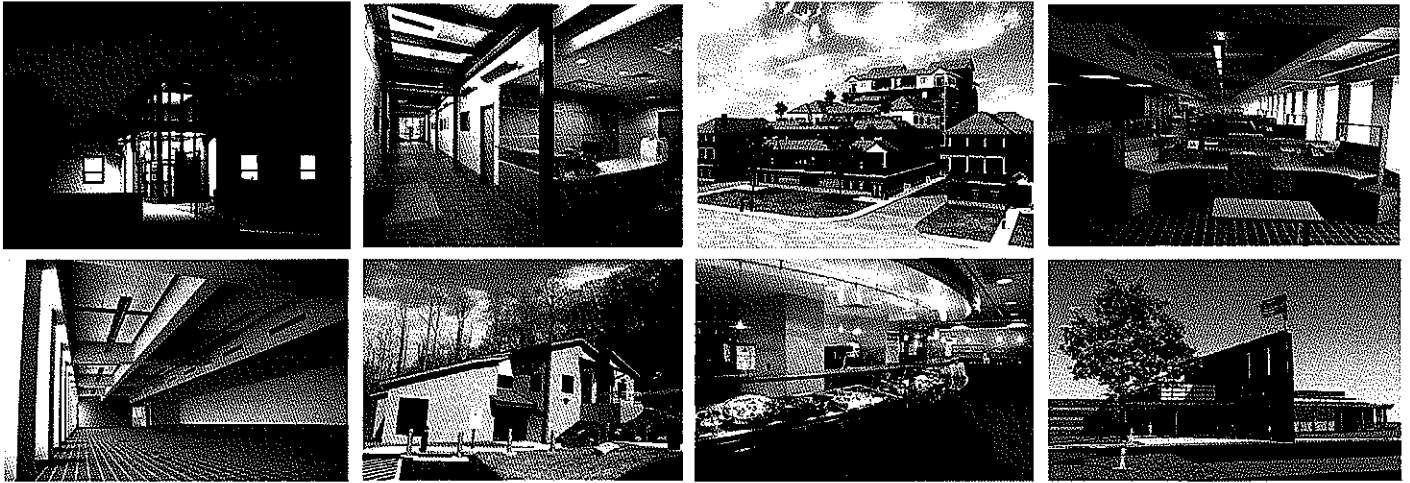


Statement of Qualifications  
for:  
Architectural & Engineering Design Services  
Redesign of East Campus Parking Lots  
RFQ# GSD116434



01 - March - 2011

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DIVISION



ARCHITECTS & ENGINEERS

March 1, 2011

Ms. Krista Ferrell, Buyer  
Department of Administration, Purchasing Division, Building 15  
2019 Washington Street, East  
Charleston, West Virginia 25305-0130

**Subject: A&E Services for the Redesign of East Campus Parking Lots (GSD116434)**

Dear Ms. Ferrell:

The Redesign of the East Campus Parking Lots that is being planned at the State of West Virginia Capitol Campus requires a design solution that will consolidate the east parking areas to maximize parking spaces and improve circulation of parking traffic flow. With the acreage available for redevelopment, **ZMM** envisions a consolidated parking area with a much more efficient parking layout and circulation pattern. We are confident that our experience providing services at the Capitol Complex (which has involved significant utility investigation), as well as our experience designing parking lots throughout the Kanawha Valley, demonstrates that **ZMM** is uniquely qualified to provide professional design services for the East Campus Parking Lots.

**ZMM** is one of few full service A/E firms in West Virginia, and is noted for design excellence and client focus. **ZMM's** design experience spans five decades, and has been recognized with both statewide and national planning and design awards. Our portfolio includes recent experience working at the State of West Virginia Capitol Complex. This work includes the Renovation of the Capitol Food Court, Renovation of the 10<sup>th</sup> Floor of State Office Building #5, Building 5, 6, & 7 Roof and Window Replacements, Electrical Service Upgrades, as well as several projects at the Culture Center.

Thank you for taking the time to review the attached information that details our proposed project approach, qualifications, personnel, experience, and references for the East Campus Parking Lots. Additionally, please visit our website [www.zmm.com](http://www.zmm.com) to learn more about our team, and about working with **ZMM** from a client's perspective. We look forward to the opportunity to present our ideas for this project, and appreciate the opportunity to be considered for this important assignment.

Respectfully submitted,

ZMM

Handwritten signature of Adam R. Krason in black ink, written over a horizontal line.

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

Principal

ZMM, Inc.  
222 Lee Street West • Charleston, West Virginia 25302  
304.342.0159 voice • 304.345.8144 fax  
[zmm.com](http://zmm.com)

**A&E Services: Redesign of East Campus Parking Lots**  
RFQ# GSD116434

**Cover Letter**

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## Project Understanding

### Concept

The Capitol Complex includes parking areas on both sides of the campus. This project focuses on the east parking areas which have been acquired incrementally between California Avenue and Veazey Street. Presently, the east parking areas are individual lots. This project will consolidate the east parking areas to maximize parking spaces and improve circulation of parking traffic flow. With the acreage available for redevelopment, ZMM envisions a consolidated parking area with a much more efficient parking layout and circulation pattern. The project will also focus on utilities and stormwater drainage. The underground utilities will be relocated to facilitate future redevelopment of the area for building sites.



The conceptual plan is to provide an efficient parking layout with handicap accessible spaces and routes to the Main Campus keeping in mind the future development for the area.

### Project Approach

#### 1. Initial Study:

ZMM will begin the project with a kick-off meeting with the Owner on-site. The kick off meeting will include walking the site and identifying the property for the project and the existing buildings within the project area. The kick off meeting will also facilitate communication between ZMM and the Owner.

Following the kick-off meeting, ZMM's project approach will begin with a detailed site survey. The survey will include existing site utility locations, existing conditions, property boundary locations, overall acreage, topographic mapping, and structure locations. The survey of existing utilities will include evaluation of each underground utility and overhead. After the utilities have been located, the focus will be on evaluating whether the utilities are active or abandoned-in-place. An evaluation of the existing stormwater drainage conditions will also be completed.

The initial study will also include communication with the City of Charleston Engineering Department, Charleston Sanitary Board, and other local utility providers. Due to the City combined storm and sanitary sewer system in this area and local stormwater regulations, the City may require stormwater management facilities. ZMM will investigate the applicability of stormwater bioretention swales and/or retention systems to manage stormwater runoff and meet the local requirements.



ZMM will keep in mind the States request for a limited amount of landscaping when investigating options. A geotechnical evaluation will also be performed to identify soil types and conditions of existing sub-grades and pavements. Handicap accessibility routes will be evaluated from the parking area to the Main Campus, Building 4, and other campus buildings south of Washington Street, East. Street and Alley rights-of-way will be identified for abandonment where the State owns property on both sides of the rights-of-way. Continued...

## Project Understanding

ZMM will submit to the owner a report of the findings of this initial study of the site area. The report will include a summary of findings, a site survey signed and sealed by a West Virginia Professional Survey, and a geotechnical evaluation report signed and sealed by a West Virginia Professional Engineer.

### 2. Comprehensive Redesign, Construction Documents, and Construction Phase Services:

A comprehensive redesign of the existing parking lots will begin following the initial study. At this time, ZMM will have a detailed understanding of the site utilities, boundaries, and existing conditions. A conceptual layout will be designed to consolidate the smaller lots for a more efficient parking layout. ZMM will take into account the Owner's desire to keep the existing parking lot lighting in place where appropriate and for the future development of the parking area. The conceptual plan will include parking in the area of the existing mail distribution building taking into consideration the future demolition of the existing building. The existing location of the ground maintenance area will be evaluated for relocation as part of the conceptual layout for the parking lot redesign. Handicap accessible routes and handicap parking spaces will be identified in the conceptual layout. ADA guidelines for minimum number of handicap parking spaces will be followed. Limited landscaping will be included in the plan.



Once the conceptual layout has been reviewed and approved by the Owner, ZMM will proceed with the final design. At this time the utility layout and design will be completed. The utilities will be relocated and designed to facilitate future development building sites. Abandoned utilities will be removed. Utilities will be designed to follow existing street and railroad rights-of-way when possible. Stormwater design will also take into account future development of the site and the City of Charleston stormwater management requirements. Overhead utilities shall remain in place if possible and coordination with the local utility providers will continue to progress through final design.

ZMM will prepare construction drawings and technical specifications for the project. The design team will coordinate the bidding and contractor selection process for the General Services Division. The bidding documents will be coordinated with the requirements of the State.

During construction activities, ZMM will be responsible for timely reviews of contractor submittals, attend construction progress meetings, verify construction complies with the plans and specification, and process applications for payment. ZMM will facilitate an on-site kick off meeting with selected contractor to review project schedules, milestones, and deliverables.

# History and Philosophy of ZMM



LOCATION:  
222 Lee Street, West  
Charleston, WV

CONTACT:  
Phone 304.342.0159  
Fax 304.345.8144

[www.zmm.com](http://www.zmm.com)

## Current Principals:



R. Doeffinger



D. Ferguson



A. Krason



R. Watkins

## History

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.

## Community Support

In addition to our design efforts, ZMM is supportive of institutions and organizations that contribute to the cultural and educational landscape in West Virginia.

