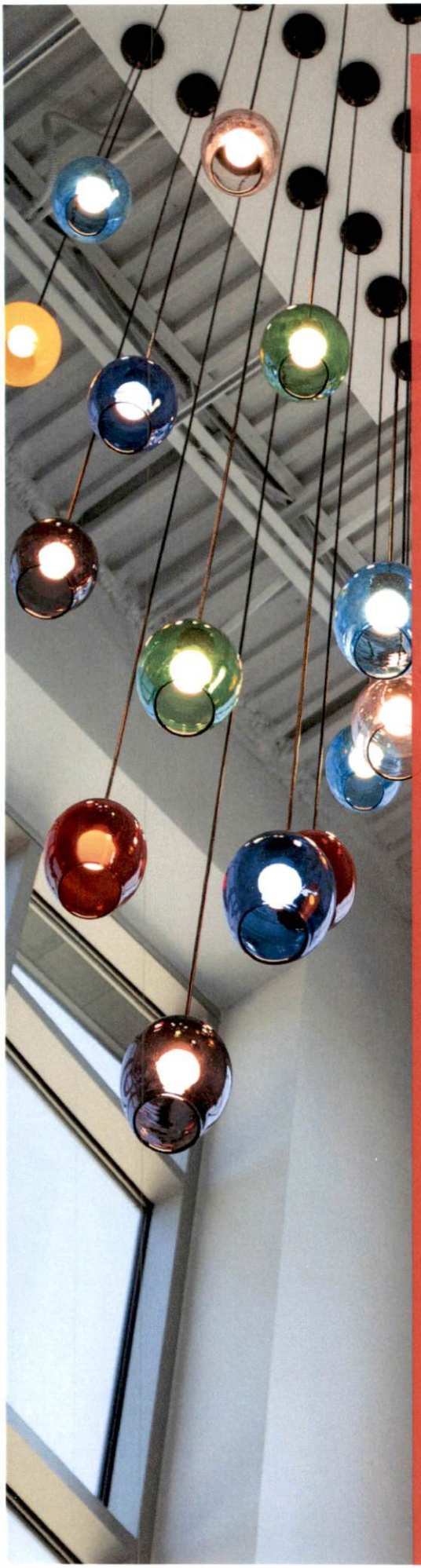

ZMM
ARCHITECTS
ENGINEERS

EXPRESSION OF INTEREST

To Provide Professional
Architecture/Engineering Services:

WEST VIRGINIA STATE UNIVERSITY

DAVIS HALL FINE ARTS CENTER VARIOUS RENOVATIONS

WSC2400000001
MARCH 5, 2024

ZMM.COM

March 5, 2024

Mr. Jerry Rush, Director of Purchasing
West Virginia State University
5000 Fairlawn Avenue
Ferrell Hall Room 301
Institute, WV 25112

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ENGINEERS

Subject: AEOI WSC2400000001 A&E Services – WVSU Davis Fine Arts Center

Dear Mr. Rush:

ZMM Architects and Engineers is pleased to submit the attached information to demonstrate our experience and our qualifications to provide Architectural and Engineering Services for the various renovations to be completed for the Davis Fine Arts Center. ZMM has a significant portfolio of higher education/CTEC experience. Both myself and the project architect, Chris Campbell, have worked with higher education systems across the state of West Virginia and Virginia. ZMM is set apart by offering an all-discipline firm that is all in-house, to consistently provide project planning and project delivery.

Established in 1959, ZMM is a fully integrated A/E firm, and is noted for design excellence and client focus. Our integrated design approach makes ZMM unique among organizations of our size, and our ability to provide comprehensive design services has made us a trusted resource for projects throughout West Virginia.

ZMM assisted West Virginia State University with a Campus Master Plan that included an assessment of the Davis Fine Arts Center. The scope of services outlined in the Request for Qualifications has defined the project to be a roof replacement, HVAC upgrade and chiller replacement, electrical upgrades, and to address and replace the current sprinkler system. The MEP portion of this project was part of the assessment and our team has a thorough understanding of the needs for the Fine Arts Center.

Please find information below and within our proposal regarding ZMM's relevant qualifications of the ZMM team that will lead to the successful implementation of your projects:

Experience
Our MEP engineers are industry leaders that are involved in helping to develop strategies and best practices for HVAC related design issues on both the local and national level. The architectural team has led higher education teams to provide the best solutions to their projects, be it assessing facility conditions and providing cost estimates and recommendations, renovations to the interior spaces to provide students with the best accommodations and state of the art resources to further their educational needs, to testing the original roof and providing a design from our in-house roofing designer.

Quality
ZMM has a history of providing high quality design services throughout West Virginia. The quality of the services we provide is demonstrated by the number of our repeat clients, and the recognition of our work with both statewide and national planning and design awards. In fact, ZMM has been recognized with twenty-four statewide design awards since 2005 by the West Virginia Chapter of the American Institute of Architects – recognition of a commitment to design quality that is unrivaled in West Virginia.

Schedule and Budget
Our team has a demonstrated history of delivering projects on schedule and within the owner's budgetary constraints. We accomplish this by helping to clearly define the scope, and then working as a team to develop affordable design solutions. ZMM also utilizes independent cost estimates to validate the anticipated construction cost. The construction market in recent years has seen significant increases despite every effort to have project bids be within the project limits. ZMM has a high success rate in seeing the projects impacted by inflation through to completion. ZMM works with the owner to review all aspects of a project and how best to move it forward.

Talent
With sixty-five employees, ZMM provides an integrated design approach by delivering all building related design services including architecture, engineering (structural, mechanical, electrical, plumbing, and civil), interior design, and construction administration in-house. Our architects, engineers, and designers are highly qualified, and have worked together to deliver projects with similar scope and complexity. Once a team is established for this project, it is the key team members you and the project(s) committee will be working with from start to finish.

Thank you for taking the time to review the attached request for proposal which includes information regarding the history, services, personnel, experience, and qualifications of ZMM Architects and Engineers. Additionally, please visit our website at zmm.com to see the full range of projects that we have designed, and to learn about working with ZMM from a client's perspective. We appreciate your consideration for your upcoming project and look forward to the opportunity to assist West Virginia State University with this endeavor.

Respectfully submitted,
ZMM Architects and Engineers

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

TABLE OF CONTENTS

STATEMENT OF QUALIFICATIONS

ZMM
ARCHITECTS
ENGINEERS

1.

FIRM PROFILE

ABOUT
ZMM ARCHITECTS & ENGINEERS

ZMM was founded in 1959 in Charleston, West Virginia by Ray Zando, Ken Martin, and Monty Milstead. Since the inception of the firm, ZMM has been dedicated to providing an integrated approach to building design for our clients.

ZMM delivers this integrated approach by providing all building related design services, including architecture, engineering (civil, structural, mechanical, and electrical), interior design, and construction administration with our in-house team. Our integrated design approach makes ZMM unique among architecture/engineering firms, and helps to ensure the quality of our design solutions by providing more thoroughly coordinated construction documents.

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

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

The original partners transferred ownership of the firm to Robert Doeffinger, PE and Steve Branner in 1986. Mr. Doeffinger and Mr. Branner helped guide and expand the firm to its present size of 35 people. Over the past 20 years David Ferguson, AIA, and Adam Krason, AIA, LEED-AP joined in ownership of the firm. In 2020, Randy Jones also joined in ownership of the firm when ZMM acquired Blacksburg-based OWPR Architects & Engineers to create a regional design firm that employs more than 60 highly-skilled professionals.

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

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ARCHITECTS
ENGINEERS

About ZMM Architects & Engineers (cont.)

