of Science, Purdue University, West Lafayette, IN, 1993

## Employment History

2021- Present, Board of Directors, ZMM  
2010 - Present, Project Engineer, ZMM  
2007 - 2009, Sr. Mechanical Engineer, IN  
2003 - 2007, Mechanical Engineer, IN  
1999-2003, Project Engineer, Fort Lauderdale, FL

## Civic Affiliations

- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Member
- United States Marine Corps – 14 Years

systems. 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.

**Huntington East Middle School, Huntington, WV** Mr. Pruett was responsible for the HVAC systems design. This school features numerous sustainable features, including an air monitoring system for verifiable indoor air quality, variable refrigerant flow (VRF) systems for portions of the school that will operate year-round, preheating of the domestic hot water with the heating hot water return. Mr. Pruett also conducted an extensive energy analysis of the building and all of its systems to maximize the effect of each component, resulting in a projected reduction in energy consumption of 32% compared to a baseline analysis.

**Edgewood Elementary School, Charleston, WV** Mr. Pruett was the mechanical engineer on the new Kanawha County Elementary School on Charleston's West Side and responsible for the HVAC systems design. 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.

#### **Cabell County Schools**

Barboursville Middle School - Additions and Renovations  
Huntington East Middle School  
Huntington High School - Controls system replacement for Explorer Academy  
Cabell County Bus Garage  
Southside Elementary/Huntington Middle School  
Huntington High School – Cooling tower replacement  
Cabell Midland High School - Cooling tower replacement  
Martha Elementary School- Addition  
Salt Rock Elementary Renovations  
Cabell County Career & Technical Center – HVAC Replacement  
Huntington High School Wrestling Room Addition  
Milton PK - Additions and Renovations

#### **Fayette County Schools**

New River Primary / Oak Hill Middle School  
Valley High School - Gym addition  
Oak Hill High School – Renovations  
Fayetteville PK-8 - Renovations  
Midland Trail High School - Renovations  
Valley PK-8 - Renovations  
Meadow Bridge Elementary - Renovations  
Divide Elementary - Additions and Renovations

#### **Putnam County Schools**

Hurricane High School - Renovations  
Putnam Career & Technical Center – Welding Shop

#### **Valley Health Systems, Wayne, WV**

Mr. Pruett was the mechanical engineer on the new health clinic in Wayne, WV. ZMM prepared construction documents for a new, one-story medical building operated by Valley Health Systems of Huntington, WV. The building is 15,580SF on a 2-acre site including approximately 100 parking spaces. Valley Health Systems provides primary and preventative care to the medically underserved population of southern West Virginia. The new building will replace an existing undersized facility.

## Michael J. White, PE



### **Role**

Structural Engineer

### **Professional Registrations**

Professional Engineer (WV, KY, IN, TN, OH, SC)

Mr. White has more than 10 years of Civil/Structural design and engineering experience. Project experience includes new construction and renovation work involving the design and analysis of reinforced concrete, wood, structural steel, masonry and cold formed steel.

### **Project Experience**

New River Primary, Oak Hill, WV  
Oak Hill Middle School, Oak Hill, WV  
Bluefield Primary School, Bluefield, WV  
Williamstown Elementary School, Williamstown, WV  
Wood County Technical Center, Parkersburg, WV  
Milton PK School, Milton, WV  
Midland Trail High School, Hico, WV  
CAMC Teays Clinic, Teays Valley, WV  
Appalachian Regional Hospitals – DA Tank, Beckley, WV  
Appalachian Regional Hospitals Pharmacy, Beckley, WV  
Rainelle Medical Center, Rainelle, WV  
Valley Health, Milton, WV  
Valley Health, Huntington, WV  
Mountain State Oral and Facial Surgery, Charleston, WV  
Valley Park Community Center, Hurricane, WV  
WVDNR Forks of Coal, Alum, WV  
Marshall County Readiness Center, Moundsville, WV

### **Other Jobs from Past Employers:**

WVU Parkersburg Center for Early Learning - Parkersburg, WV  
WVU Parkersburg Applied Technology Center - Parkersburg, WV  
Marsh Fork Elementary School - Naoma, WV  
BridgeValley Advanced Technology Center - South Charleston, WV  
New River Community and Technical College Headquarters Building - Beaver, WV  
Lewisburg Elementary School - Lewisburg, WV  
Rainelle Elementary School - Rainelle, WV  
Boone County Honors Academy Addition - Madison, WV  
Monongalia County Justice Center - Morgantown, WV  
Lewis Co. Judicial Annex - Weston, WV  
Charleston Correctional Work Release Center - Charleston, WV  
Stevens Correctional Facility - Welch, WV

