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

**State of West Virginia  
 Centralized Expression of Interest**

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**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  
**Vendor Contact Phone:** (304) 342-0159 **Extension:** 234

**FOR INFORMATION CONTACT THE BUYER**

David H Pauline  
 304-558-0067  
 david.h.pauline@wv.gov


Vendor  
 Signature X

FEIN# 55-0676608

DATE 05/17/2022

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

**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.

  
\_\_\_\_\_  
(Name, Title)  
Adam R. Krason, AIA, Principal  
\_\_\_\_\_  
(Printed Name and Title)  
222 Lee Street, West 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contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated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)

  
\_\_\_\_\_

(Authorized Signature) (Representative Name, Title)

Adam R. Krason, AIA, Principal  
\_\_\_\_\_

(Printed Name and Title of Authorized Representative)

05/17/2022  
\_\_\_\_\_

(Date)

(304) 342-0159 / (304) 345-8144  
\_\_\_\_\_

(Phone Number) (Fax Number)



## EXPRESSION OF INTEREST

To Provide Professional Architecture/Engineering Services:  
Volkstone Perimeter Fencing Design at Camp Dawson

CEOI ADJ22000000013  
May 17, 2022





May 17, 2022

Mr. David Pauline, Senior Buyer  
Department of Administration, Purchasing Division  
2019 Washington Street, East  
PO Box 50130  
Charleston, West Virginia 25305-0130

**Subject: Volkstone Perimeter Fencing Design – Camp Dawson  
(CEOI ADJ2200000013)**

Mr. Pauline:

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 Volkstone Perimeter Fencing Design project at Camp Dawson. Established in 1959, ZMM is a West Virginia based, full-service A/E firm, and is noted for design excellence and client focus. Some of ZMM's earliest commissions were at Camp Dawson – including an entry gate and the design of the Preston County Armory.

With over sixty-five local employees ZMM provides an integrated design approach by delivering all 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. ZMM's civil engineers have experience with a variety of fencing projects and will be instrumental in delivering the Volkstone project.

Perhaps most importantly, the ZMM team has worked collaboratively with the WWARNG on a variety of projects at Camp Dawson, including:

Joint Interagency Training and Education Center (JITEC)  
Camp Dawson ACP  
Camp Dawson ACP Improvements and Perimeter Fence and Lighting  
Regional Training Institute (RTI)  
RTI Roof Replacement, RTI Window Replacement  
Kingwood AFRC  
MCA – Jobs Challenge Academy  
Camp Dawson Building 202 Renovation  
Camp Dawson Building 245 Renovation  
Camp Dawson Building 246 Renovation  
Camp Dawson Building 301 Renovation  
Camp Dawson Building 106 Renovation

We are hopeful that you observed our commitment to design quality, budget and schedule control, and client service demonstrated on these projects.

Thank you for taking the time to review the attached expression of interest that includes information about our proposed approach for the Volkstone Perimeter Fencing Design at Camp Dawson, as

**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

well as ZMM's qualifications, and relevant project experience. Additionally, please visit our website at [zmm.com](http://zmm.com) to see the full range of renovation projects that we have designed. We appreciate your consideration for this important endeavor and look forward to meeting with you to discuss the project in greater detail.

Respectfully submitted,  
**ZMM Architects and Engineers**



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

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# PROJECT APPROACH

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## Volkstone Perimeter Fencing Design – Camp Dawson

### Project Approach, Management Plan, Quality Control Plan, Cost Control Plan

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#### Background and Project Understanding

It is ZMM's understanding that the project involves the implementation of a fence for the Volkstone training site at Camp Dawson to improve protection and security. There are potential wetlands that need to be delineated and protected during construction.

The ZMM team has worked collaboratively with the WVARNG on a variety of projects at Camp Dawson, including:

- Joint Interagency Training and Education Center (JITEC)
- Camp Dawson ACP
- Campo Dawson ACP Improvements and Perimeter Fence and Lighting
- Regional Training Institute (RTI)
- RTI Roof Replacement, RTI Window Replacement
- Kingwood AFRC
- MCA – Jobs Challenge Academy
- Camp Dawson Building 202 Renovation
- Camp Dawson Building 245 Renovation
- Camp Dawson Building 246 Renovation
- Camp Dawson Building 301 Renovation
- Camp Dawson Building 106 Renovation



We are hopeful that you observed our commitment to design quality, budget and schedule control, and client service demonstrated on these projects.

**Volkstone Perimeter Fencing Design – Camp Dawson:  
Approach**

ZMM will develop plans, specifications, and bidding documents for the proposed Volkstone Perimeter Fencing Design – **meeting the requirements of Project Goal 2.1**. ZMM has significant experience completing a design and preparing construction and bidding documents to meet both WVARNG and West Virginia State Purchasing requirements. This is demonstrated through both the experience noted above, as well as ZMM's experience working with a variety of state agencies including the General Services Division, Department of Agriculture, and Department of Education.