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

ZMM's building-related design services include:

Pre-Design

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

Design

- Architectural Design
- Interior Design
- Lighting Design
- Sustainable Design
- Landscape Architecture

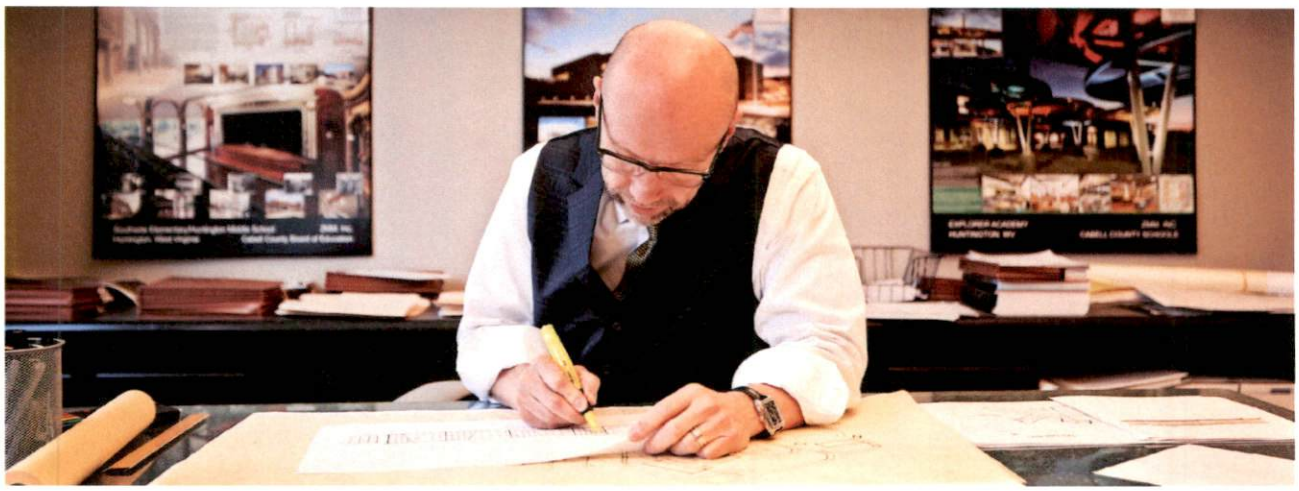
Engineering

- Civil Engineering
- Mechanical Engineering
- Energy Consumption Analysis
- Structural Engineering
- Electrical Engineering
- Net Zero Buildings

Post-Design

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

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



AWARD WINNING DESIGN

2020

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

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

2019

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

2018

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

2017

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

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

2016

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

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2.

PROJECT APPROACH

PROJECT APPROACH

WEST VIRGINIA STATE UNIVERSITY

PROJECT UNDERSTANDING

Based upon the scope of service outlined in WVSU's Request for Qualifications ZMM has outlined the following processes and approach for the West Virginia State University's project at Davis Fine Arts Center to assist with the roof replacement with a vulcanized roof system, complete HVAC upgrade which includes all necessary ceiling repairs and pipe, boiler, air handler, and chiller replacements, electrical upgrades, and replacement of current sprinkler system.

Davis Fine Arts is an academic building that houses the Art program. The one-story building was built in 1964, and has not undertaken a significant renovation since then. The building consists of 50,566 SF, of which includes approximately 17,200 of classroom space, 4,100 SF of office space, and a 5,200 SF theatre. There is 2,400 SF of theatre support spaces. Davis Fine Arts is located along the main pedestrian walk which borders the campus' green space.

PROJECT APPROACH

ZMM Architects and Engineers recommends the following approach to complete the project based on the goals and objectives outlined in the Request for Qualifications:

Prior to commencing the work on Davis Fine Arts Center project, ZMM requests that the WVSU create a committee composed of appropriate representatives that would advise the project in order of highest need(s) for the Fine Arts Center, these individuals would be the contacts and communication for the duration of the project. ZMM would also review the current Master Plan and the assessment performed by ZMM's team of the Davis Fine Art Center. The original assessment provides an overview of the MEP needs of the facility.

Commence the project with an onsite meeting with WVSU. Key items to be discussed during the meeting include:

- Review the Existing Conditions of each project
- Determine WVSOM's Requirements
- Gather Existing Documentation, Drawings, Existing Roof Warranties
- Review the Proposed Scope of Work
- Review the Project Budget and Schedule
- Review Project Constraints (Minimize Disruption)
- Discuss Control Strategies for the HVAC projects
- Discuss Energy Efficiency Objectives for the HVAC projects

PROJECT APPROACH (CONT.)

Following the on-site meeting(s), ZMM would commence the investigative phase of each project. The investigative work and research for the projects will ensure a cost-effective, well-designed solution that will help eliminate changes or other issues during the construction phase. The evaluation will include:

- Conduct an In-Depth Study of Any Existing Drawings and Site Conditions for the specific project
- Review the Structural Integrity of the existing supports for the HVAC natured projects
- Review the Adequacy of the Existing Electrical Distribution and Condition of Switch Gear, Feeders, etc. for specific projects
- Determine Lift Clearance of Existing Obstacles for the HVAC projects
- Consider Possible Crane Location for the HVAC projects
- Work with WVSU to Develop Recommendations for the HVAC and renovation projects.

Once the investigative effort is complete, ZMM will commence with the design effort. Drawings, specifications, and estimates will be submitted for review at the end of each design phase (schematic, design development, and construction documents). The ZMM team will also submit the drawings and specifications to all required regulatory agencies including the State Fire Marshal's Office for approval prior to the project going out to bid.

Once the documents have been approved, the ZMM team will assist with the bidding and construction phases of the project, including participation in a pre-bid meeting, developing any required addenda, responding to RFI's, reviewing submittals, and conducting and preparing minutes of construction progress meetings. Our efforts will continue through substantial and final completion inspections and include an eleven-month warranty walk through. Our goal throughout this process will be to act as part of your team, with the objective of ensuring the seamless delivery of the project for WVSU.

COMMUNICATION PROTOCOL

ZMM will utilize a traditional project manager-led communication strategy for project correspondence.

During the design phase Adam Krason, AIA will serve as the primary contact for the design team and will coordinate the work of our engineering team. Chris Campbell, AIA will serve as a major contact as well, attending the meeting as the Project Manager and being the face you see day-to-day. These key team members as well as all primary WVSU contacts would be included on all communication to facilitate an open discussion throughout the project – in a manner that allows WVSU to remain actively involved in all design decisions. All correspondence will be copied to this core group. As the project progresses regular bi-weekly meetings will be held to review the design progress, outstanding issues, as well as any regulatory or budget concerns. Meeting minutes will be produced to document discussion items, decisions, and responsibility for follow-up.

During the construction phase additional resources will be added to ensure prompt and efficient responses to any issue that may arise. The lead engineer, James Lowry, PE will coordinate the effort of the design team, and will be assisted by Keith Gonzales. Additionally, all submittals, pay applications, and RFI's will be logged and tracked by Amy Rhodes. Ms. Rhodes will update the entire project team (WVOSM, ZMM, and Contractor) weekly regarding outstanding items. ZMM currently utilizes ShareFile to provide real time access to all project information during the construction phase.

PROJECT APPROACH (CONT.)

BUDGET CONTROL

As part of our effort to ensure our ability to meet your budget, ZMM will rely on both historic bidding data as well as independent estimates. This approach has been utilized on a variety of recent projects, including:

- National Weather Service at WVRTP
- Smith Hall Renovation at Marshall University
- Beech Fork Lodge
- West Virginia State Police Information Services Center
- West Virginia State Lottery Headquarters Renovation
- Brooks Manor Addition and Renovation
- WVRTP Building 740 Improvements
- Camp Dawson Building 202 Improvements
- Marshall County Readiness Center
- Logan-Mingo Readiness Center
- State Office Buildings 5, 6, & 7 Improvements

ZMM has a history of working successfully on projects under challenging budget and schedule constraints for clients throughout West Virginia. Recent examples demonstrating the effectiveness of our approach include:

- National Weather Service at WVRTP - $70K Under $7M Budget
- Smith Hall Renovation at Marshall University - $400K Under $1.2M Budget
- New River Health Clinic, Oak Hill, WV - $4M Under $18M Budget

CONSTRUCTION DURATION

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

- ZMM has developed Division 1 documents that tie the receipt of all deliverables required to administer the construction phase of the project to payment applications. ZMM will reject any payment application that is not accompanied by all required information including submittal schedules and logs, RFI logs, updated project schedules, etc.