### **Education**

B.S., Civil Engineering, West Virginia University Institute of Technology, Montgomery, WV, 2006

### **Employment History**

2016 - Present, Structural Engineer, ZMM  
2016, Civil/Structural Lead, Jacobs Engineering Group  
2013 - 2016, Structural Engineer, Chapman Technical Group  
2010 - 2013, Structural Engineer/Project Manager, Moment Engineers  
2007 - 2010, Structural Engineer/Project Manager, Advantage Group Engineers, Inc. (Cincinnati, OH)

# Mike Flowers



## Role

Plumbing Designer/Mechanical Technician

Mr. Flowers is responsible for the design of Plumbing systems, ensuring that the systems are designed to meet the needs of the owner and utilize the latest plumbing technologies to provide the most energy efficient design possible. Mr. Flowers has participated on several LEED registered projects; one of his key contributions to these projects is selecting plumbing fixtures and accessories in his design that require less utility consumption, so significant utility savings are passed on to the owner and the environment as well.

Mr. Flowers has had extensive experience in the field of construction where he frequently visits ZMM's current projects under construction and thoroughly checks the contractors work to ensure compliance with project specifications and construction documents.

## Project Experience

Mr. Flowers has a broad range of experience and knowledge in Plumbing and HVAC systems design. His experience includes K-12 Schools, Higher Education Facilities, Military Facilities, Office Buildings, and Juvenile and Adult Correctional Facilities.

- Morgantown Readiness Center
- Logan-Mingo Readiness Center
- Huntington East Middle School
- Southern WV Community & Technical College
- Lincoln County High School
- Camp Dawson:  
Mountaineer Challenge Academy  
Buildings 202, 246, 301, and the Mail Facility

## Jackson County Armed Forces Reserve Center

**(WVARNG):** Mr. Flowers was responsible for the plumbing design on this project that utilized plumbing fixtures that reduced the total annual water usage by 30% as compared to using standard plumbing fixtures.

His design also incorporated 98% efficient water heating technology that dramatically reduced the total utility consumption for water heating.

## Education

Associate in Mechanical Drafting and Design; 1990, Ben Franklin Career and Technical Center

Associate in Electronics Technology; 1987, Putnam Career and Technical Center

Associate of Science; 1988, West Virginia State University

Completed Dale Carnegie course in Effective Communications and Human Relations and Skills for Success

## Employment History

2001 - Present, Mechanical and Electrical Technician, ZMM

1998 - 2001, Mechanical and Electrical Designer/Manager of CAD Services, ZDS, Inc.

1991 - 1998, Mechanical and Electrical Technician, ZMM

## Civic Affiliations

- American Society of Plumbing Engineers (ASPE), Member Since 2009



## Grant H. White, PE



**Role**  
Electrical Engineer

**Professional Registrations**  
Professional Engineer (WV)

Mr. White brings more than 14 years' experience and serves as the Electrical Engineer at ZMM. Mr. White provides electrical design services for a vast number of projects consisting of commercial, educational, correctional, institutional, and military facilities.

Mr. White 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.

**Project Experience**  
**Keith Albee Theater - Renovations, Huntington, WV**

**WV School of Osteopathic Medicine, Lewisburg, WV**

### **Education**

Marshall University Graduate College,  
South Charleston, WV – Completed  
Project Management and Engineering  
Law classes in the Engineering  
Management Program, 2007 - 2008

Bachelor of Science in Electrical  
Engineering, West Virginia University  
Institute of Technology, 2007

### **Employment History**

2021 - Present, Electrical Engineer, ZMM  
2018 – 2021, Electrical Engineer, CDI  
Engineering  
2017 – 2018, Controls Engineering  
Specialist, Trane  
2014 – 2017, Electrical Engineer, CDI  
Engineering

# Carly Chapman



## Role

Interior Designer

Mrs. Chapman serves as the Interior Designer at ZMM. Mrs. Chapman takes pride in her work's originality and always strives to help the client's vision and intent come alive in the design process. Her experience at ZMM includes Education, Municipal, Residential, Healthcare, and Hospitality projects. In her past position she focused on both Corporate and Healthcare design. Mrs. Chapman's responsibilities include conducting design proposals and presentations, as well as producing design documents and specifications relating to all aspects of interior design.

Mrs. Chapman has served as the interior designer for a variety of projects. Projects range from renovations to new construction and is comprised of every industry. Her responsibilities include design concept, presentation, documentation, specification writing, and architectural drafting.

## Relevant Experience

### **Charleston Coliseum & Convention Center, Charleston, WV**

Mrs. Chapman assisted in the construction administration and interiors of the expansion and renovation to the Charleston Civic Center. The \$75M, 283,000 SF design-build project is being completed as a collaboration with tvsdesign and BBL Carlton. Construction was complete in October 2018.