ZMM offers financial support to several community and state-wide institutions which reflect the superior quality that we strive to achieve on each of our projects. The following organizations also impact the educational environment through their support of local artisans, performances, broadcasts, and community service:





# Firm/Team Qualifications

## Parking Lot Redesign

A. Firm Contact: Adam R. Krason, AIA, NCARB, LEED-AP  
 ZMM, Inc.  
 222 Lee Street, West  
 Charleston, WV 25302  
 304.342.0159  
[ark@zmm.com](mailto:ark@zmm.com)

Signature

B. ZMM Team (Please find resumes attached):

Name:	Role:
Adam R. Krason, AIA	Principal, Project Manager
Bob Doeffinger, PE	Engineer/Project Manager
Mary Jo Cleland, PE	Civil Engineer
Steve Hedrick, PE	Structural Engineer
Scot Casdorff, PE	Electrical Engineer
Hank Walker, AIA	Architect
Mike Abernethy, IESNA	Electrical and Lighting Design
Robert Groom	Mechanical Designer
Glenn Savage, CSI-CDT	Construction Administrator

- C. The architectural and engineering work for this project will be performed by ZMM employees.
- D. As a full service architecture and engineering firm, ZMM is uniquely qualified to provide design services on this campus security project. Please note that examples of our experience providing design services on similar projects can be found in Section 4. ZMM is capable of handling the architectural and engineering services for the East Main Campus Parking Lot on the State Capitol Complex.
- E. ZMM and our consultants understand and agree that any and all work produced as a result of the contract becomes the property of the State of West Virginia General Services Division and can be used or shared as deemed appropriate by the Owner.
- F. ZMM has been providing design services in the State of West Virginia for more than fifty years. During this time our work has regularly conformed to all local, State, and Federal regulations. Additionally, we regularly coordinates our work during the design phase with the State of West Virginia Fire Marshal to help ensure compliance with NFPA 101 and Title 87.
- G. ZMM is not involved with any litigation or arbitration proceedings with the State of West Virginia General Services Division or any other State Agency related to the firm's delivery of design services.

ZMM is party to a lawsuit in McDowell County brought by residents close to a project designed by ZMM for the local school district. During the course of the construction work, which included the relocation of a WV secondary roadway, the WV Dept of Highways decided to provide a temporary roadway to bypass construction. This temporary by-pass, not designed or the responsibility of ZMM, allegedly caused dust and other issues for the plaintiffs.



**Role**

Relationship Manager

**Professional Registrations**

Registered Architect (WV, OH, KY)

LEED Accredited 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**

Joint Interagency Training and Education Center (JITEC)  
Bridgemont Community and Technical College - Davis Hall  
Construction and Facilities Management Office Expansion  
State Office Building #5, 10<sup>th</sup> Floor, Office of Technology  
New Kanawha County Elementary School

**Education**

Bachelor of Architecture;  
The Catholic University of America;  
1998

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

**Employment History**

2007 - Present, Vice President, ZMM

2007 - Present, Board of Directors, ZMM

2003 - Present, Architect, Project  
Manager, ZMM

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

**Civic Affiliations**

- American Institute of Architects, Member
- Habitat for Humanity Kanawha & Putnam County, Board of Directors 2011
- WV Qualification Based Selections Council, President-Elect, 2011
- Leadership WV 2010
- Charleston Rotary
- West Side Main Street, Board of Directors 2008-2010
- City of Charleston Land Trust 2008-2010
- West Side Elementary School LSIC, Volunteer

**Awards**

AIA Merit Award (2008): West Virginia  
Army National Guard Construction and  
Facilities Management Office Expansion





## Role

Principal, Engineering Management, Corporate Management

## Professional Registrations

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

In addition to corporate management, 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 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

### Joint Interagency Training and Education Center

**(JITEC):** 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 aiming for LEED Silver Certification. The project is served by a 4 - pipe hot and chilled water system with an energy recovery ventilation system.

**The Plaza at King of Prussia:** 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 -

## Education

Master of Science Architectural Engineering; Pennsylvania State University; 1976

Bachelor of Science Mechanical Engineering; West Virginia University; 1973

## Employment History

2010 - Present, President, ZMM  
1976 - 2010, Vice President and Engineering Principal, ZMM

## Civic Affiliations

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

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.

**NGK Oxygen Sensor and Spark Plug Plant:** 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.

**Regional Jails:**

**The Boulevard at 2412:** Mr. Doeffinger was on the design team for the proposed Kanawha Boulevard Condominium project. The sixty unit project, located in the East End Historic District, included a design that increased in height as it stepped back from the Kanawha River, providing the opportunity for a series of outdoor living areas, while also respecting the massing of the adjacent residences in the Historic District. Mr. Krason also assisted with developing marketing materials for the project.



## Role

Civil Engineer

## Professional Registrations

Professional Engineer (WV)

Ms. Cleland is responsible for the site design for ZMM projects. She coordinates with the project architects and mechanical and electrical engineers to integrate the site layout with the building requirements. Ms. Cleland works with the client and the architect to plan the site circulation, parking, and green space. She is responsible for storm water management and utility layout. For sites with environmental concerns, Ms. Cleland coordinates with the appropriate agencies and assists in permit applications.

Ms. Cleland began her career as a 2<sup>nd</sup> Lieutenant in the US Air Force as a project engineer for aerospace projects. After serving four years in the Air Force, she moved back to West Virginia and began her career in civil engineering. She began assisting lead engineers at an environmental and engineering consultant firm with air quality permitting, utility extension projects, and site development projects. After gaining experience at the consultant firm, Ms. Cleland joined ZMM as the civil engineer for the firm. She has experience with urban and rural site, storm water management system, and site design.

## Project Experience

**Harts PK-8 School:** Ms. Cleland was responsible for site design and permitting. The site was constrained by the Guyandotte River, State Route 10, and an unmarked cemetery in the middle of the site. The site was laid out to avoid disturbance of the cemetery and create a building pad and access roads to satisfy the client, State Fire Marshall, and vehicular circulation. The site preparation package included building pad grading, rough site grading, and storm water management. Ms. Cleland coordinated with the local utility agencies, WV Department of Transportation, the United States Army Corps of Engineers, the local floodplain manager, and the WV Department of Environmental Protection.

**Family Readiness Center (WVARNG):** Ms. Cleland was responsible for site design for a two story building located on a hillside. Due to the existing slopes, Ms. Cleland performed several analyses to determine the optimal finished floor elevations of the building. The building was set into the hillside to allow for on-grade access to both entrances. The access road was design

## Education

Bachelor of Science in Education,  
West Virginia State University, 2001

Bachelor of Science in Aerospace  
Engineering, United States Naval  
Academy, 1993

## Employment History

2009 - Present, Civil Engineer, ZMM

2002 - 2009, Project Engineer, Potesta &  
Associates, Inc.

1993 - 1997, Aerospace Engineer, United  
States Air Force

## Civic Affiliations

- National Society of Professional Engineers
- West Virginia Society of Professional Engineers

with handicap parking at both entrances. The client wanted the building to have the least impact as practical for the site development. A large segmental block wall was utilized to limit disturbance of cut slopes.

**West Side Elementary School:** Ms. Cleland was responsible for the site design and stormwater management for this site located within a city block. The site utilities were readily available and minimal grading was required for this site. The challenge was the stormwater management requirements. The pre-construction site conditions were a small school building and a large play field took up most of the site. The post- construction site conditions were the opposite creating a significant increase in stormwater runoff rate. A stormwater retention system was designed to infiltrate the majority of the stormwater and recharge the groundwater.

**Project Experience with Other Firms:** Ms. Cleland assisted with site development projects, utility extensions, pump station design, outlet structure design, and wastewater treatment plant design prior to coming to ZMM. In the eastern panhandle of West Virginia, Ms. Cleland designed the site layout and utilities for a planned hill side community with phased development plans. She assisted on the site utilities and sanitary sewer extension project for a two schools in Southern West Virginia.

Ms. Cleland also has experience with environmental investigations and air quality permitting. She assisted industrial clients with preparation and assembly of air permit application to the West Virginia Department of Environmental Protection. Ms. Cleland coordinated with the agencies through to permit issuance.



## 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

### Joint Interagency Training and Education Center

**(JITEC):** Mr. Casdorff 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. The project is targeted for LEED Silver Certification.

**Ripley Armed Forces Reserve Center:** Mr. Casdorff 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:** Mr. Casdorff was responsible for the electrical design of the 102,000 SF military training facility which houses the Armed Forces Reserve

## 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

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.

**West Virginia Housing Development Fund Office:** Mr. Casdorff 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 floorplan utilizing modular underfloor wiring to accommodate any future modifications of the workspace with minimal disruption to the employees. The project is targeted for LEED Silver Certification.

**Southside Elementary/Huntington Middle School:** Mr. Casdorff was responsible for the electrical design of the 3-story 158,000 SF building housing a combined 1,000 elementary and middle school students. The facility currently sits on the site formerly occupied by two existing schools which served as community landmarks. The new building replaces the respected landmarks with a new state of the art facility embracing the architectural character and charm of the community.

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

**Lincoln County Comprehensive High School:** Mr. Casdorff 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.

**J.M. Chick Buckbee Juvenile Center:** Mr. Casdorff was responsible for the electrical design of the maximum security juvenile detention center. The single story 26,000 SF facility houses intake, medical care, recreation, food service and offers educational programs to help rehabilitate young individuals.

**Gene Spadaro Juvenile Center:** Mr. Casdorff was responsible for the electrical design of the minimum security juvenile detention center which offers a softer approach to rehabilitation relying more on the affection from the caregivers than the restraints of lockdown helping young individuals make better life decisions.

**Lakin Correctional Facility for Women:** Mr. Casdorff was responsible for the electrical design of a dormitory style expansion on site of an existing correctional facility built exclusively for women. The new 124 bed, 24,000SF dormitory style housing unit provides ample amenities and a culinary arts program for the inmate population. An additional 9,500 SF Correctional Industries building was located near the dormitory and offers a garment, sewing and embroidery factory and manufactures inmate clothing, linens and office chairs.