- ZMM monitors all construction phase submittals and correspondence to verify that we are returning information at a pace that will help expedite project completion. ZMM management reviews the status of all RFI's and submittals weekly. ZMM will also staff the construction phase with staff that will be able to provide immediate answers at the project site to expedite the work.

PROJECT APPROACH (CONT.)

- ZMM will work with the WVSU to develop a realistic construction schedule that includes anticipated weather days. This schedule will be included in the specifications and reviewed at the pre-bid meeting to reinforce the critical nature of meeting the schedule, and the intent of enforcing liquidated damages.

EXPERIENCE WITH REQUIRED DISCIPLINES

ZMM Architects and Engineers has assembled a team to meet the unique requirements of the project. Our team is comprised of some of the leading professionals in West Virginia and is experienced in each discipline noted below. With over sixty-five (65) employees ZMM provides an integrated design approach by delivering all building-related design services including architecture, engineering (civil, structural, mechanical, and electrical), interior design, and construction administration in-house. Our architects and engineers are highly qualified and have worked together to deliver projects with similar scope and complexity.

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

Design
- Architectural Design
- Sustainable Design
- Interior Design
- Landscape Architecture
- Civil Engineering
- Structural Engineering
- Mechanical Engineering
- Electrical and Low Voltage Engineering
- Plumbing and Fire Protection Engineering
- Energy Consumption Analysis
- Net Zero Design

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

MECHANICAL / ELECTRICAL TEAM

ZMM Architects and Engineers is a fully integrated architecture and engineering firm that offers mechanical, electrical, and plumbing engineering with their in-house professionals. Our MEP engineers are industry leaders that are involved in helping to develop strategies and best practices for HVAC related design issues on both the local and national level. ZMM's engineering team will be led by Bob Doeffinger, PE. Mr. Doeffinger, ZMM's principal responsible for firm and engineering management, brings more than 45 years of mechanical design experience to the project. The engineering team will also include John Pruett, PE and James Lowry, PE to lead the mechanical engineering effort, and Frankie Kantsios, PE assist with any required electrical engineering.

PROJECT APPROACH (CONT.)

UNDERSTANDING LOCAL CONSTRUCTION MARKET

ZMM Architects and Engineers has been providing design services in West Virginia for 65 years. As an integrated architecture and engineering firm, ZMM regularly provides design and construction phase services on projects (located in West Virginia) exceeding $100M yearly - with a significant number of projects located in Southern West Virginia in and around Institute, including the new Shawnee Sports Complex. The depth of our local experience has provided us the opportunity to work with nearly every general contractor and major sub-contractor in the region. This experience has led ZMM to become a trusted resource in the local design and construction industry.

PROXIMITY TO WVSU

ZMM's entire team of architects and engineers is located around 20 minutes from the Davis Hall Fine Arts Center project. We are hopeful that you observed our commitment to design quality, budget and schedule control, and client service demonstrated on these projects.

3.

RELEVANT EXPERIENCE

HVAC RENOVATION EXPERIENCE

Charleston Coliseum & Convention Center (2015) – Replace entire MEP infrastructure three 1,000 ton chillers and cooling towers, three 8,000 mbh gas condensing boilers, approximately ten VAV AHU's, approximately 10 large single zone VAV AHU's.

Charleston Kanawha Health Department (2015) – Replace entire mechanical system to include air cooled chiller, gas fired make-up unit and zone fan coils with electric reheat, approximately 45,000 SF new DDC controls.

United Bank Building – Cooling Tower Replacement (2010) – Two 400 ton centrifugal chillers, rebuild two large VAV AHU's, installed free cooling plate frame heat exchangers (2015).

Kanawha County Public Library (2015) – Replaced two gas-fired boilers with new gas condensing boilers .

Building 5 Capital Complex (2008) – Replaced 10th floor office space air condition, replaced perimeter induction units with new steam chilled water air handling units, distributed VAV terminal units with modification to architectural fit out approximately 22,000 Sf. Installed new sprinkler service entrance for Buildings 5, 6, and 7.

Capitol Complex Building 5, 7th, 8th, & 9th Floors – Rebuild perimeter induction system and interior multi-zone distribution in addition to total architectural fit up, approximately 70,000 SF.

Capitol Complex Building 6, 3rd, 4th, & 5th Floors - Rebuild perimeter induction system and interior multi-zone distribution in addition to total architectural fit up, approximately 70,000 SF.

WV Lottery Headquarters Building (2014 - 2015) – Installed 40,000 SF of new variable refrigerant system, new make-up air system, comprehensive architectural services.

WV State Capitol Cafeteria – Installation of large catering and service kitchen, included steam make-up air system, 3 Class 1 kitchen hoods, Class 2 kitchen hoods, all plumbing system, sprinkler system including sprinkler service entrance for entire Capitol Buildings, comprehensive architectural services.

Old Kanawha Valley Bank Building (2003) - New Cooling Chiller
(2015) - New Cooling Tower

City Center East (2008) Chiller Replacement.

Tenant Fit-Up Numerous Office Buildings Charleston – BB&T Building, City Center East, United National Bank Building, Hunting National Bank Building to include VAV distribution, electrical and architectural services.

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HVAC RENOVATION EXPERIENCE (CONT.)



Additional K-12 HVAC Projects:

Pleasant Hill Elementary School - HVAC Replacement
Keyser Middle School - HVAC Replacement
Huntington Herald Dispatch - HVAC Study
Walker Machinery Main Office Renovation - HVAC
Walker Diamond Office - HVAC
Walker Machinery - HVAC Renovations
State of WV – Governor's Mansion Corrective HVAC Study
Camp Dawson Regional Training Institute - HVAC
Central Regional Jail – HVAC and Roof Replacement
King of Prussia, PA – HVAC Design (Multiple Projects)
Kanawha Valley Senior Services - HVAC
Tolsia High School - HVAC Renovations
Cabell County Schools – (Multiple HVAC Projects)
Cabell County Career & Technical Center - HVAC
Cabell County Explorer Academy - HVAC
Harrisville Elementary School - HVAC
Ritchie County HS/MS - Cooling Tower Replacement
Spring Hill Elementary School - HVAC
Roane-Jackson Career & Technical Center
Salt Rock Elementary School - HVAC Renovation
Wayne County Schools – New HVAC System Projects
Greenbrier County Schools – New HVAC System Projects
Huntington High School
Cabell-Midland High School

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ROOFING EXPERIENCE

WV School of Osteopathic Medicine (Main and Science Building) - Roof Replacement

Cedar Lakes Conference Center (11 Buildings)

WV Regional Jails (Multiple Facilities)

Wayne County Schools (6 Schools)

Boone County Schools (4 Schools)

Nicholas County Schools (3 Schools)

Mason County School (Multiple Facilities)

Ranson Elementary School (Partial)

Greenbrier County Schools (Multiple Facilities)

Summers County Bus Garage

WV State Capitol Building (excluding dome)

State Office Building 5, 6, & 7

BridgeValley CTC - Davis Hall

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HIGHER EDUCATION CAMPUS DEVELOPMENT PLANS

LOCATION
WEST VIRGINIA

COMPLETION
2012 - PRESENT

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

These plans have been developed for:

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

Details of these plans are as follows:

West Virginia State University

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

ZMM ARCHITECTS ENGINEERS

Higher Education Campus Development Plans (cont.)

