



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

State of West Virginia  
Centralized Expression of Interest  
02 — Architect/Engr

Proc Folder: 438110

Doc Description: EOI: Building Six Interior Renovations

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2018-04-03	2018-05-03 13:30:00	CEOI 0211 GSD1800000005	1

**BID RECEIVING LOCATION**

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

**VENDOR**

Vendor Name, Address and Telephone Number:

ZMM, Inc., Architects and Engineers  
222 Lee Street, West  
Charleston, WV 25302  
304-342-0159

RECEIVED

2018 MAY -3 AM 11:00

WV PURCHASING  
DIVISION

**FOR INFORMATION CONTACT THE BUYER**

Michelle L Childers

(304) 558-2063

michelle.l.childers@wy.gov

Signature X

FEIN # 55-0676608

DATE May 2, 2018

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contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated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., 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)

5-2-2018  
(Date)

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



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

State of West Virginia  
Centralized Expression of Interest  
02 — Architect/Engr

Proc Folder: 438110

Doc Description: Addendum 1 - EO: Building Six Interior Renovations

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2018-04-24	2018-05-03 13:30:00	CEOI 0211 GSD1800000005	2

**BID RECEIVING LOCATION**

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

**VENDOR**

Vendor Name, Address and Telephone Number:

ZMM, Inc., Architects and Engineers  
222 Lee Street, West  
Charleston, WV 25302  
304-342-0159

**FOR INFORMATION CONTACT THE BUYER**

Michelle L Childers

(304) 558-2063

michelle.l.childers@wv.gov

Signature X

FEIN # 55-0676608

DATE May 2, 2018

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

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

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

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

**Addendum Numbers Received:**

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

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

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

ZMM, Inc., Architects and Engineers

Company



Authorized Signature

May 2, 2018

Date

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

West Virginia Ethics Commission  
**Disclosure of Interested Parties to Contracts**

(Required by W. Va. Code § 6D-1-2)

Contracting Business Entity: ZMM, Inc. Address: 222 Lee Street, West  
Charleston, WV 25302

Authorized Agent: Adam R. Krason Address: Same as Above

Contract Number: GSD1800000005 Contract Description: Building Six Interior Renovations

Governmental agency awarding contract: General Services Division

☐ Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (*attach additional pages if necessary*):

**1. Subcontractors or other entities performing work or service under the Contract**

☒ Check here if none, otherwise list entity/individual names below.

**2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)**

☐ Check here if none, otherwise list entity/individual names below.

ZMM, Inc. - Robert Doeffinger  
ZMM, Inc. - David E. Ferguson  
ZMM, Inc. - Adam R. Krason

**3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)**

☒ Check here if none, otherwise list entity/individual names below.

Signature: 

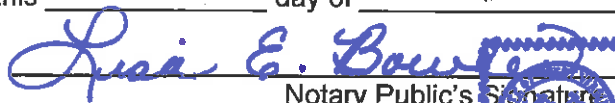
Date Signed: May 2, 2018

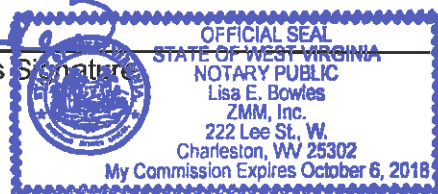
**Notary Verification**

State of West Virginia, County of Kanawha:

I, Adam R. Krason, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 2nd day of May, 2018.

  
Notary Public's Signature



**To be completed by State Agency:**

Date Received by State Agency: \_\_\_\_\_

Date submitted to Ethics Commission: \_\_\_\_\_

Governmental agency submitting Disclosure: \_\_\_\_\_

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., Architects and Engineers

Authorized Signature:  Date: May 2, 2018

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 2nd day of May, 2018.

My Commission expires 10-6, 2018.



NOTARY PUBLIC



Purchasing Affidavit (Revised 01/19/2018)



May 3, 2018

Michelle Childers, Senior Buyer  
State of West Virginia – Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305

**Subject: Expression of Interest for Building 6 Interior Renovations  
CEOI – GSD1800000005**

Dear Ms. Childers:

ZMM Architects and Engineers is pleased to submit the attached information to demonstrate our experience and our qualifications to provide professional architecture and engineering services for the Building 6 Interior Renovation Project for the State of West Virginia General Services Division (GSD). Established in 1959, ZMM is a Charleston based, full service A/E firm, and is noted for design excellence and client focus. Our integrated design approach makes ZMM unique among design firms of our size, and our ability to provide comprehensive design services has made us a trusted resource for complex renovation projects throughout West Virginia. For this engagement our in-house A/E team will be supplemented with the specialized expertise of Orion Consulting (Hazardous Material Assessment and Abatement) and Win Strock (Cost Estimating). ZMM, Orion Consulting, and Mr. Strock have previously collaborated on other phased interior renovations to State Office Buildings 5, 6, & 7.

Nearly 50 years ago ZMM (as Zando, Martin, and Milstead) designed the original West Virginia State Office Buildings 5, 6, and 7. In 2007 the GSD selected ZMM to undertake a detailed investigation and assessment of the office towers. The project included the production of as-built drawings of the buildings, as well as the development of a phased strategy to improve the buildings. Since the completion of the investigation and assessment ZMM has been assisting the GSD implement various improvements to the office towers. Improvements that have been undertaken have ranged from substantial renovations to maintenance and repair projects, as well as a variety of exterior improvements. One of the previously completed design efforts was the production of construction documents for the renovation of the 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> levels of State Office Building 6. The renovations, which were designed to implement a phased approach to the improvements, included demolition, abatement, life safety improvements, interior core area improvements, flexible office space, mechanical, electrical, and plumbing improvements, as well as furniture, fixtures, and equipment.

We are confident that ZMM Architects and Engineers remains the most qualified firm to provide professional design services for the GSD on this project for the following reasons:

- **Experience.** ZMM has renovated buildings throughout the region, and has a history of providing services on improvement projects to our state's landmark buildings including the West Virginia State Capitol, the Culture Center, the Charleston Civic Center, State Office Buildings 5, 6, & 7, the Greenbrier, and the Clay Center. Many of these projects, including our work on State Office Buildings 5, 6, & 7 and the Charleston Civic Center have included phased improvements to occupied buildings.



In addition to our renovation experience, ZMM has provided services on multiple commercial office space projects that had a similar intent of providing flexible, modern office space. In addition to our previous work State Office Buildings 5, 6, & 7, recent relevant projects include the West Virginia Housing Development Fund office in Kanawha City, Floors 7, 8, and 9 at the WV Lottery Building, as well as the Joint Interagency Training and Education Center (JITEC) at Camp Dawson for the West Virginia Army National Guard (WVARNG).

- **Quality.** ZMM has a history of providing high quality design services on renovation projects. Recent experience includes the Charleston EDGE Project, the Explorer Academy and Southside Elementary Schools (Cabell County Schools), Renovation of the Education Wing at Christ Church United Methodist, the Girl Scouts of Black Diamond Council Headquarters, Renovation of the 10<sup>th</sup> Floor of State Office Building #5, and the CFMO Expansion for the West Virginia Army National Guard. All seven projects were honored with statewide design awards. *In fact, ZMM's commitment to design quality has been recognized by the American Institute of Architects West Virginia Chapter with sixteen design awards in the last decade – an achievement unrivaled in West Virginia.*
- **Talent.** With over thirty-five local employees ZMM provides an integrated design approach by delivering all building related design services including architecture, engineering (structural, mechanical, and electrical), interior design, and construction administration in-house. ZMM's team includes seven registered architects, nine professional engineers (civil, structural, mechanical, and electrical), 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 expression of interest, which has been formatted as requested. Additionally, please visit our website at [www.zmm.com](http://www.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. ZMM Architects and Engineers is grateful for the previous opportunities to assist the GSD renovate State Office Buildings 5, 6, & 7. We would appreciate the opportunity to continue our efforts to improve the buildings. The lessons that ZMM has learned through the other significant renovations to these buildings will be utilized to continue to improve the planning, design, and construction process for the GSD. Thank you for your consideration for this important assignment.

Respectfully submitted,  
ZMM, Inc.



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





## **Table of Contents**

Cover  
Cover Letter  
Table of Contents

Section 1 Building 6 Description and Approach

Section 2 Firm Profiles  
ZMM History and Services  
Awards and Honors  
Orion Consulting

Section 3 Relevant Project Experience

Section 4 Key Resumes

Section 5 Client References

## Building 6 Interior Renovations: Project History and Design Approach

### Project History

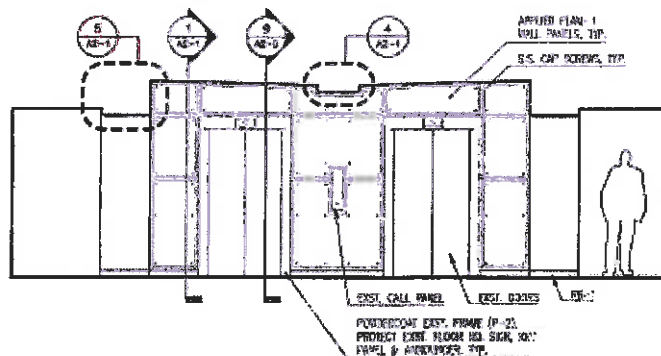
Nearly 50 years ago, ZMM Architects and Engineers (Zando, Martin, and Milstead) designed the original West Virginia State Office Buildings 5, 6, and 7. Over time, and due to the lack of an automatic fire suppression system, the existence of a significant amount of hazardous materials (most notably the fire proofing of the steel structure), as well as an inefficient plan and outdated finishes the buildings were in need of a substantial renovation. In 2007 the State of West Virginia General Services Division (GSD) selected ZMM to undertake a detailed investigation and assessment of the office towers. The project included the production of as-built drawings of the buildings, as well as the development of a phased strategy to improve the buildings. Since the completion of the investigation and assessment ZMM has been assisting the GSD implement various improvements to the buildings. Improvements that have been undertaken have ranged from substantial renovations to maintenance and repair projects, and include:

### Major Renovations

ZMM Architects and Engineers provided design services for the renovation of the 10th Floor of Building 5 for the Office of Technology - a project that was recognized with a design award from the West Virginia Chapter of the American Institute of Architects. The project focused on demonstrating the potential that exists in State Office Buildings 5 and 6 if the floors are renovated in a more contemporary manner that moves the open office spaces to the perimeter, and pulls the offices adjacent to the building core. The project also improved the public spaces on each floor by improving the elevator lobby, and providing central conference space that provides views of the exterior at each level.



**Building #5, 10<sup>th</sup> Floor Elevator Lobby**



**Interior Elevation of Proposed Elevator Lobby**

The project was technically intensive and involved close coordination with the State Fire Marshal, the introduction of a new sprinkler service and fire pump into the building, demolition, hazardous material abatement, and FF&E coordination. The project, as well as future renovations in the building, also included mechanical, electrical, and plumbing improvements – all designed by ZMM's in-house engineering team. Orion Consulting assisted with the hazardous material assessment as well as the production of the abatement documents. The project also included the installation of additional cross-bracing at the end-walls, bringing the building into compliance with new seismic requirements. The project was delivered considerably under the anticipated project budget.

The next phase of the interior improvements involved the renovation of floors 7, 8, and 9 of Building 5 and floors 7 and 8 of Building 6. When complete this project ensured that all floors over the level designated as a high-rise (per the West Virginia Fire Code) are now protected by an automatic fire suppression system. All of these floors have been fully renovated, including abatement, demolition, updated life safety systems, new construction, as well as updated furniture, fixtures, and equipment.



