



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

RECEIVED
 04/22/21 09:32:11
 WV PURCHASING DIVISION

Proc Folder: 858601	Reason for Modification:
Doc Description: A&E EOI for Renovation and Assessment Projects at the WVSDB	
Proc Type: Central Contract - Fixed Amt	

Date Issued	Solicitation Closes	Solicitation No	Version
2021-03-22	2021-04-20 13:30	CEOI 0403 DBS2100000001	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, LEED AP, Principal
Vendor Contact Phone: 304.342.0159 **Extension:** 234

FOR INFORMATION CONTACT THE BUYER
 Joseph E Hager III
 (304) 558-2306
 joseph.e.hageriii@wv.gov

Vendor Signature X  **FEIN#** 55-0676608 **DATE** 4-20-2021

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



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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
 Architect/Engr

Proc Folder: 858601			Reason for Modification: Addendum #1 issued to publish the agency responses to all vendor submitted questions.
Doc Description: A&E EOI for Renovation and Assessment Projects at the WVSDB			
Proc Type: Central Contract - Fixed Amt			
Date Issued	Solicitation Closes	Solicitation No	Version
2021-04-12	2021-04-20 13:30	CEOI 0403 DBS2100000001	2

BID RECEIVING LOCATION

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

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Proc Folder: 858601			Reason for Modification: Addendum #2 issued to revise Section 3: Project Specifications of EOI to include Item #9 and extend bid due date.
Doc Description: A&E EOI for Renovation and Assessment Projects at the WWSDB			
Proc Type: Central Contract - Fixed Amt			
Date Issued	Solicitation Closes	Solicitation No	Version
2021-04-14	2021-04-22 13:30	CEOI 0403 DBS2100000001	3

BID RECEIVING LOCATION

BID CLERK
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 2019 WASHINGTON ST E
 CHARLESTON WV 25305
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VENDOR

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Street: 222 Lee Street, West


City: Charleston

State: WV **Country:** USA **Zip:** 25302

Principal Contact: Adam R. Krason, AIA, LEED AP, Principal

Vendor Contact Phone: 304.342.0159 **Extension:** 234

FOR INFORMATION CONTACT THE BUYER
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 (304) 558-2306
 joseph.e.hageriii@wv.gov

Vendor Signature X  **FEIN#** 55-0676608 **DATE** 4-20-2021

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.

ARK, PRINCIPAL
(Name, Title)
Adam R. Krason, AIA, LEED AP, 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.

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)

4-20-2021
(Date)

304.342.0159 304.345.8144
(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI DBS21*01

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 type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input checked="" 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

4-20-2021

Date

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

Revised 6/8/2012

April 21, 2021

Mr. Joseph Hager III, Buyer
Department of Administration, Purchasing Division
2019 Washington Street, East
Charleston, WV 25305



Subject: Renovation and Assessment Projects at the WVSDDB (DBS210000001)

Dear Mr. Hager:

ZMM is pleased to submit the attached qualifications that demonstrate our experience and capability to provide architectural and engineering services. ZMM has joined efforts with Dickinson & Partners, a leader in special needs design. This team combines a trusted local resource, ZMM, with the nation's leading designer for educating facilities for the deaf and the blind.

ZMM is one of few full-service A/E Firms in West Virginia and is noted for design excellence and client focus. ZMM and Dickinson & Partners have completed several projects together including the 2010-2020 Comprehensive Educational Facility Plan. Our team has conducted a multitude of meetings and extensive field investigations that reviewed all the buildings and building systems on campus. The investigations included field measurements of all buildings and developing floor plans in CAD a part of the CEFP process. Recent renovations include: multiple upgrades and renovations to Keller Hall, improvements and renovations to Seaton Hall as well as a new power generator, and masonry restorations and re-roofing to the Blue and Gold Building.

ZMM has completed over 200 educational facilities throughout the state. Our experience in West Virginia spans five decades and has been recognized with both statewide and national planning and design awards. Dickinson & Partners (D&P) offers extensive experience in Programming and design of educational and student housing facilities for the deaf and blind, with the goal of enhancing performance and meeting the needs of owners and users. D&P has been recognized as being among the top firms in the country in areas of special needs, designing various educational centers throughout the states of Virginia, Pennsylvania, New York, and most recently Qatar.

ZMM employs all of the disciplines in-house to undertake the maintenance projects outlined in the request for expression of interest. If selected to provide design services, one of ZMM's office locations is in Martinsburg, WV and would be in close proximity to the project and staff would be readily available to assist WVSDDB. David Ferguson, AIA – Project Principal and John Dickinson, AIA – Project Principal, two professionals with considerable experience and a history of working closely with the West Virginia Schools for the Deaf and the Blind will provide the WVSDDB with a single, central point of contact for all of the design work, while simultaneously allowing all of the work to progress.

Thank you for taking the time to review the attached information that details our project team, firm profiles, experience, qualifications, personnel, and references. Additionally, please visit our website zmm.com to learn more about working with ZMM from a client's perspective. We look forward to presenting our ideas for this project, and appreciate your consideration.

Respectfully submitted,

ZMM, Inc.

A handwritten signature in blue ink, appearing to read 'David E. Ferguson', is written over a faint, larger version of the same signature.

David E. Ferguson, AIA, REFP
Principal

Blacksburg
200 Country Club Drive SW
Plaza One, Building E
Blacksburg, Virginia 24060
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PROJECT APPROACH AND NARRATIVE



ZMM has extensive knowledge of the existing facilities of The WV Schools for the Deaf and the Blind, having completed the Comprehensive Educational Facilities Plan (CEFP 2010-2020) for the entire campus. ZMM conducted a multitude of meetings and extensive field investigations that reviewed the buildings and building systems on campus. The investigations included field measurements of all buildings and developing current floor plans in CAD a part of the CEFP process.

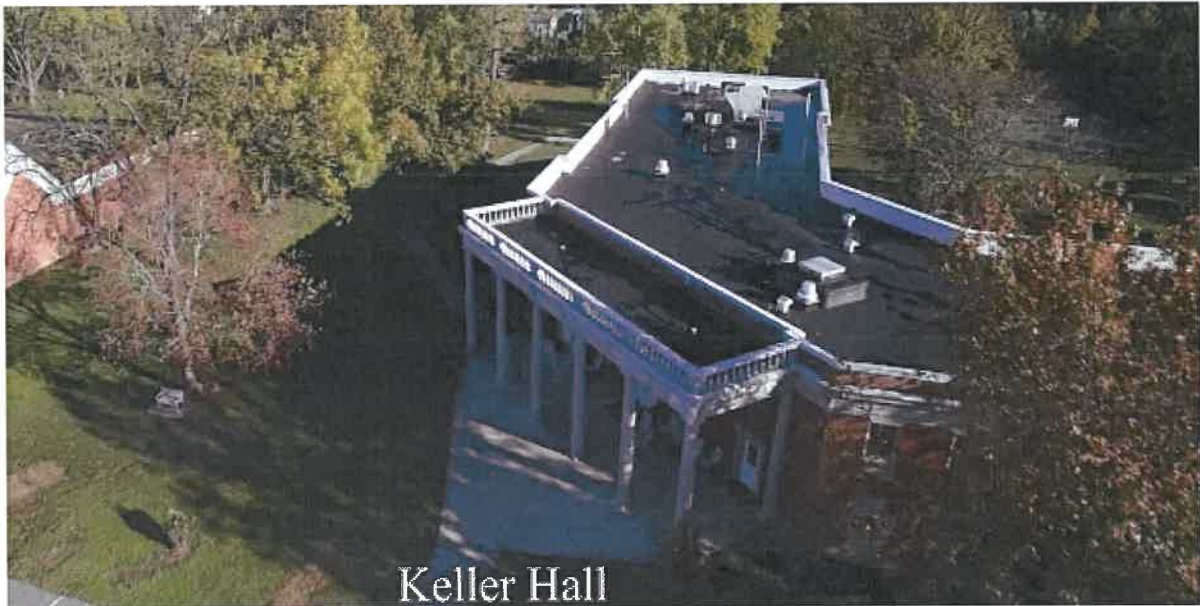
ZMM worked with the campus administration and staff to complete the following projects:

- 2019 – Renovations to Keller Hall. This project was a very short design time to accommodate the 2019 project with the U.S. Military. Renovations included upgrades to the water service, electrical service, restroom / shower, and ADA renovations. The new food service kitchen received interior finish renovations as well.
- 2019 - Renovations to Seaton Hall. This included a new walk-in freezer, improvements to the loading dock, new power generator, and ADA renovations. Portions of this work was completed by the U.S. Military. ZMM conducted structural assessments on the portion of the old bakery that the U.S. Military demolished.



PROJECT APPROACH AND NARRATIVE (Cont.)

- 2019 - ZMM provided design services for the exterior masonry restoration and reroofing for the Blue & Gold Building. This building is on the national historic register and the renovations had to be approved by WWSHPO.
- 2019 - ZMM provided design services to demolish the Arnold House and create a new parking lot adjacent to the WWSB/IRC. Portions of this work was completed by the U.S. Military.
- At the completion of these projects, ZMM provided services to generate life safety plans for Keller Hall.