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

New River Community and Technical College

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

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

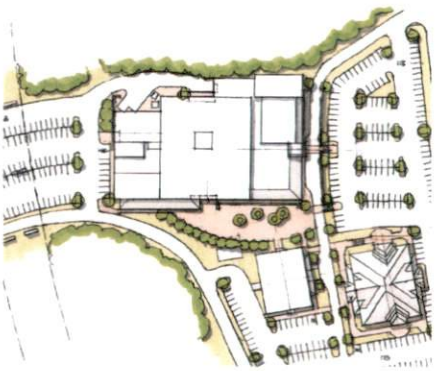
When the plan was completed, New River Community and Technical College had elected to reduce their overall footprint from 14 to 7 facilities. This improved the efficiency of space usage from 262 SF/FTE to 190 SF/FTE. ZMM visited the remaining facilities to develop a plan to address deferred maintenance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

Southern West Virginia Community and Technical College

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

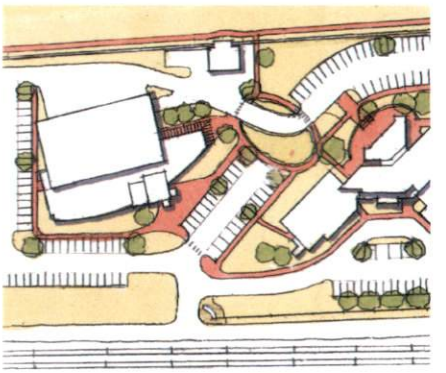
- Logan Campus
- Williamson Campus
- Boone Campus/Lincoln Site
- Wyoming/McDowell Campus

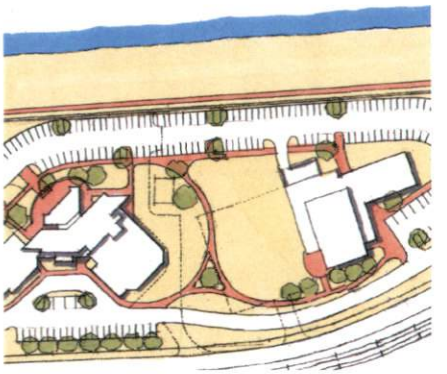
Following these campus visits, ZMM conducted stakeholder meetings at each location. At the meetings stakeholders discussed positive attributes, challenges, and needs for each facility and campus. Following the stakeholder meetings, an Executive Steering Committee was convened to review the outcomes of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



Higher Education Campus Development Plans (cont.)

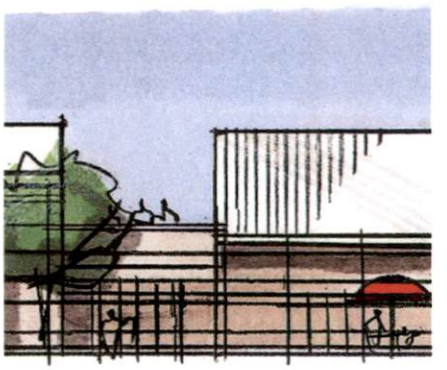
in developing an overall strategy and framework for the plan. Based upon these meetings, several themes emerged that helped guide the development of the Master Plan. It was determined that the plan would include standards for signage, lighting, and exterior finishes. Additionally, although a significant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

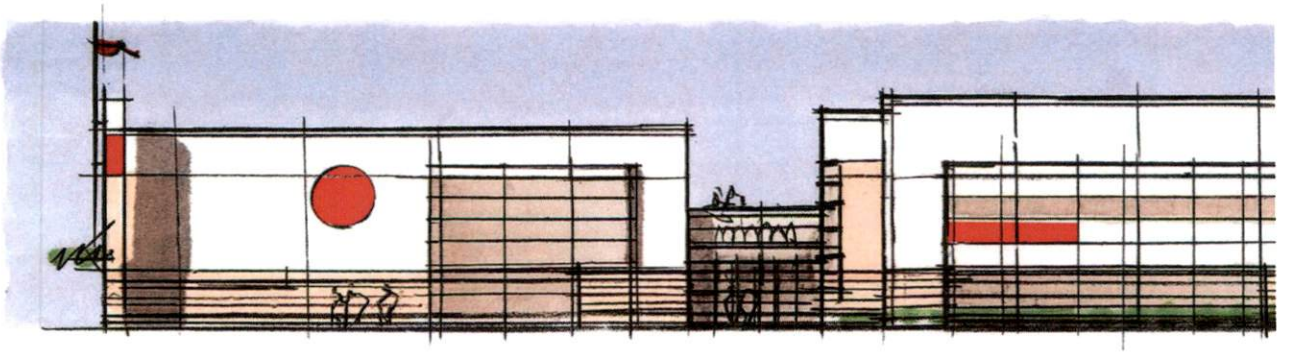




BridgeValley Community and Technical College

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





KATHERINE JOHNSON STATUE PLAZA
WEST VIRGINIA STATE UNIVERSITY

LOCATION
INSTITUTE, WV

COMPLETION
2019

ZMM Architects and Engineers assisted West Virginia State University (WVSU) with the design of a statue plaza to honor distinguished NASA mathematician and WVSU alumna Katherine Johnson.

"A native of White Sulphur Springs, W.Va., Katherine graduated from West Virginia State in 1937 at the age of 18, with bachelor's degrees in mathematics and French. Her pioneering work as a "computer" at NASA has been widely recognized following publication of the book, Hidden Figures, by Margot Lee Shetterly, and by the movie of the same name. In 2015, she received the Presidential Medal of Freedom, the highest award that can be bestowed upon a civilian." ZMM assisted with the project by developing the design of the plaza that houses the statue. An existing parking lot located adjacent to the Cole Complex was removed to make room for the plaza. The selected location for the plaza helped advance the 10 year Campus Development Plan (also designed by ZMM), which recommended moving all vehicular traffic away from the green Quad, and towards the perimeter of the campus.

The plaza utilized existing pedestrian circulation (sidewalks) to enhance the connection to the Quad, and added a transverse sidewalk to develop an intersection that became the location of the statue. The new sidewalks slope up slightly to give the statue prominence. The life-sized bronze statue, designed by WVSU alumnus and West Virginia sculptor Frederick Hightower, is located on a small raised platform that is large enough for students to interact with and pose for photographs. WVSU president Dr. Anthony Jenkins noted that he hopes "that my daughters and all of my

ZMM ARCHITECTS ENGINEERS

Katherine Johnson Statue Plaza (cont.)

students at West Virginia State University see this monument as an example of what they can accomplish when they dedicate themselves, work towards a greater cause and remain cognizant of their own strength and always seek to do better, be better and want better." In addition to the site layout, ZMM was also responsible for the design of the signage, lighting, and other site amenities.

WV SCHOOL OF OSTEOPATHIC MEDICINE

LOCATION
LEWISBURG, WV

SIZE
VARIOUS

COMPLETION
ONGOING

The Main Building for the West Virginia School of Osteopathic Medicine was originally built in the 1920's with numerous additions and alternations over the years.

The Main Building was built with 5 major pods and enclosed corridors connecting the pods into one large multistoried building that includes offices, classrooms, library, and meeting rooms. The building's brick and stone exterior is old, some more that 90 years old, and exhibits deterioration from the effects of exposure to the exterior elements.

The brick and stone exterior shows deterioration of the mortar joints and various cracks from expansion and contraction from temperature change and freezing. The steel lintels above doors and windows exhibit rusting, some have rusted enough to cause structural damage to brick or concrete header. Concrete, cement plaster elements along with metal flashing also show some deterioration and are in need of repair. ZMM produced construction documents to clean and repair all deteriorated portions of the building's exterior. These documents show all the building's exterior condition and include details, specific repair instructions and quantities of repair work for the entire building.

In 2021 the Main Building received a roof replacement.

ZMM ARCHITECTS ENGINEERS

WV School of Osteopathic Medicine (cont.)

Robert C. Byrd Clinic: Interior Renovation

The interior renovation to the Robert C. Byrd Clinic, a non-profit organization affiliated with WVSOM. The project includes renovation of 1,075 SF of existing administrative area which included two offices and a large open office area. ZMM renovated this area to provide three offices and paired exam rooms along with a reception area and waiting room for psychiatric / behavioral health services. Reworking of the existing building systems; HVAC, electrical, lighting and fire suppression systems were also included in the scope of work. The Robert C. Byrd Clininc also had a roof replacement.

Main Building and Robert C. Byrd Clinic: Waterless Fire Suppression

Another project ZMM completed was the addition of a waterless fire suppression system for the server rooms in the Main Building and the Center for Technology and Rural Medicine. The renovation included sealing the interior perimeter of each server room and the installation of a fire suppression system that protected inside the room, above the acoustical ceiling and below the raised computer floor. The new system connected to the existing fire alarm control panel, has disconnects that shut down air conditioning units, and are connected to a roof mounted exhaust fan for purging the room after discharge.