### Completed Major Renovation in Building #5

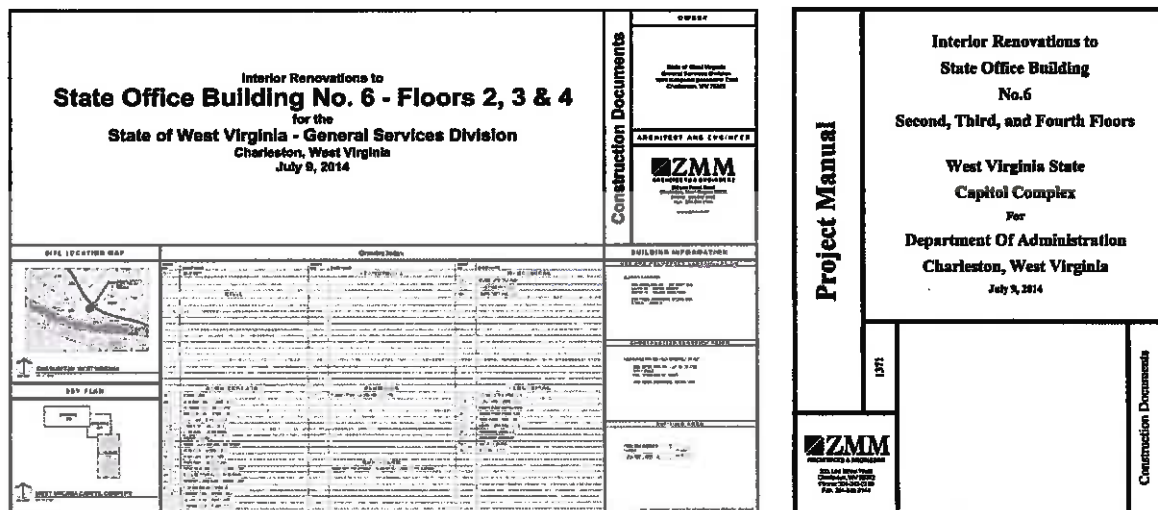
Additional improvements have included smaller interior renovation projects such as the Building 7 vending area, as well as a variety of exterior and infrastructure improvements, including:

- Roof Replacement
- Electrical Courtyard Improvements
- Door and Window Replacement
- Exterior Cleaning and Caulk Replacement
- Valve Replacement

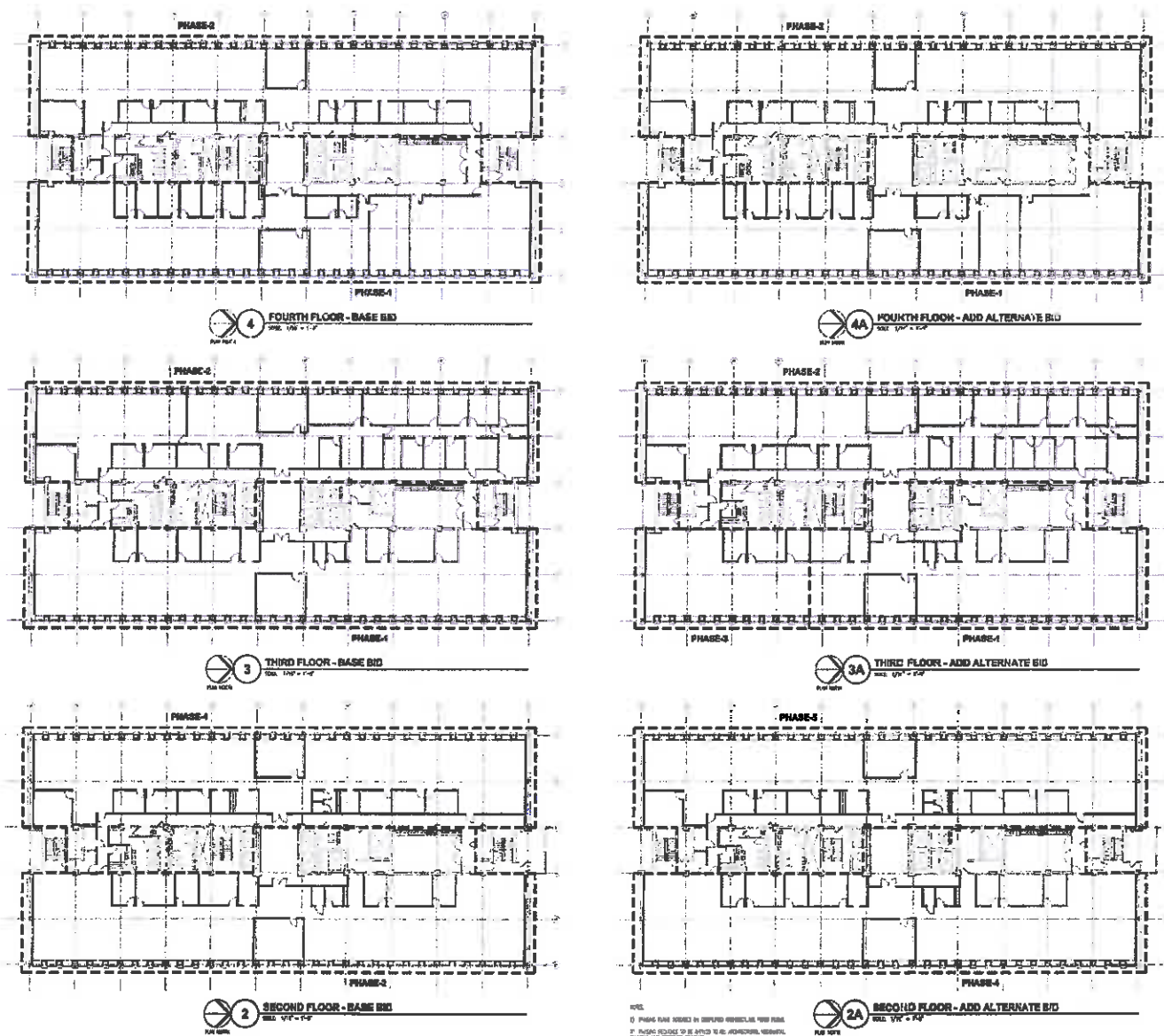
These improvements will help extend the useable life of the State Office Buildings. Many of these improvements, as well as the recommendations contained in the original assessment, were reviewed and approved by the Capitol Building Commission.

### State Office Building #6 – 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> Level Renovation

In 2014 ZMM assisted the GSD with the development of renovation plans for State Office Building No. 6: Floors 2-3 (Department of Education) and State Office Building 6: 4<sup>th</sup> Floor (Division of Personnel). The process included programming, design, and the production of construction documents. The scope of the improvements was similar to the major renovation projects described above.



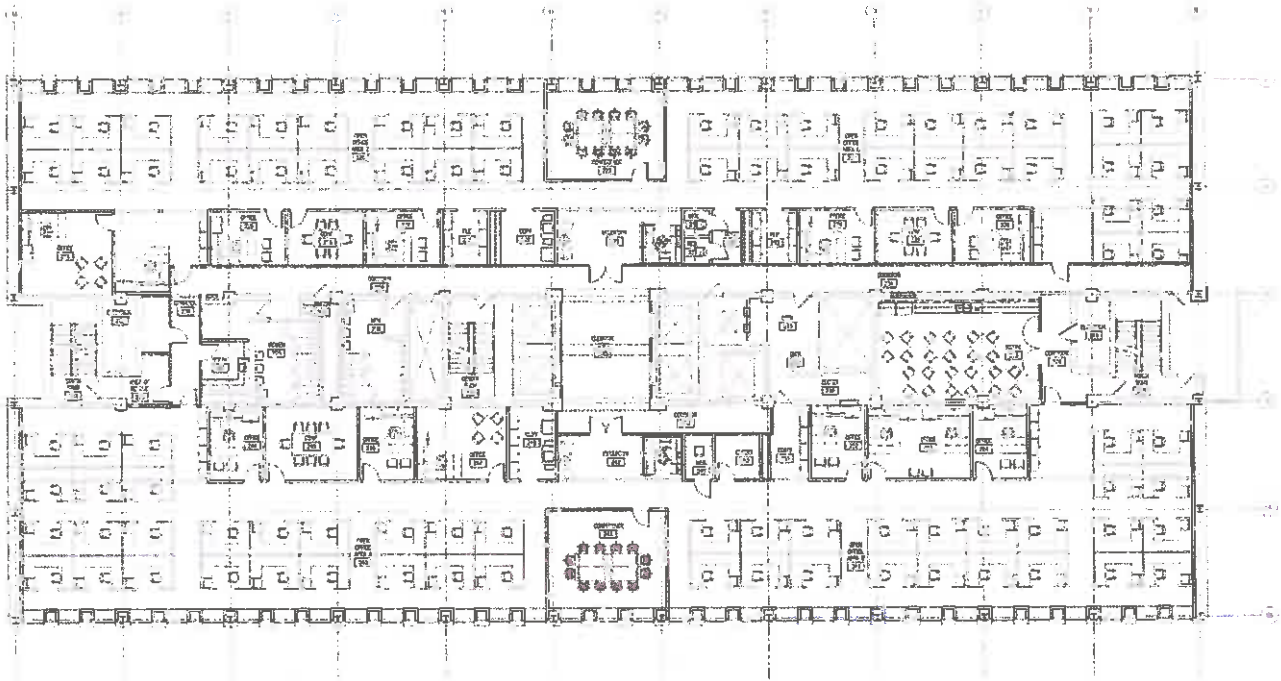
As designed in 2014, the renovation of the floors 2, 3, and 4 in State Office Building 6 were originally designed to accommodate the Department of Education and the Division of Personnel. The Department of Education would occupy floors 2 and 3 while Personnel would reside on the 4<sup>th</sup> level. The renovation was to include demolition of the existing construction, as well as significant hazardous material abatement. In some cases this abatement has been performed under an existing statewide agreement, while in other cases it has been bid as part of the demolition and construction effort. Due to the need to minimize the impact of the project phased demolition, abatement, and new construction was anticipated. ZMM developed phasing plans for the project (below) to accommodate this need. All of the major renovations projects in the office towers have been accomplished in a phased manner while the buildings remained occupied.



