



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

Proc Folder: 851767

Reason for Modification:

Doc Description: A/E Services-Tomblin WMA Elk Visitor Center (NEW)

Proc Type: Central Contract - Fixed Armt

Date Issued	Solicitation Closes	Solicitation No	Version
2021-03-08	2021-04-06 13:30	CEOI 0310 DNR2100000001	1

BID RECEIVING LOCATION

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

RECEIVED
04/09/21 15:17:02
WV PURCHASING DIVISION

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 : 25526
Principal Contact : Adam R. Krason, AIA, 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 4-6-2021

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contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated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)
4-6-2021
(Date)
304-342-0159 304-345-8144
(Phone Number) (Fax Number)

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: ZMM, Inc. (dba ZMM Architects and Engineers)

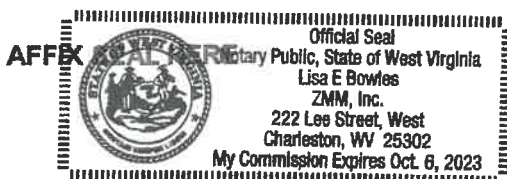
Authorized Signature: [Signature] Date: 4-6-2021

State of WV

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 6 day of April, 2021.

My Commission expires 10-6, 2023.



NOTARY PUBLIC [Signature]



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Addendum #1 issued to extend bid due date and publish agency responses to vendor questions.

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Vendor
Signature X 

FEIN# 55-0676608

DATE 4-6-2021

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

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI DNR21*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 checked="" type="checkbox"/> Addendum No. 1	<input type="checkbox"/> Addendum No. 6
<input type="checkbox"/> Addendum No. 2	<input type="checkbox"/> Addendum No. 7
<input type="checkbox"/> Addendum No. 3	<input type="checkbox"/> Addendum No. 8
<input type="checkbox"/> Addendum No. 4	<input type="checkbox"/> Addendum No. 9
<input type="checkbox"/> Addendum No. 5	<input type="checkbox"/> Addendum No. 10

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

ZMM, Inc. (dba ZMM Architects and Engineers)

Company



Authorized Signature

4-6-2021

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
Revised 6/8/2012

April 6, 2021

Mr. Josh Hager, Senior Supervisor
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130



Subject: Statement of Qualifications – A/E Services for Tomblin Wildlife Management Area – Elk Visitor Center (DNR2100000001)

Dear Mr. Hager:

ZMM Architects and Engineers is pleased to submit the attached information to demonstrate our experience and qualifications to provide architectural, engineering, and construction phase services for the proposed Tomblin Wildlife Management Area Facilities Design. Established in 1959, ZMM is a local architecture and engineering firm, and is noted for design excellence and client focus. Our integrated design approach makes ZMM unique among design firms in West Virginia, and will help to ensure the quality of the services that we will provide. Due to the depth of our design experience and the qualifications of our key team members, ZMM has become a respected and valued resource in the design and construction community in West Virginia.

ZMM Architects and Engineers has been providing services for the Tomblin Wildlife Management Area (WMA) since 2016 and anticipates that the project will be an extension of the work that we have previously completed at the Tomblin Wildlife Management Area – the Elk Viewing Platform and Office/Shop. We also understand that the Elk Visitor Center will complement the work that has been completed for the Forks of Coal State Natural Area Claudia L. Workman Fish and Wildlife Education Center – which was designed to serve as a gateway to the Tomblin Wildlife Management Area.

ZMM has provided preliminary site and building design services, and an initial floor plan and updated site plan are included in our project approach. The proposed Elk Visitor Center and the Elk Viewing Platform concentrate on the visitor experience, creating a dynamic space to experience this unique area. One of the key concepts of the proposed building design is to represent our wild and wonderful state by incorporating natural materials such as stone, a variety of woods, and other natural finishes. Additional qualifications of our team include:

▪ **Experience.**

ZMM has recent experience successfully collaborating with the West Virginia Division of Natural Resources (WVDNR) on the Forks of Coal project noted above, the District V Headquarters Improvements, renovations to the McKeever and Mountain Creek Lodges at Pipestem, as well as on the proposed Beech Fork Lodge. In addition to our experience working with the WVDNR, ZMM has designed a variety of other relevant buildings, including community centers, civic centers, and recreational facilities.

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

Charleston
222 Lee Street West
Charleston, West Virginia 25302
304-342-0159
www.zmm.com

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

▪ **Quality.**


ZMM has a history of providing high quality design services throughout West Virginia. The quality of the services we provide is demonstrated by the number of our repeat clients, and the recognition of our work with both statewide and national planning and design awards. One recent award-winning project is the nearby Logan-Mingo Readiness Center, which is located at the James E. "Buck" Harless Industrial Park. *In fact, ZMM has been recognized with twenty-four statewide design awards since 2005 by the West Virginia Chapter of the American Institute of Architects – recognition of a commitment to design quality that is unrivaled in West Virginia.*

▪ **Talent.**

With over sixty local employees ZMM provides an integrated design approach by delivering all building related design services including architecture, engineering (civil, structural, mechanical, and electrical), interior design, and construction administration in-house. ZMM's team includes twelve registered architects, eleven professional engineers, interior and lighting designers, and construction administrators. Our architects and engineers are highly qualified and have worked together to deliver projects with similar scope and complexity.

Thank you for taking the time to review the attached qualifications that includes information about our firm history, ZMM's project approach, team member qualifications, relevant project experience, and references. Additionally, please visit our website at zmm.com to see the full range of projects that we have designed, and to learn about working with ZMM from a client's perspective. We appreciate your consideration for this important assignment and look forward to the opportunity to continue our work with the West Virginia Division of Natural Resources on the Tomblin WMA projects.