- The 2019 project with the U.S. Military, ZMM provided design services and construction administration services. Material lists and bid packages were prepared for all project materials to be procured for the Military to install.

As a full-service design firm, ZMM employs all of the disciplines in-house to undertake the maintenance projects outlined in the request for expression of interest. If selected to provide services for the project, ZMM would set up teams under the direction of Project Principal David Ferguson, AIA, and Project Principal John Dickinson, AIA, two professionals with considerable experience and a history of working closely with the West Virginia Schools for the Deaf and the Blind (WVSDB). The team would include an architectural team members Chris Campbell, AIA and Nate Spencer, AIA - Project Architects to undertake the architectural aspect to the dorm wing to administration office renovations and all ADA component updates. The engineering will be led by Senior Mechanical Engineer John Pruet, PE to undertake the HVAC system upgrades and other mechanical upgrades to this project, as well as plumbing. Dave Gunnoe, PE, our Electrical Engineer, will head up the electrical part of the equation. This approach will

PROJECT APPROACH AND NARRATIVE (Cont.)

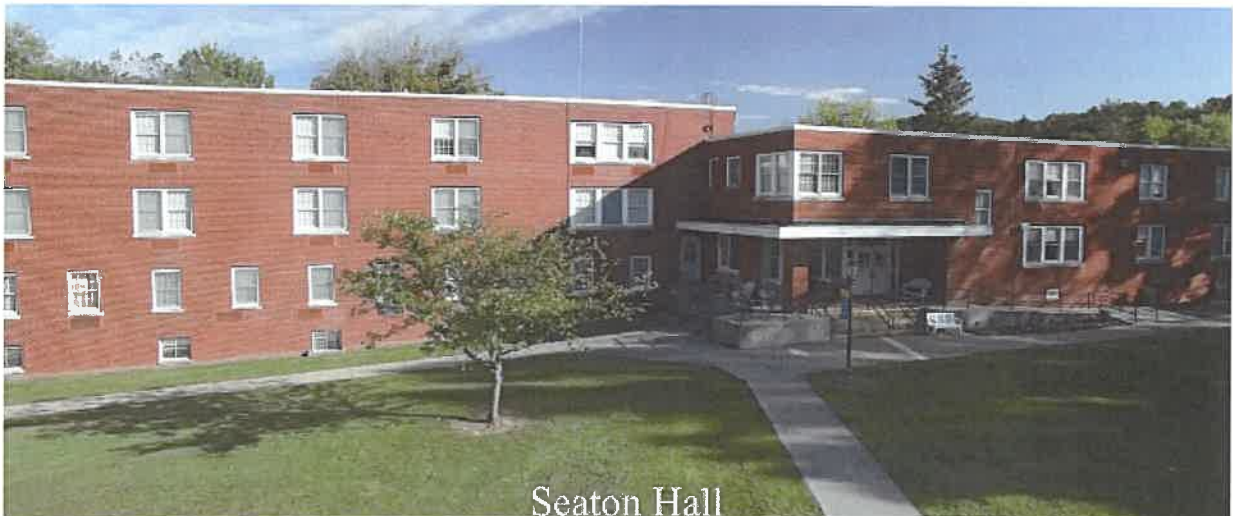
provide the WVSDB with a single, central point of contact for all of the design work, while simultaneously allowing all of the work to progress on time and within budget.

Renovation projects require a unique approach. The most significant challenge with a complex renovation project is clearly identifying all of the required needs, including code related items, and then verifying that the scope can be completed within the available budget. ZMM will ensure that this scope identification occurs by conducting a detailed investigation of the existing facility with a team of architects and engineers. ZMM would commence the project by meeting with your representatives of the WV Schools of the Deaf and the Blind and their team to discuss the building condition, scope, and vision for the project. The team would also review any historic documentation and existing drawings that exist of each facility.



Following the kick-off meeting, ZMM would conduct the detailed investigation of each facility with our team that would include (at a minimum) the project principal, an architect, structural engineer, electrical engineer and mechanical engineer. The investigation would include (but not be limited to) an investigation of:

- Life Safety and Egress (Coordinated with the State Fire Marshal)
- Existing ADA Conditions
- Existing Floor Plans
- Building Structural Systems
- Plumbing/Drainage Systems
- Electrical Service and Distribution
- Mechanical Systems



PROJECT APPROACH AND NARRATIVE (Cont.)

Based upon our extensive renovation experience, ZMM Architects and Engineers has developed a comprehensive assessment tool for building renovation projects, and we would employ our knowledge developed on other recent renovation projects to your benefit. ZMM also understands that the following issues specific to the campus need to be investigated to help fully develop/reconcile the scope and budget for the project:

- HVAC, Electrical, and Window Upgrades at the School for the Blind
- Renovations to Keller Hall including a Roof Replacement, Seaton Dormitory, and the Blue and Gold Building
- Elevator Upgrades to meet ADA Requirements at the School for the Deaf
- Parking Lots to be Completed with Paving and ADA Sidewalks

Based upon the field investigation, ZMM will develop recommended solutions with a focus on durability and maintainability. Itemized cost estimates will also be developed for various options.



The recommendations and estimates will then be reviewed with the WV Schools for the Deaf and the Blind to develop a strategy to implement the required scope of work. The result is an assessment that has been reviewed by all project stakeholders and all review agencies, ensuring that the scope of work and budget have been resolved prior to proceeding into the construction document and bidding phase.

Once the strategy is developed and agreed upon, ZMM will coordinate the plan with the authority having jurisdiction (WV State Fire Marshall's Office) regarding egress while the improvements are being made. Documentation of this coordination would be recorded to avoid any issues during the construction phase. ZMM would then commence with developing contract documents (bidding and construction documents) for the improvements.

PROJECT APPROACH AND NARRATIVE (Cont.)

ZMM commits to delivering both the initial assessment and final bid documents within the time frame set forth by the project criteria. Our ability to provide all services in-house allows us optimum control of the design schedule, and has led to a history of successful performance on projects with challenging schedules.

ZMM will continue to provide services with the same team during the bidding phase. Our team will attend the pre-bid meeting, and assist in answering all bid questions.

The efforts of ZMM's architects and engineers will continue through the construction phase until the final completion of the project. ZMM continues to focus on quality throughout the construction phase by utilizing a dedicated Construction Administrator to coordinate the design team's effort throughout the construction process. The Architects and Engineers on the design team will also provide construction phase services including observation, responding to contractor questions, review of project submittals, attend progress meetings, make interim site visits, and provide substantial and final completion inspections. This approach will improve the communication and coordination between ZMM, the WV Schools for the Deaf and the Blind and the contractor, and will ultimately lead to an improved construction phase. ZMM also recommends an 11 month inspection to ensure the integrity of the completed improvements.



ZMM will keep accurate records during construction and also require the contractor to note any changes during the daily construction process. After the construction is complete ZMM will meet with the Contractor to review any final modifications and then complete any changes into a final set of documents for the Owner to keep as well as requiring the Contractor to furnish the Owner a set of Operational manuals with contacts and warranty information.

ABOUT ZMM ARCHITECTS & ENGINEERS

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



American School for the Deaf - New Gallaudet-Clerc K-12 Education Center

CORE EXPERTISE

Dickinson + Partners (D+P) offers extensive experience in programming and design of educational and housing facilities for the deaf and the blind, with the goal of enhancing performance and meeting the needs of owners and users. Although substantial guidelines exist for addressing design needs for persons with mobility impairments, little formal literature exists that describes the special programming requirements for deaf and blind populations. In response to this need, D+P was founded in 2001 to provide facilities programming and design for special needs projects including facilities deaf, blind, and mobility-impaired users. D+P has consulted on projects all over the world and been recognized as one of the top firms in the world in the area of special needs programming and design. Our clients appreciate our ability to meet schedules, honor budgets and solve problems.

The design of innovative living and learning environments has long been a cornerstone of Dickinson + Partners practice. The profile of designing for today's special needs education facilities is changing. State governments and school agencies are upgrading and expanding programs, facilities and systems to meet new standards, set forth by the Americans With Disabilities Act (ADA) and the International Disabled Standard (IDS) guidelines. In addition, continual advancements in technology and the constant need for adaptive reuse require agencies, architects and planners to be forward-thinking and solution oriented. Plans must provide for new and effective visual and functional communication access for special needs students and their staff.

We Listen, Innovate, and Deliver.

One of the truly measurable, tangible attributes we bring to any project is our adept ability to listen, comprehend, and communicate closely with you every step of the way. We communicate in a language and a manner that is meaningful and of value to you. We do not bring our own agenda or prescription for the design of your building. Instead, we develop ideas and solutions that are custom-tailored for you, and are derived from the unique participants and circumstances that frame any given design venture. You will have at your fingertips a top team with experience and passion for this project type, all whom are committed to elevating the genre of each component each phase of the way.