### **Proposed Phasing Plans Developed for Building 6 – 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> Level Renovation**

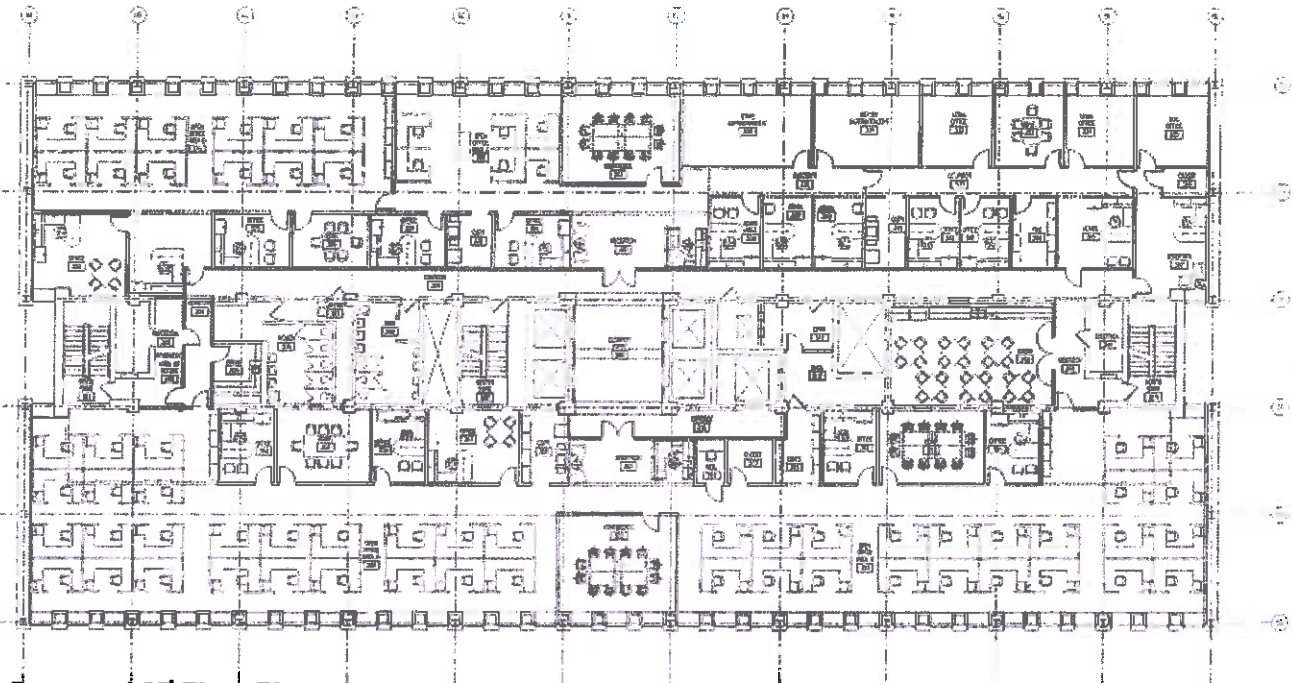
The proposed design included plans to renovate approximately 44,000 SF of space for 187 employees for the Department of Education which included a large executive suite for the State Superintendent's staff on the 3<sup>rd</sup> floor (later accommodated in the renovation of the upper levels of State Office Building 6). The renovation plans also included approximately 20,000 SF of space for 78 employees for the Division of Personnel along with a 2,000 SF separate tenant space. Each plan included a mix of private and open office space, and responded to current workplace design trends. ZMM also developed the preliminary interior furniture and equipment design with significant coordination with both state agencies.

To improve the opportunity for daylighting, the enclosed office spaces line the building core while the systems furniture workstations inhabit the large room adjacent to the perimeter windows. This approach allows for daylight to be introduced deep into the interior work areas and will allow access to the daylight and views for all employees. As noted above, each side of the building has a separate reception area off the elevator lobby with a large conference room which helps divide each open office area while maintaining views of the exterior from the elevator lobby. In addition, renovations to the building core were anticipated and included elevator lobby upgrades, a large breakroom, restroom ceilings and lighting, as well as significant upgrades to the mechanical and electrical systems. Of those, the elevator lobby renovations would have been the most significant, creating a consistent look and level of finish at each entry point throughout the office towers. Images of the renovation plans are provided below:

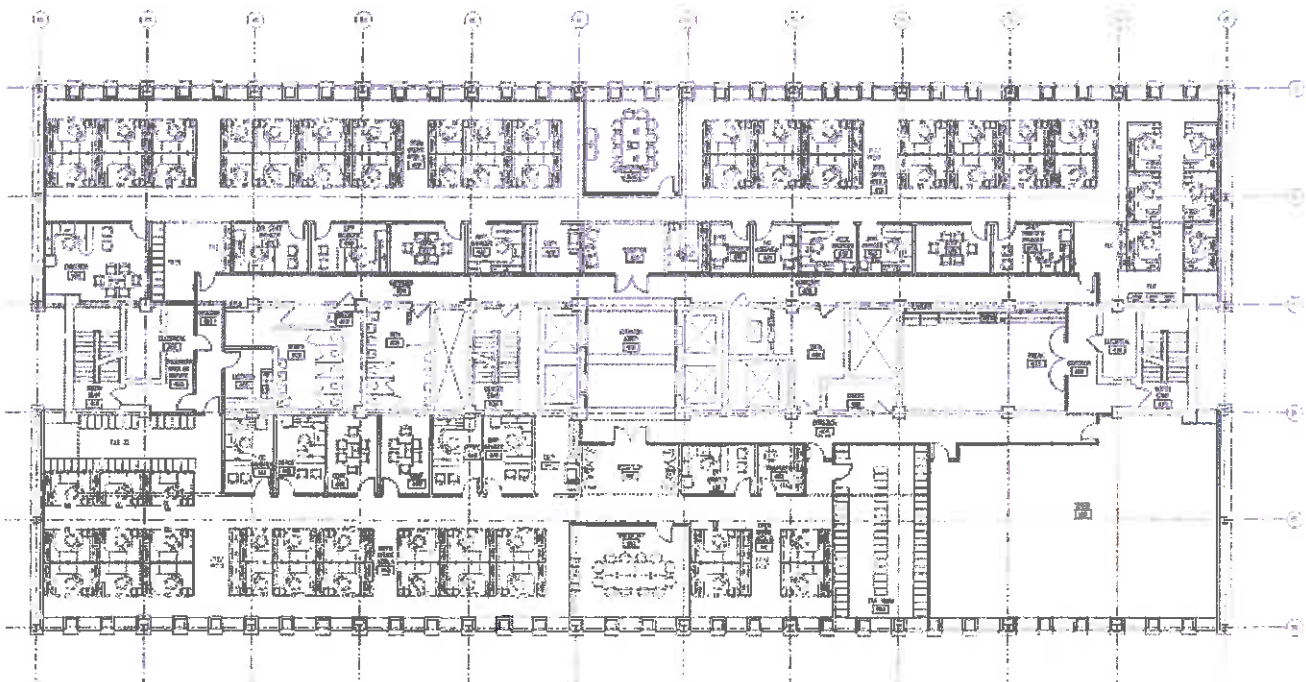


**Proposed 2<sup>nd</sup> Floor Plan**





**Proposed 3<sup>rd</sup> Floor Plan**



**Proposed 4<sup>th</sup> Floor Plan**



**Similar Experience (Commercial Office, Renovation, Phasing)**

ZMM has renovated buildings throughout the region, and has a history of providing services on improvement projects to many landmark buildings, including the West Virginia State Capitol, the Culture Center, the Charleston Civic Center, the Greenbrier, and the Clay Center. In addition to our renovation experience, ZMM has provided services on multiple commercial office space projects that had a similar intent of providing flexible, modern office space. Recent projects include the renovations to various floors in State Office Buildings 5, 6, & 7 (noted above), the West Virginia Housing Development Fund office in Kanawha City, and Floors 7, 8, and 9 at the Lottery Building.

As previously noted all of the completed renovation efforts on State Office Buildings 5, 6, & 7 were implemented in an occupied building utilizing a phased renovation approach. Another project that remained occupied during a significant renovation was the Expansion of the Charleston Civic Center. The \$100M project, which included the replacement of the central plant, and upgrades to all mechanical, electrical, and plumbing systems, has been implemented utilizing a phased approach. One of the project constraints was that this critical public facility remains operational throughout the construction process. The project is currently scheduled for completion in October of 2018, and the Charleston Civic Center has been able to maintain operations throughout the process.

**Why is ZMM Architects and Engineers the right team to assist the State of West Virginia General Services Division on the Building 6 Interior Renovation Project?**

ZMM's ability to provide comprehensive design (A/E) services makes our team uniquely qualified to perform on complex renovation projects, while our experience investigating, assessing, and providing design services on State Office Buildings 5, 6, & 7 will prove beneficial as we work to complete the proposed design effort. The lessons that ZMM has learned during other significant renovations to these buildings will be utilized to continue to improve the planning, design, and construction process. Additionally, we are confident that ZMM Architects and Engineers has the right combination of renovation, commercial office, and phased construction experience to successfully deliver this project. Perhaps most importantly, the proposed ZMM team has worked collaboratively with the General Services Division to deliver very similar projects at State Office Buildings 5, 6, & 7, as well as on improvements to the Main Capitol Building Roof, and Surplus Property. ZMM is hopeful that you have observed our commitment to design quality, budget and schedule control, and client service demonstrated on these projects.



**LOCATION:**  
222 Lee Street, West  
Charleston, WV

**CONTACT:**  
Phone 304.342.0159  
Fax 304.345.8144  
[www.zmm.com](http://www.zmm.com)



ZMM was founded in 1959 in Charleston, West Virginia by Ray Zando, Ken Martin, and Monty Milstead. Since the inception of the firm, ZMM has been dedicated to providing an integrated approach to building design for our clients. ZMM delivers this integrated approach by providing all building related design services, including architecture, engineering (civil, structural, mechanical, and electrical), interior design, and construction administration from our office in Charleston. Our integrated design approach makes ZMM unique among architectural firms in West Virginia, and helps to ensure the quality of our design solutions by providing more thoroughly coordinated construction documents.

Over the last decade, ZMM has become a leader in sustainable or 'green' design in West Virginia. In addition to participating in sustainable design and construction seminars throughout the State (Beckley, Fayette County, Morgantown, Charleston, and Parkersburg), ZMM designed one of the first sustainable educational facilities in West Virginia (Lincoln County High School). ZMM's unique design approach has proven invaluable on projects that employ sustainable design principles, which often require a more integrated approach to building design.

As ZMM enters our second half-century providing professional design services in West Virginia, we remain committed to the ideal of providing high quality, client focused, design solutions that meet budget and schedule requirements. This commitment to quality has been recognized through both State and National design awards, as well as through the long-term client relationships that we have developed.



ZMM has been dedicated to the integrated approach to building design which is unique to architectural firms of our size. Our past successful experience demonstrates that providing multi-disciplined services within one organization results in a fully coordinated project. ZMM has the qualified professionals available to provide services throughout the duration of a project from the initial planning phases through post-occupancy evaluations and beyond.

**Advantages of an integrated Design Approach:**

- The Owner has a Single Point of Design Responsibility
- Improved Design Schedule
- Improved Coordination of Documents
- Improved Construction Phase Services
- Well Coordinated Documents Lead to Better Bids for the Owner

Additionally, ZMM is constantly working to improve the services we offer by addressing emerging and evolving trends that impact the design and construction market. ZMM has seven LEED accredited Professionals on staff to address the needs of our clients who are interested in designing buildings that meet the US Green Building Council's standards. This continues ZMM's active implementation of sustainable design principles on our projects.

**Services**

**Pre-Design**

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

**Post Design**

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

**Design**

Architectural Design  
Sustainable Design  
Interior Design  
Landscape Architecture  
Civil Engineering  
Structural Engineering  
Engineering (MEP)  
Energy Consumption Analysis  
Net Zero Design





LOCATION:  
1512 Hampton Rd.  
Charleston, WV

CONTACT:  
Phone 304.343.2294  
orionconsulting.net

Orion Consulting, LLC (Orion) employs a staff of Environmental, Health, and Safety Professionals who offer Best Practice Solutions in addressing our client's issues. Our scope of capabilities includes; Risk Management/Loss Control, Environmental Assessments, Industrial Hygiene and Safety/Health regulatory compliance assistance.

Staff Credentials Include:

Certified Safety Professional (CSP)  
Certified Industrial Hygienist (CIH)  
Professional Engineer (PE)

Our experienced staff of professionals includes individuals who by virtue of academic preparation, experience, and certification examinations continually demonstrate the competencies required of Best Practice Approach Methodologies.

Orion's most important asset is our staff's multi-discipline backgrounds. In addition to our full-time consultants, we utilize the additional professionals on a contractual basis in order to provide specific services that compliment our core competencies and business strategy.

Orion consultants come from diverse backgrounds, such as loss prevention in the insurance industry, safety management positions within general industry, the environmental services and remediation industry, and higher education.

Our safety and health specialists possess a wealth of experience, and can provide audit services such as ergonomic assessments, health hazard evaluations, fire prevention and protection consultation, PPE assessments, confined space evaluations, and loss control. Our professionals also offer consulting services in program development, including: OSHA Compliance, Lab Safety, Risk Management, Hearing Conservation, Confined Spaces, Lockout/Tagout, Hazardous Communication, and Industrial Hygiene Planning.