Tech Center Expansion - Testing Center

The Testing Center is designed to accommodate 220 students and will connect the Center for Technology and Rural Medicine (Tech Center) and the Clinical Evaluation Center (CEC). The main Testing Center space is being designed to support student achievement by limiting visual and auditory distractions. The interior environment is also designed to create a calming or contemplative space for WVSOM students. The Testing Center has two entry vestibules on either side of a registration desk, which is separated from the proctor area by a technology room. The project includes reconfiguring office space in the Tech Center for Pre-Clinical Education and Information Technology, while the addition provides expansion office space for Information Technology and new offices for the Exam Center.

Additional Projects:

Facilities Master Plan
Green Space at Campus Entry
Alumni Center - HVAC and Roof Replacement
Stookey Library - Roof Replacement
Tech Center - Natural Gas Generator

ZMM ARCHITECTS ENGINEERS

MARSHALL UNIVERSITY
MULTIPLE PROJECTS

LOCATION
HUNTINGTON, WV

SIZE
VARIOUS

COMPLETION
ONGOING

ZMM has significant experience providing Architectural and Engineering services to Marshall University.

Smith Hall Renovation

This 22,000 SF renovation project was completed in 2017 and included interior finish and acoustical upgrades to improve the quality of the music practice rooms and additional performance areas. ZMM worked closely with Marshall University professors to determine the correct acoustics to meet the accreditation needs for the college. Taking inspiration from The Thundering Herd, the building was transformed with a mature palette and pops of green. Interior improvements included replacement of ceilings in areas that were affected by the HVAC replacement. Existing ceilings in the practice rooms received a sound blanket barrier and acoustical coating to improve the performance of the space. Paint, carpet and acoustical wall treatments were also installed.

Mechanical system improvements were implemented to correct issues of the aging HVAC system, which was a high-energy user. ZMM converted the system to VAV by installing terminal units with SCR electric reheat. A smaller electric coil provided enough electrical capacity to power the terminal reheat. ZMM retained the fan wall and chilled water coil and installed DDC controls. Dehumidification was provided by a gas-fired humidifier to maintain stable humidity. Additional projects at Smith Hall Include:

- Building Assessment
- Cooling Tower Replacement
- Underground Chilled Water Piping

ZMM ARCHITECTS ENGINEERS

Marshall University (cont.)

- Retrofit AC Smith Hall Music Building - Dual Duct VAV Humidified Building

Drinko Library
- Mechanical and Electrical Assessment in 2022
- Cooling Tower

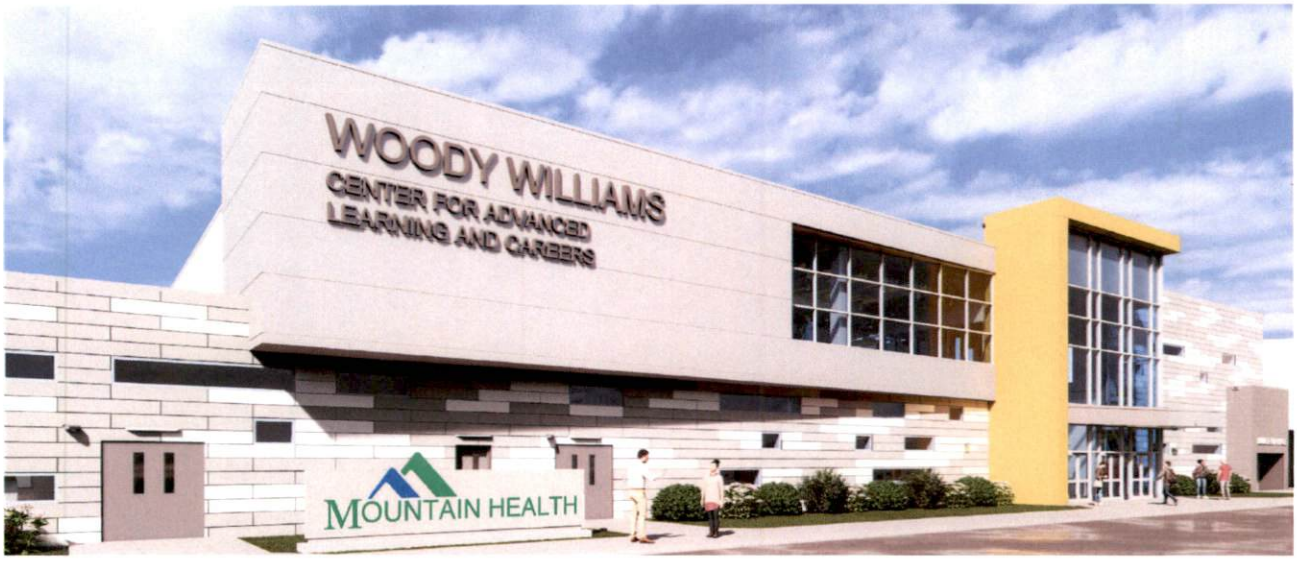
Morrow Library
- Underground Chilled Water Piping

IT/OT Security OP Center
- Development of the New Cyber Security Command Center

Sorrell Maintenance Building
- Air Conditioner Replacement

Applied Engineering Building
- Chiller Consulting

Pritchard Hall
- Chiller Replacement



WOODY WILLIAMS CENTER FOR ADVANCED LEARNING AND CAREERS

LOCATION	SIZE	COMPLETION	COST
BARBOURSVILLE, WV	230,000 SF	TBD	$40M EST.

The new Cabell County Career and Technology Center is one of six projects funded through a bond passed by Cabell County voters in 2020.

This project was renamed the Woody Williams Center for Advanced Learning and Careers and converts the existing abandoned 230,000 sf SEARS Store at the Huntington Mall. This innovative educational center will help prepare students for the workplace through a variety of pathways in career and technical fields.

The facility will be host to more traditional programs such as Auto Mechanics, Collision Repair, Welding, Machine Tool Technology, HVAC, Electrical, Carpentry, Building Facility Maintenance, Masonry, Plumbing, Culinary Arts, and Cosmetology. In addition to the traditional programs' students will have the opportunity to explore other options such as Vocational Agriculture, Graphic Design, Law and Public Safety, Medical Assisting, LPN, Coding, and Aerospace Engineering. Students will also have the option to take associated classes at their home high school or have the option to remain at the Career Center the entire day and take all their classes at that location.

The facility will also have a Multipurpose Room so students can meet all their PE credits, Meeting Rooms for events and county wide meetings, and a full Kitchen and Dining area for students as well as a rooftop dining space. Collaborative spaces for students to gather are scattered throughout the facility. Graduates can also attend as a year fourteen student and participate in several selected programs. The facility will also be open after school hours for hobby classes and adult programs.

ZMM ARCHITECTS ENGINEERS

Woody Williams Center (cont.)

The existing painted masonry façade will be clad in multicolored metal panels and horizontal windows. The existing main entrances will be removed and reimagined with a two-story glass façade that stretches into the existing building and terminates into a lecture stair adjacent to a live green wall. The two-story entrance corridor will be the focal point of the interior space, highlighting the classrooms that overlook the entrance corridor. All classrooms and lab areas will have a glass entrance to showcase the technology and career learning that goes on inside the space.

This is a groundbreaking project for Cabell County Schools and education design in West Virginia that reimagines an abandoned retail store into a career academy showcasing technology and career education for high school students and adult education.

ERMA BYRD CENTER

LOCATION	SIZE	COMPLETION	COST	AWARDS
BEAVER, WV	33,000 SF	2007	$7.5M	2008 AIA WV HONOR AWARD & AS&U OUTSTANDING BUILDING DESIGN

The Erma Byrd Center for Public Higher Education is the first building of its kind in the state.

The 33,000 SF center provides students the convenience of taking a variety of college classes offered by six different colleges and universities in a single location.