QUALIFICATIONS

Individuals Assigned to Project and Role:

Name

David Ferguson, AIA, REFP
John Dickinson, AIA, CEFPI
Chris Campbell, AIA, LEED AP
Nate Spencer, AIA
Carly Chapman
Bob Doeffinger, PE
John Pruett, PE, LEED AP
James Lowry, PE
Dave Gunnoe, PE
Mike White, PE
Ben McMillan, PE
Keith Gonzales

Role

Project Principal
Project Principal (Dickinson + Partners)
Project Manager
Project Architect
Interior Designer
Engineering Principal
Sr. Mechanical Engineer
Mechanical Engineer
Electrical Engineer
Structural Engineer
Civil Engineer
Construction Administrator

Registered Architects Licensed in West Virginia:

David Ferguson, AIA, REFP
Chris Campbell, AIA, LEED AP
Nate Spencer, AIA

** Resumes to Follow

David E. Ferguson, AIA, REFP



Role

Principal

Professional Registrations

Registered Architect (WV, OH)

Recognized Educational Facility Planner (REFP)

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

Mr. Ferguson began his career at ZMM in 1984 working on a variety of retail, educational and military projects throughout West Virginia, Pennsylvania, Ohio, Virginia, Maryland, New York, North Carolina, South Carolina, Florida, and Washington DC. In 1996 Mr. Ferguson expanded his expertise into the Healthcare and Industrial and Corporate Office facilities and since then has led the effort at ZMM in Educational Design. Mr. Ferguson is a Recognized Educational Facility Professional (REFP) and has been involved in planning, designing and the construction of over 200 educational facilities in West Virginia. As the architect for the first "green" school building in West Virginia Mr. Ferguson has been an advocate for sustainable design and was involved starting the first US Green Building Chapter in West Virginia.

Mr. Ferguson has also participated in developing West Virginia Department of Education's Policy 6200 *Handbook on Planning School Facilities* and the West Virginia School Building Authority's *Handbook of Quality and Performance Standards*. In addition to Mr. Ferguson's project management responsibilities, as a principal of the firm he has corporate administrative duties and serves on the Board of Directors.

Project Experience Highlights

WV Schools for the Deaf and the Blind, Romney, WV

Mr. Ferguson was the principal on multiple projects at WVSDA. Projects include: the 2010-2020 CEFP, renovations to Keller and Seaton Hall, exterior restoration and re-roofing at the Blue and Gold Building, as well as campus floor plans and a multitude of other design services.

Education

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

Employment History

2007 - Present, Vice President, Secretary/Treasurer, ZMM

2002 - 2007, Vice President, ZMM

2001 - Present, Board of Directors, ZMM

1996 - Present, Architect, Project Manager, ZMM

1984 -1996, Designer, ZMM

Civic Affiliations

- A4LE Southeast Region Board of Directors – WV State Governor
- West Virginia Chapter, American Institute of Architects, Past President
- West Virginia Chapter, American Institute of Architects, Board Director
- American Institute of Architects, Member
- Member, Association for Learning Environments(A4LE)
- Recognized Educational Facility Planner (REFP) by the A4LE
- Professional Member, US Green Building Council
- High School Mentoring/Job Shadowing Program for 6 County School Systems
- WV AIA IDP Program Mentor/Advisor

Marshall University - Smith Hall, Huntington, WV

ZMM worked closely with Marshall University professors to determine the correct acoustics to meet the accreditation needs for the college. Being an extension of the Fine Arts Department, the Owner also felt that it was necessary to address the overall aesthetics for a creative mind and inspire the students. Taking inspiration from the Thundering Herd, the building was transformed with a mature palette and pops of green selected by the renovation committee.

Huntington East Middle School, Huntington, WV Mr. Ferguson was responsible for the programming, design, and project management for the new 800 student, 94,000 SF facility. This is projected to be the first LEED Silver Middle School in West Virginia and encompasses the latest in technology and distance learning within the classroom. The building will be used as a teaching tool along with large interactive monitors throughout the building. Students will be able to learn how the building operates through hands on learning and monitoring the building systems.

Southside Elementary and Huntington Middle School, Huntington, WV Mr. Ferguson led the programming and design effort on this 156,000 SF facility. This project encompasses all phases of construction; demolition, major renovation and new construction. The original historic 26,000 SF three story school building was preserved and the remaining less than adequate facility was strategically removed to accommodate the new addition. The existing facility was completely renovated and brought up to new construction standards to blend with the new addition. The project consisted of two distinct school facilities existing on the same piece of property. The new construction blends seamlessly with the older historic structure.

Explorer Academy, Huntington, WV Mr. Ferguson was the project manager/architect on the this new Expeditionary Learning Incubator School. The new Academy is the consolidation of Peyton Elementary and Geneva Kent Elementary in the east end of Huntington. The schools were combined and housed in the former Beverly Hills Middle School facility that will be remodeled to fit the mold of the Expeditionary Learning model. The curriculum for the program is very hands on, and is a real-world way of learning. Students will be working a lot with community partners, people who are experts in their fields. The students learn by conducting learning expeditions rather than sitting in a classroom with one subject being taught at a time.

Nicholas County Schools

Mr. Ferguson is currently leading the recovery effort for the of \$160 million dollar school system. On June 23, 2016 a flood destroyed three schools. These facilities were left unsafe and un-inhabitable. ZMM has worked with the County Board of education, FEMA, and the State of WV to design and program temporary schools and develop a long range plan to rebuild. ZMM is working on the programming and design for the two new facilities. A community school which will include spaces for the community to access, and a comprehensive High School/Middle School which will include a Career Technical Center. Mr. Ferguson has conducted community Meetings, established goals and priorities, created overall budgets and a project scope all stakeholders will support.

Lincoln County High School, Hamlin, WV Mr. Ferguson was responsible for the programming and design effort for this one-of-a-kind facility. This 800 student, 217,000 SF school was a ground breaking facility for the county, West Virginia School Building Authority and the WV Department of Education. This facility was the first school in West Virginia to incorporate "green" design principals. The school was the first school east of the Mississippi River to encompass a fully comprehensive High School, Vocational School, Health Clinic (open 12 months a year), and Community College within one building. This facility is also the proud recipient of the 2007 WV AIA Honor Award.

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

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

2017 WV AIA Merit Award Explorer Academy, Huntington, WV

2016 WV AIA Merit Award Gauley River Elementary School, Craigsville, WV

2015 WV AIA Merit Award Kenna Elementary School, Kenna, WV

2014 WV AIA Merit Award Southern WV Community & Technical College, Williamson, WV

Project Team

John C. Dickinson, AIA, CEFPI

Principal of Dickinson + Partners

Curriculum Vitae

Education:

Masters in Business Administration,
University of Phoenix, 1998

Bachelor of Architecture,
University of Kentucky, 1988

Diploma, E'cole des Architecture,
Paris, France, 1987

Professional Affiliations

American Institute of Architects (AIA)

Colorado School for the Deaf and
the Blind, Chair of the Board of Trustee

Council of Educational Facility
Planners International (CEFPI)

National Association of the Deaf (NAD)

National Autism Association (NAA)

John Dickinson is one of most prominent deaf architects in the world. A recognized expert in his field, John is often invited to speak, write and participate in conferences and lectures. Mr. Dickinson is the founder of Dickinson + Partners, a consulting firm that offers collaborative visioning, programming, design and planning expertise to schools throughout the country. A wide range of rich experiences have deepened John's perspective, allowing for a holistic approach virtually unparalleled in the industry. Creating architecture with some of the most renown educational architecture firms, he collaborates as an educational facility planner with some of the country's most thoughtful clients.

For over 30 years, John has planned and designed meaningful places for learners across the country. Through an exceptionally creative approach, he has designed schools and living spaces with both focused and playful spaces. As you review his portfolio, you will notice the breadth of artistic expression that results from listening to his client's desires. Working with a focus on community, John is a master at bringing together the school community, parents, students, and the larger community to create consensus and engagement.

Prior to founding Dickinson + Partners, John was Principal and Director of Special Needs Studio at Winter & Company an Architectural and Urban planning firm in Boulder, Colorado.

Professional Experience



AEC New K-12 Deaf School for Girls and Boys
Campus Master Plan, New K-12 Education Center
Doha, Qatar
(Photo left)



American School for the Deaf
New Gallaudet-Clerc K-12 Education Center
West Hartford, CT

Minnesota State Academy for the Deaf for the Deaf
New Residence Hall
Faribault, MN
(Photo left)



West Virginia School for the Deaf and the Blind
CEFP Project
Romney, WV

Tennessee School for the Blind
Campus Master Planning, and Utilization Plan
Nashville, TN
(Photo left)



Chris A. Campbell, AIA, LEED AP



Role

Project Manager

Professional Registrations

Registered Architect (WV)
LEED Accredited Professional
NCARB (53,302)

Mr. Campbell joined ZMM in November of 2017. Prior employment experience includes serving in the capacity of Architect and Project Manager for a variety of projects. This experience includes Educational (K-12 and Higher Education), Commercial Offices, Automotive Dealerships, Justice (Homeland Security and Department of Justice Offices), and Religious spaces. Mr. Campbell's responsibilities include programming, design, documentation, coordination of the architectural and engineering team, and construction administration. Project responsibilities comprised all duties from project inception to completion. Mr. Campbell began his career in 1996 and until 2006 was primarily working on K-12 educational projects throughout West Virginia. From 2006 until present the majority of his projects were Higher Education.