## Role

Lighting Designer and Electrical Technician

## Professional Registrations

Master Electrician – WV License #M02891

Lighting Certification with the National Council on Qualification for Lighting Professionals (NCQLP)

Mr. Abernethy is responsible for overseeing the design of the Lighting and Electrical systems, ensuring that the Electrical systems not only meet the program requirements, but meet the long-term needs of the owner. He performs lighting, electrical and low voltage systems design, electrical load calculations and specifies the type of systems to be incorporated into the building. He coordinates with the other disciplines in order to integrate the Lighting and Electrical systems into the building. Mr. Abernethy has participated on several LEED registered projects; one of his key contributions to these projects is designing lighting systems that comply with energy codes and LEED requirements.

Mr. Abernethy began his career in engineering with ZMM in 1968.

From 1970 through 1971 he was a construction drafting specialist and model maker in the US Army and after his honorable discharge in 1972 he became a staff engineering designer for FMC Inorganic Chemicals Corporation. In 1973 Mr. Abernethy returned to ZMM. He has a broad range of experience in the design and construction of commercial lighting and electrical systems, including K-12 schools, higher education facilities, industrial, manufacturing, military, commercial offices, malls and large retail facilities. Mr. Abernethy also has five years of experience as the office manager, estimator and purchasing agent for a highway lighting and traffic signal construction company.

## Project Experience

### Joint Interagency Training and Education Center

**(JITEC):** Mr. Abernethy was responsible for the interior and exterior lighting design of both the billeting expansion and the operations training center. The project utilizes less than .8 watts/SF for interior lighting, which has helped reduce energy consumption on the project by 40% compared to a baseline analysis.

### WV State Capitol Buildings #5, 6, & 7 - Electrical

## Education

Associate in Science Drafting and Design Engineering Technology; 1997  
West Virginia Institute of Technology,  
Montgomery, WV

Illuminating Engineering Society of North America (IESNA), Certificate of Technical Knowledge (TKE); 1996

## Employment History

1992 - Present, Lighting Designer and Electrical Technician, ZMM

1988 - 1992, Estimator and Purchasing Agent, WV Signal and Light

1973 - 1988, Lighting and Electrical Designer, ZMM

1972 - 1973, Draftsman and Designer, FMC Inorganic Chemicals Division

## Civic Affiliations

- Illuminating Engineering Society of North America – 15 Yr. Member
- Elder and Session Member – First Presbyterian Church, Charleston, WV

**Switchgear up-grades:** Mr. Abernethy was the project manager, designer and field investigator for a large medium and low voltage electrical switchgear emergency replacement which was accomplished over a long 2009 New Year's weekend.

**Saint Albans High School:** Mr. Abernethy was responsible for the initial electrical survey to determine the extent of demolition prior to reconstructing the school. As the lighting and electrical designer, he was responsible for ZMM receiving an IESNA Sectional Award for the building lighting design.

**Lincoln County Comprehensive High School:** Mr. Abernethy performed the lighting and electrical design for this award winning ZMM project. The facility is a comprehensive school containing high school classes, vocational education, community technical college classes and a community health clinic.

**NGK Oxygen Sensor and Spark Plugs Plants:** Mr. Abernethy has been the chief lighting and electrical designer for several projects for NGK. He was the designer for the initial Oxygen Sensor Plant and subsequent up-grades as well as the new Spark Plugs Plant and its continuing up-grades.





## Role

Structural Engineer

## Professional Registrations

Professional Engineer (WV)

Mr. Hedrick is responsible for overseeing the design of the Structural systems, ensuring that the structural systems not only meet the building code requirements, but meet the long-term needs of the owner. He performs the analysis and design of the structural components to resist the loads from lateral and gravity forces. He coordinates with the other disciplines in order to integrate the Structural system into the building, working with the architects to determine the most economical way to construct the components of the building. Mr. Hedrick has participated on several LEED registered projects. Mr. Hedrick also oversees the work of other engineers and coordinates the office structural standards.

Mr. Hedrick began his career in structural engineering by designing large scale residential and light commercial structures for hurricane force winds. He has a broad range of experience in masonry, concrete, steel and timber design. In 2007, Mr. Hedrick moved back to Charleston, WV, to take a structural engineering position with ZMM where he supervises the design and production of the structural engineering projects.

## Project Experience

**Joint Interagency Training and Education Center (JITEC):** Mr. Hedrick was responsible for the overall structural design of the three story billeting addition. The project met the requirements of the building code along with the additional requirements of the Department of Defense for blast and progressive collapse resistance.

**Ripley Readiness Center:** Mr. Hedrick was responsible for the overall structural design of the single story armory type structure. The project included the design of light weight metal trusses and long-span steel joists in the drill hall.

**West Virginia House Development Fund Building:** Mr. Hedrick was responsible for the overall structural design of the two story steel frame and masonry building. The structure consisted of a composite concrete floor slab supported by steel beams and columns supported on a deep pile foundation.

## Education

Master of Science; Civil Engineering,  
University of Tennessee; 2003

Bachelor of Civil Engineering;  
West Virginia Institute of Technology;  
2001

## Employment History

2007 - Present, Structural Engineer, ZMM  
2003 - 2007, Structural Engineer, McCall  
Engineering, Inc.

## Civic Affiliations

- American Institute of Steel  
Construction, Member

**Huntington East Middle School:** Mr. Hedrick was responsible for the overall structural design of the single story school building. The design included masonry wall, metal panel walls and storefront glazing in order to allow additional light for the LEED designed project.

**Other Project Experience:**

Mr. Hedrick has researched and developed design criteria for structural insulated panels, prepared designs for earthquake and wind on FRP tanks. His role has also included supervising the work of design engineers in preparation of construction documents.



## Role

Project Architect

## Professional Registrations

Registered Architect (WV)

LEED Accredited Professional

Mr. Walker is responsible for overseeing the planning, design, and construction of a variety of types of building projects to meet the needs of the clients. Mr. Walker works with other in-house engineers and design professionals throughout the building process to provide a thoroughly integrated product. Mr. Walker also coordinates with various consultants, code officials, and government agencies to provide a quality building.

Mr. Walker has broad experience in scopes of both new and renovation projects throughout his years at ZMM.

## Project Experience

**Family Readiness Center – West Virginia Army National Guard:** Mr. Walker was responsible for the design of a two story building set on a sloped hillside. The new facility will provide a variety of offices and public spaces including a chapel, multi-purpose area, a lobby, and a lounge.

**The Retreat at Glade Springs Resort:** Mr. Walker was responsible for the design of a variety of townhouses assembled into a multi-unit building that fit into the hilly terrain of the site.

**Barboursville Middle School:** Mr. Walker was part of the design team that was responsible for designing a replacement building for the existing middle school. The design required that the new school building be built where the existing building was occupied on the same size. An existing large gymnasium was renovated and incorporated into the next education complex.

## Alderson Federal Prison Camp - New Housing Units :

Mr. Walker was responsible for the design of two new 500 bed housing units. These units were constructed on the historical site of the first federal prison for women. The prison was in operation during the new construction of both housing units.

## Blackwater Falls and Cacapon WV State Parks: Mr.

Walker was responsible for the design of additions to the existing

## Education

Bachelor of Science Architecture;  
1973

The University of Cincinnati

## Employment History

1979 - Present, Project Architect, ZMM

1977 - 1979, Designer, ZMM

1977, Designer, Holderby Engineering

1973 - 1976, City Planning, American  
Peace Corps, Iran

## Civic Affiliations

- American Institute of Architects, Member
- West Virginia Society of Architects, Member
- Charleston Salvation Army advisory board 1990 – Present
- Advisory Board Chairman 1997 - 1998

historical lodge building for the two state parks. Mr. Walker incorporated new meeting rooms, elevator, pool and health spas into the existing lodge building and incorporated various renovations to existing buildings to make the buildings more usable for large groups.

**Braxton County Memorial Hospital:** Mr. Walker has worked on a variety of additions and renovations projects at the hospital. The renovations and additions were completed on the emergency room floor, medical surgical, radiology, laboratory, and outpatient areas while the hospitals departments were kept in operation.

**Awards and Acknowledgements:**

Design Award Received from the Corps of Engineers for: The Stonewall Jackson State Park Facilities

Mr. Walker received recognition in the *Charleston Gazette* Newspaper for his own home residence, which incorporated "passive solar" and other "Green" Design principals.



**Role**

Construction Contract Administrator

Mr. Savage is responsible for overseeing the construction of ZMM projects. He is the liason between the Owner and Contractor. Responsible for biweekly site visits, attend progress meetings, certify applications for payment, change order processes, Request for information.

Mr. Savage has performed construction administration services on a variety of building types including: Educational Facilities, Correctional Facilities, and Office/Light Industrial Facilities.

Mr. Savage's past experience in the construction testing and environmental fields is a benefit to clients during the site preparation and foundation installation.

**Project Experience**

- Highland Hospital
- Summersville Hospital Medical Building
- Mountaineer Middle School
- Nicholas County High School
- East Greenbrier High School
- Gauley Bridge Elementary
- Cacapon State Park
- Blackwater Falls State Park
- Ronceverte Elementary School
- Mount View High School
- Western Regional Jail
- Alderson Federal Prison Camp
- Jean Dean Safety/Law Enforcement Building

**Education**

Bachelor of Science, University of Charleston, 1997

Associate of Science, West Virginia State University, 1992

**Employment History**

1998 - Present, Construction Contract Administrator, ZMM

1997-1998, Geotech

1992 -1997, Battle Ridge Construction

1981-1992, H. C. Nutting Geotechnical Testing Engineers

**Civic Affiliations**

- Member CSI
- Kanawha Valley Leadership Course Graduate
- Maintained all certifications for WVDOT testing materials

# Quality Assurance



At ZMM, we strive to be the best. Our Quality Assurance Program is one step in the process of exceeding our clients' expectations. Our QA/QC Program is led by Mr. Steve Branner, AIA and Mr. Rod Watkins, REFP, both Principals of the firm, who combined bring more than 80 years of experience ensuring the quality of every ZMM project.