The facility consists of standard classrooms, distance learning classrooms, science lab, computer classroom, lecture hall, and a multimedia library, along with administrative office space for each college and university. Through technology, the building itself becomes an educational tool. Students are able to monitor the HVAC system and its controls through web-based software, thereby learning how the system works and how the climate and building design affect performance.

A wind turbine and solar panels on-site assist in reducing the overall utility cost and allow students to see first-hand the benefits of alternative energy sources. This higher education facility sets a new standard for the learning environment and energy efficiency. The building is designed to maximize use of natural light and has sensors throughout that control the artificial light level by measuring the amount of light present in the space. The high-tech facility is the first building on what has become a campus for public higher education. Its placement at the front of the site allows the building to serve as a beacon of what is to come.

ZMM ARCHITECTS ENGINEERS

4.

TEAM QUALIFICATIONS

ADAM KRASON

AIA, LEED AP, ALEP

Principal

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 and energy efficiency and has participated and presented at sustainable design seminars throughout the region. Mr. Krason also serves on the Board of Directors and is responsible for firm management, business development, and corporate philanthropy at ZMM. In addition to his role at ZMM, Mr. Krason is actively engaged in his community, serving on a variety of statewide and local civic and non-profit boards.

EDUCATION

Bachelor of Architecture
The Catholic University of America, 1998

Bachelor of Civil Engineering
The Catholic University of America, 1997

LICENSURE

West Virginia, Virginia, Ohio, Kentucky, Maryland, and New Jersey

AFFILIATIONS

Association for Learning Environments

WV Board of Architects, President

American Institute of Architects, Stategic Council

Charleston Area Alliance, Board Chair

Goodwill Industries of Kanawha Valley, Past Board Chair

Clay Center, Board of Directors

WV Symphony Orchestra, Board of Directors

Charleston Main Streets, Board of Directors

Charleston Municipal Planning Commission

Charleston Historic Landmarks Commission

PROJECT EXPERIENCE

Marshall University - Huntington, WV
- **Cyber Security Command Center**
- **Smith Hall Complex Building Assessment and Development Plan**

BridgeValley Community & Technical College
- **Davis Hall Exterior Envelope Renovations (Montgomery Campus)**
- **BridgeValley Community & Technical College Master Plan (Montgomery Campus)**
- **Feasibility Study for the Stone & Thomas Building** (Approved for Federal and State Historic Tax Credits)

Southern WV Community & Technical College
- **10 Year Campus Development Plan**

New River Community and Technical College - Multiple Locations, WV

Wood County Tech Center - Wood County, WV

Roane-Jackson Career & Technical Center - Leroy, WV

Joint Interagency Training and Education Center - Kingwood, WV

Charleston Coliseum and Convention Center - Charleston, WV

Capital Sports Complex - Charleston, WV

Shawnee Sports Center - Institute, WV

WV State Laboratory Testing Facility - So. Charleston, WV

ZMM ARCHITECTS ENGINEERS

DAVID FERGUSON

AIA, REFP

QA/QC

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

Mr. Ferguson is a Recognized Educational Facility Professional (REFP) and has been involved in planning, designing and the construction of over 200 educational facilities in West Virginia. As the architect for the first "green" school building in West Virginia Mr. Ferguson has been an advocate for sustainable design and was involved starting the first US Green Building Chapter in West Virginia.

EDUCATION

Bachelor of Science
West Virginia State University, 1979

LICENSURE

West Virginia, Ohio

AFFILIATIONS

WV Chapter, American Institute of Architects, Past President

WV Chapter, American Institute of Architects, Member

Recognized educational Facility Planner (REFP) by the A4LE

A4LE Southeast Region Board of Directors - WV State Governor

Professional Member, US Green Building Council

PROJECT EXPERIENCE

Southern WV Community and Technical College (Advanced Technology Center) - Williamson, WV

West Virginia State University Master Plan - Institute, WV

Nicholas County Schools - Nicholas County, WV
- **Nicholas County High School/Nicholas County CTC/ Summersville Middle School**
- **Cherry River Elementary/ Richwood Middle/Richwood High School**

Cabell County Schools - Cabell County, WV
- **Cabell County Career and Technical College**
- **Explorer Academy**
- **Huntington East Middle School**
- **Southside Elementary / Huntington Middle School**
- **Meadows Elementary School**

Kanawha County Schools - Kanawha County, WV
- **St. Albans High School**

Mercer County Schools - Mercer County, WV
- **Bluefield Primary**
- **New Brushfork/Bluewell Elementary School**

Wayne County Schools - Wayne County, WV
- **Wayne Elementary School**
- **Wayne Middle School Renovation/Addition**
- **Wayne High School Renovation/Addition**
- **Crum PK-8**
- **Ceredo-Kenova Elementary School**
- **Fort Gay PK-8**
- **Spring Valley High School Renovation**
- **Wayne County Bond Program**

Raleigh County Schools - Raleigh County, WV
- **Stratton Elementary School**

Mineral County Schools - Mineral County, WV
- **Frankfort PK-8**
- **Keyser Middle School Renovation/Addition**

ZMM ARCHITECTS ENGINEERS

CHRIS CAMPBELL

AIA, LEED AP

Project Manager

Mr. Campbell joined ZMM in November of 2017. Prior employment experience includes serving in the capacity of Architect and Project Manager for a variety of projects. This experience includes Educational (K-12 and Higher Education), Commercial Offices, Automotive Dealerships, Justice (Homeland Security and Department of Justice Offices), and religious spaces. Mr. Campbell's responsibilities include programming, design, documentation, coordination of the architectural and engineering team, and construction administration. Project responsibilities comprised all duties from project inception to completion.

Mr. Campbell began his career in 1996 and until 2006 was primarily working on K-12 educational projects throughout West Virginia. From 2006 until present the majority of his projects were Higher Education.

EDUCATION

Bachelor of Architecture
University of Tennessee, 1996

LICENSURE

West Virginia
Virginia

AFFILIATIONS

WV Chapter, American Institute of Architects, Past President (2006-2007)

WV Chapter, American Institute of Architects, Executive Committee (2001-2009)

WV American Institute of Architects, Intern Development Coordinator (2000-2005)

University of Charleston, Interior Design Advisory Board (2014 - 2016)

PROJECT EXPERIENCE

Marshall University - Huntington, WV
- **Cyber Security Command Center**
- **Smith Hall Complex Building Assessment and Development Plan**
- **Arthur Weisberg Applied Engineering Complex ***

Southern WV Community & Technical College
- **10 - Year Campus Development Plan**
- **Main Building Toilet Renovations (Williamson Campus)**
- **Fire Alarm Upgrades (Williamson & Logan Campus)**

BridgeValley Community & Technical College
- **Feasibility Study for the Stone & Thomas Building** (Approved for Federal and State Historic Tax Credits)
- **Davis Hall Exterior Envelope Renovations (Montgomery Campus)**

New River Community & Technical College
- **Chiller Replacement and HVAC Renovations (Greenbrier Campus)**
- **Welding Lab Renovations (Greenbrier Campus)**
- **Floor Slab Replacement and Renovations (Greenbrier Campus)**

Roane-Jackson Career & Technical Center - Leroy, WV
- **Plumbing Renovations**
- **New Domestic Water Treatment Plant**
- **New CDL Training / Testing Course**

Cabell County Career and Technical Center - Huntington, WV

WV Schools for the Deaf and the Blind - Romney, WV
- **Campus Site Upgrades**
- **PE Building: Reroofing, Window and Door Replacements**
- **Keller Hall Dormitory Renovationsand Reroofing**
- **Blue & Gold Building Renovations: Student Activity Center and Conference Center**

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

ZMM ARCHITECTS ENGINEERS

RODNEY PAULEY

AIA

Project Architect

Mr. Pauley oversees the daily design and production of the building, working in conjunction with in-house architectural and engineering staff to ensure the building not only meets the program requirements and budget, but meet the long-term needs of the owner. He also works directly with project principals to manage contracts, staffing and project deliverables. Mr. Pauley has a broad knowledge of building materials and services, building codes, construction techniques, and architectural detailing.