**Additionally, as required to meet Project Goal 2.5** drawings, specifications, and estimates will be submitted for review at 35% (as noted above), and again at 65%, 95%, and 100%. Our recent experience working with the WVARNG will ensure that all documents meet your requirements and standards – saving the WVARNG additional effort and expediting the design phase of the project. 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 WVARNG team, with the objective of ensuring the seamless delivery of your project.*



**To meet Project Goals 2.2 and 2.3 (providing a preliminary survey, wetland delineation, and geotechnical investigation)** ZMM's civil engineers will work with the WVARNG to select a survey and environmental engineering firm to provide these site investigative services. On past projects at Camp Dawson ZMM has partnered with Potesta and GAI, but we also have experience collaborating with TERRADON, Terracon, CEC, and others. Based upon the outcome of the site investigation, ZMM's civil engineers will provide design services for any required culverts (**Project Goal 2.4**).



ZMM is confident that our experience providing services for a similar fencing and lighting project adjacent to the Camp Dawson ACP demonstrates our ability to successfully deliver the Volkstone Perimeter Fencing Design for the WVARNG.

### **Volkstone Perimeter Fencing Design – Camp Dawson: 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 WVARNG facilities throughout the state, including several projects located at Camp Dawson. The team will be led by Adam Krason (Principal), Nathan Spencer (Project Manager and Architect), and Bill Shelton (Senior Civil Engineer). Mr. Krason and Mr. Spencer have led ZMM's effort on the recent work for the WVARNG at Camp Dawson. Other key team members may include:



Bob Doeffinger PE	Engineering Principal/Mechanical Engineer
Ben McMillan, PE	Civil Engineer
Brent Lawrence, PE	Civil Engineer
Jeremy Sayre	Civil Designer/Technician
Mark Epling, AIA	Specifications Writer
Keith Gonzales	Construction Administrator
Amy Rhodes	Construction Administrative Assistant

ZMM's team has successfully collaborated on multiple projects for the WVARNG, and each team member is familiar with the standards, requirements, and processes that are utilized by the Guard.

### **ZMM Quality Control Plan**

Quality control during the design phase begins with the selection of team members with experience working on projects that are like the current effort. ZMM Architects and Engineers staff possesses the WVARNG 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 the Guard. 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.

### **ZMM Cost Control Plan**

As part of our effort to ensure our ability to meet the WARNG's budget, ZMM will rely on both historic bidding data as well as independent estimates to verify the project budget. For this project ZMM would utilize Win Strock to provide the independent estimate. ZMM and Mr. Strock have successfully collaborated on multiple projects, including:

- Camp Dawson Building 202, 245, 246, 301, and 106 Improvements
- Buckhannon Readiness Center Phase 2
- Marshall County Readiness Center
- Logan-Mingo Readiness Center
- Parkersburg Readiness Center
- Williamstown Elementary School
- Building 5, 6, & 7 Improvements
- Beech Fork Lodge
- West Virginia State Police Information Services Center
- Edgewood Elementary School
- West Virginia State Lottery Headquarters Renovation
- Brooks Manor Addition and Renovation
- WVRTP Building 740 Improvements

ZMM has a history of working to successfully deliver projects with challenging budget and schedule constraints for the WVARNG. We commit to working with you to meet the budget and schedule for the Volkstone Perimeter Fencing Design project.

# 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



# JOINT INTERAGENCY TRAINING AND EDUCATION CENTER (JITEC)

LEED  
GOLD

LOCATION | SIZE | COMPLETION | COST | AWARDS  
KINGWOOD, WV | 283,000 SF | 2013 | \$100M | 2011 AIA WV HONOR AWARD

**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.







# ROBERT C. BYRD REGIONAL TRAINING INSTITUTE

LOCATION KINGWOOD, WV	SIZE 148,000 SF	COMPLETION 2002	COST \$21M
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**The Robert C. Byrd Regional Training Institute at Camp Dawson is a 148,000 SF facility designed to provide training, dormitory, dining, and recreational facilities for the West Virginia Army National Guard.**

The facility, which initially included 183 private dormitory rooms in addition to a wide range of training spaces, is designed to accommodate a variety of both military and civilian training functions. The goal of the owner was to provide a campus within a building, with clear circulation for various uses. ZMM accomplished this objective by employing a large cylindrical mass that marks the main entry where guests could coordinate both their housing and educational needs.

Additionally, the housing wing is joined to the recreational and educational components with a large gathering/transitional space that often serves as an informal meeting area. Due to the success of the project, and growing use of the facilities, ZMM assisted the West Virginia Army National Guard with a training and dormitory expansion that transformed the facility into the Joint Interagency Training and Education Center (JITEC).