## **1. Selecting the Project Team**

ZMM's diverse staff ensures that each project team is made up of highly qualified members, each dedicated to the project's success. Project team members are selected based upon relevant experience, and ability to help achieve the client's vision.

## **2. Identifying Project Requirements**

Project team members are fully integrated in each phase of the design process, ensuring a quality project from the beginning, to take advantage of early sustainable design decision-making. The project requirements are included in a 'Basis of Design' that each member of the project team can access. The 'Basis of Design' helps guide important project decisions.

## **3. Identifying Client Expectations**

Knowing and understanding our clients' expectations is our goal. This knowledge gives ZMM a baseline for exceeding expectations.

## **4. Ongoing Project Reviews**

As part of the ongoing project reviews, we conduct quality assurance evaluations during each stage of the project:

- Schematic Design Phase
- Design Development Phase
- Construction Documents Phase
- Construction Administration Phase

ZMM has developed a series of QA/QC review documents that are completed during each phase, and include a programmatic review, technical review, and review of the project schedule and budget.

## **5. Post Project Review**

At the completion of every project, ZMM staff members participate in a learning session to gain insight useful for future projects. These reviews typically include participation from the owner and the contractor

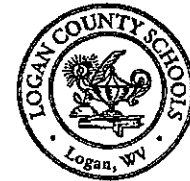
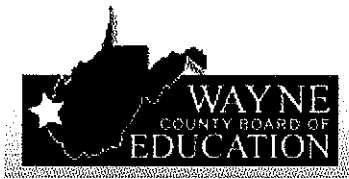
## **6. Staff Training, Assessment and Enhancement**

Ongoing staff development and training is very important to ZMM. Providing increased opportunities for learning and advancement leads to improved employee performance more successful projects.

# Quality Assurance



The quality of our work is key to our continued success and repeat client base.





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 eight 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.

**ZMM offers the following professional 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  
Structural Engineering  
Mechanical Engineering  
Electrical Engineering  
Civil Engineering  
Lighting Design  
Energy Consumption Analysis





Redesign of East Campus Parking Lots  
RFQ# GSD116434



# Redesign of East Campus Parking Lots - GSD116434

## Proposed Design Schedule

Activity	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Project Kick-Off with State GSD	█											
Geotechnical Investigation	█											
Survey	█	█										
Utility Investigation	█	█	█									
Accessibility Investigation	█	█	█	█								
Coordinate with City and CSB												
Review Preliminary Parking Layout						█						
Construction Documents						█	█	█	█	█		
Review Scope and Budget										█		
Final Revisions											█	█



# WEST VIRGINIA CAPITOL COMPLEX

BUILDINGS 5, 6, & 7



LOCATION:  
Charleston, West Virginia

SIZE:  
500,000 SF

COMPLETION:  
TBA

CONTACT:  
Mr. David Oliverio  
Director  
General Services Div.  
Division  
1900 Kanawha Blvd. E  
Charleston, WV 25305  
304.558.3517



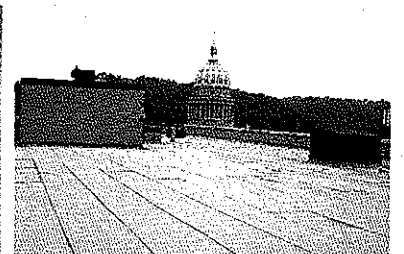
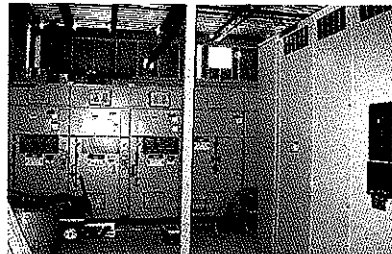
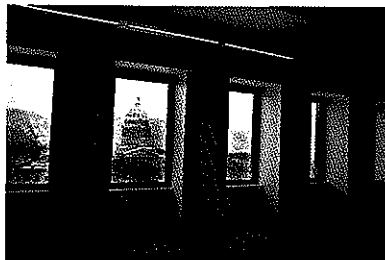
ZMM recently completed an in-depth analysis of Buildings 5, 6, and 7 on the Capitol Campus. The study included the preparation of as-built plans, as well as an analysis of all building systems, including: Life Safety; Vertical Transportation; Mechanical; Electrical; Data; Façade; Structure; and Roofing. The analysis also included a study related to potential hazardous materials in the facility.



Once the initial analysis is complete, ZMM will develop several options related to the rehabilitation of the existing facility. Prototypical floor plans are being designed currently as well as major infrastructure and utility upgrades. ZMM is also determining sustainable design principles that will be applicable as the renovations are undertaken.

ZMM also completed the following work:

Installation/Electrical Services for the Electrical Courtyard Installation, Window Replacements and an Assessment for the State Office Buildings, Roofing Replacement, Retaining Wall as well as complete Renovations to Building #5, 10th floor - Office of Technology.



# State Office Building #5, 10th Floor

Office of Technology



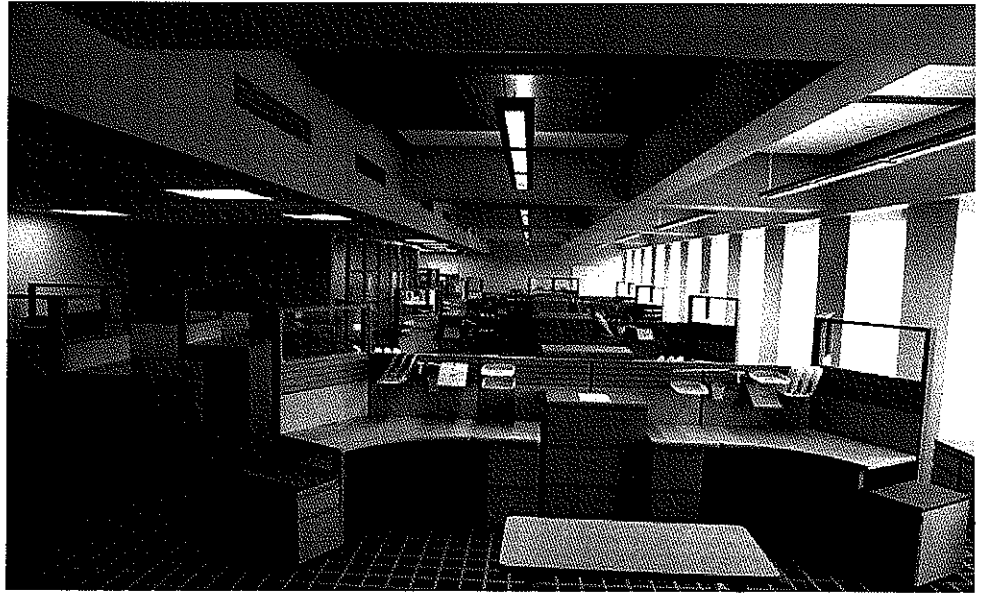
LOCATION:  
Charleston, WV

SIZE:  
22,000SF

COST:  
\$3.7M

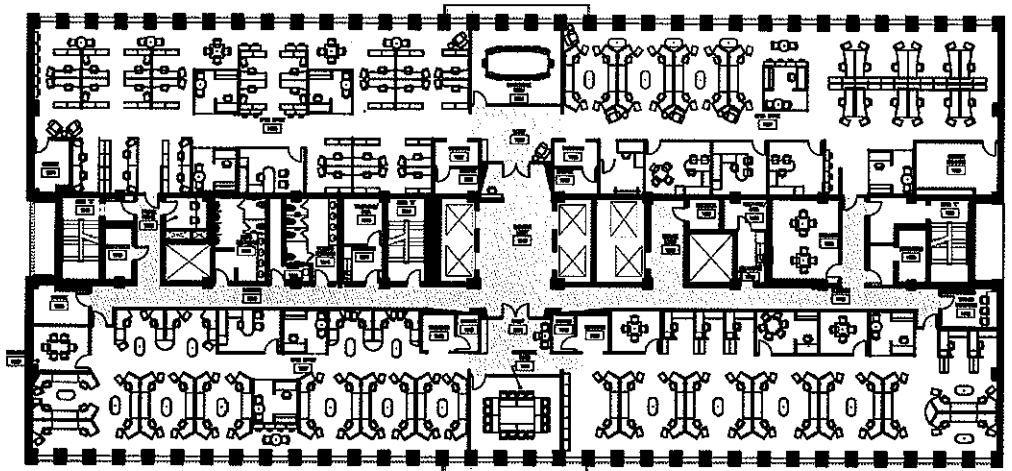
COMPLETION:  
2010

CONTACTS:  
Mr. David Oliverio  
Director  
General Services  
Division  
1900 Kanawha Blvd. E  
Charleston, WV 25305  
304.558.3517