Project Experience

WV School for the Deaf and the Blind, Romney, WV
Stone & Thomas Build-Out for BridgeValley CTC
BridgeValley CTC, Montgomery, WV
– Staats Building Assessment

Williamstown Elementary School, Williamstown, WV
Wood County Technical Center, Parkersburg, WV
Nicholas County High School, Summersville, WV

Project Experience – (With Another Firm)

Arthur Weisberg Applied Engineering Complex,
Marshall University, Huntington, WV

Mr. Campbell was the project architect on the new Applied Engineering Complex. The \$52M, 145,000 SF five-story facility houses six academic and research programs. The facility was designed to promote collaboration and communication between departments, programs, faculty and students. Mr. Campbell was responsible for the overall management of the design team, construction documentation and construction administration. This project was awarded LEED Gold certification which was the first LEED certified building on Marshall University's campus.

Education

Bachelor of Architecture, University of Tennessee, 1996

Employment History

2017 - Present, Architect, ZMM
2006 - 2017, Architect, Project Manager, Charleston Area Architectural Firm
1996 - 2006, Architect, Project Manager, Charleston Area Architectural Firm

Civic Affiliations

- WV American Institute of Architects, President, 2006-2007
- WV American Institute of Architects, Executive Committee, 2001-2009
- WV American Institute of Architects, Intern Development Coordinator, 2000-2005
- University of Charleston, Interior Design Advisory Board (2014 - 2016)

The sustainable design features include stormwater management which is also utilized as an educational tool. A green roof was utilized over the advanced materials testing laboratory. Stormwater is collected from the green roof and samples can be collected in a lower level laboratory allowing opportunities to study ecological effects of various plantings.

New Headquarters Building, Blue Ridge Community and Technical College, Martinsburg, WV

Mr. Campbell was the project architect for the new headquarters building for one of West Virginia's fastest growing Colleges. The \$16M, 45,000 SF facility relocated several of the College's programs from an existing campus which could no longer support the growing student population. The three-story facility is comprised of classrooms, faculty offices, administration, science laboratories, allied health laboratories, and associated student support spaces. Mr. Campbell was responsible for the overall management of the design team, construction documentation and construction administration. In 2016, this project received a Merit Award from AIA West Virginia for the exterior massing of elements and the design intent to incorporate the historic buildings and factories/mills located in Martinsburg. A couple years after the completion of this project, Mr. Campbell presented the College's ten-year master plan to the State Council for the Community and Technical College System of West Virginia. Mr. Campbell was responsible for conducting on-site facility evaluations for all 3 campuses, conducted steering and vision meetings with the College's stakeholders, reported analysis, and prepared the final report.

Virginia Thomas Law Center for the Performing Arts, West Virginia Wesleyan College, Buckhannon, WV

Mr. Campbell was the project architect for the new \$7M performing arts center. The design of the facility reflected the historic administration building while providing a vision for the future. The facility consists of a 374-seat performance hall, gathering spaces, dressing rooms, and building support spaces. The performing arts center was designed to be utilized by the and Theatre and Dance Department as well as offering a public facility for events and conferences. Mr. Campbell's project duties included facility programming, schematic design, overall management of the design team, construction documentation, and construction administration.

University High School, Monongalia County Schools, Morgantown, WV

Mr. Campbell was the project architect for the new 217,000 SF high school. The design of the \$29M, 1,500 student facility was a throwback to the traditional school buildings with a large frontage presence consisting of classrooms. Mr. Campbell's project duties included facility programming, schematic design, overall management of the design team and construction documentation.

Ram Stadium, Shepherd University, Shepherdstown, WV

Mr. Campbell was the project manager for the new 2,100 seat home side bleachers and press box/concessions building. The design of stadium and facility complimented the historic Shepherdstown and campus architecture. Mr. Campbell's project duties included, programming, overall management of the design team and construction documentation. In 2002, this project received a Merit Award from AIA West Virginia for the exterior massing of elements and the design intent to incorporate the historic buildings and factories/mills located in Martinsburg.

Erma Byrd Art Gallery, University of Charleston, WV

Mr. Campbell was the project architect for the Erma Byrd Art Gallery on the campus of University of Charleston. The existing library space in the main administration building had been vacant for several years and the University's goal was to transform the existing space into a multi-user, multi-function space that could be utilized for campus events as well as rented to the public. Mr. Campbell's project duties included facility programming, schematic design, overall management of the design team, construction documentation and construction administration.

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

2016 WV AIA Merit Award Blue Ridge Community and Technical College Headquarters, Martinsburg, WV
2002 AIA Merit Award Ram Stadium, Shepherd University, Shepherdstown, WV

Nathan Spencer, AIA



Role

Architect

Professional Registrations

Registered Architect (WV)

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

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

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

Project Experience

Bluefield Primary School, Bluefield, WV

Mr. Spencer was the architect for the new Bluefield Primary. 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-2nd 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. 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

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

the polished concrete floor pattern and 3D shapes protruding above the main entrance for a guaranteed jaw dropping design.

Edgewood Elementary School, Charleston, WV Mr. Spencer participated on the design team that developed the new Kanawha County Elementary School on Charleston's West Side. The school was designed as a 21st Century Learning Environment, with a focus on integrating technology into the delivery of the curriculum. Instructional areas will be located off 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 integrates sustainable design principles to serve as a teaching tool for the students. A dental and health clinic is also on site for all enrolled students in the Kanawha County School District.

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.

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.

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 150th Armored Reconnaissance Squadron and the 156th 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

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.

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

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 7th 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.

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.

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-2nd grade students. Keeping the Bluefield Beavers in mind, the school colors are found throughout the design with the addition of complimentary colors to creates 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.

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.

Healthcare Experience

Williamson Health and Wellness, Williamson WV
CAMC General Division (C Suite), Charleston, WV
CAMC Memorial Hospital (6th Floor Critical Care Unit), Charleston, WV
CAMC Hurricane Urology Clinic, Hurricane, WV
Rainelle Medical Center, Rainelle, WV
Valley Health, Wayne, WV
Valley Health, Milton, WV
Mountain State Oral Surgeons, Charleston, WV

Appalachian Regional Hospital – Chemotherapy, Beckley, WV

This project was a renovation of a hospital wing to be redesigned for optimal health and wellness for patients undergoing chemotherapy treatment. Both aesthetics and general sanitary design requirements were crucial to making this project successful.

CAMC Post Op, Teays Valley, WV

This project was a renovation of a hospital wing to be redesigned for recovery of Post Operation patients. This project included patient rooms, nurse’s stations, and designing the space for optimal health and wellbeing.

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 35 years design experience in mechanical and electrical systems for buildings. He has a broad range of engineering experience in education, industrial and manufacturing facilities, large retail, correctional and jails, office buildings, and military facilities.

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

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

Project Experience

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 \$75M, 283,000 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, Pennsylvania State University, 1976

Bachelor of Science Mechanical Engineering, West Virginia University, 1973

Employment History

2005 - Present, President, ZMM
1976 - 2005, Vice President and Engineering Principal, ZMM

Civic Affiliations

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

State Office Buildings #5, 10th 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 10th 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, Pittsburgh, PA One of the largest retail centers in the east. Mr. Doeffinger has performed engineering services for the past 20 years. The project consists of a 5,000 -ton chilled water plant and 1,500,000 cfm variable volume system for tenants and constant volume air system for common areas and an engineered smoke control system. The most recent project is a 2011, 100,000 square foot expansion of tenant spaces, a renovation of the food court, and a 1,250-ton chiller addition to the central chilled water plant.



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

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 21st 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'

Education

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

Employment History

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

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

Wayne County Schools

Spring Valley High School – HVAC Renovations

Fayette County Schools

New River Primary / Collins 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

Additional Experience

Valley Health Systems, Wayne, WV

Mr. Pruettt 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.

Wood County Justice Center, Parkersburg, WV Mr. Pruettt 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. Pruettt was the Mechanical Engineer for the Courthouse Annex renovation project and responsible for the HVAC 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.

**Role**

Mechanical Engineer

Professional Registrations

Professional Engineer (WV, PA, OH, MD)

Mr. Lowry is a registered Professional Engineer with design experience in:

- **Industrial**

Bayer Material Science, West Virginia Higher Education Policy Commission, Kuraray America, Armstrong Flooring, Covestro Laboratories.

- **Educational**

Renovations, evaluations and additions at Marshall University, West Virginia University Institute of Technology, Mercer County Schools and various other Schools and Universities statewide.

- **Commercial**

West Virginia Capitol Complex, West Virginia Parkways Authority

- **Health Care**

Renovations, evaluations and additions at Cabell Huntington Hospital, Charleston Area Medical Center, Charleston Surgical Center, West Virginia Department of Health & Human Resources, Huntington VA Hospital and other various healthcare facilities statewide.