# KINGWOOD ARMED FORCES RESERVE CENTER

LOCATION | SIZE | COMPLETION  
KINGWOOD, WV | 56,200 SF | 2000

**The Armed Forces Reserve Center houses five National Guard and Army Reserve Units and their support personnel. Its mission is twofold: first, to maintain readiness for its attached units and second, to serve as a resource to the surrounding community.**

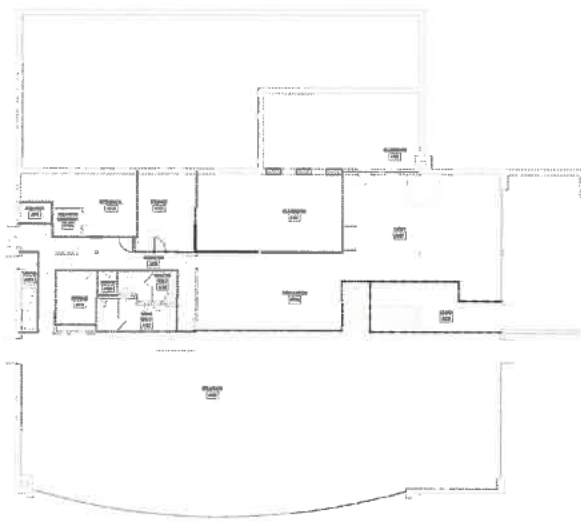
The primary readiness mission for the center's attached units is accomplished by providing designated spaces for each unit as well as general educational and gathering spaces that can be shared among the units. The building's community mission is to provide a gathering space for social functions, a shelter-in-place in times of natural disaster, and a community education resource with distance learning network capabilities. It also includes kitchen and dining facilities and physical fitness areas.



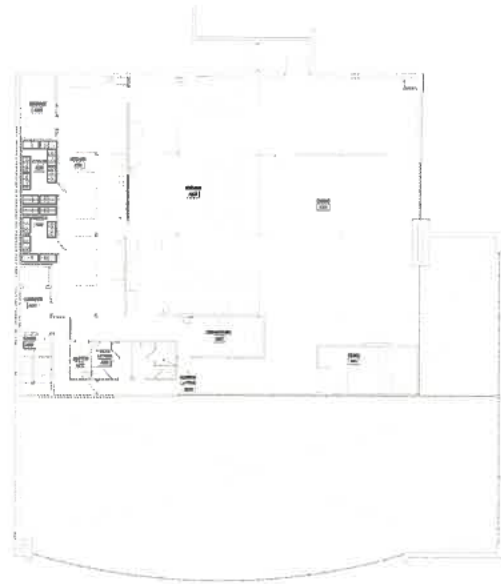
# ADDITIONAL WVARNG PROJECTS

## **Mountaineer Challenge Academy - South** Montgomery, WV

MCA – South involves the renovation of both Maclin Hall and the Tech Center at the old WVU Tech Campus in Montgomery to accommodate the expansion of the Mountaineer Challenge Academy. The Maclin Hall dormitory was renovated to include a new security system to reflect the new user's needs. The Tech Center received more extensive renovations including a new roof. The lower level of the Tech Center was renovated to have two new classroom spaces. The upper level was renovated into new classroom and office space. This floor will have three computer classrooms and one standard classroom. A new HVAC system, ceilings, finishes, and LED lighting are all a part of this renovation.



2007 MCA South - Tech Center - First Floor



2007 MCA South - Tech Center - Second Floor

## **Camp Dawson Mail Room** Kingwood, WV

The Mail Room at Camp Dawson is a new 2,400 SF facility located at the entrance to Camp Dawson. The facility houses both the mail facility and the ID Center which serves all of the buildings on the campus. As part of this project, the exterior lighting along the perimeter fence will also be upgraded to meet current anti-terrorism/force protection guidelines. A new cable barrier and chain link fence will be installed around the facility to isolate it from the other buildings on campus.

## **Camp Dawson STF - Building 'B'** Kingwood, WV

The STF Building 'B' at Camp Dawson is a new 7,250 SF facility designed in close collaboration with the Camp Dawson Special Forces unit to satisfy several of their current needs. The facility has a large storage room, a small training area, multiple interview rooms, and a multi-functional work room. The structure of the building will be a pre-engineered metal building.



# MORGANTOWN READINESS CENTER

LOCATION | SIZE | COMPLETION | COST  
MORGANTOWN, WV | 54,000 SF | 2013 | \$22M

**The Morgantown Readiness Center is a unique military facility. While supporting traditional military functions including the 1-201st Field Artillery, a significant portion of the building was designed for the 249th Army Band.**

The Readiness Center contains a performance hall, pre-function spaces, as well as a variety of training and rehearsal areas. The stage is a large rehearsal space with an adjacent elevated recording area. A large operable partition separates the auditorium from the drill hall. Acoustically, this challenge was met by creating a drill hall with an irregular shape contained within a rectilinear, sloped barrel arch form.

The facility is located on an abandoned airport runway approximately 20 miles from Camp Dawson. As troops will often travel through the Readiness Center, the facility needed to function as a "gateway." This was accomplished by utilizing similar materials and a tower-like feature to mark entry.

The Morgantown Readiness Center is also a sustainable building. The U-shaped layout of the facility improves access to daylighting and views, while also limiting public access to the Guard's administrative and storage areas. The final result is a harmonious composition that reflects both its function and the environment.





# LOGAN-MINGO READINESS CENTER

LOCATION HOLDEN, WV	SIZE 54,000 SF	COMPLETION 2015	COST \$12M	AWARDS 2017 AIA WV MERIT AWARD
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The design of the Logan-Mingo Readiness Center was developed by examining both the program and building site, and developing strategies to design a facility that is functional, responds to site, security, and aesthetic parameters, while requiring minimal maintenance.