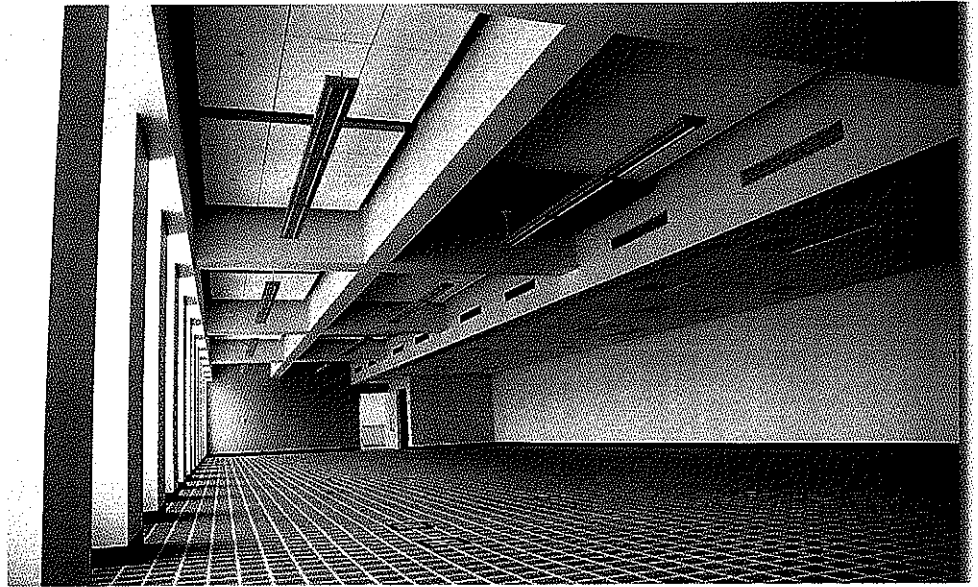


The renovation of the tenth floor of State Office Building #5 on the State of West Virginia Capitol Campus was recently completed for the Office of Technology. The renovation was designed to meet the United States Green Building Council's LEED for Commercial Interiors standard. To commence the project, 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. Continued...



# 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 work-room 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.





LOCATION:  
Charleston, West Virginia

SIZE:  
14,000 SF

COST:  
\$3.7 Million

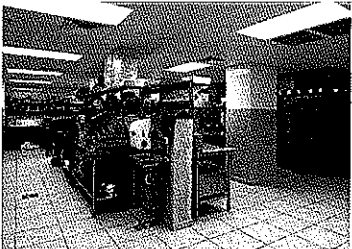
COMPLETION:  
2007

CONTACT:  
Mr. David Oliverio  
Director  
General Services Div.  
1900 Kanawha Blvd. E  
Charleston, WV 25305  
304.558.3517



This project involved renovating an existing food service area in the WV Capitol Building. The new renovations include a full service kitchen, self serve area and seating for 300 people. ZMM worked with a kitchen consultant and provided demolition drawings, base architectural, mechanical and electrical drawings.

The project included design of the first phase of a wet pipe sprinkler system that will serve the entire Capitol. ZMM also provided the documents to replace the Capitol medium voltage transformers located in the basement vault. ZMM met stringent timeline for a critical construction completion date.



# West Virginia Housing Development Fund

Office Building



LOCATION:  
Charleston, West Virginia

SIZE:  
36,000 SF

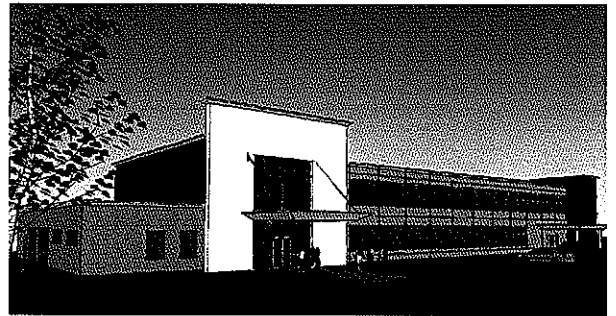
COST:  
\$8.5M

COMPLETION:  
Est. June 2011

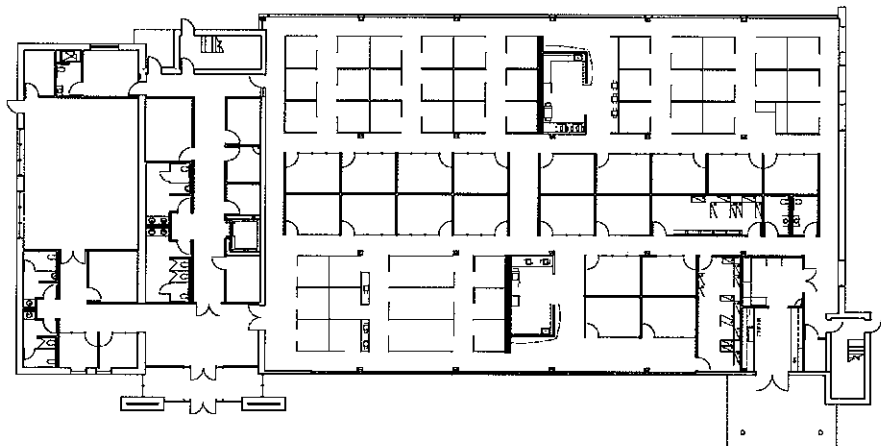
CONTACT:  
Nancy Parsons  
Senior Director of Asset  
Management  
814 Virginia Street, East  
Charleston, WV 25301  
304.345.6475



This project is presently designed to house approx. 95 to 100 employees in 36,000 square feet of new space in Charleston's Kanawha City neighborhood. The building will be a 2 story, steel framed structure with natural daylighting of interiors, and is anticipated to be LEED Certified.



The access floor system, demountable partitions, and employee cubicles will give the office space total flexibility and will accommodate future reallocation of space as needed without interruption to coworkers. The site consists of 2 acres and will accommodate approx. 110 employee and visitor vehicles, and is located on a former industrial site





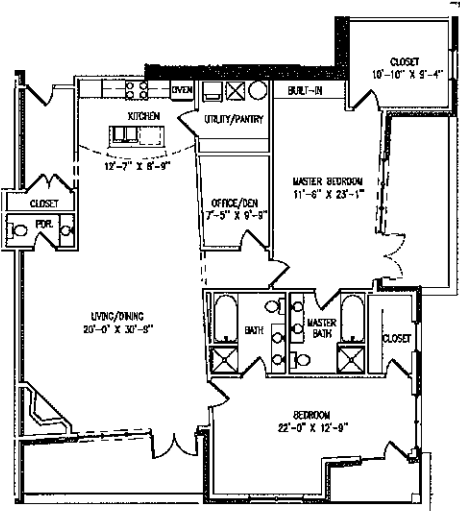
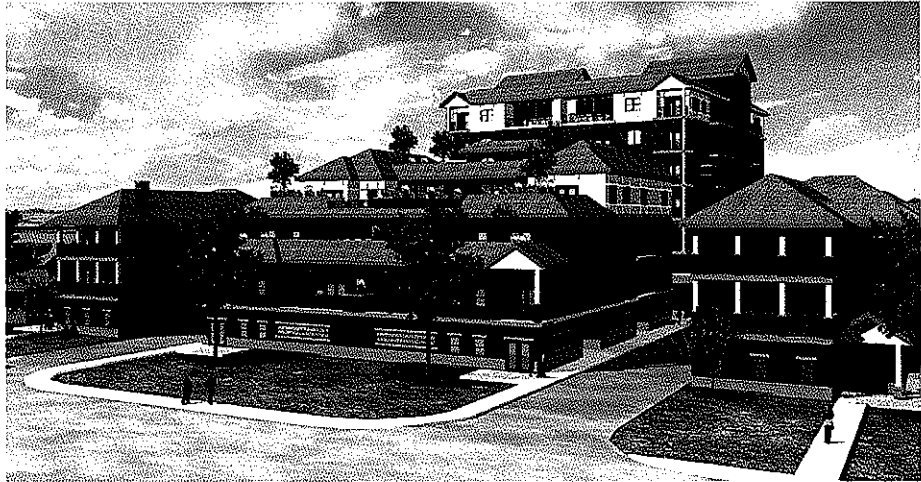
# The Boulevard at 2412

Multi-Unit Housing



LOCATION:  
Charleston, West Virginia

CONTACT:  
2412 Kanawha Blvd, East  
Charleston, WV 25311  
304.343.2412



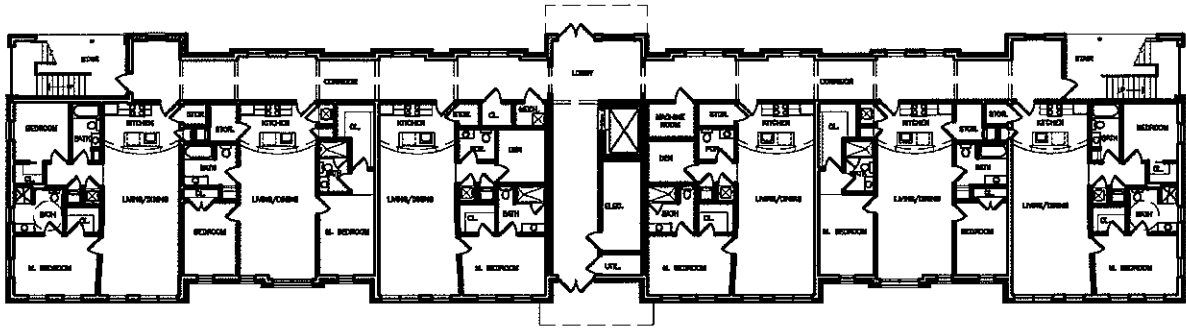
The Boulevard @ 2412 is a proposed mixed-use development on Kanawha Boulevard located in Charleston's East End. When completed, the development will include the construction of sixty new residential units and professional office space.



The scope of the development encompasses nearly one-half of the city block between Chesapeake Avenue, East Avenue, Kanawha Boulevard, and Washington Street East. Four of the twenty lots targeted for development fall within the East End Historic District.