Respectfully submitted,
ZMM Architects and Engineers



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

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Tomblin WMA Elk Visitor Center –

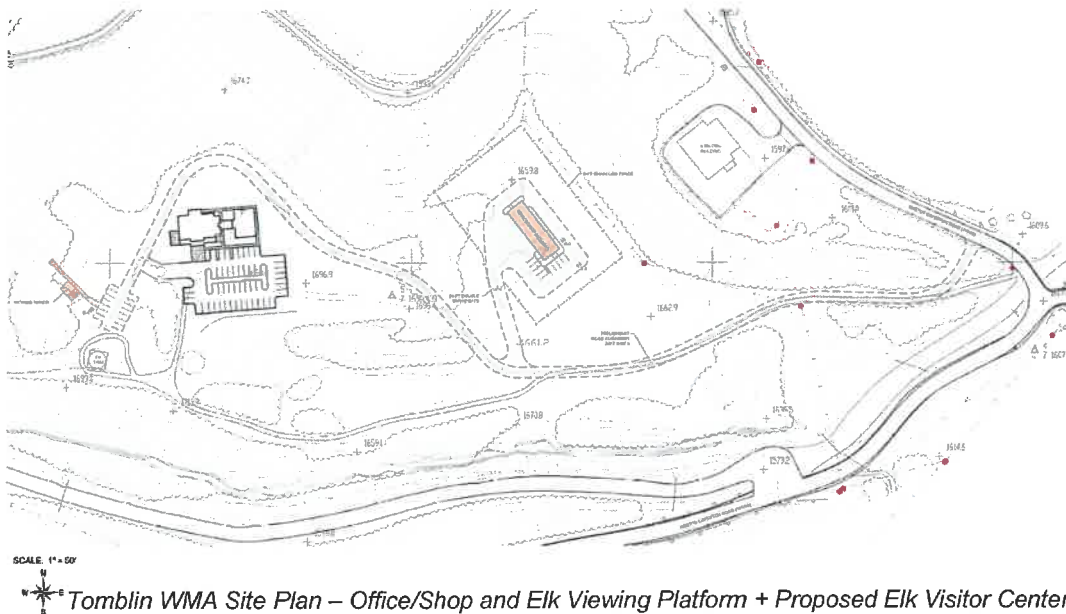
Anticipated Concepts and Methods of Approach

Project Understanding

The Tomblin Wildlife Management Area (WMA), located near Holden, WV is the “initial release site of the elk reintroduction project.” The Request for Expression of Interest indicates that the State of West Virginia Division of Natural Resources intends to construct a multi-purpose building “to be used for welcoming visitors to the area and also education the public on the reintroduction project.”



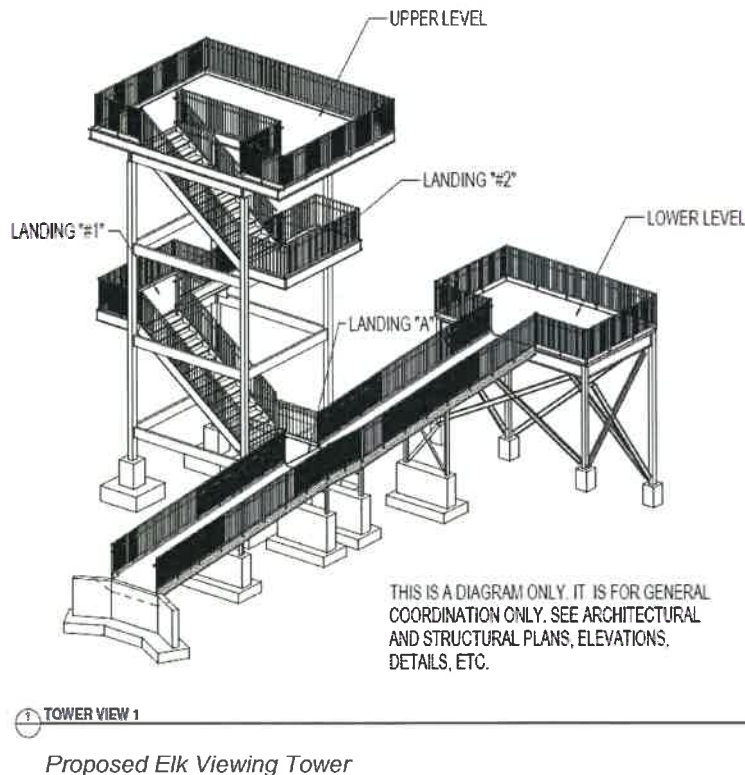
ZMM Architects and Engineers has been providing services for the Tomblin Wildlife Management Area (WMA) since 2016 and anticipates that the project will be an extension of the work that we have previously completed at the Tomblin Wildlife Management Area – the Elk Viewing Platform and Office/Shop. ZMM has provided preliminary design services for the Tomblin WMA Visitor Center, and has provided construction documents for the access road, utility extensions, office/shop building, and the elk viewing platform. The proposed Elk Visitor Center and the Elk Viewing Platform concentrate on the visitor experience, creating a dynamic space to experience this unique area. One of the key concepts of the proposed building design is to represent our wild and wonderful state by incorporating natural materials such as stone, a variety of woods, and other natural finishes.



Tomblin WMA Site Plan – Office/Shop and Elk Viewing Platform + Proposed Elk Visitor Center

Design Approach

The first step in any successful new construction project is to establish the Owner's vision for the project. Although this seems like a simple step it highlights the fact that the ZMM team will be delivering the WVDNR's vision for the project. Once the vision has been established, the team will undertake the programming and planning phase. At the completion of the programming and planning phase, all required needs will be identified, and any scope/budget issues will be resolved.



Once the programming and planning phase is complete, ZMM will develop conceptual plans and renderings reflecting an Elk Visitor Center that meets each need identified, while looking toward potential future growth. The renderings will be used to help communicate your vision for the facilities to all WVDNR stakeholders. Once the conceptual design is approved our team will develop plans, specifications, and bidding documents for the project.

Drawings, specifications, and estimates will be submitted for review at the end of each design phase (schematic, design development, and construction documents). Our previous relevant experience working on similar projects at the Tomblin WMA will help ensure that all documents meet your requirements and standards – saving the WVDNR from expending additional effort and expediting the design phase of the project. The ZMM team will also submit the drawings and specifications to all required regulatory agencies including the State Fire Marshal's Office for approval prior to the project going out to bid.

Once the documents have been approved, ZMM will assist with the bidding and construction phases of the project, including participation in a pre-bid meeting, developing any required addenda, responding to RFI's, reviewing submittals, and conducting and preparing minutes of construction

progress meetings. Our efforts will continue through substantial and final completion inspections and include an eleven-month warranty walk through. Our goal throughout this process will be to act as part of your team, with the objective of ensuring the seamless delivery of the project for the WVDNR.

Construction Phase Services

During the construction phase ZMM will provide additional resources to help manage a timely flow of information between all parties (Owner, Architect, and Contractor). The ZMM project manager will continue to serve as the primary representative of our team and will attend all construction progress meetings. Our team also employs in-house construction administrators (who will assist the project manager) and construction phase administrative staff who track all information (incoming and outgoing) during the construction phase to ensure that the design team is being responsive to project needs. This information, as well as the design progress noted above, is reviewed at weekly internal coordination meetings to verify that we are meeting all expectations and deadlines.