The building layout was developed by working closely with the end users to determine the appropriate configuration of building spaces to maximize the efficiency of the operations, and to respond to the unique missions of the 150th Armored Reconnaissance Squadron and the 156th Military Police (LNO) Detachment. This was accomplished through clear separation of public and private areas within the facility, unique office configurations related to training requirements, and the addition of state-funded additional spaces.

The exterior (and in many cases, the interior) aesthetic of the facility was driven by the location of the Readiness Center within an industrial park on a reclaimed surface mined site. The decision led to the use of reinforced cast-in-place retaining walls that became both a functional and visual focus. Similar walls are used to anchor the facility at the Distance Learning Center, while a cast-in-place retaining wall and natural stone serves as a part of the Anti-Terrorism/Force Protection design.





# GLEN JEAN ARMED FORCES RESERVE CENTER

LOCATION | SIZE | COMPLETION | COST  
GLEN JEAN, WV | 110,000 SF | 2004 | \$17M

The Glen Jean Armed Forces Reserve Center contains three distinct military functions: a facility for routine maintenance of over-the-road and tracked military vehicles, an armory housing four West Virginia National Guard units, and the Southern West Virginia Military Entrance Processing Station, where new recruits officially enter the military system.

The brick exterior walls are highlighted with limestone and metal trim accents. A large assembly hall, plus classroom and training space, enhance the ability of the armory building to provide training for military personnel, while also providing much-needed space for community functions.

The Glen Jean AFRC also employs a sloped natural-stone buffer to meet federal anti-terrorism and force protection guidelines. The project has also become an important community resource and served as a meeting location during the development of the nearby Summit Bechtel Family National Scout Reserve.





# JACKSON COUNTY ARMED FORCES RESERVE CENTER

LOCATION | SIZE | COMPLETION | COST  
MILLWOOD, WV | 75,000 SF | 2011 | \$20M

**The building design was inspired by the adjacent Georgian-style Order of the Eastern Star facility.**

The primary user for the WVARNG will be DET 1 821st Engineering Company, supported by a FSC of the 1092nd. USAR occupants include PLT AMMO 261 OD and PLT 1 (Postal) and PLT 6 (Postal) of the 44th Personnel Company. An expanded drill hall serves as a convention and meeting space. The relationship between the structures became crucial to the site layout. Once the aesthetic of the building was established, the massing of the facility was defined by breaking down the facility into smaller mass elements. The larger programmatic elements, such as the drill hall and the storage areas, employ an aesthetic that more closely implies their function.

The layout of the facility includes a main entry with the recruiting, family support, and administrative areas located on separate sides. A transverse wing houses all functions that have the potential for public use, while all primary military spaces developed along a similar perpendicular wing. This allows for separate entries to be developed for public functions, while the remainder of the facility can be secured. The layout also creates a large central courtyard, or parade field, that would be located at lower grade to define the edge facing the river. This edge is defined by a canopy that connects storage and locker areas to the expanded drill hall.





# CONSTRUCTION & FACILITIES MANAGEMENT OFFICE

LOCATION | SIZE | COMPLETION | COST | AWARDS  
CHARLESTON, WV | 19,935 SF | 2008 | \$3.5M | 2009 AIA WV MERIT AWARD

**The Construction and Facilities Management Office (CFMO) Expansion project brought all of the operations of the CFMO together under one roof.**

The branches that occupy this facility include the Director of Engineering, Environmental, Planning and Programming, Facility Operations & Maintenance, Business Management, Resource Management, and Design and Construction. This expansion is located slightly to the front, and adjacent to the existing facility, lending prominence to the new construction, and providing a new aesthetic to the entire complex.

A transitional space was designed to connect the new structure to the existing facility, while maintaining a connection to the outside through use of natural light, direct visual connections to the exterior, large volumes, irregular geometries, and the use of natural materials.

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







# TACKETT FAMILY READINESS CENTER

LOCATION | SIZE | COMPLETION | COST  
CHARLESTON, WV | 7,400 SF | 2011 | \$1.57M

**The Family Support Center is a two-story brick building with a sloped roof stepped into the wooded hillside adjacent to the Army National Guard facilities in Charleston, West Virginia.**

The building is designed to provide for a multitude of military family assistance, guidance, education, training, and mentoring programs. The support center contains 11 office spaces, a chapel, and a variety of classroom and meeting spaces for various programs. The building provides an abundance of natural light and a central fireplace to project a warm, comforting and supportive atmosphere.

To reduce the project cost, ZMM eliminated the need for an elevator by siting the building in a manner that provided accessible entrances and parking at both levels. On the interior, these levels are connected by an open gathering space where stairs surround a central hearth.



# 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 (██████████)  
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.