The following features have been included in the conceptual design to integrate the development into the East End Historic District:

- The building massing has been broken down into a series of smaller volumes, making the overall plan more compatible with existing structures in the neighborhood. The design was developed with a goal of maintaining a residential scale along Kanawha Boulevard.
- Off street parking has been developed primarily to the rear of new structures, and will not be visible from Kanawha Boulevard.





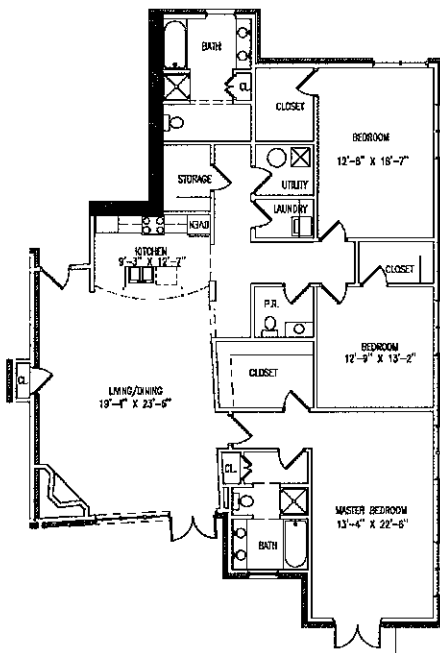
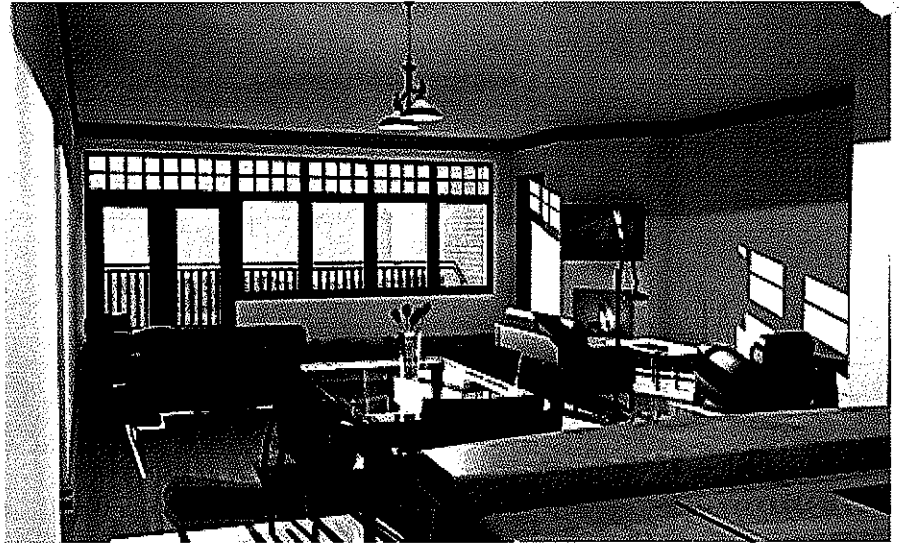
# The Boulevard at 2412

## Multi-Unit Housing



LOCATION:  
Charleston, West Virginia

CONTACT:  
2412 Kanawha Blvd, East  
Charleston, WV 25311  
304.343.2412



- The architectural aesthetic of the new buildings is being developed in a way that reflects existing buildings (i.e. similar materials, geometries, setbacks, etc.). Additionally, the character of the overall elevation along Kanawha Boulevard will be improved as the new development completes existing "gaps" in the streetscape.

- The massing of the new development has been designed in a way that responds to and respects the massing of the adjacent residential properties. By using the existing adjacent properties to inform the aesthetic and material choices for the new project, the characteristics of the East End Historic District are incorporated throughout the new development. Architectural salvage will be undertaken at the site of the family home (2412) to preserve the distinctive framing members and terra-cotta roof tile. Where possible, these elements will be incorporated into the new development.



# Construction & Facilities Management Office

WVARNG



LOCATION:  
Charleston, West Virginia

SIZE:  
19,935 SF

COST:  
\$3.5 Million

COMPLETION:  
2008

CONTACT:  
M.G. Melvin L. Burch  
WVARNG  
1707 Coonskin Drive  
Charleston, WV 25311  
304.561.6450

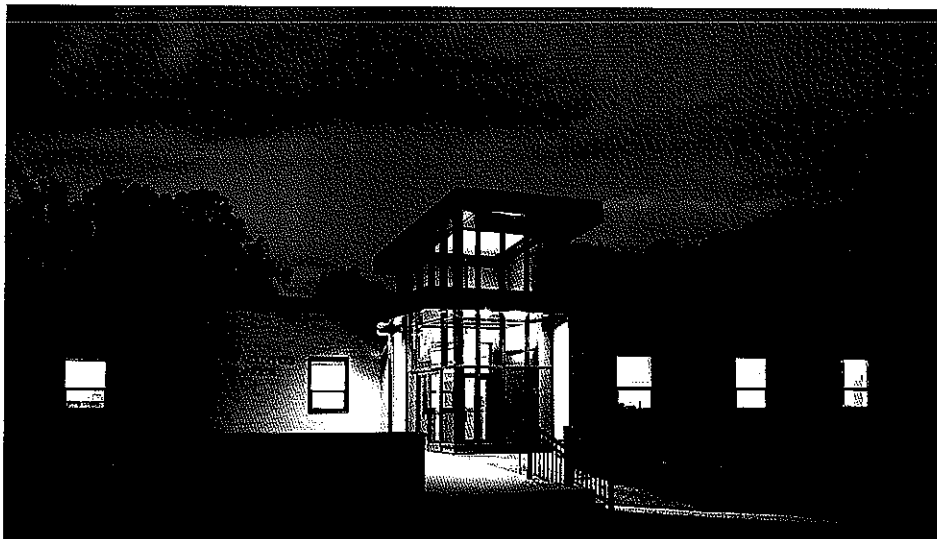
AWARDS:  
2009 AIA Merit Award  
West Virginia Chapter  
*Achievement in Architecture*



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.



# West Side Elementary School

Kanawha County Schools



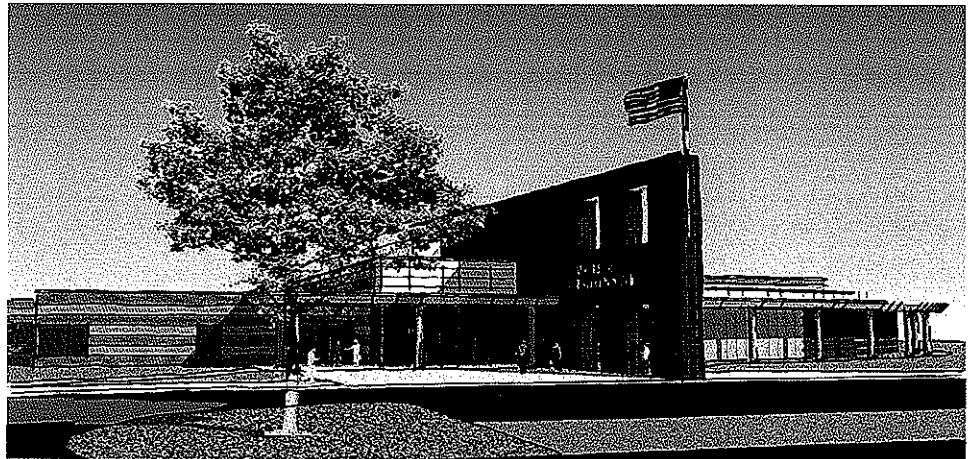
LOCATION:  
Charleston,  
West Virginia

SIZE:  
66,400 SF

COMPLETION:  
Est. 2011

COST:  
\$14 Million

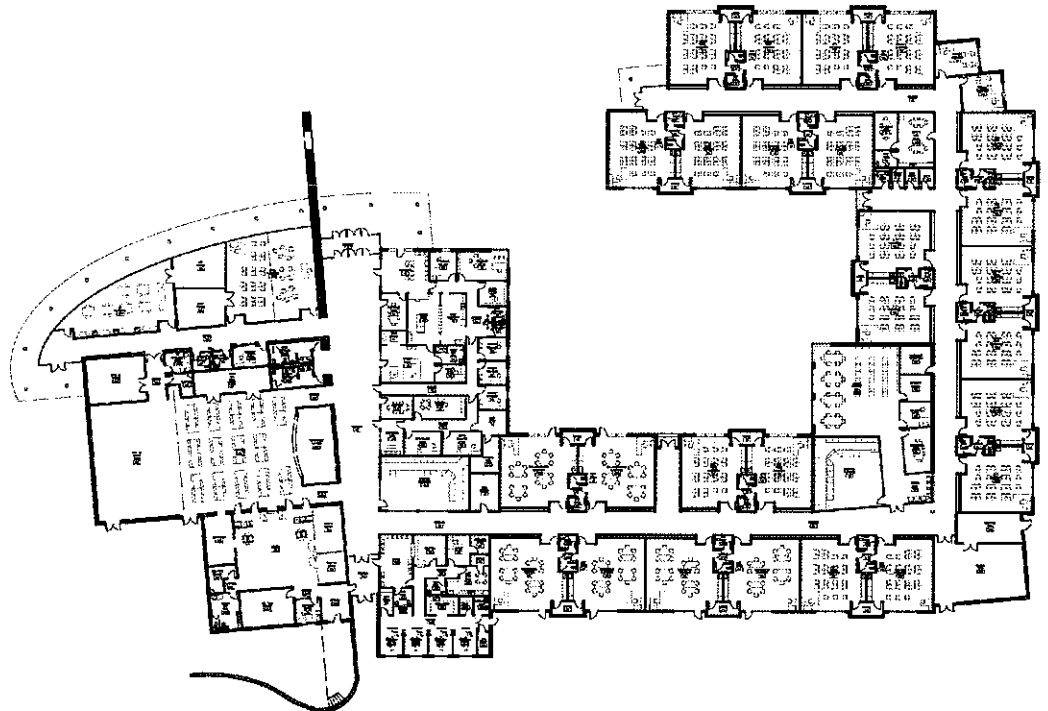
CONTACT:  
Dr. Ronald Duerring  
Superintendent  
200 Elizabeth Street  
Charleston, WV 25311  
304.348.7732



This new Elementary School will for the west side of Charleston will serve 380 students from pre-Kindergarten through 5<sup>th</sup> grade. The new school includes a commons/cafeteria space with an area for student performances, an activity room for Physical Education, full kitchen, Media Center, art room and music room.