Orion provides a comprehensive curriculum. For example, in the area of asbestos training, we offer initial and refresher courses for asbestos workers, supervisors and contractors, inspectors, and management planners. We also provide Class II, III, and IV training, covering specific abatement activities relative to these disciplines. Our courses are presented in both open-enrollment classes and on-site environments.

Orion also offers a curriculum of Hazardous Materials/Emergency Response courses that can assist an organization with any hazard training initiatives that they may foresee. Specifically, we offer initial and annual refresher courses for 24-hour HazMat Technician Level, 24-hour TSD Facility Worker, 40-hour Hazardous Waste Site Worker, 8-hour Hazardous Waste Site Supervisor, 8-hour Hazardous Materials Operations Level, Incident Commander, D.O.T. Compliance, and RCRA Training.



Additional 1910 and 1926 regulatory training provided by Orion includes: OSHA Voluntary Compliance Program 10 and 30-Hour Courses for General Industry and Construction, Lockout/Tagout, Lead, Electrical Safety (both for "qualified" person and "affected" person), Bloodborne Pathogens, Lab Safety, Forklift (including revisions to the current standard), Respiratory Protection Training and Fit Testing (both quantitative and qualitative), Fall Protection and Fall Arrest Systems, and Trenching/Excavations.

Orion also provides Behavior Based Safety training for management, steering teams, and employees. Our approach allows participants to gain valuable insight for improving safety performance through behavioral interventions and leadership strategies.

In response to recent business trends, Orion has developed an alternative, low-cost staffing solution for facilities that require additional staff without the burden of adding a full time position. Depending on our client's needs, we have the capability of staffing an occupational health or safety position on a part or full-time temporary basis. One of our highly qualified personnel, supported by our senior and administrative staff, can be utilized for in-house projects where on-site assistance is required.

Orion offers a full range of safety and industrial hygiene services, including exposure assessments, and program development and evaluation. Our experienced staff of degreed and credentialed professionals provides a variety of high-quality, cost-effective services to a diverse industrial, commercial, and governmental clientele.

We provide:

- Regulatory Compliance Management and Workplace Program Development
- Industrial Hygiene
- Asbestos and Lead Hazard Services
- Indoor Air Quality
- Environmental Assessments and Project Management
- Pollution Prevention
- Environmental Compliance and Compliance Documentation





## State Office Buildings 5,6, & 7



**LOCATION:**  
Charleston, WV

**COMPLETION:**  
On-Going

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



More than forty (40) years ago, ZMM (as Zando, Martin, and Milstead) designed the original State Office Buildings 5, 6, & 7. Over the last several years, ZMM has been assisting the State of West Virginia General Services with various improvements to the buildings. These improvements have ranged from substantial renovations to maintenance and repair type projects, and include:

### **Roof Replacement**

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

### **Electrical Courtyard Improvements**

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

### **Door and Window Replacement**

ZMM has assisted with two separate projects, one to replace the windows in Buildings 5 & 6, and the second to replace the doors at the entries to Buildings 5, 6, & 7. These projects included building envelope and security considerations. The projects were designed and staged to minimize disturbance to the buildings occupants.



## State Office Buildings 5,6, & 7

### Major Renovations

ZMM provided design services for the renovation of the 10th Floor of Building 5 for the Office of Technology - a project that was recognized with a design award from the West Virginia Chapter of the American Institute of Architects. The project focused on demonstrating the potential that exists in State Office Buildings 5 & 6 if the floors are renovated in a more contemporary manner that moves the open office spaces to the perimeter, and pulls the offices adjacent to the building core. The project also involved close coordination with the State Fire Marshal, the introduction of a new sprinkler service and fire pump into the building, demolition, construction management, and hazardous material abatement. The project was delivered considerably under the anticipated project budget. ZMM has also assisted on renovations to the 8th Floor of Building 6 for the Department of Education and the 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> Floors of Building 6 for the Department of Education and Division of Personnel. Work on the 8<sup>th</sup> Floor of Building 6 is the only additional renovation constructed to date. ZMM has recently been released to provide design services for Floor 7, 8 & 9 of Building 5 and the 7<sup>th</sup> Floor of Building 6.

### Caulk Replacement

ZMM provided design services to remove and replace all of the caulk located between the limestone and precast panels on the exterior of Buildings 5, 6, & 7. The project also included cleaning of the building's exterior along with some repair work. The project was coordinated with the Capitol Building Commission, although to date, the construction for this improvement has not commenced.

### Valve Replacement

ZMM assisted with a valve replacement project to isolate mechanical risers in Building 5 & 6. This technically intensive mechanical project will give the General Services Division greater control over the system, and will help isolate various risers in the event of significant system failures in the future.

## State Office Building #5, 10th Floor

### Office of Technology



LOCATION:  
Charleston, WV

SIZE:  
22,000SF

COST:  
\$3.7M

COMPLETION:  
2010

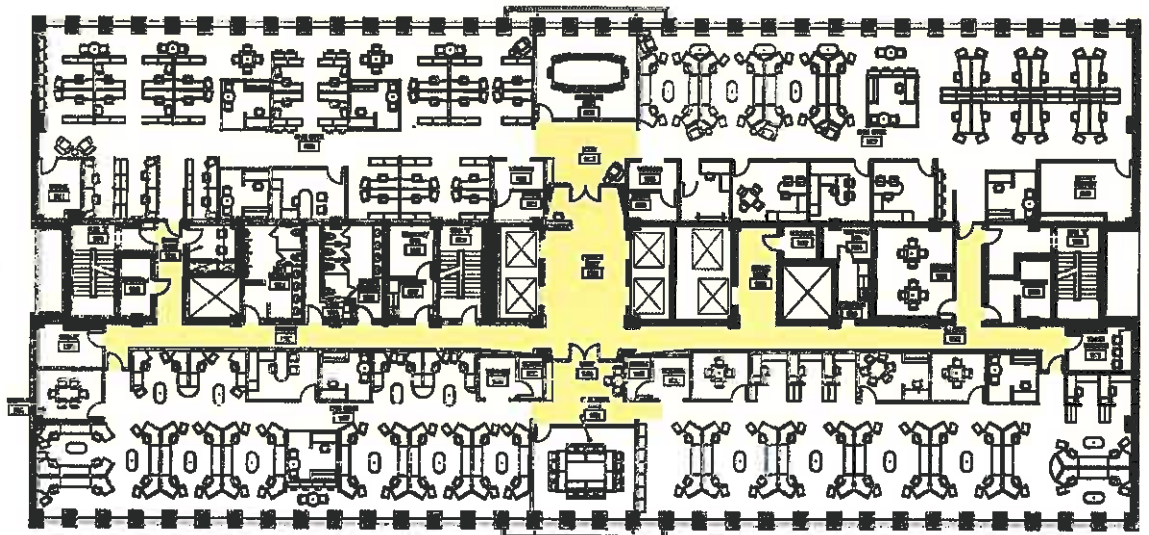
CONTACT:  
Ross Taylor  
Cabinet Secretary  
Department of Admin.  
Building 1, Room E119  
Charleston, WV 25305  
304.558.4331

AWARD:  
2011 AIA Merit Award  
West Virginia Chapter  
*Achievement in  
Architecture Interiors*



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. To commence the project, ZMM conducted a detailed investigation of State Office Buildings 5, 6, & 7, which included recommendations for improvement of the facilities. The renovation of the 10<sup>th</sup> floor of Building #5 was the first major interior renovation project that responded to the recommendations. The renovation was technically intensive, and included demolition of the existing construction back to the building structure, as well as significant hazardous material abatement.

ZMM, working with the State of West Virginia General Services Division, the Real Estate Division, and the Office of Technology developed a strategy to renovate 22,000 SF of space to accommodate 137 employees. The design includes a mix of private and open office space, and responds to current workplace trends. The renovations include a low profile cable management system which maximizes the flexibility of the space. ZMM also developed the interior, furniture, fixture, and equipment design with significant coordination with the Office of Technology.



## State Office Building #5, 10th Floor



To improve the opportunity for daylighting, office spaces have been “pulled-in” to the core of the building. This decision will allow for daylight to be introduced deep into the interior work areas, and will allow access to the daylight and views for all employees. The perimeter structural bays of the open office areas have a “coffered” ceiling. Ductwork for mechanical distribution is terminated at a bulkhead at the interior edge of the perimeter structural bay, allowing for more open volume and a more contemporary aesthetic.

The design of the 10<sup>th</sup> floor renovation also provided the opportunity to introduce a standard “transverse” core will be developed throughout State Office Buildings 5 & 6. The transverse core includes all of the major entry, meeting, and workroom functions. In addition to the office areas, the elevator lobby has been updated to create a consistent look and level of finish at the entry point to the Office of Technology.





# WV State Capitol Roof Replacement



LOCATION:  
Charleston, WV

COMPLETION:  
TBA



The West Virginia State Capitol Building was constructed in 1924-1932 and is listed on the National Register. The scope of work includes replacement of the roof on connectors and roofs above as well as the base of the dome. This project started with an in-depth study of existing drawings and site conditions and a site visit to the Capitol to ascertain the actions necessary to provide the new roof system.

The investigation included:

- Review all Roofing Components for Integrity/Ability to Control Moisture Collection/Removal
- Conduct Destructive Testing (Multiple Roofing/Flashing Systems?)
- Hazardous Material Testing of Components (Paint, Mastic, Insulation, Caulking)
- Review all Points of Roof Access: Walkways, Walkway Pads, Stairs
- Work with GSD to Develop Recommendations for the Roofing System
- Consider Building Envelope Performance/Insulation Requirements

All the roof system components will need to be reviewed for their integrity and ability to control moisture collection and removal from the building's roof. The components that are to be reviewed will include parapet walls, railings, wall conditions, colonnades, roof penetrations, roof drains, roof equipment, and walking surfaces. Investigative holes will need to be cut into the existing membrane to identify conditions of insulation, roof deck and any remains of former roofing materials and flashing systems. Test of roofing materials will need to be made for any possible hazardous materials. Our ability to provide comprehensive design solutions will be advantageous as it relates to mechanical equipment curbs and structural supports.

A report will be prepared and presented showing findings and recommendations from the investigation of all the roof conditions. The report will include recommended option for the roof membrane material, discussion of repairs to roof components, as well as any required repairs to the roof deck. Also included in the report will be a preliminary cost estimate including cost differences for each proposed option. ZMM will provide construction observation services and will work with the owner's representative during the construction process. We will be responsible for reviewing all shop drawings and questions that occur during the project. ZMM will also participate in all progress meetings and make site visits on a regular basis. ZMM will remain available to assist the state throughout the warranty phase of the project.



# Charleston Civic Center Expansion and Renovation



**LOCATION:**  
Charleston, WV

**SIZE:**  
283,000 SF

**COMPLETION:**  
Est. 2018

**COST:**  
\$75M

**CONTACT:**  
Mr. David Molgaard  
City Manager  
City of Charleston  
501 Virginia Street, E.  
Room 101  
Charleston, WV 25301  
304.348.8014



The Charleston Civic Center Expansion and Renovation is a transformational project for both the city of Charleston and West Virginia. Our team is building on the strong authentic character of Charleston to remake the Charleston Civic Center into a more efficient, more sustainable, more dynamic and a more iconic best-in-class destination.

The design of the expansion and renovation of the Charleston Civic Center is 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, 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.

Our design starts 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 flatland the river provided –creating nodes of activities among the hills and valleys.