HVAC Replacement Projects

WVARNG - MCA South Renovations
Nitro Construction - DOW Modular Lab BLD
Marshall University - Prichard Chiller Replace 190
WVARNG - Kenova SCIF
Clay Center -Founders Lounge Dehumidify
WVHEPC - New River CTC Various Projects
WVARNG Building 202 Renovation
Goodwill Industries. - Teays Valley renovation
Marshall University - Replacement Multizone HVAC
New River CTC - Welding Shop
Pipestem State Park Lodge - Renovations
Walker Machinery - Belle CRC Renovations
CAMC General Hospital - Replace Chillers
GSD - Capitol Guard House

Education

BS, Mechanical Engineering, West Virginia University Institute of Technology, Montgomery, WV, 2004

Employment History

April 2018 - Present, Mechanical Engineer, ZMM
2015 - 2018, Mechanical Engineer, Pickering Associates

Civic Affiliations

- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), President of West Virginia State Chapter

Calhoun County BOE – Pleasant Hill Elementary School - Roof and HVAC
Calhoun County BOE - Pleasant Hill Elementary School - HVAC
WV Higher Education Policy Commission - Southern CTC Various Projects

Additional Project Experience

Wood County Technical Center, Parkersburg, WV

Mr. Lowry was the Mechanical Project Engineer for this project. This project consists of renovations to 80% of the existing facility and an addition of 8 classrooms, one welding shop, multipurpose room and administration areas. The renovations included conversion of admin space to classroom space, conversion of classroom space to pro-start kitchen space, conversions of existing welding shop to new broadcasting shop. Renovations to collision repair, auto mechanics and construction shops to bring them up to current codes and standards. Design of new HVAC system for all renovated areas, including specialized exhaust for the welding, painting, construction, and pro-start kitchen areas. Design of new HVAC systems for the addition classrooms, multipurpose area and admin areas.

WV Army National Guard, Kenova Secured Area, Kingwood, WV

Mr. Lowry was the Mechanical Project Engineer on the renovations of existing facility for the inclusion of a new sand alone secured area with the existing facility. Project conformed to all additional federal/military requirements for secured areas.

WV Army National Guard, Camp Dawson Secured Area, Kingwood, WV

Mr. Lowry was the Mechanical Project Engineer on the renovations of existing facility for the inclusion of a new sand alone secured area with the existing facility. Project conformed to all secured area with the existing facility.

Mountain State Oral Surgeons, Charleston, WV

Mr. Lowry was the Mechanical Project Engineer currently working with the developing contractor BBL Carlton renovations to the existing facility. The existing Office space will be converted to new patent care areas. We evaluated the applicable mechanical and plumbing codes and developed the plumbing construction drawings in conjunction with the Owner and BBL.

Project Experience with other Firms

Cabell-Huntington Hospital, Huntington, WV

Mr. Lowry was responsible for the evaluation and design of the existing facility chilled water distributions systems, design of a new 4600-ton chilled water plant, Development of phased construction plan to construct the new plant and distributions piping for tie-into the existing systems to minimize down time on the existing chilled water systems.

Armstrong Flooring, Beverly, WV

Mr. Lowry was responsible for the evaluation and design of the existing and the connection to existing mechanical systems to serve a new addition to the manufacturing facility. The new addition will consist of storing flooring product, loading docks, and admin area. The new area was designed to be heated via the existing steam systems and provided with humidification to protect the product. The work was designed in a manner to allow for phase of the construction without interruption to the facilities operations.

David Gunnoe, PE, CAP



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

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

**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)

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

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

Keith L. Gonzales



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

- 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 Upgrade, Summersville, WV
- Summers County Bus Garage Renovations, Summersville, WV
- WWSOM Greenspace Renovation Project, Lewisburg, WV
- Calhoun County Pleasant Hill Elementary HVAC Equipment Replacement Project
- Wood County Bell Tower Roof Addition, Parkersburg, WV
- CAMC Chiller Replacement, Charleston, 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



WEST VIRGINIA SCHOOLS FOR THE DEAF & THE BLIND

LOCATION | SIZE | COMPLETION | COST
ROMNEY, WV | 300,000 SF | 2019 | \$2M

Per the direction of the WV Board of Education and the WV School Building Authority, the West Virginia Schools for the Deaf and the Blind completed the task of creating a Comprehensive Educational Facility Plan (CEFP).

ZMM combined forces with Dickinson & Partners, a firm specializing in special-needs architecture, to understand the requirements and challenges faced when designing for the deaf and blind student population. The purpose of the CEFP is to provide the owner a long-range plan that addresses the requirements for new construction and major renovations. Comprehensive planning is a way of identifying the best route to the future through a workable plan for handling priority-related and anticipated changes. The CEFP defines ultimate goals for the institution and accounts for the facilities required to achieve these goals. The goals are defined, then realized through several phases of construction, if necessary.

Once the planning effort was complete, ZMM designed several improvements that were implemented by the WVSDB and the Department of Defense. The scope of work included restroom and dormitory renovations, as well as masonry restoration and roofing replacement.





SOUTHSIDE ELEMENTARY / HUNTINGTON MIDDLE SCHOOL

LOCATION | SIZE | COMPLETION | COST | AWARDS
HUNTINGTON, WV | 158,194 SF | 2010 | \$27M | 2011 AIA WV HONOR AWARD

ZMM designed the facility to maintain the historic character of the façade and auditorium, while replacing the remainder of the school. The community has maintained a landmark, while developing state-of-the-art schools.

The two schools that previously occupied the site of the Southside Elementary School and Huntington Middle School were Cammack Elementary School and Cammack Middle School. The facility houses a combined 1,014 elementary and middle school students. When the Cabell County Board of Education proposed a \$61 million bond issue in 2006, the Huntington community expressed the importance of saving this neighborhood landmark. The facilities were designed to blend with the architectural character of the existing facility. More than 70% of the existing building was demolished and the portion remaining was completely renovated. Two stair towers provide a vertical architectural element that separates the existing structure from the new construction. The result is a cohesive design that blends the unique elements of the former school into a modern educational complex.

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





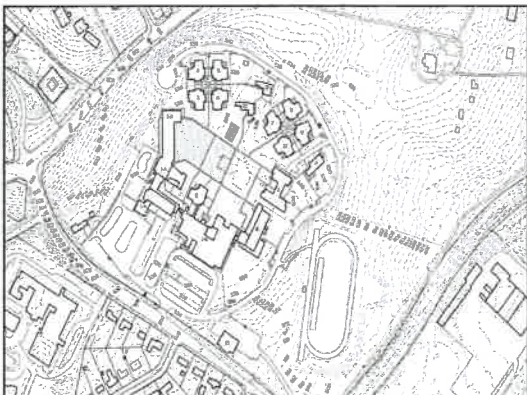
Services:

- Masterplanning
- Facilities Condition Assessment
- Facility Optimization Solutions
- Special Needs Life and Safety Planning
- Utilities Assessment

Total Square Footage: 180,000 GSF

Project Highlights:

- 120 acres / Expansive Views
- Pedestrian Boulevard
- Separation of Pedestrian and Vehicular Traffic
- Life and Safety Plan for the Blind and VI



Per the direction of the State of Tennessee, the Tennessee School for the Blind has undertaken the task creating Campus-wide Master and Utilization Plan (CMUP).

The purpose of the CMUP is to provide the owner a long range plan that addresses the requirements for new construction, major renovations and utilization issues. Comprehensive master planning is a way of identifying the best route to the future through a workable plan for handling priority related and anticipated changes. The CMUP defines ultimate goals for the institution and accounts for the facilities required to achieve these goals. The goals are defined then realized, if necessary, through several phases of construction.

Along with Dickinson + Partners team, Stakeholders group was established consisting of locals, teachers, staff and the community. The ultimate goal is to develop a comprehensive facility plan that hinges on close collaboration with students and educators in creating personalized facility metrics in support of the State's mission. An fundamental part of any master plan creates alignment between facilities and educational goals. An Educational Optimization Assessment measures:

CAPACITY for students and specific program needs

BALANCE and COMFORT of formal, informal and productivity of learning environment

TECHNOLOGY alignment to amplify learning for the Blind

SECURITY and supervision components



HARRINGTON WADDELL ELEMENTARY SCHOOL

LOCATION LEXINGTON, VA	SIZE 53,804 SF	COMPLETION 2016	COST \$12.5M
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Harrington Waddell Elementary School aims to provide a contemporary replacement of the demolished school, originally constructed in 1926, while exhibiting a modern interpretation of the legacy building's aesthetic.

The facility features classrooms for grades pre-kindergarten through fifth grade, as well as a state-of-the-art media center, middle-school-sized gymnasium, full-service cafeteria, two computer labs, as well as art and music classrooms.

Each classroom is equipped with interactive projectors, allowing more flexibility in the use of classroom white boards. Ample daylighting is provided via high ceilings and windows in every classroom, and daylighting controls are implemented for reduced energy use and more efficient operations.

One of the unique features of the building is the severely-sloping site on which the building is located. Due to this, the school consists of three floor levels, all connected by a grand stair in the central entry lobby. A full-height window wall at the grand stair allows light to enter the lobby at all levels, and creates views to the surrounding neighborhood.