Each classroom has its own restroom allowing teachers to have close supervision of the students. The new school will be a focal point in the community and will provide office space, meeting rooms and a computer classroom for adult education for neighborhood patrons.

A unique feature of this school is a complete dental clinic dedicated to serving the students of other local county schools. Each classroom has large windows for natural light, which studies have shown increased student achievement and teacher morale and reduce absenteeism.



# VETERANS MEMORIAL

*West Virginia State Capitol Complex*



LOCATION:  
Charleston,  
West Virginia

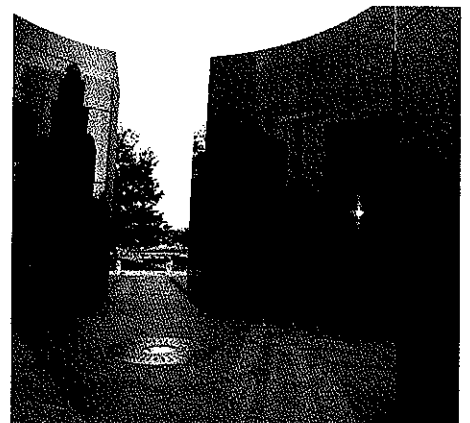
COMPLETION:  
1997

CONTACT:  
Mr. David Oliverio  
Director  
General Services Div.  
1900 Kanawha Blvd. E  
Charleston, WV 25305  
304.558.3517



ZMM provided architectural, structural, civil, and electrical design services for this project. The location of the memorial is placed on the West Virginia State Capitol Complex. The memorial design was conceived by local artist/sculptor P. Joseph Mullins.

This project is a memorial to those citizens of West Virginia that defended the United States of America in the four major wars of the 20th century: WWI, WWII, Korean Conflict, and Vietnam. It is constructed of granite and limestone and reinforced masonry. This memorial pays tribute to the lives lost by engraving each name of the soldier into the interior curved facing. The exterior alcoves showcase four soldier sculptors representing each branch of the military: Army, Navy, Air-force, and-Marines.



# Tackett Family Readiness Center

WVARNG



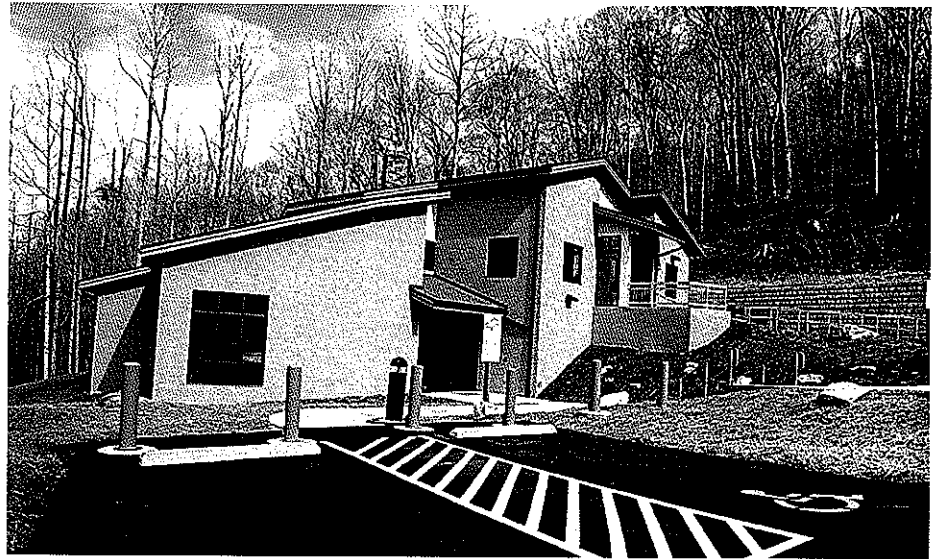
**LOCATION:**  
Charleston,  
West Virginia

**SIZE:**  
7,400 SF

**COMPLETION:**  
February 2011

**COST:**  
\$1.57 Million

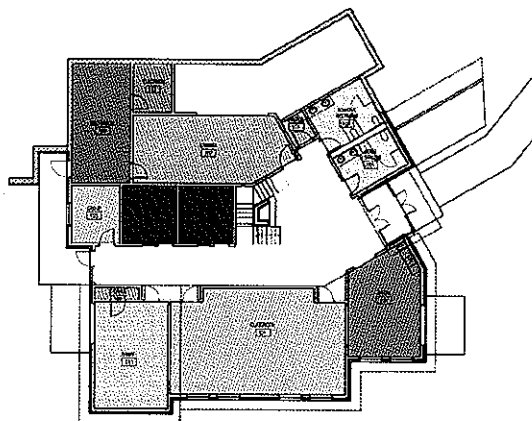
**CONTACT:**  
MG Melvin L. Burch  
WVARNG  
1707 Coonskin Drive  
Charleston, WV 25311  
304.561.6450



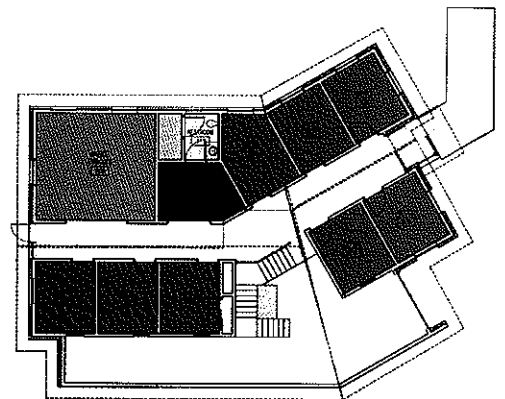
The Family Support Center is a two story brick building with a sloped roof stepped into the wooded hillside adjacent to the Army National Guard facilities in Charleston, West Virginia.

The building is designed to provide for a multitude of military family assistance, guidance, education, training, and mentoring programs.

The support center contains 11 office spaces, a chapel, and a variety of classroom and meeting spaces for various programs. The building provides an abundance of natural light and a central fireplace to project a warm comforting and supportive atmosphere.



Lower Level



Upper Level

# West Virginia Air National Guard Headquarters

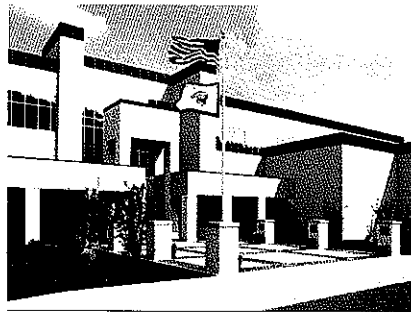
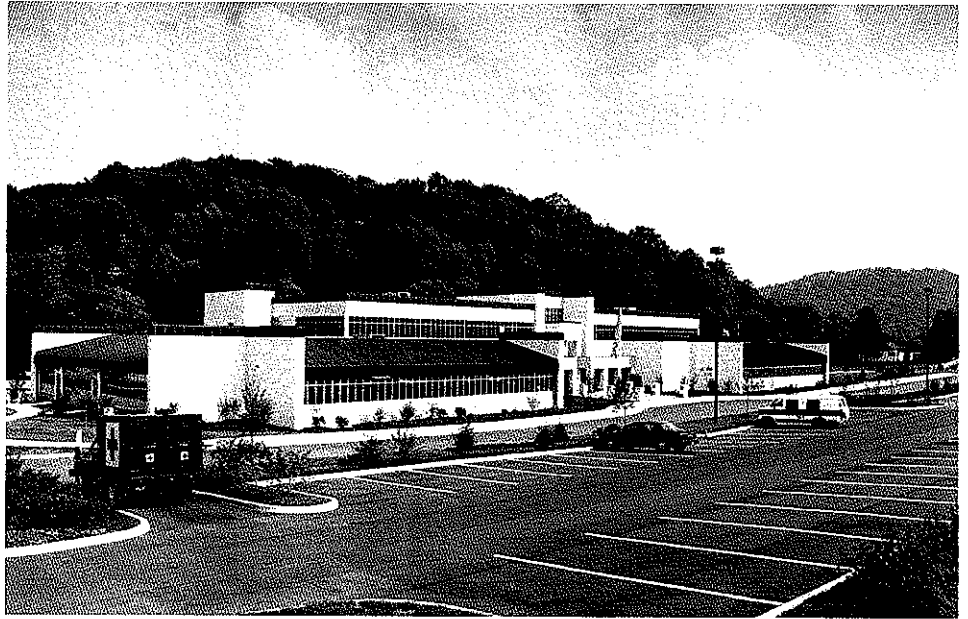


**LOCATION:**  
Charleston, West Virginia

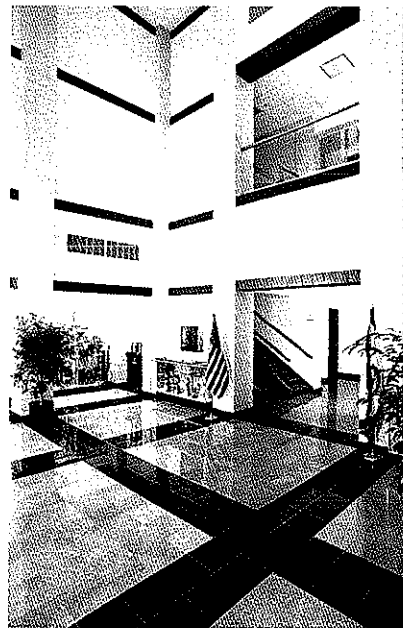
**SIZE:**  
90,000 SF

**COMPLETION:**  
1993

**CONTACT:**  
General Alan Tackett  
WVARNG  
1679 Coonskin Drive  
Charleston, WV 25311  
304.341.6000

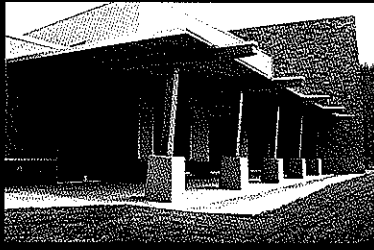


The main façade upon approach to the Headquarters of the 130th Airlift Group includes an end-to-end expanse of ribbon windows interrupted by a vertical tower that includes a multi-story curtain wall system. The remainder of the façade is clad in masonry and insulated metal panels that emphasize the solid, secure nature of the facility.