During project construction the design team will continue to be engaged in assuring that the materials and systems being provided, and installed, comply with the design intent. Standard construction phase services include:

- Attend regularly scheduled construction progress meetings.
- Review and respond to shop drawings and submittals.
- Respond to RFI's generated during construction.
- Review and respond to change orders as needed.
- Participate as needed in weekly progress update conference with Owner.
- Make site visits to review construction progress and generate an inspection report for each visit.
- Assist with developing a punch-list of remaining work.
- Complete a substantial and final completion inspection.
- Assist as needed in the startup and project closeout process.

ZMM Team

ZMM Architects & Engineers has assembled a project team capable of addressing the varied and unique needs of the project. Please note that aside from the independent cost estimating that ZMM is proposing to provide all design services in-house without the use of any consultants. We are confident that this is the most efficient manner to provide design services for the project, and that this team provides the WVDNR with the best opportunity for a successful project. The full design team will include:

Team Member

ZMM Architects & Engineers

Role

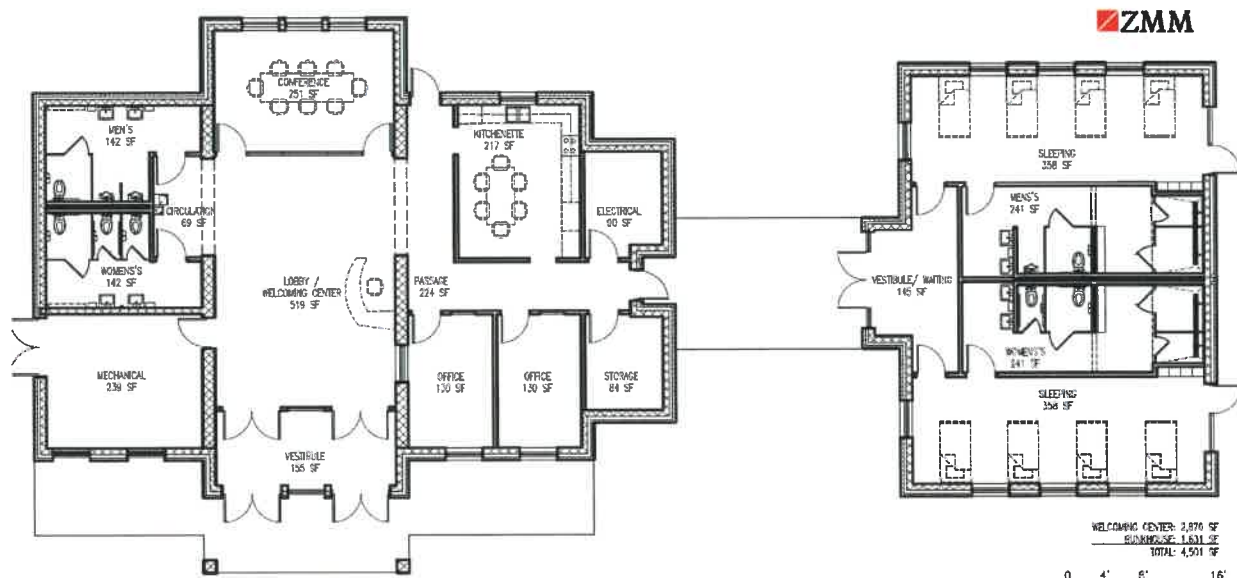
Principal/PM
QA/QC
Architect
Interior Designer
Specification
Engineering Principal/PM
Civil Engineer
Structural Engineer
Structural Engineer
Electrical Engineer
Mechanical Engineer
Construction Admin.
CA Assistant
Estimating

Proposed Staffing

Adam Krason, AIA, LEED-AP
David Ferguson, AIA
Mike Phillips, AIA, Billy Simms
Carly Chapman
Mark Epling, AIA
Bob Doeffinger, PE
Ben McMillan, PE
Mike White, PE,
Ronnie Burdette, EIT
David Gunnoe, PE
John Pruett, PE
Keith Gonzales
Amy Rhodes
Win Strock

Resumes detailing the experience of the proposed team members are contained in Tab 3.

Many members of our proposed team recently collaborated on the design of the Tomblin WMA Office/Shop and Elk Viewing Platform, the Forks of Coal Claudia Workman Fish and Wildlife Education Center, the proposed Beech Fork Lodge, and the District V Headquarters projects. This experience working with the DNR helped to establish a relationship where our team functioned as an extension of the DNR, with a singular focus of implementing your vision for the project. We propose a similar relationship for the Tomblin Wildlife Management Area Elk Visitor Center.



2016 Conceptual Plan of Tomblin WMA Visitor Center with Attached Bunkhouse

During the design phase Adam Krason, AIA, LEED-AP and Mike Phillips, AIA will serve as the primary contacts for the design team. These key team members as well as all primary WVDNR contacts would be included on all communication to facilitate an open discussion throughout the projects – in a manner that allows the DNR to remain actively involved in all design decisions. All correspondence will be copied to this core group. As the project progresses regular bi-weekly meetings will be held to review the design progress, outstanding issues, as well as any regulatory or budget concerns. Meeting minutes will be produced to document discussion items, decisions, and responsibility for follow-up. Our team's recent experience working with the WVDNR help facilitate this open communication.

During the construction phase additional resources will be added to ensure prompt and efficient responses to any issue that may arise. The project architect, Mike Phillips, AIA will coordinate the effort of the design team, and will be assisted by Keith Gonzales. Additionally, all submittals, pay applications, and RFI's will be logged and tracked by Amy Rhodes. Ms. Rhodes will update the entire project team (WVDNR, ZMM, and Contractor) weekly regarding outstanding items.

Budget Control

Our team has been providing professional design services in West Virginia for more than sixty (60) years. This experience has allowed our team to develop a thorough understanding of the various construction markets and associated bidding regions that exist throughout West Virginia, but with a focus on projects in the area of the proposed Tomblin WMA Elk Visitor Center. Our team for this project will include Win Strock, a former contractor that regularly provides independent estimates to ZMM. Mr. Strock and ZMM have successfully collaborated on the following projects:

- Forks of Coal Claudia Workman Fish and Wildlife Education Center
- Beech Fork Lodge
- Coonskin Park Maintenance Building
- Clendenin Elementary School
- Williamstown Elementary School
- Edgewood Elementary School
- Jackson County Armed Forces Reserve Center
- Logan-Mingo Readiness Center
- Morgantown Readiness Center
- State Police Information Services Center
- State Office Building 5 & 6 Renovations – Various Projects



Construction Duration

Nearly every project that our team is engaged to perform design services for has a 'hard' deadline for completion, many times tied to the availability or expiration of project funding. ZMM consistently delivers on projects with challenging schedule constraints. ZMM will ensure that this project will be completed in the agreed construction period utilizing the following methods:

- ZMM has developed Division 1 documents that tie the receipt of all deliverables required to administer the construction phase of the project to payment applications. ZMM will reject any payment application that is not accompanied by all required information including submittal schedules and logs, RFI logs, updated project schedules, etc.
- ZMM monitors all construction phase submittals and correspondence to verify that we are returning information at a pace that will help expedite project completion. ZMM management reviews the status of all RFI's and submittals weekly. ZMM will also staff the construction phase with staff that will be able to provide immediate answers at the project site to expedite the work.
- ZMM will work with the WVDNR to develop a realistic construction schedule that includes anticipated weather days. This schedule will be included in the specifications, and reviewed at the pre-bid meeting to reinforce the critical nature of meeting the schedule, and the intent of enforcing liquidated damages.