Harrington Waddell Elementary School (cont.)

The school is also utilized as a community center, bringing citizens together for all manner of activities after school hours. As such, the access control system has been designed to allow the building to be secured in flexible ways; allowing access to some parts of the building for public events, while preventing access to others.

These design elements, as well as many others, created a 21st century learning environment, and a place to bring area residents together. The school building is a symbol of pride and community for the City of Lexington, much like the original school building has been for the last 90 years.





Construction Cost: \$ 11,000,000
Size: 35,000 GSF

Year of Completion: 2018

Project Team:

John Dickinson, AIA –Design Architect/Consultant
Julie Husband, AIA— Project Manager

Client:

State of Minnesota
Minnesota State Academy for the Deaf
Supt. Terry Wilding
615 Olof Hanson Dr.
Fairbault, MN 55021

This 44 bed residence hall for the Minnesota State Academy for the Deaf (MSAD) in Faribault, MN consolidates boys and girls together in a single shared facility. Built to replace aging and inefficient existing Frechette Hall, it is the first new residence hall built on campus since the 1960's. Conceived of as a **“Go home Go School concept”** the building is comprised of two main wings connected by a single story entrance lobby. Beyond housing its students, the new dormitory creates an iconic campus space for the MSAD and strengthens the relationship to the existing campus buildings. The two story building steps with the sites topography to reduce its apparent height and allow for seamless and accessible connection between inside and out. Finished with warm materials, comfortable furniture and flooded with daylight, the residence hall employs the principals of Deaf Space to create a homelike environment that is tuned to deaf sensibilities.

Designing spaces for Deaf-Hard of Hearing and Low-vision users were built upon the ADA's guidelines and includes acoustic considerations: ambient, mechanical, and material noise, but also lighting. By designing the spaces to include diffused natural light, minimizing corners and niches, using simple texture and color variations we were able to improve visibility between spaces. These details were combined with legibility of the floor plan to create a highly accessible facility to meet their programmatic needs.

The design team collaborated early to clearly identify strategies to guide team members through design and construction to achieve Minnesota B3 standards. Specific attention was focused on maintaining high indoor environmental quality through creative and intentional control of daylighting, vibrations, thermal comfort, and acoustics for a user demographic sensitive to light, sound, and vibrations.





CABELL COUNTY EXPLORER ACADEMY

LOCATION	SIZE	COMPLETION	COST	AWARDS
HUNTINGTON, WV	60,000 SF	2016	\$15M	2017 AIA WV MERIT AWARD

The Explorer Academy is the first of its kind in West Virginia – a school that employs an Expeditionary Learning model.

Cabell County School officials are hoping the school will set an example for schools around the state and see the school as the next step in education. It is a consolidation of Peyton Elementary and Geneva Kent Elementary in the east end of Huntington. The schools were combined to form the incubator school, which is housed in the former Beverly Hills Middle School facility that was remodeled to fit the mold of the Expeditionary Learning model. Cabell County School officials describe the school as an explorer academy, because of the experimental learning environment. They hope what they learn from their experiment leads to other school districts around the state doing their own experiments and developing Expeditionary Learning environments of their own. Students learn about completing projects that will stretch across different subject areas and can sometimes take the entire school year.

The curriculum for the program is very hands-on and is a real-world way of learning. Students work a lot with community partners, people who are experts in their fields. The students are going out and doing fieldwork, which is much different than a field trip. In Expeditionary Learning, students learn by conducting learning expeditions rather than by sitting in a classroom being taught one subject at a time.



Dickinson + Partners

Uniting Education, Special Needs & Architecture
www.dickinsonpartners.com



New Gallaudet-Cleric K-12 Educational Center American School for the Deaf Hartford, Connecticut



Completion Date: October 2013, **Renovation:** Current
Square Footage: 55,000 **Construction Cost:** \$17,000,000
Dickinson + Partners Project Team:

John Dickinson , AIA—Project Architect/Consultant

Reference:

American School for the Deaf
Jeffery Bravin, Executive Director
Thomas Wood, COO
139 North Main Street
West Hartford, CT 06107
(860) 570-2300

Founded in 1817, American School for the Deaf (ASD) is the first permanent school for the deaf in the United States and is the birthplace of American Sign Language. It is a world renowned leader in providing comprehensive educational programs and services for deaf and hard-of-hearing students.

The concept for the new K-12 Educational Center was to replace the 100,000 square foot 1930's era Gallaudet Hall and to create the social hub of the campus. The site solution for the project resolves several key areas in the heart of the campus, primarily the main campus green.

The new building opened the 2013 school year and is specially designed to address the unique learning style of deaf and hard of hearing children. This includes state-of-the-art amplification equipment, proper levels of lighting, a visual public address system and the latest educational interactive whiteboard technology. The design features 26 classrooms with science and life skills labs, counseling, speech, occupational and physical therapy workspaces as well as a library, Student Health Center, food service and cafeteria.

The new facility will also incorporate specialty birth to three spaces and an audiological suite and a multipurpose room which can be used by the community



Old Gallaudet Hall





BOWLING GREEN ELEMENTARY SCHOOL

LOCATION | SIZE | COMPLETION | COST
MILFORD, VA | 93,370 SF | 2013 | \$9.7M

Bowling Green Elementary School was expanded and renovated to house 850 students in grades PK-5 school.

The expansion included approximately 46,850 SF of new construction that included classrooms, a cafeteria and kitchen, a stage, a gymnasium, and an administration and guidance area.

The 46,520 SF renovations included conversion of the previous cafeteria to a media center, converting the previous kitchen to an art room, and converting a stage to a computer lab. Other minor renovations included new cabinetry and flooring in classrooms and new wall finishes throughout. The expanded and renovated facility is fully accessible.

A new multi-level canopy helps to clearly identify the secure entrance to the school. The interior environment is highlighted with colors and patterns designed to engage students and provide visual interest.





SHEFFEY ELEMENTARY SCHOOL

LOCATION | SIZE | COMPLETION | COST
WYTHEVILLE, VA | 43,840 SF | 2014 | \$5.4M

Sheffey Elementary School was expanded and renovated. The front canopy was improved to enhance the presence of the school and improve student well-being.

Renovations included all-new flooring and interior finishes throughout the school, while additions included a gymnasium, which allows public access after hours for community use.

Wythe County decided to add a full-size gymnasium, located at the rear of Sheffey Elementary School. The Sheffey Community Gym is located in a rural part of Wythe County and will allow the community to utilize the gym, stage and adjacent fitness room after hours and on weekends. The Community Gym is designed to allow after-hours access so that the rest of the school cannot be accessed.





FALLING BRANCH ELEMENTARY SCHOOL

LOCATION | SIZE | COMPLETION | COST
CHRISTIANSBURG, VA | 40,500 SF | 2018 | \$8.75M

The primary goal of the addition and renovation was to alleviate overcrowding. The 2013/2014 study showed student capacity at 466, but the enrollment was 522.

The school had eight mobile classrooms located in the back that had been utilized for years. The student capacity after additions and renovations were complete was projected to be 722.

Another important goal was to reconfigure space around the existing main entrance to increase security. The administration suite and the clinic adjacent to the main entrance were relocated to create a secure entry area. Guests must be granted access through two doors to access the rest of the school.

There are two larger classroom additions that included collaborative spaces. The size of the cafeteria was expanded, and doubles as the physical education space. An improved media center was also added. Site improvements helped ease congestion for drop off and pick up of students.





HIGHER EDUCATION CAMPUS DEVELOPMENT PLANS

LOCATION | COMPLETION
WEST VIRGINIA | 2012 - PRESENT

ZMM Architects & Engineers has created Campus Development Plans (often referred to as Master Plans) for a variety of institutions throughout West Virginia.

These plans have been developed for:

- West Virginia State University (in association with TERRADON)
- New River Community and Technical College
- Southern West Virginia Community and Technical College
- BridgeValley Community and Technical College

Details of these plans are as follows:

West Virginia State University

ZMM Architects & Engineers, in conjunction with BSP and TERRADON, were selected to develop a 10-year Campus Development Plan for West Virginia State University's campus in Institute, WV. The project commenced with a review of all existing information available about the campus and targeted facilities. Following the stakeholder meetings, ZMM conducted building assessments of the major academic buildings, as well as the kitchen adjacent to the main dining area. This information was supplemented by a recent campus building inventory that had been conducted. The information gathered through this variety of activities was



Higher Education Campus Development Plans (cont.)

then synthesized into an overall campus development plan. The plan, which covers a 10-year period, projects the need for new construction, property acquisition, site improvement and building renovation, and includes a phased approach for the implementation of campus improvements. The document is supplemented with a visual master plan that reflects the implemented improvements.