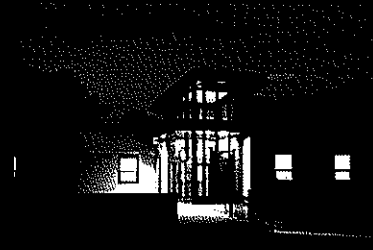
The building contains administrative offices, conference rooms, computer rooms, a clinic, locker and shower rooms, as well as recruiting offices for Air Force personnel. Direct digital controlled HVAC systems save energy by reducing temperatures in areas occupied intermittently.

# Award Winning Design



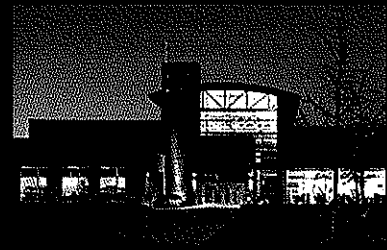
2010

Hacker Valley PK-8 School  
Hacker Valley, WV  
2010 - Honor Award  
*"Excellence in Architecture"*  
AIA West Virginia Chapter



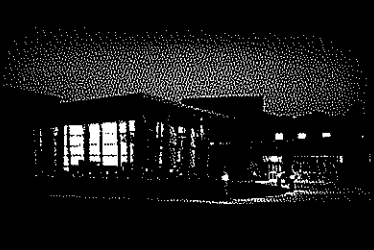
2009

Construction & Facilities  
Management Office  
Charleston, WV  
2009 - Merit Award  
*"Achievement in Architecture"*  
AIA West Virginia Chapter



2008

Erma Byrd Center  
Beckley, WV  
2008 - Honor Award  
*"Excellence in Architecture"*  
AIA West Virginia Chapter



2007

Lincoln County High School  
Hamlin, WV  
2007 - Honor Award  
*"Excellence in Architecture"*  
AIA West Virginia Chapter  
Education Design Showcase  
*"Project of Distinction Award"*  
American School & University  
*"Outstanding Building Design"*



2006

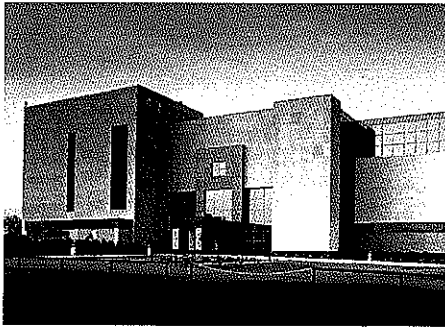
Gene Spadaro  
Juvenile Center  
Mount Hope, WV  
2006 - Merit Award  
*"Achievement in Architecture"*  
AIA West Virginia Chapter



2004

St. Albans High School  
St. Albans, WV  
2004 - Impact in Learning Award  
*"Effective Transformation"*  
Education Design Showcase  
*"Outstanding Building Design"*  
American School & University  
*"Outstanding Building Design"*

## Additional Award Winning Design



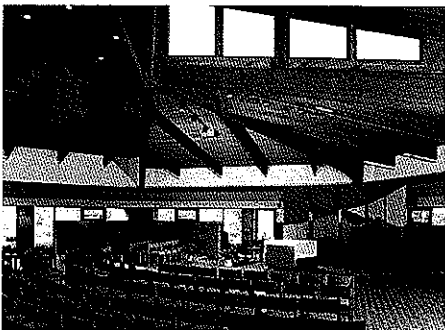
### **West Virginia Society of Architects Design Honor Awards**

**Corporate Headquarters Facility**  
Blue Cross / Blue Shield of West Virginia  
Charleston, West Virginia

**John XXIII Pastoral Center**  
Wheeling-Charleston Diocese  
Charleston, West Virginia

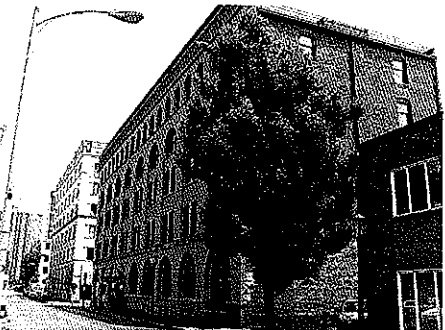
**Corporate Office Building**  
Contractors' Association of West Virginia  
Charleston, West Virginia

**One Bridge Place Office Renovation**  
Fisher-Bryson Properties  
Charleston, West Virginia



**United States Navy  
Admiral's Commendation  
Operations Building Alterations**  
Naval Security Group  
Sugar Grove, West Virginia

**Construction Specifications Institute  
Honorable Mention  
Restoration and Renovation Projects**  
Cottage Renovations to Federal Prison Camp  
Alderson, West Virginia



**Stonewall Jackson Lake  
Merit Award  
Design and Environmental Program**  
Recreation Area Basic Park  
Weston, West Virginia





## Client References

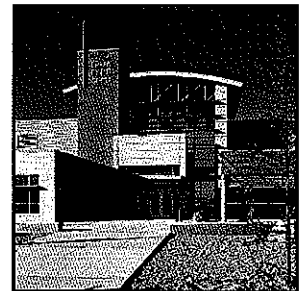
**Construction & Facilities Management Office** - The Construction and Facilities Management Office (CFMO) Expansion project will bring all of the operations of the CFMO together under one roof. The branches that will occupy this facility include: Director of Engineering, Environmental, Planning and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

MG Melvin L. Burch  
WV Army National Guard  
1707 Coonskin Drive  
Charleston, WV 25311  
304.561.6450



**Erma Byrd Center** - The Erma Byrd Center for Public Higher Education is the first building of its kind in the state. The 33,000 square foot center provides students the convenience of taking a variety of college classes offered by six different college and universities in a single location. 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 will become a campus for public higher education.

Thomas S. Acker S.J.  
Executive Director  
The Higher Education Foundation  
200 Main Street  
Beaver, WV 25801  
304.929.2010



**Southside Elementary/Huntington Middle School** - The two schools that previously occupied the site of the New Southside Elementary School and Huntington Middle School were known as Cammack Elementary School and Cammack Middle School. The new facility houses a combined 1,014 Elementary and Middle School students. When the Cabell County Board of Education proposed a \$61M bond issue in 2006, the Huntington community expressed the importance of saving this neighborhood landmark. The new facilities were designed to blend with the architectural character of the existing facility. More than 70% of the existing building was demolished and the portion remaining was completely renovated.

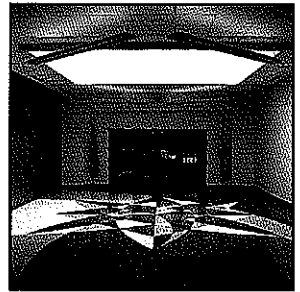
Mr. William A. Smith, Superintendent  
Cabell County Schools  
2850 5th Avenue  
Huntington, WV 25702  
304.528.5030



## Client References

**Judge Black Courthouse Annex-** The Judge Black Annex project involved renovating an existing commercial building into county office and courtroom space for the Sheriff's Tax Office, Assessor's Office, Prosecuting Attorney's Office, and the Family Court. The design provided both secure and non-secure circulation, while taking advantage of the existing structural configuration to create large open volumes that lend the building prominence.

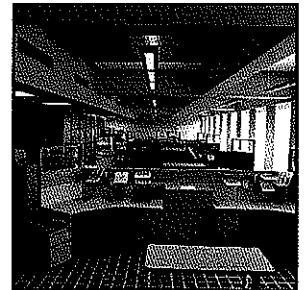
Mr. Rick Modesitt  
Former Commissioner  
No. 1 Court Square Suite 203  
Parkersburg, WV 26101  
304.481.4035



### **State Office Building #5, 10th Floor (Office of Technology) -**

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 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.

Mr. David Oliverio, Director  
General Services Division  
1900 Kanawha Blvd. East  
Charleston, WV 25305  
304.558.3517



RFQ No. GSD 116434

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**West Virginia Code §5A-3-10a states:** 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

**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.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "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.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this 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.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: ZMM, Inc.

Authorized Signature: Ad RK Date: 28 FEB 2011

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 28<sup>th</sup> day of February, 2011.

My Commission expires 10-6, 2018

**AFFIX SEAL HERE**

NOTARY PUBLIC Lisa E. Bowles