# Charleston Civic Center Expansion and Renovation



The renovated Civic Center is a building that emerges from this iconic landscape, with the architecture and topography working together. The Civic Center will also have distinct active nodes to celebrate each activity; arena, convention, and banquet, and 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 is to create separate entries and identities for the arena and convention center. This will allow for simultaneous events and clarity of use. For the convention center to thrive, it needs a real ballroom assembly space. Located overlooking the Elk River, the new ballroom pre-function space will be the most dramatic feature of the center. Together, the three glass enclosed nodes —arena lobby, convention lobby, 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 are designed to be expressive and economical backdrops to the glass boxed nodes.

While the expansion will transform the southeast to the middle of the northern zone of the site, the existing building mass will still dominate a portion of the northern and eastern campus. The dominant expression along these existing facades is the landscaped berms. As we imagined the new 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 new concourse level windows will open up the facade and provide a much needed break in the massing. The upper part of the arena will be 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 will then transform the look and feel of the center into a fun and festive landmark.



# Joint Interagency Training & Education Center

WVARNG



LOCATION:  
Kingwood, WV

SIZE:  
285,000 SF

COMPLETION:  
2013

COST:  
\$78.4M

OWNER:  
MAJ Dan Clevenger  
WVARNG  
1707 Coonskin Drive  
Charleston, WV 25311  
304.561.6446

AWARD:  
2011 AIA Honor Award  
West Virginia Chapter  
*Excellence in Architecture*



ZMM Architects and Engineers, in association with AECOM, is providing architectural and engineering design services for the Joint Interagency Training and Education Center (JITEC), an Army National Guard campus-style facility for training and operational mission support. Sited on 30 acres at the northern end of Camp Dawson between the Cheat River and the foot of Brier Mountain, this 283,000-SF project includes the design of a new operations building; expansion of the billeting facility; renovation of the training facility; creation of a new base entry checkpoint and visitor center; and design for walkway connectors between all the facilities.

The project began with a review of the existing base master plan, followed by a revision of the master plan concept. JITEC is a training and educational facility – the vision behind the site design and updated master plan is that of a college campus atmosphere. The clients goal was to create a campus environment that integrates existing buildings with new ones, which was accomplished by using compatible, yet distinct building materials.

The new facilities are designed to meet all anti-terrorism/force protection criteria and are slated for LEED-NC Gold Certification from the U.S. Green Building Council. The new 82,000-SF operations building is prominently sited as the main focal point upon entering Camp Dawson through the secure access control point and visitor's center, also designed by AECOM. The building's exterior complements its West Virginia setting. The entire building front, composed of glass and pre-cast concrete walls, is open and inviting with glazing that reflects the surrounding trees and hills.



# Joint Interagency Training & Education Center



Security requirements for the command center influenced the design of the attached, copper-clad "black box" that is an homage to the native rock stratification seen throughout the state.

The building consists of four distinct areas: the Joint Operations Center; a suite of secure training rooms; base headquarters and JITEC administrative offices; and a 6,000 SF server and telecommunications room.

Entry to the Joint Operations Center (JOC) is provided by a secure mantrap adjacent to a dedicated security office. Built to SCIF standards, the JOC contains a state of the art command center housing 48 permanent work stations in a theater-style configuration facing a large video wall, flanked by conference rooms and offices for both officers and support staff. Within the JOC is a secure area consisting of workstations, offices, and two divisible conference rooms with secure video conferencing capabilities. The secure area construction dictates a windowless environment, requiring proper lighting and creative use of materials to create an agreeable work atmosphere.

The 180,000-SF billeting (hotel) expansion more than triples the facility size and increases the total capacity from 189 guest rooms to 600 guest rooms and suites. Designed to relate to the existing architecture with similar scale, materials, textures, and massing, the addition also brings in new elements, such as iconic glazed building corner elements, to integrate the design of the new operations building. A new dedicated lobby with terrazzo tile flooring leads to a monumental stair with terrazzo treads, open risers, and a glass/stainless steel railing for access to the open lounge areas on the second and third floors.

The lobby's design provides a hotel atmosphere, underscored by the new Liberty Lounge, an upscale bar and restaurant area, with wood finishes salvaged from the gymnasium floor in the existing headquarters building. The new six "executive suites", are designed to the full amenities of corporate hotels.



# Girl Scouts of Black Diamond Council

## Volunteer Resource Center and Girl Zone/Urban Camp



LOCATION:  
Charleston, WV

SIZE:  
27,928 SF

COST:  
\$5M

COMPLETION:  
Fall 2013

CONTACT:  
Beth Casey, CEO  
GSBDC  
321 Virginia Street, W.  
Charleston, WV 25302  
304.345.7722

AWARDS:  
2014 AIA Merit Award  
West Virginia Chapter  
*Achievement in  
Architecture  
in Interiors/Graphics*



Interior Before Pictures



The New Girl Scouts of Black Diamond Council Volunteer Resource Center and Girl Zone/Urban Camp is located on the West Side of Charleston, WV. The 24,650 SF project completely renovates and upgrades the existing buildings at 321 Virginia Street. The buildings were built in the early and mid-1900's, and were used as a car dealership showroom and parts building until 2008. By the time the Girl Scouts took possession of the building, it had fallen into a state of disrepair. The facility required environmental remediation, and the entire roof structure was damaged and had to be removed.

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

The main building brings all of the operations of the Girl Scouts of Black Diamond Council together under one roof and on one level. This building includes a volunteer meeting room, employee office space, flexible conference spaces, and a retail shop. The Virginia Street façade of the existing facility was removed, and more contemporary elements are utilized to speak to each of the functions. The Girl Zone/Urban Camp reflects a more residential/outdoor tone with the use of a wood veneer, while the retail store has floor to ceiling storefront.



The storefront is etched with images of girl scouts and scouting slogans. The storefront is backlit in the evening, allowing the entire façade to reflect the function of the building. The entry is accentuated with a more vertical element and signage, giving hierarchy to the various elements, while the office areas are recessed from the corner with smaller openings, and a masonry veneer. Each zone has a unique identity.

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

With the mixed-use functions of retail, office, and residential, this unique project will be a vibrant addition to the emergent West Side community. The modern aesthetic of the facility will appeal to Girl Scouts and reflect the one of the Girl Scout's Journeys – "It's Your World – Change It!"



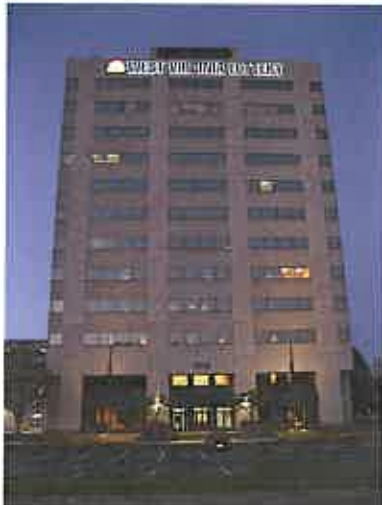
# West Virginia Lottery Headquarters

*Office Building and Parking Garage*



**LOCATION:**  
Charleston, WV

**CONTACT:**  
John Myers  
Cabinet Secretary for  
Administration  
900 Pennsylvania Ave  
Charleston, WV 25302  
304.558.0500



The project is an extensive renovation of an existing 13-story office building and 7-story parking garage in downtown Charleston, WV. The building is currently owned and operated by the WV Lottery but also houses many other state government agencies.

Major renovations within the office building consist of the demolition and renovation of three existing tenant floors, the relocation of the existing fitness center and replacement of the existing roof. The West Virginia Division of Insurance is being relocated from their existing, outdated office space to floors 7, 8 & 9. Off the newly renovated elevator lobbies on each floor is a reception area which leads to an interior space primarily constructed of enclosed offices to better suit current department requirements. To provide contiguous floor space for the Division of Insurance an existing tenant space on the 6<sup>th</sup> floor is being demolished and renovated into the new fitness center located across from the existing Café. Construction on the roof includes the removal and replacement of the existing roof insulation and membrane and the installation of new roof davits and stainless steel guardrail meeting current OSHA requirements.

The existing precast concrete parking deck will be undergoing a widespread renovation including structural repairs and restoration, major electrical upgrades and an addition to the existing storage warehouse. After vast investigative work it was determined that bearing pads need to be replaced under the existing concrete double-tee framing members, concrete structure and topping slabs needed repair and concrete spandrel panels required epoxy injection to repair extensive cracking. Horizontal driving surfaces are receiving new waterproofing, sealant joint replacement and restriping. The circulation connector between the office building and the parking deck is in structural repair also, requiring partial demolition and reconstruction of the existing steel deck and concrete floor slabs. Electrical improvements will consist of new LED lighting throughout and additional pole fixtures on the top level along with power and life-safety upgrades. The one-story storage warehouse located underneath the existing parking deck is being increased by approximately 1,800 sf. The addition will consist of masonry exterior walls clad in EIFS with a sloped steel-framed roof and single-ply membrane system.

# Wood County Justice Center



**LOCATION:**  
Parkersburg, WV

**SIZE:**  
32,000 SF

**COMPLETION:**  
2011

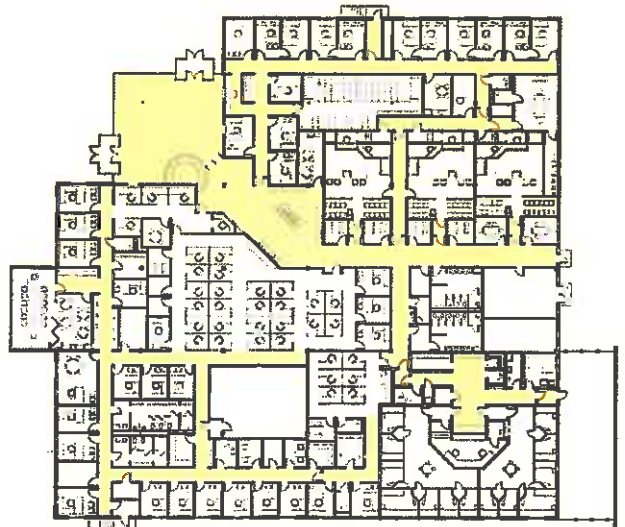
**PROJECT COST:**  
\$5M

**CONTACT:**  
Mr. Blair Couch  
Commissioner  
No. 1 Court Square  
Suite 205  
Parkersburg WV 26101  
304.424.1984  
dbc@woodcountywv.com



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

The renovated building consists of offices and 3 Courtrooms for the County's Magistrate Court system, public service windows for document pick-up and payment of fines, offices for the Sheriff's Department and Home Confinement and a 12-hour Inmate Holding Center.



Due to the building's new use, the interior was completely demolished leaving only the shell. The building's main entrance was relocated and redesigned to provide a new, more prominent identity to the building and to align with the new parking area created by the demolition of the adjacent existing magistrate court building. The old HVAC system was removed and replaced with a more energy efficient system and new, energy efficient lighting was installed. The project was designed around the U.S. Green Building Council's New Construction and Major Renovation Guidelines and is LEED Silver Certified.



# Construction & Facilities Management Office

WVARNG



LOCATION:  
Charleston, WV

SIZE:  
19,935 SF

COST:  
\$3.5M

COMPLETION:  
2008

CONTACT:  
MAJ Dan Clevenger  
WVARNG  
1707 Coonskin Drive  
Charleston, WV 25311  
304.561.6539

AWARD:  
2009 AIA Merit Award,  
West Virginia Chapter,  
*Achievement in Architecture*



The Construction and Facilities Management Office (CFMO) Expansion project will bring all of the operations of the CFMO together under one roof. The branches that will occupy this facility include: Director of Engineering, Environmental, Planning and Programming, Facility Operations & Maintenance, Business Management, Resource Management, and Design and Construction. This new facility 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.



This transitional space was designed to connect the two structures, 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 large expanses of glazing located to capture indirect light and views of Coonskin Park.