**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.

**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.

**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.

**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. The justice center is LEED Silver Certified.

**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.

**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

## Nathan Spencer, AIA



### Role

Project Architect

### Professional Registrations

Registered Architect (WV)

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

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

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

### Project Experience

#### **Logan-Mingo Readiness Center, Holden, WV**

Mr. Spencer was the architect on the new Logan-Mingo Readiness Center. The exterior aesthetic of the facility was driven by the location within an industrial park on a reclaimed surface mined site. The building layout was developed by working closely with the end-users to determine the appropriate configuration of building spaces to maximize the efficiency of the operations, and to respond to the unique missions of the 150<sup>th</sup> Armored Reconnaissance Squadron and the 156<sup>th</sup> Military Police (LNO) Detachment. Clear separation of "public" and "private" areas within the facility, unique office configurations related to training requirements, and the addition of State Funded additional spaces.

#### **Jackson County AFRC, Millwood, WV**

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

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

### Education

Bachelor of Architecture, University of Tennessee, 2007

### Employment History

2009 - Present, Architect, ZMM  
2007 - 2009, Intern Architect, ZMM  
2003 - 2007, Summer Intern, ZMM

### Civic Affiliations

- American Institute of Architects, Member

Mr. Spencer participated in the schematic design of the 180,000 SF addition to the Regional Training Institute at Camp Dawson. Mr. Spencer was also responsible for coordinating the production effort for the billeting (hotel) expansion, which increased the total billeting capacity at the JITEC to 600 rooms. This project received LEED Gold Certification.

**Morgantown Readiness Center, Morgantown, WV**

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

**Beech Fork State Park, Lavalette, WV (unbuilt)**

Mr. Spencer was the project architect for the new lodge and conference center at Beech Fork State Park. The facility will include guestrooms and other guest-only facilities in one area and public functions such as the restaurant, lounge, gift shop, and conference rooms in another area. All guestrooms offer a lake view, a 2-story atrium opens up at each end of the lobby with curtainwall glazing, and an indoor pool provides a transparent connection to the outdoors. A high-performance envelope was designed to eliminate thermal bridging and the potential for condensation.

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

Mr. Spencer served as project architect on 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. The design commenced in the spring of 2015, and construction was completed in 2018.

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

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

**Judge Black Courthouse Annex, Parkersburg, WV**

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

**Cabell County Bus Transportation Complex, Huntington, WV** Mr. Spencer was the project Architect on the Cabell County Transportation Complex is located on the site of the old Cox Landing Junior High School. Challenges on the project involved retrofitting the old school and site to accommodate the new use. The rear portion of the school was demolished to make room for the new maintenance portion of the building. The remaining front section of the school was renovated to include office space, storage areas, and a new staff development room. The new maintenance area includes a high-bay metal building with 14 back to back work-bays, three of which have hydraulic bus lifts. A hand wash bay and a state of the art automatic wash bay were also included in the project. Extensive sitework was also involved in the retrofit project including a fueling station, bus parking, a sediment pond, and an extensive rework of the existing site utilities.

**Highland Hospital, Charleston, WV**

Mr. Spencer was the project architect on Highland Psychiatric Hospital. Mr. Spencer was responsible for coordinating the production effort for the 60,000+ SF mental health facility. Mr. Spencer also produced several 3-D models throughout the design process. This project consisted of 87,300 SF, \$26M addition to Highland Hospital in Charleston. The addition included: administrative offices, training spaces, 165 patient beds, nurses stations, an out-patient treatment department, pharmacy, laundry, and building service spaces. A pedestrian bridge will connect the new facility to the existing hospital.

## Robert Doeffinger, PE



### Role

Engineering Principal

### Professional Registrations

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

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 over 45 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.

### Selective Project Experience

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

Mr. Doeffinger was the mechanical project engineer on the expansion and renovation to the Charleston Civic Center project. The \$100M, 300,000 SF design-build project was a collaboration with tvsdesign and BBL Carlton. The design commenced in the spring of 2015, and construction was completed in October 2018. The mechanical design is expected to reduce the energy requirements defined by ASHRAE 90.1-2013 by an estimated 25% and extensive water savings will be shown. The project includes a new chilled and hot water central plant with extensive replacement and upgrades to the facilities existing mechanical systems. Multiple phases of construction will allow the Civic Center to remain operational throughout the construction progress.

### Education

Master of Science Architectural Engineering, The Pennsylvania State University, 1976

Thesis: Air Change Measurements using a Tracer Gas Technique

Bachelor of Science Mechanical Engineering, West Virginia University, 1973

### Employment History

2005 - Present, President, ZMM

1983 - 2005, Vice President and Engineering Principal, ZMM

1976 - 1983, Mechanical Engineer

### Civic Affiliations

- 2019 Marshall University Honorary Alumni Award of Distinction College of Engineering
- 2021 Industrial and Professional Advisory Council – College of Engineering at The Pennsylvania State University
- ASHRAE – Member of the Technical Committee Load Calculations Data and Procedures for 25 years, serving as chairman. Presently Chairman of the Research Subcommittee
- Advisory Board for the Department of Electrical Engineering Technology, Bridgmont Community and Technical College
- City of Pt. Pleasant, WV – 2<sup>nd</sup> Ward Councilman for 20 years

**State Office Buildings #5, 10<sup>th</sup> Floor Charleston, WV** Mr. Doeffinger was the Project Engineer for this renovation project. The renovation of the tenth floor of State Office Building #5 on the State of West Virginia Capitol Campus was recently completed for the Office of Technology. The renovation was designed to meet the United States Green Building Council's LEED for Commercial Interiors standard. The renovations also include a low profile cable management system which maximizes the flexibility of the space. To commence the project, ZMM conducted a detailed investigation of State Office Buildings 5, 6, & 7, which included recommendations for improvement of the facilities. The renovation of the 10<sup>th</sup> floor of Building #5 was the first major interior renovation project that responded to the recommendations.