Experience with Each Required Discipline

ZMM Architects and Engineers has assembled a team to meet the unique requirements of the project. Our team is comprised of some of the leading professionals in West Virginia, and is experienced in each discipline noted below. With over sixty (60) local employees ZMM provides an integrated design approach by delivering all building-related design services including architecture, engineering (civil, structural, mechanical, and electrical), interior design, and construction administration in-house. ZMM's team includes twelve registered architects, eleven professional engineers, interior and lighting designers, and construction administrators. Our architects and engineers are highly qualified and have worked together to deliver projects with similar scope and complexity. *Additionally, the quality of ZMM's design effort has been recognized by the American Institute of Architects West Virginia Chapter with twenty-four design awards since 2005 – an achievement that is unrivaled in West Virginia.*

Pre-Design

Planning
Programming
Space Planning
Feasibility Studies
Existing Building Evaluation
Site Evaluation and Analysis
Master Planning
Construction Cost Estimating



Design

Architectural Design
Sustainable Design
Interior Design
Landscape Architecture
Civil Engineering
Structural Engineering
Mechanical Engineering
Electrical and Low Voltage Engineering



Plumbing and Fire Protection Engineering
Energy Consumption Analysis
Net Zero Design

Post Design

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



Summary

ZMM possesses the relevant design experience at the Tomblin WMA, additional recent WVDNR experience, and project approach to ensure the successful delivery of the Tomblin WMA Elk Visitor Center project for the West Virginia Division of Natural Resources. Our team's previous experience working on this project, our commitment to design quality, and our approach to control the project budget and schedule makes us the right partner for the WVDNR for this engagement.

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

Adam R. Krason, AIA, LEED AP, ALEP



Role

Principal

Professional Registrations

Registered Architect (WV, OH, KY, VA, MD, NJ)

LEED Accredited Professional

Accredited Learning Environment Professional

NCARB (55,984)

Construction Specifications Institute (CSI)

Construction Documents Technician (CDT)

Mr. Krason has served in the capacity of Architect and Project Manager for a variety of projects at ZMM. This experience includes Military, Educational (K-12 and Higher Education), Office, Justice (Courthouses, Correctional, Justice Centers), and Multi-Unit Residential projects. Mr. Krason's responsibilities include programming, design, documentation, coordination of the architectural and engineering team, as well as construction administration. Mr. Krason began his career in 1998, working on a variety of educational, commercial office, and correctional projects throughout Ohio, West Virginia, and North Carolina.

Mr. Krason has been an advocate of sustainable design in West Virginia, participating in a variety of sustainable design seminars throughout the State, and serving on the West Virginia School Building Authority Green Schools Sub-Committee. Recently, Mr. Krason helped coordinate the "Making the Business Case for Sustainability" conference at the University of Charleston that included speakers from Armstrong Industries, American Electric Power, CB Richard Ellis, and Interface Raise. Mr. Krason also assisted Habitat for Humanity Kanawha and Putnam County develop a commercial recycling program to fill a void in the sustainable design infrastructure in West Virginia. Mr. Krason has noted that, "I became a LEED Accredited Professional because I believe that good design has value, and the ability to impact our daily lives. Sustainable design showcases the value of design through demonstrated improvements in the performance of the students and employees who occupy our buildings." In addition to his design and project management responsibilities, Mr. Krason serves on the Board of Directors and is responsible for business development at ZMM.

Project Experience

Charleston Coliseum & Convention Center, Charleston, WV

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

Education

Bachelor of Architecture, The Catholic University of America, 1998

Bachelor of Civil Engineering, The Catholic University of America, 1997

Employment History

2007 - Present, Principal, ZMM

2007 - Present, Board of Directors, ZMM

2003 - Present, Architect, Project Manager, ZMM

1998 - 2003, Architect, Project Manager, Charleston Area Architectural Firm

Civic Affiliations

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

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

State Office Building #5, 10th Floor Renovation (Office of Technology), Charleston, WV

Mr. Krason led an architectural and engineering team that completed a detailed assessment of State Office Buildings 5, 6, & 7. Once the assessment was complete, ZMM had the opportunity to implement the proposed improvements on the 10th Floor of State Office Building #5 for the Office of Technology. The renovations, aiming for LEED-CI Certification, re-oriented the layout by drawing all private offices into the building core, providing access to daylight and views for all employees. The design also utilized acoustical ceiling clouds and bulkheads to maximize the acoustical performance, while also increasing the volume of the space.

Joint Interagency Training & Education Center (WVARNG), Kingwood, WV Mr. Krason was responsible for the preliminary programming, and participated in the schematic design of the 180,000 SF addition to the Regional Training Institute at Camp Dawson. Mr. Krason was also responsible for managing the production effort for the billeting (hotel) expansion, which increased the total billeting capacity at the JITEC to 600 rooms. This project received LEED Gold Certification.

Morgantown Readiness Center (WVARNG), Morgantown, WV

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

Construction and Facilities Management Office Expansion (WVARNG), Charleston, WV

Mr. Krason was responsible for the programming, architectural design, and project management of the office expansion. The project included the renovation and addition to an existing pre-engineered metal building. The design, which was honored with a 2009 AIA Merit Award, focused the client's resources on a new entry and corridor that separated the existing office space from the addition.

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

Wood County Justice Center, Parkersburg, WV

Mr. Krason was the Project Manager for this adaptive reuse project. The existing 32,000 SF building creates a new Magistrate Court and Sheriff's Department. The justice center is LEED Silver Certified.

Tucker County Courthouse Annex, Parsons, WV

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

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

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

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

2018 WV AIA Citation Award Charleston EDGE, Charleston, WV

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

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

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

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

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

David E. Ferguson, AIA, REFP



Role

QA/QC

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

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

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

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.