Mr. Pauley began his career in 1992 with a firm in Atlanta, Georgia, and for the next 12 years rose to the Associate level by designing and managing a wide variety of project types including educational, retail, historic renovation, medical, and entertainment, specializing in office and speculative office design. In 2010, Mr. Pauley moved back to Charleston, WV, as Project Manager for ZMM supervising design and production.

EDUCATION

Bachelor of Architecture
University of Tennessee - 1992

Associate of Science
West Virginia Institute of Technology, 1986

LICENSURE

West Virginia

AFFILIATIONS

West Virginia AIA Member

PROJECT EXPERIENCE

WV State Laboratory Testing Facilities Assessment - WV

Charleston Coliseum and Convention Center - Charleston, WV

State Office Building #5 and #6 Renovations - Charleston, WV

WV State Capitol Senate Bathroom Renovations - Charleston, WV

Capitol Guard House - Charleston, WV

WV Lottery Headquarters - Charleston, WV

KRT Laidley Street Transportation Center and Ticket Office - Charleston, WV

INTUIT Prosperity Hub - Bluefield, WV

WV School of Osteopathic Medicine - Lewisburg, WV
- Master Plan
- Testing Center

WV Regional Technology Park - Charleston, WV
- Building 754 National Weather Service Center (NOAA)

Wood County Resiliency Center - Parkersburg, WV

WVDNR Pipestem State Park Lodge Renovations - Pipsetem, WV

WVU Institute of Technology Renovations - Montgomery, WV

BridgeValley Community and Technical College Master Plan - Montgomery, WV

Valley Health Clinics - Multiple Locations WV

ZMM ARCHITECTS ENGINEERS

CARLY CHAPMAN

Sr. Interior Designer

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

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

EDUCATION

Bachelor of Interior Design
University of Charleston - 2012

AFFILIATIONS

Member of the Association for Learning Environments

PROJECT EXPERIENCE

Wood County Schools - Wood County, WV
- Wood County Technical Center
- Williamstown Elementary School

Cabell County Schools - Cabell County, WV
- Cabell Midland High School Renovation
- Cabell County Career and Technology Center
- Explorer Academy

Southern WV Community & Technical College - Williamson, WV

WV School of Osteopathic Medicine (Testing Center) - Lewisburg, WV

Marshall University - Huntington, WV
- Smith Hall Renovations
- Engineering Building Renovations *
- Athletic Center Renovations *

New Ridgeview Elementary School - Dickenson County, VA

Mercer County Schools - Mercer County, WV
- Bluefield Primary School
- Mountain Valley Elementary School
- New Bluewell Elementary School
- Oakvale Elementary School Renovations

Fayette County Schools - Fayette County, WV
- New River Primary / Oak Hill Middle School
- Fayetteville PK-8 Renovation
- Valley PK-8 School Addition and Renovation

Raleigh County Schools - Raleigh County, WV
- Woodrow Wilson High School Phase III Addition and Renovation
- Woodrow Wilson high School Phase IV Gym Addition and Renovation

Nicholas County Schools - Nicholas County, WV
- Nicholas County High School/Nicholas County CTC/Summersville Middle School
- Cherry River K-12 School / Richwood Middle

* Previous Employment

ZMM ARCHITECTS ENGINEERS

CARLIE RAY

Interior Designer

Carlie serves as an Interior Designer at ZMM. She is a detail-oriented and creative professional with extensive knowledge in interior architecture. Carlie's goal with every project is to create a beautiful and functional environment that suits the client's needs.

As an interior designer, her background includes commercial properties, education, healthcare, historic adaptive reuse, residential properties, existing building renovations, and hospitality design. She has experience managing a variety of project elements: interior space planning, finish and fixture selection, creating concept presentations, rendering 3D models, and producing construction documents to ensure that each project seamlessly transitions from concept to reality.

EDUCATION

Bachelor of Science in Interior Design
West Virginia State University, 2017

AFFILIATIONS

NCIDQ Certification ID#35513

West Virginia University - Interior Architecture Advisory Board Member

PROJECT EXPERIENCE

Cabell County Schools - Cabell County, WV
- Cabell Midland High School Renovations
- Meadows Elementary School
- Huntington High School Renovations
- Cabell County Career and Technical College
- Cabell County Board Office Renovations

Kanawha County Schools - Kanawha County, WV
- Cedar Grove Elementary School

Jackson County Schools - Mercer County, WV
- Cottageville Elementary School

Wayne County Schools - Wayne County, WV
- Wayne County School - Bathroom Renovations

Raleigh County Schools - Raleigh County, WV
- Stratton Elementary School

Braxton County Schools - Braxton County, WV
- Braxton County Middle School Gym Renovation

Nicholas County Schools - Nicholas County, WV
- Nicholas County High School
- Richwood Middle School
- Summersville Middle School
- Cherry River Elementary School

Poca High School - Putnam County, WV
Media Innovation Center Addition

WV School for the Deaf and the Blind Renovations - Romney, WV

ZMM ARCHITECTS ENGINEERS

Robert Doeffinger
PE

Principal

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

After graduate school in Architectural Engineering, Mr. Doeffinger joined ZMM. He has over 45 years design experience in mechanical and electrical systems for buildings. He has a broad range of engineering experience in education, industrial and manufacturing facilities, large retail, correctional and jails, office buildings, and military facilities.

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

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

EDUCATION

Master of Science
The Pennsylvania State University, 1976

Bachelor of Science
West Virginia University, 1973

LICENSURE

WV, VA, PA, OH, TN, KY, NY, NH, ME, NC, SC, FL, NJ, GA

AFFILIATIONS

ASHRAE - Member of the Technical Committee Load Calculations Data and Procedures for 25 years, serving as chairman. Presently Chairman of the Research Subcommittee

2021 Industrial and Professional Advisory Council – College of Engineering at The Pennsylvania State University

•2019 Marshall University Honorary Alumni Award of Distinction College of Engineering

Advisory Board for the Department of Electrical Engineering Technology, Bridgemont Community and Technical College

City of Pt. Pleasant, WV – 2nd Ward Councilman for 20 years

PROJECT EXPERIENCE

First Presbyterian Church Assessment - Charleston, WV

Charleston Coliseum and Convention Center - Charleston, WV

State Office Buildings #5, 10th Floor - Charleston, WV

WV Capitol Complex Buildings #5, #6, and #7 - Charleston, WV

Marshall University (Multiple Projects) - Huntington, WV

West Virginia Regional Technology Park - S. Charleston, WV

- Building 704
- Building 740
- Building 770

Joint Interagency Training and Education Center (JITEC) - Kingwood, WV

West Virginia Regional Jails

West Virginia Army National Guard Projects

BridgeValley Community and Technical College - Montgomery, WV

Appalachian Regional Hospital (Multiple Projects) - Beckley, WV

The Plaza at the King of Prussia - Philadelphia, PA

ZMM ARCHITECTS ENGINEERS

JAMES LOWRY

PE

Mechanical Engineer

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

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

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

Commercial:
West Virginia Capitol Complex, West Virginia Parkways Authority

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

EDUCATION

Bachelor of Science in Mechanical Engineering, West Virginia State University Institute of Technology, 2004

LICENSURE

West Virginia, Pennsylvania, Ohio & Maryland

AFFILIATIONS

American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)

PROJECT EXPERIENCE

Marshall University - Huntington, WV
- Drinko Library Mechanical/Electrical Study
- Prichard Chiller Replacement
- Drinko - Science
- Smith Hall Cooling Tower
- Multi-Zone HVAC Replacements

BridgeValley CTC Stone and Thomas Renovation - Charleston, WV

Mountwest CTC Campus Development Plan - Huntington, WV

Wood County Technical Center - Parkersburg, WV

New River Community Technical College Welding Lab - Raleigh County, WV

Pleasant Hill Elementary School Roof and HVAC Replacement - Calhoun County, WV

WV Higher Education Policy Commission
- Southern CTC Various Projects

New River CTC Multiple Projects - Fayette County

Roanoke College - The Colket Center Kitchen - Salem, VA

Pleasant Hill Elementary School HVAC - Calhoun County

Keyser Middle School HVAC and Roof - Mineral County

ZMM ARCHITECTS ENGINEERS

FRANKIE KANTSIOS

PE

Electrical Engineer

As an electrical engineer, Mr. Kantsios is consistently motivated to adapt to the team's needs in assessing and finalizing the project on time. He is an experienced professional with a proven record of managing projects from concept to completion while staying versatile to the specific project at hand. By carrying out engineering and design services for a diverse field of projects since 2013, Mr. Kantsios has expanded his knowledge and understanding of the industry; providing him with the means to meet the clients' needs for each individual program. He has been actively involved in the design of a wide array of new structures and renovations to include K-12 educational buildings, higher education buildings, healthcare facilities, office buildings, banks, restaurants, hotels, automotive dealerships and service centers, apartment complexes and dorms, industrial facilities and warehouses, and athletic facilities. Whether working independently or in conjunction with other architects, engineers, and contractors, Mr. Kantsios excels at creating effective solutions and developing opportunities that further establish organizational goals.