**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 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.

**West Virginia Regional Jails**, Mr. Doeffinger was the Project Engineer on ten West Virginia Regional Jails. In 2009 he was responsible for the HVAC renovation on four regional jails, including the replacement of rooftop HVAC units and Building Automation Systems.

**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 served by a 4 - pipe hot and chilled water system with an energy recovery ventilation system. This project received LEED Gold Certification.

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

**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.

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

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

**The Plaza at King of Prussia, Philadelphia, PA** One of the largest retail centers in the USA. Mr. Doeffinger has performed engineering services for the past 20 years. The project consists of an 8,000 - 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 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.

# 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.

# Benjamin S. McMillan, PE, LEED AP



## Role

Civil Engineer

## Professional Registrations

Professional Engineer (WV, VA, KY)  
LEED Accredited Professional

Mr. McMillan has 13 years experience and knowledge in land development throughout Virginia. Mr. McMillan has experience in creating site plans and producing reports and specifications for institutional, commercial, residential, utility-scale solar, and one utility-scale wind project. Site plan preparations included layout, utility plans, grading, drainage, stormwater management, and erosion and sediment control.

Mr. McMillan also attends meetings, interacts with clients and contractors, performs various construction administration duties, and visits projects throughout the design and construction phases. Additional experience includes:

- Experienced in land development for institutional, multi-family residential, commercial, industrial, and utility-scale solar projects.
- Knowledgeable of all phases of land development from schematic design through project close-out.
- Complied with and obtained approval from many different municipal and state agencies in multiple states.
- Proficient in AutoCAD Civil 3D and familiar with other engineering design programs such as Autodesk Storm & Sanitary Analysis, HydraFLOW, HydroCAD, Flowmaster, and PondPack.
- Coordinated site designs with other design disciplines including Architects, Landscape Architects, Mechanical Engineers, Electrical Engineers, Structural Engineers, and Geotechnical Engineers.

## Project Experience

Jackson General Hospital Expansion, Ripley, WV  
New River Medical Mall, Fayetteville, WV  
Health Right Medical Clinic, Charleston, WV  
WV Department of Agriculture Lab Building, Charleston, WV  
Salvation Army, Beckley, WV

## Education

Bachelor of Science in Civil Engineering, Minor in Public and Urban Affairs, Virginia Polytechnic Institute and State University, Blacksburg, VA, 2007

## Employment History

2020 - Present, Civil Engineer, ZMM  
2013 - 2020, Senior Project Engineer, Timmons Group, Richmond, VA  
2008 - 2013, Civil Engineer, OWPR, Blacksburg, VA  
2007 - 2008, Project Engineer, Anderson & Associates, Blacksburg, VA

## Bill A. Shelton, PE



### **Role**

Civil Engineer

### **Professional Registrations**

Professional Engineer (WV, NC, VA)

As a Civil Engineer and department head, it is my responsibility to oversee the design of all aspects of a project site in order to provide our clients with a facility that is safe, functional, efficient, and maintainable. My design and oversight responsibilities include site master planning and layout, roadway design, grading and earthworks, water and sewer system design, storm drainage, and stormwater management design and calculations, as well as erosion control design and calculations.

I also assist clients in pre-design site evaluation and feasibility studies, leading our clients through the site selection process. This also can include existing facility inventories and evaluations where I can help our clients maximize the usefulness of their existing properties. Helping our clients develop master plans of their facilities is another way that I can help them more effectively utilize what they have now and assess their needs for the future.

My goal is to provide excellent client service, to exceed your project's needs, and to add value through creative engineering solutions. OWPR's "hands-on" project management approach allows me to quickly identify and resolve a project's site specific issues with an emphasis on service and follow-through to project completion.

### **Project Experience**

**New River Valley Carillon Medical Center, VA**

**InnovAGE Healthcare, Richmond, VA**

**InnovAGE Healthcare, Salem/Roanoke, VA**

**Bland County Public Schools, VA**

Site Study

**Caroline County Public Schools, VA**

System Wide School Study

**Covington City Public Schools, VA**

Covington High School Expansion Study

Edgemont Primary & Jeter-Watson Intermediate School

New Elementary School Site Study

System Wide School Study

**Frederick County Public Schools, VA**

Administration Building Annex

### **Education**

Bachelor of Science, Virginia Tech,  
1992

Administration Building Site Study  
Evedale Elementary School  
Gainesboro Elementary School  
James Wood High School Track Resurfacing  
Millbrook High School  
Millbrook High & Redbud Run Elementary Schools - MS4 Permit  
Sherando High School Track Renovation  
Transportation/Maintenance Study  
Various Site Studies

**Galax City Public Schools, VA**

Galax High School Addition & Renovation

**Giles County Public Schools, VA**

Eastern Elementary & Middle School Addition & Renovation  
Giles High School Football Stadium Renovations  
Giles County Technology Center Addition and Renovation  
Narrows High School Football Stadium Renovation  
Narrows High School Athletic Facilities Study

# Jeremy M. Sayre

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## **Role**

Site Design/Planning

Mr. Sayre is responsible for assisting with site design for ZMM projects. He has experience which includes design and drawing production from conceptual design planning to finished construction. Mr. Sayre works with the civil engineer and the architect to plan the site circulation, parking, and green space. He is responsible for storm water management and utility layout.