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 eather than sitting in a classom with one subject being taught as a time.

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.

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.

Wood County Bond Program: Mr. Ferguson assisted Wood County in developing budgets, project scopes for a \$40 Million Dollar Bond Program. The bond created the New Williamstown Elementary School, Willamstown Middle School Addition and an addition to the Wood County Technical Center. The overall process involved community meetings, establishing goals and priorities, creating overall budgets and a project scope that the citizens would support. ZMM assisted Wood County Schools with distributing information, working with the bond committee and Bond Council to establish the actual Bond Call and assisting with public awareness throughout the county.

Cabell County Bond Program: Mr. Ferguson assisted Cabell County in developing budgets, project scopes and passing the largest bond program in West Virginia. This encompassed four projects and with additional funding from the West Virginia School Building Authority exceeded \$72 million dollars. As Principal, Mr. Ferguson led the programming and design effort on all four facilities.

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

**Role**

Architectural Designer

Mr. Simms is responsible for providing technical support to architectural staff, project coordination and production of drawings from proposal plans to construction documents using 3D modeling software.

Mr. Simms has experience in various types of construction techniques. Billy has served clients in various areas including Education, Residential, Medical, Commercial Offices, Religious and Civic Institutions.

Project Experience**Coonskin Maintenance Facility, Charleston, WV**

The wood framed maintenance facility is under-going a renovation. The structure will remain intact with a new exterior shell being installed including a new roof. Updated interior finishes and new doors and hardware will also be included. A new addition to the metal maintenance building is also included in the package. It will be a metal building as well and will provide additional square footage for equipment storage and maintenance.

- WVDNR Forks of Coal Wildlife Center, Alum Creek, WV
- WVDNR District 5 Headquarters, Alum Creek, WV
- Valley Park Community Center, Hurricane, WV
- Toyota Expansion Annex, Buffalo, WV
- Goodwill Industries, Teays valley, WV
- Ripley JCDA Control Building
- Collins Middle School, Oak Hill, WV
- New River Primary School, Oak Hill, WV
- St. Anthony's Catholic Church (Addition), Boomer, WV
- Wayne County BOE, Tolsia High School, Building 400 Renovations, Fort Gay, WV
- Valley Health Medical Facility, Wayne County, WV
- Mason County BOE, Board Office Renovations, Pt. Pleasant, WV

Education

Bachelor of Arts, Board of Regents,
West Virginia State University, 1993

Employment History

2015 - Present, Architectural Designer,
ZMM

2005 - 2015, McKinley Associates

2003 - 2005, Proactive Architecture

Civic Affiliations

- American Institute of Architects,
Associate, Member

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

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 create a colorful learning environment for the students. No school can be designed without a little fun in mind... A large dry erase mural spans the length of the media center allowing students to express their imaginations.

Mountain Valley Elementary School, Green Valley, WV

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

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

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.

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.

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.

Healthcare Experience

CAMC General Division (C Suite), Charleston, WV
CAMC Memorial Hospital (6th Floor), Charleston, WV
CAMC Primary Medical Clinic, Hurricane, WV
Rainelle Medical Center, Rainelle, WV
Valley Health, Wayne, WV
Valley Health, Milton, WV
Mountain State Oral, 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.

Clarksburg, Richmond, Huntington, Salem VA Hospitals

During previous employment, Mrs. Chapman was heavily involved with renovations to various VA hospitals. Renovations included redesign implementing DIRT wall systems, renovations to nurse, admirative and patient areas, as well as common's areas.

Robert Doeffinger, PE



Role

Engineering Principal / Project Manager

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, Bridgemont 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.

John Pruett, PE, LEED AP



Role

Senior Mechanical Engineer

Professional Registrations

Professional Engineer (WV, VA, IN)

LEED Accredited Professional

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

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

Project Experience

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

Tucker County Courthouse Annex, Parsons, WV

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

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

WWARNG Projects

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

Educational 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' 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

Michael J. White, PE



Role

Structural Engineer

Professional Registrations

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

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

Project Experience

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

Other Jobs from Past Employers:

Monongalia County Justice Center - Morgantown, WV
Lewis Co. Judicial Annex - Weston, WV
Charleston Correctional Work Release Center - Charleston, WV
Stevens Correctional Facility - Welch, WV
Marsh Fork Elementary School - Naoma, WV
WWANG Camp Dawson, Multi-Purpose Building - Kingwood, 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
WVU Parkersburg Center for Early Learning - Parkersburg, 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)

Ronnie L. Burdette, EIT



Role

Structural Engineer, EIT

Mr. Burdette serves as a Structural Engineer at ZMM. His experience he has gained while at ZMM includes Educational (Additions/Renovation to existing structures and Construction of new structures), Municipal (Community Centers), and Residential projects. Mr. Burdette's responsibilities include design and analysis of structural systems and documentation of design results.

Project Experience

Mr. Burdette has served as Structural Engineer on a variety of projects. His responsibilities included analysis and design of multiple building materials (Steel, Timber, & Concrete) and production of structural drawing sets.

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

This project included two separate projects located on the same site. Both buildings were designed to be ICF and steel construction.

Valley Park Community Center, Hurricane, WV

This new community center replaced an existing one at the Valley Park Wave Pool. It was designed to be constructed from masonry, steel, and timber. The exterior design concept plays off the existing Commons Building which incorporates stone accents, wood siding and multi-sloped roofing around a floor plan that emphasizes the internal components. The Community Center entrance is highlighted by a large, exposed wood truss bearing on tall, battered stone columns. These wood beams are featured at all entrances and carry into the meeting room prefunction to provide a fully-exposed, open wood structure.

Charleston EDGE, Charleston, WV

The Charleston Edge renovation project included many different structural materials. The existing building is brick and masonry construction. Construction plans included the design of a new roof-top addition that was supported by structural steel.

Multiple Residential Renovations and Additions

The majority of residential work in the area consists of timber and masonry construction. Mr. Burdette has been involved in residential projects that range from analysis of a 3-story wooden deck to the design of a new addition to an existing timber and masonry house.