# Christ Church United Methodist

## Educational Wing / Choir Rehearsal Renovation



**LOCATION:**  
Charleston, WV

**COST:**  
\$4M

**COMPLETION:**  
April 2013

**CONTACT:**  
Rev. David Donathan,  
Minister of Music & Arts  
And Organist  
1221 Quarrier Street  
Charleston, WV 25301  
304.342.0192 Ext. 210

**AWARDS:**  
2016 AIA Merit Award  
West Virginia Chapter  
Achievement in  
Architecture in Interior  
Design



The education wing at historic Christ Church United Methodist was in need of modernization, both in infrastructure and aesthetics. ZMM's interdisciplinary team succeeded in meeting the challenges of creating the owner-requested "wow factor" in an existing building, and in coordinating construction that was phased while the building was continuously open to the public. ZMM coordinated asbestos abatement, multiple prime contracts and the owner's direct-pay items. Infrastructure design work included window replacement, new elevator, new variable refrigerant system and rooftop mechanical unit to serve the gymnasium, electrical panel and receptacle upgrades, emergency lighting and fire alarm systems.

The interior design reflects the church's various functions within the education wing, which include a daycare, classrooms, music and choir facilities, special teens area, and high quality decorative lighting in the Narthex. "The Growing Place" daycare features an expanded corridor with a winding path leading to each classroom. The classrooms are cheerful yet modern and functional, and there is a new kitchen and gathering space for parents and Sunday morning visitors. The expanded music and choir rooms were inspired by salvaged stained glass windows and provide higher levels of acoustics and storage. The lower level teen area, also known as the Wolfe-Omega Room, features hip, bright colors, kitchen, and special worship area.





**LOCATION:**  
Charleston, WV

**SIZE:**  
10,200 SF

**COMPLETION:**  
2015

**COST:**  
\$960,000

**CONTACT:**  
Cheri Bever, President  
Goodwill Industries  
215 Virginia Street, W.  
Charleston, WV 25302  
304.346.0811

## Goodwill Prosperity Center

*Historic Renovation*



Goodwill's newly renovated Prosperity Center is located on Virginia Street (West) in Charleston. This facility will help prepare members of the community for the workforce, and will expand Goodwill's outreach opportunities. Inside the facility is several classrooms, a computer room, and a Career Center that is equipped with all the tools needed to prepare and apply for a job. A spacious and colorful lobby provides a relaxed atmosphere for visitors. Inside the center is a "Suited for Success" room where work-appropriate clothing will be available to those who need it.

The building, which was once the Charleston Transit Authority's bus garage, underwent a major exterior transformation. Layers of stucco were removed to open up the old garage bays, and glass was infilled into these openings to give the center a tremendous amount of natural light. The original brick was exposed, repointed, and painted. The improvements made to the exterior showcase the historic nature of the building while upholding the modern amenities needed for today.

# Charleston EDGE Complex



**LOCATION:**  
Charleston, WV

**SIZE:**  
41,250 SF

**COMPLETION:**  
TBD

**COST:**  
\$10M

**CONTACT:**  
Mr. David Molgaard  
City Manager  
City of Charleston  
501 Virginia Street, E.  
Room 101  
Charleston, WV 25301  
304.348.8014

**AWARD:**  
2018 AIA Citation Award  
West Virginia Chapter  
Unbuilt Project



How does West Virginia attract and retain young talent? How do we keep our children and grandchildren in the State when the opportunities for them seem to be so much brighter in other areas? How do we stop the brain drain as our best and our brightest young professionals relocate to DC, Charlotte, and other urban areas? These questions have plagued West Virginians for years, and the proposed Charleston EDGE Complex will be one piece of the solution.

The proposed Charleston EDGE mixed use facility is unlike a traditional mixed-use development. While the facility may contain 30-40 residential units, with program space, and retail on the first level, the real purpose of EDGE is to provide a facility that will serve to provide housing and activity space for an innovative program that aims to attract and retain young talent to the Charleston community. EDGE will help to cultivate the young talent that participates in the program, and will serve as a sustainable economic development tool in our urban village district.

ZMM Architects and Engineers in association with Cooper Carry is currently assisting in the design and development of the Charleston EDGE Complex. The ZMM-Cooper Carry team conducted a visioning and design session where the design team obtained input from various community leaders and young professionals to investigate scenarios to optimize the potential development.



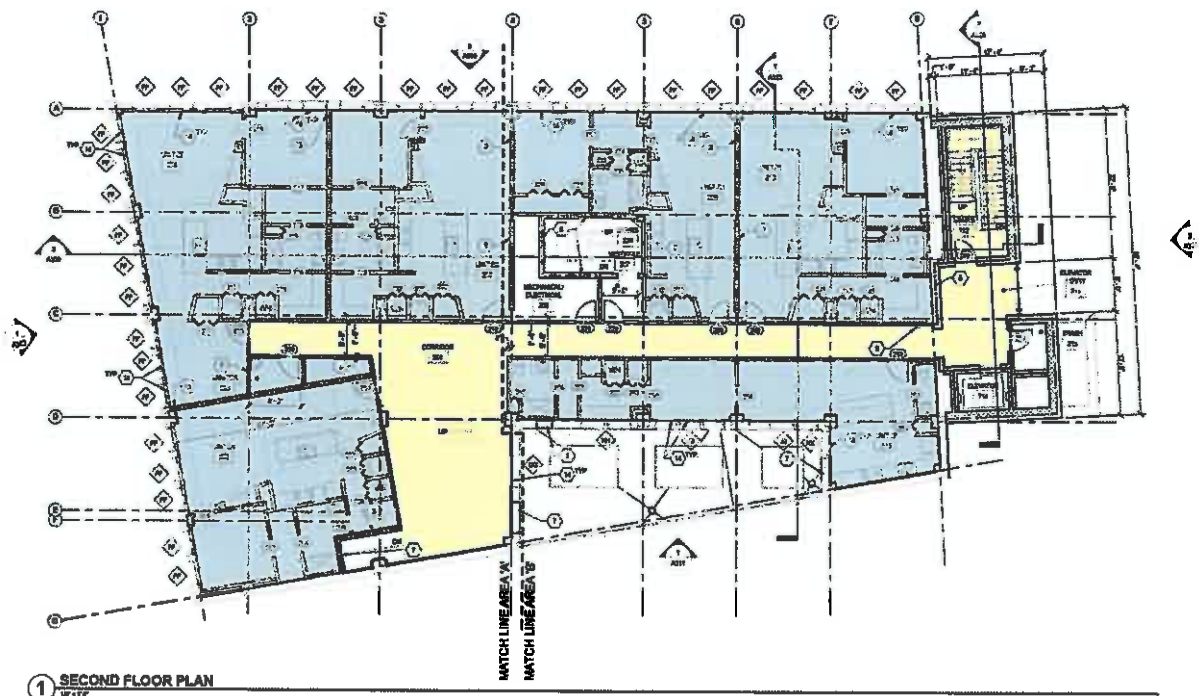


# Charleston EDGE Complex



Following these meetings, ZMM has been developing several of the strategies to facilitate decision making by the project stakeholders. The current design solutions include a retail, lobby, and surface parking pedestal, with a variety of unit types occupying the upper levels.

The pedestal creates the opportunity for a raised amenity deck, with an adjacent club room and activity spaces. The advancements that Charleston has made to develop a vibrant downtown, create an active arts community, and engage young talent through organizations like Leadership Kanawha Valley and Generation Charleston have paid dividends for the business community – and Charleston EDGE is the next step in facilitating a bright future for the Charleston area.





# West Virginia Housing Development Fund



**LOCATION:**  
Charleston, WV

**SIZE:**  
36,000 SF

**COST:**  
\$8.5M

**COMPLETION:**  
2011

**CONTACT:**  
Nancy Parsons,  
Senior Director  
5710 MacCorkle Ave, SE  
Charleston, WV 25304  
304.345.6475

**AWARD:**  
2012 AIA Honor Award  
West Virginia Chapter  
*Excellence in Architecture*



New offices for the West Virginia Housing Development Fund (WVHDF) were developed in the Kanawha City neighborhood of Charleston on a former Brownfield site. The new building sits on two acres and houses private offices and open offices for over 100 employees, an educational training room for staff and clients, staff exercise room, executive library, and boardroom.



The result is a unique contemporary design that differentiates itself from other office buildings in the neighborhood. Glass and insulated metal panels surround three sides of the building in a subtle checkerboard pattern. Red brick grounds the educational side in tradition, yet the alternating pattern adds another subtle, modern touch.

The signature entry is defined by the two-story white brick wall projecting from the primary building envelope. The lobby on the first floor and the executive director's office on the second floor are the focal points of a common corridor housing an elevator, restrooms and mechanical/electrical spaces. The interior color scheme is based on a light gray and white background. Punctures of color enhance the employees break room and accent the entrance to the executive office area.

A primary goal of the new building was to create light, bright and easily accessible spaces. Private offices are located in the center spine along the length of the building. Glass office fronts and glass doors offer in daylight from exterior glazing. The combination of glass panels and sliding doors marries employee's needs for daylight and visual privacy. A high ceiling in the open office area maximizes daylight, while sunshades on the exterior control it. The interior lighting has solar sensors and automatically dims according to the natural light levels.

The result of the attention to detail is a mitigated Brownfield site that allows for plenty employee parking spaces, plus easy access for clients; an energy efficient and day light-flooded building that has increased staff well being; a clean, sophisticated design both outside and inside; and a modern addition to the city streetscape.



## 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 Civic Center, Charleston, WV

Mr. Krason is serving 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

### 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

collaboration with tvsdesign and BBL Carlton. Mr. Krason is 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 is scheduled for completion in 2018.

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

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

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

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

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

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

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

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

**Edgewood Elementary School, Charleston, WV**

Mr. Krason was the project manager on the new Kanawha County Elementary School on Charleston's West Side. The school is being designed as a 21<sup>st</sup> Century Learning Environment, with a focus on integrating technology into the delivery of the curriculum. Instructional areas will be located off of an open 'exploratorium' that is being designed to function like a children's museum, providing a variety of learning opportunities, and flexible educational spaces. The school will also visibly integrate sustainable design principles to serve as a teaching tool for the students. Mr. Krason worked with students from Watts and Robbins Elementary Schools in Kanawha County, assisting them in an effort to actively participate in the design process

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

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

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

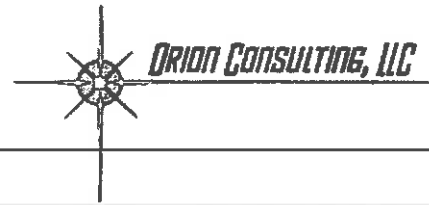
2015 WV AIA Merit Award Edgewood Elementary School, Charleston, WV

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

2011 AIA Honor Award State Office Building #5, 10<sup>th</sup> Floor Renovation, Charleston, WV

2009 AIA Merit Award WVARNG Construction and Facilities Management Office, Charleston, WV



## **Todd R. Schwarz**

### **Role**

Director Environmental, Safety, & Health Services

Todd has over 30 years of experience in occupational safety and health, with an emphasis in evaluations for chemical, biological, and physical exposures, hazardous waste compliance, environmental site assessments, and technical management for regulatory conformity. As Director, Mr. Schwarz develops and manages business with private, commercial, and governmental clients providing direct field support, and employee training services to regional customers.

### **Additional Training and Education**

Asbestos Inspector, Management Planner, Project Designer, Air Monitoring Technician, NIOSH 582 Training - "Sampling and Evaluating Airborne Asbestos", Lead Supervisor, MSHA Dust Sampling Certification, HazWoper Site Supervisor, Authorized Instructor for OSHA Voluntary Compliance Course for Construction, Confined Space Entry Supervisor, ATV Safety Institute Authorized Instructor for Rider Safety Course.