## **Duties and other Experience**

Site Selection Studies  
Technical Plan Execution  
Erosion and Sedimentation Control  
Water, Sewer, Utility Design Reports, Permits, Specifications  
Construction Administration  
Detailed Plan Production  
Create USGS Mapping Overlays for Site Selection  
Grading and Drainage of Sites  
Production of Rendering Drawings  
Knowledge of Land Design  
Knowledge of Planning Principles and Standards

## **Project Experience**

- CAMC Teays Valley ICU Addition, Teays Valley, WV
- WV Health Right Clinic, Charleston, WV
- Shawnee Park Sports Complex, Dunbar, WV
- Valley Park Community Center, Hurricane, WV
- Ceredo-Kenova Elementary School, Kenova, WV
- Crum PK-8 School, Crum, WV
- Wayne High School (Addition), Wayne, WV
- Ripley Kindergarten Center, Ripley, WV
- General Service Surplus Property, Dunbar, WV
- Jackson County EMS Center, Ripley, WV
- Jackson County 9-1-1 Center, Ripley, WV
- Gestamp Loading Docks, South Charleston, WV
- JDL Castle Corp – Rt 60 Mall Road Development, WV

## **Past Firm Experience**

- Logan-Mingo Readiness Center, Logan, WV
- Jackson County AFRC, Millwood, WV
- Morgantown Readiness Center, Morgantown, WV
- Moorefield Readiness Center, Moorefield, WV
- Elkins AFRC, Elkins, WV
- Joint Interagency Training & Education Center (JITEC), Kingwood, WV

## **Education**

Bachelor of Science in Landscape Architecture, West Virginia University, 2005

Associated in Architecture Design and Drafting, West Virginia State University, 2001

## **Employment History**

2014 - Present, Site Designer, ZMM  
2008 - 2014, Land Planning/Design, Capitol Engineering, Inc.  
2005 - 2008, Land Design/Planning, Terradon Corporation

**Role**

Electrical Engineer

**Professional Registrations**

Professional Engineer (WV, MI, VA, TX, MN)  
ISA Certified Automation Profession (CPA)

Mr. Gunnoe has over 12 years of experience in power generation, material handling, and petrochemical process control. His technical expertise is in industrial electrical design with particular focus on industrial controls, automation, and instrumentation. He has been involved in every aspect of project completion from pre-planning, frontend design, detailed design, bidding, construction, and inspection all the way to final programming, system tuning, troubleshooting, commissioning, and long-term support.

Mr. Gunnoe now serves as an Electrical Engineer with ZMM and is responsible for all aspects of the electrical design process including interior and exterior lighting, power distribution, lightning protection, network system design, security systems, safety systems and fire alarms, low voltage control and automation systems, and equipment specifications. He also performs electrical inspections and assessments during construction and can consult and participate in troubleshooting efforts to remedy existing electrical issues.

**Project Experience**

- WV School of Osteopathic Medicine – New Testing Center Expansion, Lewisburg, WV
- WV School of Osteopathic Medicine – Community Health Center, Lewisburg, WV
- Williamson Health and Wellness Clinic, Williamson, WV
- Kanawha County Schools – The New Clendenin Elementary School, Clendenin, WV
- The Keith-Albee Theater Electrical and Life-Safety Upgrades
- Roane-Jackson Technical Center Plumbing and Electrical Renovations

**Education**

Bachelor of Science in Electrical Engineering, West Virginia University Institute of Technology, 2009

**Employment History**

2021 - Present, Electrical Engineer, ZMM  
2014 – 2021, Control Systems Engineer, CDI Corporation, Charleston, WV  
2012 – 2014, Control Automation Engineer, Nitro, WV  
2010 – 2012, Department of Defense, Dalgren, VA  
2008 – 2010, American Electric Power, Brilliant, OH

# Mark T. Epling, AIA, LEED AP, NCARB



## Role

Specifications Writer

## Professional Registrations

Registered Architect (WV, OH)  
LEED Accredited Professional  
NCARB Certification  
Construction Documents Technologist (CDT)

Mr. Epling is responsible for the creation and coordination of Project Manuals including specifications for all ZMM projects. The coordination duties include the incorporation of specifications from several design disciplines including structural, plumbing, HVAC, and electrical specifications.

Mr. Epling's duties also include determining the type and number of bid packages and resulting construction contracts for a particular project, and following through with the incorporation of the appropriate contract forms and contract conditions into the Project Manuals.