Education

Bachelor of Science in Civil Engineering, West Virginia University, 2015

Master of Business Administration, University of Charleston (WV), 2016

Employment History

January 2017 – Present, Structural EIT, ZMM

May 2016 – Dec 2016, Civil/Structural EIT, Jacobs Engineering

May 2015 – Dec 2015, Civil/Structural EIT, CDI Corporation

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
WVSOM 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

Mark T. Epling, AIA, LEED AP, NCARB



Role

Specifications Writer

Professional Registrations

Registered Architect (WV, OH)

LEED Accredited Professional

NCARB Certification

Construction Documents Technologist (CDT)

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

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

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

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

Project Experience

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

New River Primary/Oak Hill Middle School
Mountain Valley Elementary School
Williamstown Elementary School
Kenna Elementary School
Craigsville Elementary School
Southside Elementary/Huntington Middle School
laeger - Big Creek High School
Lincoln County High School
St. Albans High School
Bradshaw Elementary School

Education

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

Employment History

1998 - Present, Project Architect & Specifications Writer, ZMM

1997 - 1998, Project Architect, OH Firm

1982 - 1997, Architect, Self Employed, Located in OH

1978 -1982, Intern Architect, OH Firm

Civic Affiliations

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

Edgewood Elementary School
Hacker Valley Pre K-8 School
Southern WV Community & Technical College
Bridgemont Community & Technical College
Milton Middle School
Barboursville Middle School
Charleston Coliseum & Convention Center
WV State Capitol Roof Replacement
WV State Office Building #5, 6, & 7
WV Housing Development Fund
CFMO Expansion
Houston Company Store
Erma Byrd Center
Joint Interagency Training & Educational Center (JITEC)
Huntington East Middle School
WV Army National Guard - Glen Jean AFRC
WV Army National Guard - Jackson County AFRC
WV Army National Guard - Morgantown Readiness Center
WV Army National Guard - Logan-Mingo Readiness Center
WV Army National Guard - Marshall Readiness Center
Wood County Justice Center
Tucker County Courthouse Annex
Beech Fork State Park Lodge
CAMC Teays Valley
Highland Hospital

Winfield H. Strock

Role

Construction Management/Estimator

Professional Registrations

Licensed Contractor (WV 000010)

Mr. Strock is a licensed contractor in West Virginia. When the West Virginia Contractor Licensing Act was passed in 1990, Mr. Strock was selected as Chairman of the Contractor Licensing Board and served in that capacity until his resignation in 1995. Mr. Strock's has served as Chief Estimator, Field Engineer, and Project Manager on multiple jobs. Mr. Strock has also been the Principal/ Owner of his construction company for 17 years.

ZMM and Mr. Strock have successfully collaborated on a number of projects, including:

- District V Headquarters
- Forks of Coal
- Beech Fork Lodge
- Camp Dawson Building 202 Improvements
- Marshall County Readiness Center
- Logan-Mingo Readiness Center
- Parkersburg Readiness Center
- New Kanawha County (Clendenin) Elementary School
- New Mercer County Elementary School
- Mountain Valley Elementary School
- Williamstown Elementary School
- Building 5, 6, & 7 Improvements
- West Virginia State Police Information Services Center
- Edgewood Elementary School
- West Virginia State Lottery Headquarters Renovation
- Brooks Manor Addition and Renovation
- WVRTP Building 740 Improvements
- Charleston EDGE (Mixed-Use Housing)

Major Projects Estimated 2005-2012

Charleston Area Medical Center

Robert C. Byrd Clinical Teaching Center - \$70M
CAMC Cancer Center - \$40M
CAMC Memorial 48 Bed Addition - \$30M

West Virginia K-12 Schools

McDowell County Schools Relocation Program - \$50M
Putnam County Schools Bond Program - \$65M
Greenbrier West High School - \$21M
Mingo County High School - \$27M
Pikeview Middle School - \$16M
Spring Mills Primary School - \$13M
Edgewood Elementary School - \$16M

Employment History

1995 - Present, Principal, Construction Manager, Winfield Strock
1978 - 1995, Owner, President, Kenhill Construction Company
1965 - 1978, Field Engineer, Estimator, Project Manager, Messer Construction, Cincinnati, OH

Civic Affiliations

- Associated General Contractors of America - *Past Director*
- Contractors Association of West Virginia - *Past President/Director*
- Kanawha Valley Builders Association - *Past President*

West Virginia Applied Technology Centers

Williamson, WV - \$6M

Marion County, WV - \$14M

West Virginia Army National Guard Readiness Centers

Elkins, WV - \$22M

Ripley, WV - \$11M

Logan/Mingo Counties, WV - \$13M

New River Community College

Lewisburg, WV - \$6M

Beckley, WV - \$17M



CLAUDIA L. WORKMAN FISH & WILDLIFE EDUCATION CENTER

LOCATION ALUM CREEK, WV	SIZE 7,000 SF	COMPLETION 2021	COST \$5M
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The ZMM team has provided preliminary site and building design for the Claudia L. Workman Fish and Wildlife Education Center at the Forks of Coal State Natural Area.

Services include the development of a property survey, topographic mapping, site analysis, review of existing infrastructure and required utility upgrades, preliminary entry road and parking design, site master planning and key development renderings, site development cost estimates, and trail mapping. Our team also coordinated preliminary planning phase services with environmental, architectural, exhibit design, and marketing team members.

The facility, the Claudia L. Workman Fish and Wildlife Education Center, is a nearly 7,000 SF building nestled in the beautiful West Virginia landscape. The building layout concentrates on both the visitor and user experience, while creating a dynamic space to celebrate some of West Virginia's greatest natural treasures. One of the key concepts of the building is to represent our wild and wonderful state by incorporating natural materials such as stone, a variety of woods, and other natural finishes.

A central axis is formed by the main entrance, the lobby, and a small exterior platform which frames an inspiring view. This central space sets the tone for the visitor's experience with heavy timber, vaulted ceilings,

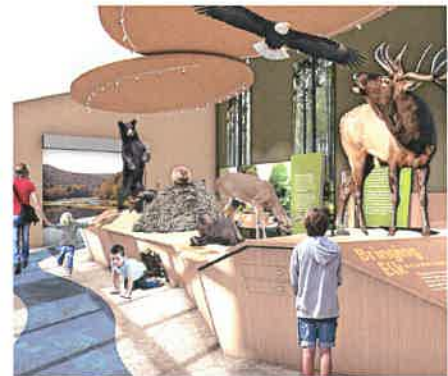


Claudia L. Workman Fish & Wildlife Education Center (cont.)

and natural light. The versatility of the space also allows for a variety of uses, ranging from a large open assembly area, to an additional display area that flows seamlessly into the exhibit space.