### **Valley Park Community Center, Hurricane, WV**

The new community center replaced an existing structure that was recently demolished earlier this year. The new building houses a commercial kitchen, administration wing, ballroom, and a locker room complex with administration quarters for the attached Wave Pool.

### **Pipestem Resort State Park Lodge, Pipestem, WV**

Mrs. Chapman is currently the interior designer on the renovations to 88 guestrooms on first floor, bathroom expansions on the 7<sup>th</sup> floor, renovations to the dining area with a bar addition, renovations to all conference rooms, finish selections and renovations in the lobby. ZMM will be replacing the ceilings and lightings in all public spaces and guestroom corridors in the main McKeever lodge building. Mountain creek lodge that sits below McKeever Lodge will receive a new roofing on the guestroom buildings and restroom will be renovated in the main tram building. The newly renovated lodge is set to open this summer 2021.

## Education

Bachelor of Interior Design, University of Charleston, 2012

## Employment History

2016 - Present, Interior Designer, ZMM  
2012 - 2016, Project Manager/Interior Designer, Contemporary Galleries, Inc.  
2010 - 2012, Interior Design Intern, ZMM

### **Charleston EDGE, Charleston, WV**

The Charleston Edge renovation focused on bringing life to an old existing structure in the heart of downtown Charleston. The concept of the design was to create contemporary living quarters for the young urbanites of the city, while also providing a communitive atmosphere by including a rooftop gathering space for locals to enjoy.

### **Bluefield Primary School, Bluefield, WV**

The new school is the result of a consolidation of two local schools in the Bluefield area. The county wanted to bring in architectural elements from both of the former schools. This was accomplished by oval vaulted ceilings and circular windows throughout the building. The school will house Pre-k-2<sup>nd</sup> grade students. Keeping the Bluefield Beavers in mind, the school colors are found throughout the design with the addition of complimentary colors to create a colorful learning environment for the students. No school can be designed without a little fun in mind... A large dry erase mural spans the length of the media center allowing students to express their imaginations.

### **Mountain Valley Elementary School, Green Valley, WV**

Mountain Valley opened its doors in the fall of 2019. The concept for the school was simple – fundamentals. Primary colors and geometric shapes create a fun and easy way to keep the students engaged and ready to learn, while sticking to the basics. A large wall in the media center allows for quiet areas to study or play with built in casework depicting the word “READ” allowing for shelving and seating within the oversized letters. The scheme continues throughout the school seen in the polished concrete floor pattern and 3D shapes protruding above the main entrance for a guaranteed jaw dropping design.

### **Ravenswood Middle School, Ravenswood, WV**

Ravenswood Middle School is an addition to Ravenswood Highschool. The project allows for both schools to share one cafeteria and improve the exterior of the existing high school with the new entrance of the middle school. The interiors were clean, and pattern filled using the school colors, insuring an easy transition from one school to the other.

### **New River Primary/Oak Hill Middle School, Oak Hill, WV**

These schools were designed as separate schools sharing the same site and are connected by a mechanical wing. This building called for a challenging design concept. The schools each had their own unique design theme, but were delicately connected in small aspects of color or architectural techniques, allowing the interiors to flow seamlessly. The PK-2 is community driven in the design. House facades and custom glass adorn the halls drawing the eye to the exposed structure above. The ceilings reflect the sky and are divided by clouds. Collins Middle also was design with the environment in mind. Using biophilic design, wood planked feature walls are found in the entrance corridor and expand to the open structure above.

### **Williamstown Elementary School, Williamstown, WV**

When designing a new school built on tradition, the initial thought of school colors and clean lines comes to mind. This was not the case with the new Williamstown Elementary School. Using the school colors as our basis of design, the county was open to adding complimentary colors to entice the students for a bright and exciting learning environment. Colorful floor pattern adorns the corridors, using the tile for wayfinding and structure for students. In the media center you will find a custom designed tree, dripping in lights mimicking fireflies and a perfect campfire setting for storytelling. The tradition is kept alive with the pops of Maroon and Gold throughout the cafeteria and gym.

### **WSOM Tech Building Expansion (Testing Center), Lewisburg, WV**

Mrs. Chapman is currently the Interior Designer on the design of the new testing center at WSOM. The new testing center was designed to connect to the Tech Building to the CEC and will accommodate 220 students. The Testing Center does not have exterior windows, features from both buildings including masonry banding and natural stone elements were used to provide human scale, while natural lighting is introduced in the concourse and pre-function space.

## Client References

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