### **Select Presentations**

"Innovative Applications of Industrial Hygiene: Removal of X-Ray Shielding During Demolition," Presented to the American Industrial Hygiene Conference & Exposition, May 1993.

"Environmental Issues in Lead," Presented to Seventieth Annual Meeting of the West Virginia Public Health Association, September 1994.

"Conducting A Successful Industrial Hygiene Evaluation," Presented to the 13th Annual Marshall University Safety Conference, April 1995.

"Construction Safety and OSHA Issues," Presented to the West Virginia Oil and Natural Gas Association's Technical Seminar, June 1996.

"Industrial Hygiene for the Construction Safety Professional," Coordinator/Presenter for the Sixth Annual West Virginia Regional Construction Safety and Health Conference, March 1998.

"OSHA's Revised Respiratory Protection Standard," Presented to the Allegany County (MD) Local Emergency Planning Council, May, 1998

### **Education**

Marshall University  
Post Graduate Studies  
Occupational Safety Management  
MS Marshall University  
Occupational Safety & Health  
BA Marshall University  
Education

### **Civic Affiliations**

- Adjunct Faculty and Advisory Board Member, Marshall University
- American Industrial Hygiene Association
- Mountaineer Chapter, American Industrial Hygiene Association (Past President)
- Appalachian Construction Users Council (Safety Committee)



## Robert Doeffinger, PE



### Role

Engineering Principal

### Professional Registrations

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

As ZMM's Principal Engineer, Mr. Doeffinger is in charge of the engineering disciplines, it is his responsibility to ensure that the mechanical and electrical engineering components of ZMM's design are coordinated and integrated into the final product.

After graduate school in Architectural Engineering, Mr. Doeffinger joined ZMM. He has over 35 years design experience in mechanical and electrical systems for buildings. He has a broad range of engineering experience in education, industrial and manufacturing facilities, large retail, correctional and jails, office buildings, and military facilities.

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

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

### Project Experience

#### Charleston Civic Center, Charleston, WV

Mr. Doeffinger is the mechanical project engineer on the expansion and renovation to the Charleston Civic Center project. The \$75M, 283,000 SF design-build project is being completed as a collaboration with tvsdesign and BBL Carlton. The design commenced in the spring of 2015, and construction is scheduled for completion in 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 – 2<sup>nd</sup> Ward Councilman for 20 years

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

**West Virginia Capitol Complex - Buildings #5, 6, & 7, Charleston, WV** Mr. Doeffinger was the Project Engineer for the in-depth analysis of Buildings #5, 6, & 7 at the State Capitol Campus. The study included the preparation of as-built plans, as well as an analysis of all building systems, including: Life Safety; Vertical Transportation; Mechanical; Electrical; Data; Façade; Structure; and Roofing. The analysis also included a study related to potential hazardous materials in the facility.

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

**West Virginia Army National Guard, Joint Interagency Training & Education Center, Camp Dawson, WV** Mr. Doeffinger was responsible for the mechanical engineering design of the 600 room billeting expansion to the Regional Training Institute at Camp Dawson. The project is served by a 4 - pipe hot and chilled water system with an energy recovery ventilation system. This project received LEED Gold Certification.

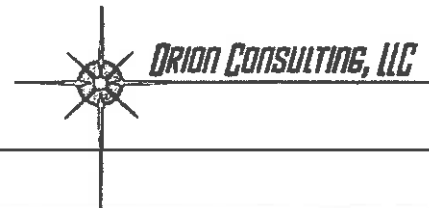
**West Virginia Research, Education, and Technology – Building 704, South Charleston WV** Mr. Doeffinger is the engineering principal-in-charge of preparing a life safety analysis of the building as well as design services to improve the exterior façade of Building 704 at the WV Research, Education,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

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

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

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

**The Plaza at King of Prussia, 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.



## **Daniel O. Chute, CIH, CSP**

### **Role**

Certified Industrial Hygienist and Safety Professional

Mr. Chute is a senior industrial hygienist and safety professional with more than 30 years of environmental, safety and health (ES&H) experience. He provides technical direction to staff on environmental health, safety, and industrial hygiene projects for private and public sector clients, and personally conducts on-site work. He has managed nationwide, multi-year contracts for public sector clients and industrial clients, including GSA, VA Medical Centers, United States Navy and ExxonMobil, requiring the efforts of multi-disciplined teams of professionals. He has provided sampling and analytical support, data interpretation, subject matter expertise, and recommendations for mitigating hazards on issues related to indoor air quality, microbial contamination, drinking water quality, asbestos management programs, confined space entry programs, and PCB contamination. He provides on-going ES&H consulting and expert advice to Fortune 500 companies in the facilities management, research and development, manufacturing, and construction industries.

### **Additional Training and Education**

Certified Industrial Hygienist, American Board of Industrial Hygiene

Certified Safety Professional, Board of Certified Safety Professionals

Registered Environmental Assessor, State of California

Asbestos Licensure: Inspector, Management Planner, Project Designer,

Project Monitor (Virginia, Maryland, North Carolina, West Virginia)

EPA Lead Accreditation - Project Supervisor, Inspector, Risk Assessor

### **Education**

M S , Industrial Hygiene, Texas A&M University

B S , Environmental Health, Old Dominion University

### **Civic Affiliations**

- American Industrial Hygiene Association:

President, Potomac Section, 1993-94

Professional Development Conference Chairman, 1991

Chairman, Lead Task Force, 1993-95

Co-Chairman, Maryland IH Council, 1991-92

PDC Instructor, 1992 AIHCE, Boston, MA

Program Presenter, 1992 Lead Paint Symposium

Tellers Committee, 1996 to Present  
Instructor, Professional Development Programs, 1996 to Present

## Samuel Butzer, PE, LEED AP BD+C



### Role

Mechanical Project Engineer

### Professional Registrations

Professional Engineer (WV, WI, IL)

LEED Accredited Professional

Mr. Butzer is a registered Professional Engineer with design experience in HVAC, Piping (Mechanical, Industrial, Laboratory, Medical Gas), Fire Protection and Plumbing systems. He has been responsible for an extensive range of projects that include Hospitals, Civic Complexes, Laboratories, Medical and Dental Office Buildings, Retail, Military Installations, Churches, Restaurants, K-12 Schools, Higher Education Facilities, Pharmaceutical Manufacturing, Natatoriums and Historical Renovations.

Mr. Butzer began his career in engineering with a mechanical contractor located in Wisconsin. His collective engineering experience includes projects that were design-build, design-assist and plan & spec. His background in engineering and 3D BIM design and coordination has provided him with extensive experience in the "real world" of HVAC and piping constructability. That experience has forged him into a leader at the integration of all construction disciplines into a multitude of building types and space constraints.

Mr. Butzer's dedication to the community and his civic affiliations demonstrates a strong connection to the engineering principles of energy efficiency, sustainability, occupant comfort and health.

### Project Experience

#### **Harrisville Elementary School, Harrisville, WV**

Mr. Butzer was responsible for designing the HVAC systems for the renovation and additions to the elementary school. Initial design development consisted of variable refrigerant flow (VRF) systems coupled with dedicated outdoor air (DOAS) systems for the Classrooms and Administration areas. Roof mounted air conditioning and exhaust equipment were provided for the new Cafeteria, Kitchen and existing Gymnasium. Budget and space constraints forced the design to evolve into individual, self-contained, interior air handling units for each Classroom. The units were able to meet ASHRAE 62.1 requirements for ventilation, the Acoustical Society of America's (ASA) requirement for sound, and every other standard such as individual classroom temperature and

### Education

Bachelor of Science, Mechanical Engineering, University of Wisconsin at Madison, 2007

Associate of Science, Madison Area Technical College, Madison, WI, 2004

### Employment History

2018 - Present, Board of Directors, ZMM  
2013 - Present, Project Engineer, ZMM  
2007 - 2013, Mechanical Engineer, WI  
2005 - 2007, Mechanical Engineer Intern, UW-Madison FP&M

### Civic Affiliations

- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), President of West Virginia State Chapter
- United States Green Building Council (USGBC), Board Member of West Virginia State Chapter
- Marshall University Engineering Advisory Board Member
- Kanawha City Community Association Board Member



dehumidification control as set forth by the School Building Authority (SBA).

**Charleston Civic Center, Charleston, WV**

Mr. Butzer is the Mechanical Project Engineer on the expansion and renovation to the Charleston Civic Center project. The \$75M, 283,000 SF design-build project is being completed as a collaboration with tvsdesign and BBL Carlton. The design commenced in the spring of 2015, and construction is scheduled for completion in 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.

**Appalachian Regional Hospital, Beckley, WV**

Mr. Butzer is the Mechanical Project Engineer currently working with the hospital on multiple renovations. The ICU and OR departments will undergo Mechanical and Architectural upgrades in a multiphase project while the hospital remains operational. The existing kitchen will receive a new make-up air unit, and fan coil units to improve pressure and air balance relationships within the hospital. A dedicated HVAC unit was provided for the endoscopy suite to improve thermal comfort and provide code-required ventilation, air-changes and humidity.

**Glenwood Elementary School, Princeton, WV**

Mr. Butzer was the Mechanical Project Engineer for this successful project that came in under budget, on-time and with zero change orders. The first phase was duct cleaning and sealing that improved indoor air quality and reduced system demand by 8 tons. The second phase was the HVAC improvements which replaced all existing constant volume, single compressor, multizone, air handling units (AHUs) with new variable speed, multi-compressor AHUs. VAV terminal units were installed to create separate zones for each classroom. A new building automation system was provided for system controls and to incorporate the facility into the existing county-wide controls network. All electric heating was abandoned to maximize use of the hot water heating system. Mechanical upgrades saved the school an estimated 18.5% in the electric usage and provided them with over \$13,000 in rebates from the electric utility.

**Nicholas County Courthouse, Summersville, WV**

The Nicholas County Courthouse is a Historic building constructed in 1898 with an addition executed by the Works Progress Administration in 1940. The courthouse was added to the U.S. National Register of Historic Places in 1991. Mr. Butzer led a project team responsible for upgrading an existing 2-pipe fan coil system into a 4-pipe system to provide simultaneous heating and cooling and meet the climate and comfort needs of specific occupants. A new 4-pipe system, variable speed pumps and 3-way valves were provided in the basement to achieve integration of the new system into the existing. Construction had to be phased to allow installation of the new heating loop while the existing system remained in cooling operation; the new cooling loop would be installed once the building switched over to the new heating loop. Welding and soldering were not allowed so materials such as PEX, pressure-seal copper and mechanical joint steel piping were specified. A new Building Automation System with most of the communication occurring wirelessly was chosen to minimize disturbances to the historical architecture of the building.

**Gestamp West Virginia, South Charleston, WV**

Mr. Butzer led a design team that was tasked to provide a mechanical system to separate out, or divert hydraulic fluid collected along with chilled water released from immense, automobile component stamping machines. The design included an aboveground oil-water separator, density meters, 3-way valves, storage tanks and a controls system to monitor fluid flow and guarantee separation or storage of non-compliant sanitary discharges.

## 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.

### **Project Experience**

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.

#### **Fayette County Schools, PK-2 & New Collins Middle, Oak Hill, WV**

These schools were designed as separate schools sharing the same site and are connected by a mechanical wing. This building called for a challenging design concept. The schools each had their own unique design theme, but were delicately connected in small aspects of color or architectural techniques, allowing the interiors to flow seamlessly.

#### **Charleston Civic Center, Charleston, WV**

Mrs. Chapman is currently assisting 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 is scheduled for completion in 2018.