Upon entering the building, non-exhibit spaces are organized for intuitive navigation and ease of use. The northwest quadrant of the building is dedicated to administration and to a classroom function, as well as a chair/table storage room that is strategically placed to serve both the classroom and/or the large central space. The southwest quadrant is primarily composed of utilitarian spaces such as accessible restrooms, a data closet, a mechanical room, and a large corner conference room, highlighted by natural light and views. Additional basement space below the first level may serve as storage, and could also provide room for electrical and additional mechanical space as necessary. The site topography allows for easy access to a lower level, and locating utilitarian spaces on this level works perfectly with the building placement.

The entire eastern half of the building is devoted to exhibit space. The layout will allow one large expansive space, or be used as multiple smaller spaces, to allow visitors to interact within one space, while creating the opportunity in another space for exhibits to be updated. The angled walls, placement of exterior glass, and door placement creates a naturally vibrant exhibit space, as the outdoors become part of the exhibit experience, as a large, elevated deck spans across the landscape, creating the ultimate viewing platform for the breathtaking views of the Forks of Coal State Natural Area.



ADDITIONAL WVDNR EXPERIENCE

Pipestem Resort State Park - McKeever and Mountain Creek Lodge Renovation
Pipestem, WV

District V Headquarter Renovation
Alum Creek, WV

Tomblin Wildlife Management Area Office/Shop and Elk Viewing Platform
Alum Creek, WV





VALLEY PARK COMMUNITY CENTER

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

Site work amenities provided under a separate contract include baseball fields, soccer fields, tennis courts, playground space and additional parking. The project was constructed for the Putnam County Parks and Recreation Commission with funds supplied by the Putnam County Commission.

The park's previous community building was torn down to make way for a larger, updated Community Center that includes 7,750 SF of conference space, a commercial kitchen, offices for the Putnam County Parks and Recreation Commission, and offices, locker-rooms, and concessions for the existing wave pool. The meeting rooms can accommodate individual events in three separate rooms, or can be expanded to provide 450 table-seated guests or 1,200 in a standing-room-only configuration. It features the latest technology in internet access, sound, and lighting systems, along with high-end interior finishes, making it a perfect site for conferences and wedding receptions. The full-service commercial kitchen provides cooking and storage facilities for everything from small caterings to multi-day events. At the rear of the facility is a three-tiered concrete activity deck leading visitors to the wave pool.

The exterior design plays off the existing Commons Building, which incorporates stone accents, wood siding, and multi-sloped roofing around



Valley Park Community Center (cont.)

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





CLAY CENTER FOR THE ARTS & SCIENCES OF WV

LOCATION | COMPLETION | COST
CHARLESTON, WV | 2020 | \$2.1M

The Clay Center for the Arts and Sciences of WV in Charleston is a 240,000 SF facility that opened in 2003 and is dedicated to promoting performing arts, visual arts, and the sciences.

The Clay Center is housed in a very formal structure with a stone base and portico, brick and glass veneer, and several domed spaces (at the entry and planetarium). The rear of the building, designated as the Susan Runyan Maier Sculpture Garden, contained a brick plaza with minimal landscaping and sculptures around the perimeter. There was little connection to the interior of the space, which occupied the corner of two unadorned large brick walls. The space was uninviting and seldom utilized.

Over the past several years, the Clay Center has been undertaking improvements to add features and update exhibits to enhance the visitor experience. When the *Waterworks* exhibit was developed on the main level, new windows were added to the space to improve the views and provide access to natural light. Once the visual connection was made to the sculpture garden, it was clear that improvements were needed to help activate the space and maximize its potential.

To help implement the project, the design team provided planning and design services for a complete overhaul of the sculpture garden. The design team focused the plan around the concept of providing three



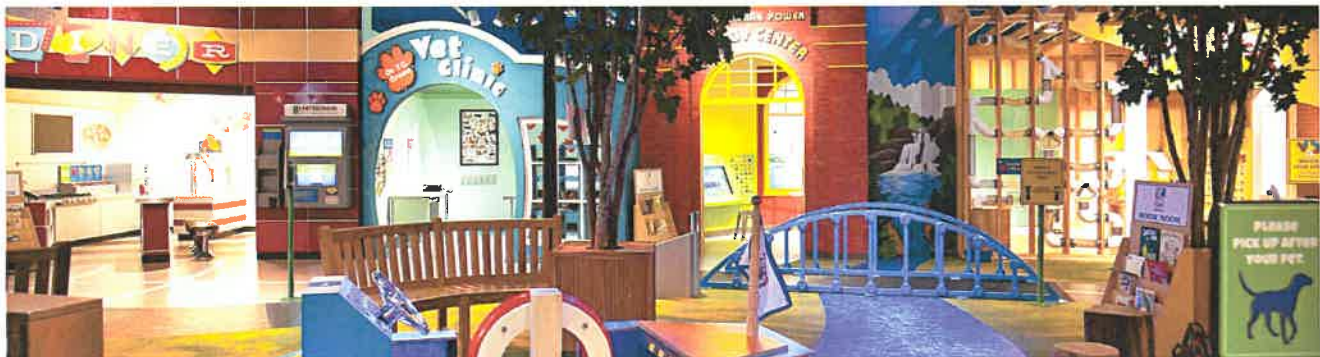
Clay Center for the Arts & Sciences of WV (cont.)

outdoor “rooms” which are meant to enhance the guest experience. The rooms identified during the planning and design process create the opportunity to do three things: listen, reflect, and interact.

To create a place to listen, the design team developed a small event space covered with an artful tensile fabric canopy which is to be used for small outdoor concerts, weddings, and parties. For an area of reflection, the design team enhanced an existing landscape area with a large reflecting pool and fountain. At the center of the pool is the feature sculpture, which blends into the water below. Finally, for a space of interaction, the team enhanced an existing paved area by accenting it with new seating, lighting, and landscape materials. The new interaction space is envisioned to be used for dining, meetings, and outdoor classroom space.

Other recent improvements included serving as architect and engineer of record for the *My Town* and *Waterworks* exhibits, which were designed by Argyle Design. For these projects, ZMM provided code compliance reviews, as well as architectural, mechanical, electrical, plumbing design, and standard construction phase services. As part of the *Waterworks* exhibit, ZMM also provided architectural and structural design services to create two new large curtainwall windows to help connect the exhibit to the community.

Additional services have included improvements to the adjacent parking lot, and the development of mid-block crossings to improve safety and patron experience at the facility.





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.





BEECH FORK STATE PARK LODGE

LOCATION LAVALETTE, WV	COMPLETION TBD	COST \$28.49M
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The goal of the lodge study was to help determine the feasibility for a new lodge at Beech Fork.

This objective was achieved through the development of a concept for a 75-room lodge, located on the banks of Beech Fork Lake in Wayne County, WV, which is designed to benefit a variety of visitors. The form of the building was influenced by the site configuration, as well as the functions contained within it.