EDUCATION

Bachelor of Science
Old Dominion University, 2019

Associate of Applied Science
New River Community College, 2016

LICENSURE

West Virginia, Virginia, Ohio

PROJECT EXPERIENCE

Carilion New River Valley Medical Center - VA
- Cardiology Expansion
- Infusion Clinic Alterations

HCA Healthcare - VA
- LewisGale Hospital Montgomery - 3rd Floor Graduate Medical Education Center

InnovAge PACE - VA
- New Richmond Facility
- New Roanoke Facility
- Roanoke Facility Study

Bath Community Hospital - VA
- New Pharmacy Building*

New Triumph Baptist Church - VA

Frederick County Sunny Side Voter Registrar's Office- VA
- A.S. Rhodes Elementary School Renovations

New River Community College - VA
- ADA Accessibility Improvements

City of Covington City Hall Renovations - VA*

Pulaski County Administration Building Renovation - VA*

**Previous Employer Experience*

J. FRANKLIN HALE

Roofing Designer

Mr. Hale has served as an Architectural Designer for over 40 years. Mr Hale is responsible for general design development and drafting, development of construction documents, development of project presentation, as-built investigation and reports, building code analysis and construction administration.

Mr. Hale has 40 years of experience in the design and management of a wide variety of architectural projects including, educational, industrial, healthcare, historical, community, residential, military support facilities, and roofing replacement designs. Mr. Hale's experience includes many years of specialized work in Computer Aided Drafting and Design.

EDUCATION

New River Community College,
Associate of Applied Science - Architectural Technology, 1983

PROJECT EXPERIENCE

Jefferson County Schools - WV
- Blue Ridge Elementary School Roof Replacement
- T.A. Lowry Elementary School Roof Replacement
- South Jefferson Elementary School Roof Replacement
- Shepherdstown Elementary School Roof Replacement
- Wright Denny Intermediate School Roof Replacement

Taylor County Schools - WV
- Grafton High school Roof Replacement

Lee County Public Schools - VA
- Thomas Walker High School Roof Replacement
- Flatwoods Elementary School Roof Replacment
- Lee County High School Roof Replacement
- Lee County CTC Roof Replacement
- Dryden Elementary School Roof Replacement

Concord University - WV
- Beasley Student Center Roof Replacement
- Carter Center Roof Replacement

Frederick County Public Schools - VA
- Administration Building Roof Replacement
- Administration Building Restroom and Corridor Renovation

Dept. of Behavioral Health and Developmental Services - VA
- CCCA NFPA Life Safety and Behavioral Health Upgrades
- Catawba Hospital Repair/Replace Roof
- SWVMHI Harmon and Laundry Building Roof Replacement

ZMM ARCHITECTS ENGINEERS

TODD POFF, PE

PE

Structural Engineer

Mr. Poff started as a Civil Engineer. After working in that department for several years, he began moving over to the Structural Engineering Department; where his true interest, and most of his training lies.

As a Structural Engineer, it is Mr. Poff's responsibility to insure the safety of the structure's design, as well as any occupants inside those structures. As a member of the design team, Mr. Poff understands that the structural system of a building needs to have the least amount of impact possible on the architectural design and on the way clients use the buildings. It is that kind of teamwork, with all major design disciplines in-house, that allows ZMM to say with confidence we provide our clients with a building design that will not only meet their needs but will be a place they can enjoy for many years to come.

EDUCATION

Bachelor of Science
Virginia Polytechnic Institute & State University, 1987

LICENSURE

West Virginia, Virginia, Ohio, North Carolina

PROJECT EXPERIENCE

Dickenson County Public Schools - Dickenson County, VA
- New Ridgeview Elementary School
- Classroom Addition at Ridgeview Elementary School

Marshall County Schools - Marshall County, WV
- Monarch Stadium, Concessions & Field House Renovations

Wirt County Schools - Wirt County, WV
- Wirt County Middle School Renovations

Wythe County Public Schools - Wytheville, VA
- George Wythe High School Addition and Renovation
- Scott Memorial Middle School Addition to GWHS

Raleigh County Schools - Raleigh County, WV
- Ridgeview Elementary School

Jefferson County Schools - Jefferson County, WV
- Ranson Elementary School
- Shepherdstown Elementary School

Timber Ridge CTEC - Winchester, VA

Mineral County Schools - Mineral County, WV
- New Frankfort PK-4 School

ZMM ARCHITECTS ENGINEERS

KEITH L. GONZALES

Construction Administrator

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

Mr. Gonzales prior to coming on board with ZMM oversaw the CAD/BIM coordination and design of major projects in the Columbus area. Mr. Gonzales project variety includes Educational (K-12 and University), Commercial, Military, Office, Government, and Healthcare.

EDUCATION

Associate Degree, Mechanical Engineering
Pittsburgh Technical Institute - 1978

PROJECT EXPERIENCE

Mercer County Schools - Mercer County, WV
- **Athens Elementary School**
- **Oakvale Elementary School**
- **Melrose Elementary School**
- **Sun Valley Elementary School**
- **Silver Springs Early Learning Center**
- **Lashmeet - Matoaka High School**
- **Bluefield Middle School**
- **Bluefield High School**
- **Montcalm High School**
- **Princeton Primary**
- **Princeton High School**
- **Spanishburg Elementary School**
- **New Timberwood Elementary School**

Wayne County Schools - Wayne County, WV
- **Wayne County High School**
- **Wayne County Middle School**
- **East Lynn Elementary School**
- **Buffalo Middle School**

Braxton County Schools - Braxton County, WV
- **Braxton County Middle School**
- **Braxton County High School**

Boone County Schools - Boone County, WV
- **Brookview Elementary School - Roof**
- **Sherman High School - Roof**
- **Van Jr./ Sr. High School - Roof**
- **Boone County Career and Technical Center - Roof**

WV School of Osteopathic Medicine - Lewisburg, WV
- **Testing Center**
- **Community Building**
- **Building B - Roof**
- **Byrd Center - Roof**

Richwood High School - Nicholas County, WV

ZMM ARCHITECTS ENGINEERS

5.

CLIENT REFERENCES

BridgeValley
Community & Technical College

May 4, 2022

I am writing this letter to acknowledge the excellent work provided by Adam Krason and ZMM Architects in designing and presenting the BridgeValley Campus Development Plan. After assessing the building inventory and square footage available on our campuses, they formulated and recommended a student to square foot ratio appropriate for the school's programs, enrollment, and resources. The Plan maximizes student opportunities for success and matches the college's long-term goals while maximizing efficiency.

While working with ZMM, we found their representatives took time and listened to the needs of all BridgeValley constituents. From the start of the project to completion, our experience working with ZMM has been nothing but positive. BridgeValley strongly feels that the quality of work, the timeliness of submissions, and attention to detail were exceptional and made ZMM a great group to work with. We look forward to the possibility of working with ZMM again in the future.

Sincerely,

casey sacks

Casey K. Sacks, Ph.D.
President
BridgeValley Community and Technical College

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