#### **ARH 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.

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

The new community center will be replacing an existing structure that was recently demolished earlier this year. The

### **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.

2003 - Present, Architect, Project Manager, ZMM

2010 - 2012, Interior Design Intern, ZMM

new building will house 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.

**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.

# Nathan Spencer, AIA



## Role

Architect

## Professional Registrations

Registered Architect (WV)

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

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

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

## Project Experience

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

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

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

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

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

Mr. Spencer was the architect on the new Logan-Mingo Readiness Center. The exterior aesthetic of the facility was driven by the location within an industrial park on a reclaimed surface mined site. The building layout was developed by

## Education

Bachelor of Architecture, University of Tennessee, 2007

## Employment History

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

## Civic Affiliations

- American Institute of Architects, Member



working closely with the end-users to determine the appropriate configuration of building spaces to maximize the efficiency of the operations, and to respond to the unique missions of the 150<sup>th</sup> Armored Reconnaissance Squadron and the 156<sup>th</sup> Military Police (LNO) Detachment. Clear separation of “public” and “private” areas within the facility, unique office configurations related to training requirements, and the addition of State Funded additional spaces.

**Jackson County AFRC, Millwood, WV**

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

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

**Morgantown Readiness Center, Morgantown, WV**

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

**Edgewood Elementary School, Charleston, WV** Mr. Spencer participated on the design team that developed the new Kanawha County Elementary School on Charleston's West Side. The school was designed as a 21<sup>st</sup> Century Learning Environment, with a focus on integrating technology into the delivery of the curriculum. Instructional areas will be located off of an open 'exploratorium' that is being designed to function like a children's museum, providing a variety of learning opportunities, and flexible educational spaces. The school integrates sustainable design principles to serve as a teaching tool for the students. A dental and health clinic is also on site for all enrolled students in the Kanawha County School District.

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

**Highland Hospital, Charleston, WV**

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

**Additional Projects:**

Charleston Civic Center, Charleston, WV

Wayne High School, Wayne, WV

Crum PK-8 School, Crum, WV

Goodwill Industries, Charleston, WV

## Scot Casdorff, PE



### Role

Electrical Engineer

### Professional Registrations

Professional Engineer (WV)

Mr. Casdorff serves as an Electrical Engineer with ZMM providing electrical design services for a vast number of projects consisting of commercial, educational, correctional, institutional, and military facilities.

Mr. Casdorff is responsible for many facets of the project pertaining to electrical design such as interior and exterior lighting, power distribution, data system design, security, fire alarm, low voltage control systems, equipment specifications and performs electrical assessments during construction prior to the project's substantial completion date. Mr. Casdorff has participated on several LEED registered projects using energy conserving methods and utilizing lighting control systems and other means to meet or exceed ASHRAE 90.1, LEED, and energy code requirements.

### Project Experience

#### **Charleston Civic Center, Charleston, WV**

Mr. Casdorff is the electrical engineer on the expansion and renovation to the Charleston Civic Center project. The \$75M, 283,000 SF design-build project is being completed as a collaboration with tvsdesign and BBL Carlton. The design commenced in the spring of 2015, and construction is scheduled for completion in 2018.

**Southside Elementary and Huntington Middle School, Huntington, WV** Mr. Casdorff was the electrical engineer 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.

#### **Gauley River Elementary School, Craigsville, WV**

Mr. Casdorff was responsible for the electrical design of the new elementary school. The project is consolidating Beaver

### Education

Bachelor of Science, West Virginia  
Institute of Technology, 1995

### Employment History

2000 - Present, Electrical Engineer, ZMM  
1995 - 2000 Electrical Controls Systems  
Manager, WV Engineering Firm

Elementary School and Craigsville Elementary School into a new 375-student school. The school houses 3 Pre-Kindergartens, 3 Kindergartens, 2 first grade, 12 1<sup>st</sup>-5<sup>th</sup> grade classrooms, activity room, cafeteria, kitchen, media center, and administration spaces.

**Lincoln County High School, Hamlin, WV** Mr. Casdorph was responsible for the electrical power distribution throughout the 216,000 SF facility containing high school classes, vocational education, technical community college classes and a community health clinic. The project was a 2007 AIA Honor Award Winner.

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

**Fort Gay PK-8 School, Fort Gay, WV**

Mr. Casdorph was the electrical engineer and was responsible for the electrical power distribution and design. The New Fort Gay PK-8 School replaces the existing facility that has been in disrepair and lacking the spaces and technology delivery system required for 21<sup>st</sup> century learning skills. The total enrollment for the school is 603 Students. The new grade configuration separates the Elementary students from the Middle School students, but still allows use of the common spaces within the building. They share the Dining Room, Gymnasium, Media Center and a Stage.

**Southern WV Community & Technical College, Williamson WV** Mr. Casdorph was responsible for the electrical power and lighting distribution design of this 22,000 SF higher education facility. This project is being designed to meet the USGBC LEED Silver.

**Joint Interagency Education and Training Center (WVARNG), Kingwood, WV** Mr. Casdorph was responsible for the electrical design of the 180,000 SF 3-story billeting/hotel expansion for the Army National Guard campus style facility for training and operational mission support. The expansion more than triples the facility size and increases the total capacity from 189 guest rooms to 600 guest rooms and suites. This project reached LEED Gold Certification.

**West Virginia Research, Education, and Technology – Building 704, South Charleston, WV**

Mr. Casdorph is the electrical engineer for building 704 and responsible for electrical power and lighting distribution. Building 704 had previously been utilized as a campus maintenance facility by Union Carbide and DOW Chemical. Bridgemont began utilizing the facilities for instruction in the Spring of 2011.

**West Virginia Housing Development Fund Office, Charleston, WV** Mr. Casdorph was responsible for the electrical design of the 37,000 SF office building which provides natural daylighting into its interior spaces coupled with an automatic dimming system and motorized shade controls. This 2-story administrative facility houses approximately 95 to 100 employees with a flexible open office floor plan utilizing modular under-floor wiring to accommodate any future modifications of the workspace with minimal disruption to the employees. The project is targeted for LEED Silver Certification.

**Jackson County Armed Forces Reserve Center, (WVARNG), Millwood, WV** Mr. Casdorph was responsible for the electrical design of the 76,000 SF single story military reserve center which serves both the West Virginia Army National Guard and the United States Army Reserves (USAR) units. The multi-use facility provides educational spaces for classrooms, distance learning, physical training and a weapons simulation center. The project is targeted for LEED Silver Certification.

**Glen Jean Armed Forces Reserve Center, (WVARNG), Glen Jean, WV** Mr. Casdorph was responsible for the electrical design of the 102,000 SF military training facility which houses the Armed Forces Reserve Center (AFRC), Military Entrance Processing Station (MEPS), and an Organizational Maintenance Shop (OMS). The AFRC contains the administrative and training space for the 77<sup>th</sup> Brigade Troop Command, the 1863<sup>rd</sup> Transportation Company, and the 150<sup>th</sup> Armored Regiment Company. The MEPS houses their administrative, medical, headquarters, testing and storage functions at the facility. A comprehensive 8,500 SF OMS vehicle maintenance shop provides space for six large service workbays for maintaining the military fleet.

## FaLena Perry



### Role

Construction Administrator

### Professional Registrations

EIT

Mrs. Perry describes her role with ZMM as Construction Administrator as an exciting and invigorating opportunity with new experiences every day. From varying jobsite conditions to the differing professionals she encounters on a daily basis, Mrs. Perry approaches construction administration with a fresh set of eyes and desire to help provide the best outcomes possible for each project.

Mrs. Perry has nearly six years experience working as a Structural Engineer with two of those being a Project Manager. Structural engineering experience includes projects ranging from everything including \$135M university buildings down to residential homes and even historic restoration projects. Project variety includes Educational (K-12 and university), Commercial, Military, Office, Justice (Courthouses, Justice Centers, Police Department and Correctional), Multi-Use Residential, Civic (WWTP), Healthcare (Health Departments), Fitness (Gyms), Religious, Historic Restoration and an Arena. These projects are spread over Kentucky, West Virginia and Ohio.

### Project Experience

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

Mrs. Perry is serving as Construction Administrator of the new Community Center building and renovation at Valley Park. The \$15M construction project includes a new community building, ball fields and a playground. Mrs. Perry is responsible for the administrative duties, performing on-site observations and tracking construction progress. Mrs. Perry collaborates with the client, design team and contractors to confirm that project guidelines are satisfactorily met. Substantial completion for the project is set for May of 2018.

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

Mrs. Perry is serving as Construction Administrator of the high school addition that will house the two-story Ravenswood Middle School making this the 20<sup>th</sup> facility in WV that will combine both high school and middle school students. This project is limited with available space as it is to fit into the existing high school footprint.

**Midland Trail High School, Fayetteville, WV** Mrs. Perry is serving as Construction Administrator of the six room high school addition that will include a STEM lab as well as other

### Education

Bachelor of Science, Civil Engineering,  
University of Kentucky, 2003

Masters of Science, Civil Engineering,  
University of Kentucky, 2005

### Employment History

2017 - Present, Construction

Administrator, ZMM

2009 - 2010, Design Engineer, Moment  
Engineers, Charleston, WV

2004 - 2008, Engineer, Project Manager,  
BFMJ Inc., Lexington, KY

2003 - 2004, Graduate Assistant,  
University of Kentucky College of  
Engineering

### Civic Affiliations

- Project Coordinator, Forrest Burdette UMC, Family Life Center
- Sunday School Teacher for Young Professionals
- Cub Scout Den Leader Pack 236



classrooms. The large space planned for the STEM lab will encourage hands-on exploration, learning, and technology integration. This addition will address the under utilization of Midland Trail as well as Anstead Middle.

#### **Project Experience Other Firms**

##### **University of Kentucky Biopharmacy Building, Lexington, KY**

Mrs. Perry worked as team member in the design the new \$134M College of Pharmacy Biopharmacy research building. The research facility builds on the state's initiative to address health challenges and disparities in KY. The building featured expansive auditorium style classrooms and a self-supporting stair, of which Mrs. Perry modeled and designed.

##### **Kentucky Transportation Cabinet, DOH, District Five Office Building, Louisville, KY**

Mrs. Perry acted as the Project Manager for this new office space for the Department of Highways. This project consisted of concrete and steel structural members. Mrs. Perry coordinated design efforts with a team of engineers, architects and the owner.

##### **Moses Residence, Huntington, WV**

Mrs. Perry was responsible for the structural design of the Moses Residence which includes ICF walls, timber, steel and concrete. This home is a zero net energy home and has platinum LEED certification.

## 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**

WVDNR Forks of Coal  
Milton PK School  
Midland Trail High School  
Valley Park Community Center  
Marshall County Readiness Center

### **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  
WVANG 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  
WVU Parkersburg Applied Technologies Center - 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)

# **Winfield H. Strock**

---

## **Role**

Construction Management/Estimator

## **Professional Registrations**

Licensed Contractor (V [REDACTED])

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.

## **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

### **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

## **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*

## References

David Molgaard, City Manager  
City of Charleston  
501 Virginia Street, E.  
Room 101  
Charleston, WV 25301  
304.348.8014

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

MAJ Dan Clevenger  
WVARNG  
1707 Coonskin Drive  
Charleston, WV 25311  
304.561.6539

John Myers, Cabinet Secretary for Administration  
WV Lottery Headquarters  
900 Pennsylvania Ave  
Charleston, WV 25302  
304.558.0500

Beth Casey, CEO  
GSBDC  
321 Virginia Street, W.  
Charleston, WV 25302  
304.345.7722

Nancy Parsons, Senior Director  
WV Housing Development Fund  
5710 MacCorkle Ave, SE  
Charleston, WV 25304  
304.345.6475