The floor plan is arranged in a way to separate the guestrooms and other guest-only facilities from the more public functions of the building, such as the restaurant, pub, gift shop, and meeting room. This allows visitors who may not be staying at the lodge to use these areas, without encroaching on the privacy of lodge guests. All of the guestrooms are arranged to have access to views of the lake. Those views are also shared by the restaurant, meeting room, and the recreation areas.

The exterior of the building is designed to simulate the craftsman style to evoke a more relaxed, comfortable, and informal feel for guests and visitors. The brick, stone, siding, and roof materials are common to the area and offer low-maintenance and durability to provide a long-lasting, attractive structure.





LOGAN-MINGO READINESS CENTER

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

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

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





CONSTRUCTION & FACILITIES MANAGEMENT OFFICE

LOCATION CHARLESTON, WV	SIZE 19,935 SF	COMPLETION 2008	COST \$3.5M	AWARDS 2009 AIA WV MERIT AWARD
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The Construction and Facilities Management Office (CFMO) Expansion project brought all of the operations of the CFMO together under one roof.

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

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

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





MANASSAS PARK COMMUNITY CENTER

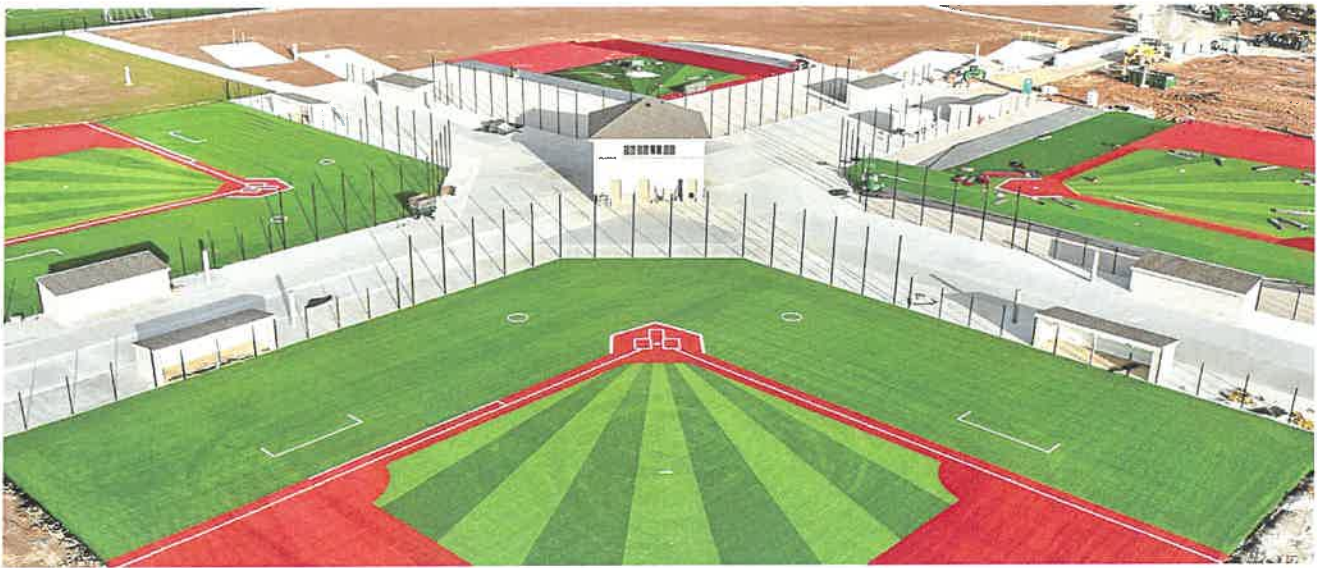
LOCATION MANASSAS PARK, VA	SIZE 79,280 SF	COMPLETION 2010	COST \$18.5M
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The Manassas Park Community Center is a multi-generational facility designed to meet the recreation and community use needs of all the citizens of Manassas Park.

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

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





SHAWNEE PARK MULTI-SPORT COMPLEX

LOCATION DUNBAR, WV	SIZE 70 ACRES	COMPLETION 2018	COST \$15M
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The proposed Shawnee Park Multi-Sport Complex is a travel tournament destination for soccer, lacrosse, baseball, and softball, as well as a resource for local athletic teams.

The multi-sport complex site is over 100 acres, located near Dunbar and Institute, WV. The complex includes six artificial-turf collegiate soccer/lacrosse fields and four artificial-turf, collegiate-size baseball fields.

An expansive grass field area is also proposed. The artificial turf fields accommodate multiple age groups with movable mounds, bases, outfield fences, and goals. The grass fields will be lined as required by the tournaments. The clover baseball field layout includes a center structure with restrooms, concessions, and a second-story press box to view all four fields. A welcome center structure with concessions and restrooms is located near the parking area. An over 600-space parking lot is also dedicated to the facility.





HARKRADER SPORTS COMPLEX

LOCATION	SIZE	COMPLETION	COST
CHRISTIANSBURG, VA	3,400 SF	2006	\$1.4M

Harkrader Sports Complex consists of one softball field and two baseball fields located radial to a central two-story building, which holds a press box on the second floor and a concession and two public restrooms on the first floor.

Each field has bleacher seating, dugout shelters and sports lighting. With removable fencing, the baseball outfields can be converted into a soccer field. Other features include a 1,200 SF maintenance building, double-sided ticket booth, vending machine enclosure and batting cage.

The facility is encircled by a 0.4 mile paved walking track, which is located outside of the perimeter fence for unrestricted public use. Harkrader Sports Complex is linked to an adjoining middle school which was designed concurrently by ZMM. To maximize the community recreational and educational opportunities, the middle school site offers additional multi-purpose fields for soccer and football, tennis courts, a greenhouse, and an amphitheater.



REFERENCES

Greg Melton, Director of General Services

Capitol Complex Building
Building 1, Room MB-60
1900 Kanawha Blvd., E.
Charleston, WV 25305
304.558.2317

David Molgaard, Former City Manager

Charleston Coliseum & Convention Center
200 Civic Center Drive
Charleston, WV 25301
304.389.2011 cell

Jeremy Young, County Manager

Valley Park Community Center
1 Valley Park Dr.
Hurricane, WV 25526
304.562.0518

Todd Reynolds, Deputy Branch Chief

Logan-Mingo Readiness Center
1707 Coonskin Drive
Charleston, WV 25311
304.561.6367

Ben Salango, Commissioner

Kanawha County Commission
206 Capitol Street
Charleston, WV 25301
304.342.0512