New River Community and Technical College

ZMM Architects & Engineers worked with New River Community and Technical College to develop a Master Plan that improved the efficiency of space usage across the school's four campuses:

- Raleigh County (including Ghent ATC)
- Lewisburg
- Princeton
- Summersville

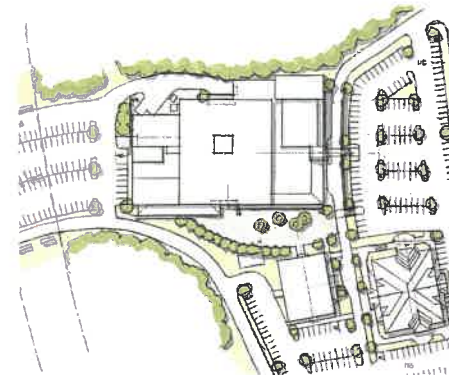
When the plan was completed, New River Community and Technical College had elected to reduce their overall footprint from 14 to 7 facilities. This improved the efficiency of space usage from 262 SF/FTE to 190 SF/FTE. ZMM visited the remaining facilities to develop a plan to address deferred maintenance issues. The plan also anticipated a modest addition to the facility in Summersville to accommodate several programs that are currently housed off-site.

Southern West Virginia Community and Technical College

ZMM Architects & Engineers commenced the Southern WVCTC master planning process by having a team of architects and engineers visit all of the campuses and sites:

- Logan Campus
- Williamson Campus
- Boone Campus/Lincoln Site
- Wyoming/McDowell Campus

Following these campus visits, ZMM conducted stakeholder meetings at each location. At the meetings stakeholders discussed positive attributes, challenges, and needs for each facility and campus. Following the stakeholder meetings, an Executive Steering Committee was convened to review the outcomes of the stakeholder meetings, and to assist

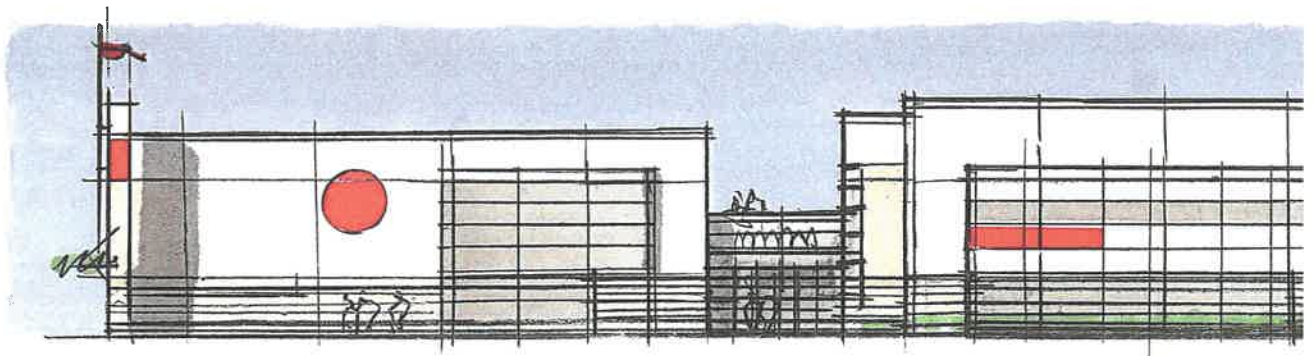
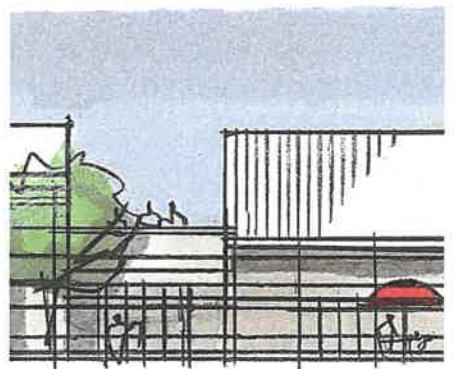
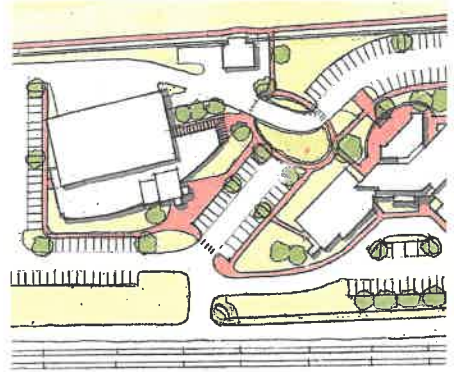


Higher Education Campus Development Plans (cont.)

in developing an overall strategy and framework for the plan. Based upon these meetings, several themes emerged that helped guide the development of the Master Plan. It was determined that the plan would include standards for signage, lighting, and exterior finishes. Additionally, although a significant expansion of facilities is not envisioned, the Master Plan will include the potential development of a new facility on property that has already been acquired adjacent to US 119. This new facility will replace the Boone County Campus, which is currently located in a shared facility with the Boone County Career and Technical Center. The new facility would serve as a gateway to Southern's other facilities, and the location on US 119 will give the College the opportunity to draw additional students from the greater Charleston area. Due to the scope of the development of this new facility, the Master Plan includes a strategy to address improvements both with and without the new Boone County Campus. Other potential improvements included updating Southern's two largest facilities - Building 'A' on the Logan Campus, and the Main Building on the Williamson Campus, as well as the development of *Student Success Centers* on all campuses (starting in Logan).

BridgeValley Community and Technical College

ZMM Architects & Engineers has produced several Campus Development Plans for BridgeValley CTC (previously Bridgemont CTC and Kanawha Valley CTC). The master plan includes assessments of existing facility conditions on the Montgomery and South Charleston Campuses, including deferred maintenance, building code issues, and energy efficiency. An analysis was included that identifies current and future space needs, parking requirements, current land use and future property acquisition, infrastructure development, sustainability, landscaping, and pedestrian circulation. The plan also includes project budgeting and a multi-year capital improvement plan. An assessment of the impact of projected enrollment and demographic changes on facilities was provided along with a delineation of how the campuses will interact and support each other and improve efficiency. Recent updates have included additional investigation of existing facilities on the Montgomery Campus and in the historic Elk City neighborhood on Charleston's West Side, as well as the Stone & Thomas Building in downtown Charleston.





MARSHALL UNIVERSITY SMITH HALL RENOVATION

LOCATION | SIZE | COMPLETION | COST
HUNTINGTON, WV | 22,000 SF | 2017 | \$920K

Smith Hall is located on Third Avenue on Marshall University's main campus in downtown Huntington, WV.

The project was a renovation to upgrade the architectural interior finishes and acoustical quality of the music practice and performance areas. ZMM worked closely with professors to determine the correct acoustics to meet the accreditation needs for the college. Taking inspiration from The Thundering Herd, the building was transformed with a mature palette and pops of green. Interior improvements included replacement of ceilings in areas that were affected by the HVAC replacement. Existing ceilings in the practice rooms received a sound blanket barrier and acoustical coating to improve the performance of the space. Paint, carpet and acoustical wall treatments were also installed.

Mechanical system improvements were implemented to correct issues of the aging HVAC system, which was a high-energy user. ZMM converted the system to VAV by installing terminal units with SCR electric reheat. A smaller electric coil provided enough electrical capacity to power the terminal reheat. ZMM retained the fan wall and chilled water coil and installed DDC controls. Dehumidification was provided by a gas-fired humidifier to maintain stable humidity. Smith Music Hall's combination of HVAC, acoustical, and interior improvements highlights ZMM's ability to provide multi-discipline design services on complex renovation projects.





CHARLESTON COLISEUM & CONVENTION CENTER

LEED
SILVER

LOCATION CHARLESTON, WV	SIZE 283,000 SF	COMPLETION 2018	COST \$100M	AWARDS 2019 AIA WV MERIT AWARD, CITATION & PEOPLE'S CHOICE AWARD
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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. With a foundation rich in resources, manufacturing added value to the raw materials, with crafts like glass-making and industries like chemicals and energy. This attracted a rich diversity of immigrants and a culture of craftsmanship that set the urban character. The economy is shifting from industry and service to information and technology. Again, the landscape and industry that shaped the region gives Charleston real advantages to exploit. The Creative Class, critical for the information and technology age, can live and work anywhere - what they want is access to the outdoors, real places with real character, and continuous education and entertainment.



Charleston Coliseum & Convention Center (cont.)

Our design started with an organizational concept inspired by this history. The Kanawha River is the social organizing link throughout the region, with settlement zones developing on whatever flat land the river provided, creating nodes of activities among the hills and valleys. The renovated Convention Center is a building that emerges from this iconic landscape, with the architecture and topography working together. The Convention Center also 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. Together, the three glass-enclosed nodes - arena lobby, convention lobby, and ballroom - define a unique Charleston event campus. As described above, the spaces that connect these nodes are inspired by the hills and cut-rock faces that connect the towns along the Kanawha River. With the building emerging from the landscape and expressed as cut-rock walls, the connecting areas were designed to be expressive and economical backdrops to the glass-boxed nodes.