Mr. Epling began his career as a licensed Architect in October 1982 and has acquired experience in all aspects of the architectural practice working on a variety of building types including single-family homes, medical clinics, industrial facilities, theatre restoration, commercial-retail buildings, and college dormitory and elementary school remodeling.

Mr. Epling began working at ZMM in February 1998 and has worked in preparation and coordination of working drawings, construction contract administration, and beginning in June of 2006, took on the role of specifications writer and has remained in that capacity.

## Project Experience

Mr. Epling's recent project experience includes the preparation of Project Manuals for the following ZMM projects:

WV Army National Guard - Glen Jean AFRC  
WV Army National Guard - Jackson County AFRC  
WV Army National Guard - Morgantown Readiness Center  
WV Army National Guard - Logan-Mingo Readiness Center  
WV Army National Guard - Marshall Readiness Center  
Joint Interagency Training & Educational Center (JITEC)  
Wood County Justice Center  
Tucker County Courthouse Annex  
New River Primary/Oak Hill Middle School  
Mountain Valley Elementary School

## Education

Bachelor of Architecture;  
Virginia Polytechnic Institute and State University; 1977

## Employment History

1998 - Present, Project Architect & Specifications Writer, ZMM  
1997 - 1998, Project Architect, OH Firm  
1982 - 1997, Architect, Self Employed, Located in OH  
1978 -1982, Intern Architect, OH Firm

## Civic Affiliations

- American Institute of Architects, Member
- West Virginia Symphony Chorus, Member

Williamstown Elementary School  
Kenna Elementary School  
Craigsville Elementary School  
Southside Elementary/Huntington Middle School  
laeger - Big Creek High School  
Lincoln County High School  
St. Albans High School  
Bradshaw Elementary School  
Edgewood Elementary School  
Hacker Valley Pre K-8 School  
Southern WV Community & Technical College  
Bridgemont Community & Technical College  
Milton Middle School  
Barboursville Middle School  
Charleston Coliseum & Convention Center  
WV State Capitol Roof Replacement  
WV State Office Building #5, 6, & 7  
WV Housing Development Fund  
CFMO Expansion  
Houston Company Store  
Erma Byrd Center  
Huntington East Middle School  
Beech Fork State Park Lodge  
CAMC Teays Valley  
Highland Hospital





## Role

Construction Administrator

Mr. Gonzales describes his role with ZMM as Construction Administrator as an exciting and challenging opportunity with new experiences every day. From varying jobsite conditions to the differing professionals, he works with daily, Mr. Gonzales approaches construction administration with over 40 years' experience in the construction industry and the desire to help provide the best outcomes possible for each project.

Mr. Gonzales prior to coming on board with ZMM oversaw the CAD/BIM coordination and design of major projects in the Columbus area. Facebook Data Center, OSU Wexner Cancer Hospital, OSU NDRT Student Housing Project to just name a few. Mr. Gonzales oversaw the 3D BIM modeling and coordination of these projects. He was responsible for ensuring that all trades were coordinated in model space therefore allowing trades to go to fabrication/installation once model was "Clash Free".

Mr. Gonzales project variety includes Educational (K-12 and University), Commercial, Military, Office, Justice (Courthouses, Justice Centers), Healthcare (Health Departments), Roof replacement projects.

## Project Experience

CAMC Chiller Replacement, Charleston, WV  
Hurricane High School Addition, Hurricane, WV  
Charleston Coliseum & Convention Center, Charleston, WV  
Boone County Roof Replacement Project, Boone, WV  
Nicholas County Roof Replacement Project, Summersville, WV  
Summers County High School HVAC, Summersville, WV  
Summers County Bus Garage Renovations, Summersville, WV  
WVSOM Greenspace Renovation Project, Lewisburg, WV  
Calhoun County Pleasant Hill Elementary HVAC Equipment Replacement Project  
Wood County Bell Tower Roof Addition, Parkersburg, WV  
Christ Church United Methodist, Charleston, WV  
Girl Scouts of Black Diamond Council, Charleston, WV  
WVDNR Claudia Workman Fish and Wildlife Education Center, Alum Creek, WV

## Education

Associate Degree Mechanical Engineering, Pittsburgh Technical Institute 1978

## Employment History

2018 - Present, Construction Administrator, ZMM

# REFERENCES

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Todd Reynolds, Deputy Branch Chief  
WVARNG  
1707 Coonskin Drive  
Charleston, WV 25311  
304.561.6446

Greg Melton, Director of General Services  
Capitol Complex Building  
Building 1, Room MB-60  
1900 Kanawha Blvd., E.  
Charleston, WV 25305  
304.558.2317

Mr. David Molgaard, Former City Manager  
Charleston Coliseum & Convention Center  
200 Civic Center Drive  
Charleston, WV 25301  
304.389.2011 cell

Blair Couch, Commissioner  
Wood County Commission  
No. 1 Court Square  
Suite 205  
Parkersburg WV 26101  
304.834.0306 cell

Joel Goughnour, County Administrator  
Tucker County Commission  
211 1<sup>st</sup> Street, Suite 307  
Parsons, WV 26287  
304.478.2866  
304.614.6354 cell