While the expansion transformed the southeast to the middle of the northern zone of the site, the existing building mass still dominates a portion of the northern and eastern campus. The dominant expression along these existing façades is the landscaped berms. As we imagined the building expression emerging from the landscape, a strategy developed to transform these berms to reflect, at the pedestrian level, the overall design theme. Above the level of the berms, the concourse level windows open up the façade and provide a much needed break in the massing. The upper part of the arena is painted in two tones to match the new building, playing off the different faces. The north, south, east, and west faces painted a lighter shade; and the northeast, southeast, southwest, and northwest faces a darker shade. Dramatic exterior color-changing lighting on the northeast, southeast, southwest, and northwest faces transform the look and feel of the center into a fun and festive landmark.





INTUIT PROSPERITY HUB

LOCATION	SIZE	COMPLETION	COST
BLUEFIELD, WV	44,000 SF	2020	\$4.4M

ZMM Architects & Engineers worked in collaboration with CBRE, Gensler, the City of Bluefield, and Pray Construction to assist Intuit with the development of its next “Prosperity Hub,” which is located in Bluefield, WV.

The company created 300 jobs and located them in downtown Bluefield in the former First National Bank building, located at 500 Federal Street.

The former First National Bank of Bluefield Building (most recently Summit Community Bank), was constructed in 1970. The building, located in the Bluefield Downtown Commercial Historic District, is comprised of two connecting structures and a parking garage. The two-story modern building with marble, aluminum, and glass veneer is situated on a sloping lot, allowing access to a parking deck on the upper level.

CBRE was responsible for project management, while Intuit’s national architecture partner, Gensler, was responsible for programming and for creating a schematic design for the tenant fit-up portion of the project. ZMM was responsible for all core and shell architectural and engineering work, as well as the fit-up portion of the project from design development through completion. ZMM’s effort on the project commenced by conducting a detailed facilities assessment to assist CBRE



Intuit Prosperity Hub (cont.)

and Intuit with the scope and budget development process. The purpose of the assessment was to determine the condition of the major building systems, and to identify both immediate and long-term enhancements required to fully improve the building.

The intent of the project was to convert approximately 33,215 RSF of the facility into an office space/customer support center. The project includes administrative suites, training rooms, and a large community break space for employees on the first level, while the second and third levels were renovated to feature an open plan concept for workstations. One of the more significant design challenges for this project involved converting this multi-level building with varying floor heights into an accessible office. This challenge was met through the use of creative space planning, existing (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.





WV STATE OFFICE BUILDINGS 5, 6, & 7

LOCATION
CHARLESTON, WV

AWARDS
2011 AIA WV MERIT AWARD

Nearly 50 years ago, ZMM (as Zando, Martin & Milstead) designed the original West Virginia State Office Buildings 5, 6, and 7.

Over the past decade, ZMM has been assisting the State of West Virginia General Services Division with various improvements to the buildings. The improvements commenced with an overall building assessment that examined the condition of the buildings, as well as cost and phasing options for implementing various upgrades. Improvements that have been undertaken have ranged from substantial renovations to maintenance and repair projects, and include:

Major Renovations: ZMM Architects & Engineers provided design services for the renovation of the 10th Floor of Building 5 for the Office of Technology - a project that was recognized with a design award from the West Virginia Chapter of the American Institute of Architects. The project focused on demonstrating the potential that exists in State Office Buildings 5 and 6 if the floors are renovated in a more contemporary manner that moves the open office spaces to the perimeter, and pulls the offices adjacent to the building core. The project also involved close coordination with the State Fire Marshal, the introduction of a sprinkler service and fire pump into the building, demolition, hazardous material abatement, and FF&E coordination. The project was delivered considerably under the anticipated project budget.



WV State Office Buildings 5, 6 & 7 (cont.)

The next phase of the renovation involved floors 7, 8, and 9 of Building 5 and floors 7 and 8 of Building 6. All of these floors have been fully renovated, including abatement, demolition, new construction, and updated life safety systems. ZMM has also provided design services for the renovation of the 2nd, 3rd, and 4th Floors of Building 6 for the Department of Education and Division of Personnel.

Roof Replacement: ZMM assisted the General Services Division with a roof replacement for all three buildings, utilizing a white EPDM roofing material, with consideration being given to sustainability. The existing ballast, roof membrane, and rigid insulation were also salvaged as part of the roof replacement project. Several unused mechanical penthouses, antennas, and other abandoned equipment were also removed.

Electrical Courtyard Improvements: ZMM Architects & Engineers assisted the General Services Division with a project to expand the electrical courtyard adjacent to Building 7, and simultaneously improve the electrical service entry to buildings 5, 6, and 7. This project required both historical (matching the existing granite panels), as well as very technical electrical engineering design considerations.

Door and Window Replacement: ZMM has assisted with two separate projects, one to replace the windows in Buildings 5 and 6, and the second to replace the doors at the entries to Buildings 5, 6, and 7. The window replacement included over 1,200 windows, as well as decorative extruded metal screen. These projects included building envelope and security considerations. The projects were designed and staged to minimize disturbance to the buildings' occupants.

Caulk Replacement: ZMM provided design services to remove and replace all of the caulk located between the limestone and precast panels on the exterior of Buildings 5, 6, and 7. The project also included cleaning of the building's exterior along with some repair work. The project was coordinated with the Capitol Building Commission.

Valve Replacement: ZMM assisted with a valve replacement project to isolate mechanical risers in Building 5 and 6. This technically intensive mechanical project gave the General Services Division greater control over the system, and helped to isolate various risers in the event of significant system failures in the future.





TOYOTA ENGINEERING OFFICE ADDITION

LOCATION	SIZE	COMPLETION	COST
BUFFALO, WV	13,600 SF	2018	\$4M

ZMM Architects & Engineers partnered with TERRADON to design a 13,600 SF Engineering Office Addition to an existing production facility.

The project was a collaborative effort with ZMM and TERRADON working closely with the owner's corporate and local team.

Due to the location of the addition near the entry to the complex, the project endeavored to create a contemporary addition to the existing industrial building (a pre-engineered metal structure). The project also intended to compliment the main building administrative structure, which is located across an access road, while providing a secondary entrance for employees.

A steel framed masonry and curtainwall veneer single-story design solution was developed to meet aggressive design, schedule, and budget constraints. In addition to 6,000 SF of engineering office and support spaces, the project houses a clinic, fitness center, breakout (collaboration) spaces, and a safety training center. The exterior design blended seamlessly with the contemporary interior, which incorporated corporate branding and influences of biophilic design, creating an inspiring and healthy place to work.





GIRL SCOUTS OF BLACK DIAMOND COUNCIL

LOCATION	SIZE	COMPLETION	COST	AWARDS
CHARLESTON, WV	24,650 SF	2013	\$5M	2014 AIA WV MERIT AWARD

The Girl Scouts of Black Diamond Council Volunteer Resource Center and Girl Zone/Urban Camp is located on the west side of Charleston, WV.

The 24,650 SF project completely renovates and upgrades the existing buildings at 321 Virginia Street.

The buildings were built in the early- and mid-1900s, and were used as a car dealership showroom and parts building until 2008. By the time the Girl Scouts took possession of the building, it had fallen into a state of disrepair. The facility required environmental remediation, and the entire roof structure was damaged and had to be removed.

The Girl Scouts of Black Diamond Council purchased the vacant buildings in 2011 with the intent of converting them into a girl-centered facility for members and a volunteer enrichment center for program resources and training. The program for the facility includes administrative offices, community/meeting gathering spaces, as well as a small hotel (Urban Camp) for Girl Scouts visiting Charleston. The Girl Scouts undertook the effort to transform the facility, creating an architectural style that would appeal to girls and young women, while utilizing colors and materials that would not become dated.



Girl Scouts of Black Diamond Council (cont.)

The main building brings all of the operations of the Girl Scouts of Black Diamond Council together under one roof and on one level. This building includes a volunteer meeting room, employee office space, flexible conference spaces, and a retail shop. The Virginia Street façade of the existing facility was removed, and more contemporary elements are utilized to speak to each of the functions. The Girl Zone/Urban Camp reflects a more residential/outdoor tone with the use of a wood veneer, while the retail store has floor-to-ceiling storefront. The storefront is etched with images of girl scouts and scouting slogans. The storefront is backlit in the evening, allowing the entire façade to reflect the function of the building. The entry is accentuated with a more vertical element and signage, giving hierarchy to the various elements, while the office areas are recessed from the corner with smaller openings and a masonry veneer. Each zone has a unique identity.

The adjacent Girl Zone/Urban Camp conveys the feeling of a hotel or hostel and offers a place that Girl Scouts can stay during a visit to Charleston. While the main entry to the building faces Virginia Street, the entry for the Girl Scouts will be at the rear of the building. A small addition was developed to create a "check-in" area similar to a hotel. Adjacent to the "check-in" area is a great room where troops can gather to cook, congregate, and socialize. The "hotel rooms" utilize a dormitory arrangement, while the finishes and furnishings are more like a youth hostel than a camp. The rear of the Girl Zone/Urban Camp reflects a more traditional camp environment, and includes an outdoor dining area and a fire pit.

With the mixed-use functions of retail, office, and residential, this unique project is a vibrant addition to the emergent west side community. The modern aesthetic of the facility will appeal to Girl Scouts and reflect one of the Girl Scouts' journeys: *It's Your World – Change It!*



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