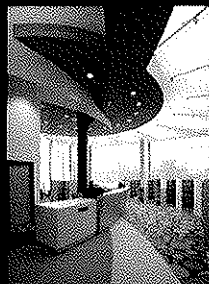
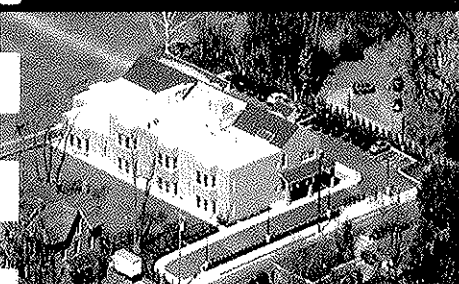
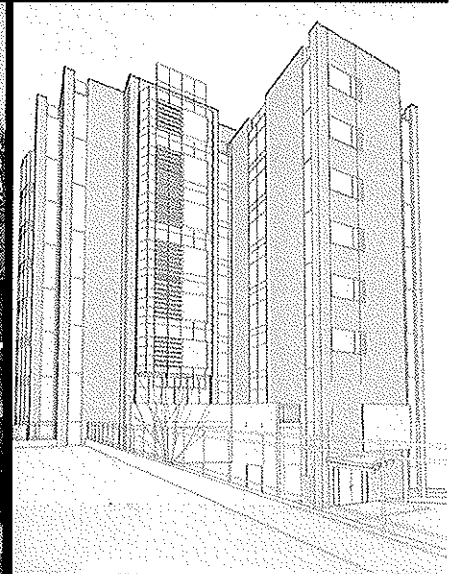
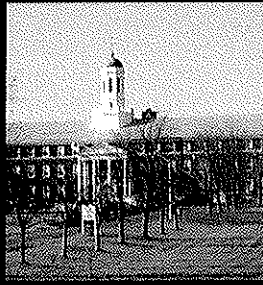
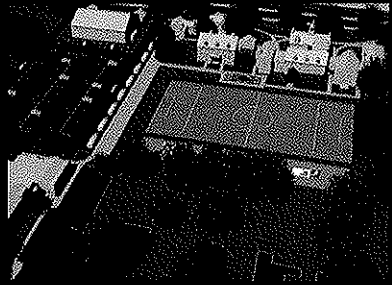




Statement of Qualifications  
for:  
West Virginia Schools for the Blind and the Deaf  
RFQ# DBSM111059



**ZMM &**   
Winter & Company  
Specialty Construction

RECEIVED  
2011 APR 12 AM 9:09  
WV PURCHASING  
DIVISION



ARCHITECTS & ENGINEERS

April 12, 2011

Ms. Shelly Murray, Buyer  
State of West Virginia, Purchasing Division  
2019 Washington Street, East  
Charleston, West Virginia 25305

**Subject: A&E Services to Develop a Comprehensive Educational Facilities Plan (CEFP) for the WV School for the Deaf & Blind**

Dear Ms. Murray:

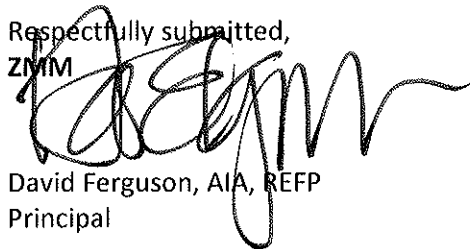
**ZMM** is pleased to submit the attached qualifications that demonstrate our experience and capability to provide the planning and design services required to develop a CEFP for the WV School for the Deaf & Blind. For this project **ZMM** will be collaborating with Winter & Company's Special Needs Studio, a national leader in the programming and design of educational and living spaces for the deaf, blind and people with special needs. We are confident that our combined experience delivering professional CEFP services, our significant education portfolio, and special needs knowledge and expertise will make us a great partner for the WV School for the Deaf & Blind.

**ZMM** is one of few full service A/E firms in West Virginia, and is noted for design excellence and client focus. Our educational design experience in West Virginia spans five decades, and has been recognized with both statewide and national for planning and design awards. **ZMM** has completed CEFP's for school districts and multi-county technical centers throughout West Virginia and has also provided design services on more than 200 educational facilities throughout the State.

Winter & Company's Special Needs Studio (WCSNS) offers extensive experience in programming and design of educational and housing facilities for the deaf and the blind, with the goal of enhancing performance and meeting the needs of owners and users. WCSNS has been recognized as being among the top firms in the country in the area of special needs, and has designed educational centers throughout various states, including: Kentucky, Virginia, Pennsylvania, and New York.

Thank you for taking the time to review the attached information that details our project team and approach, as well as our firm profiles, experience, qualifications, personnel, and references. Additionally, please visit our website [www.zmm.com](http://www.zmm.com) to learn more about working with **ZMM** from a client's perspective. We look forward to meeting with you to present our ideas for this project.

Respectfully submitted,  
**ZMM**

  
David Ferguson, AIA, REFP  
Principal

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

# West Virginia Schools for the Blind and the Deaf

## Comprehensive Educational Facilities Plan

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RFQ#DBSM111059

### Cover Letter

### Table of Contents

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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 exceed 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: *[Signature]* Date: 12-APRIL-2011

State of West Virginia

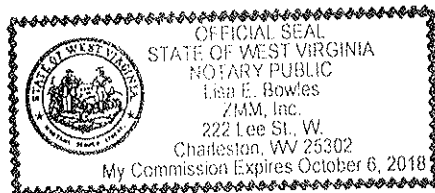
County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 12<sup>th</sup> day of April, 2011.

My Commission expires 10-6, 2018.

AFFIX SEAL HERE

NOTARY PUBLIC *Lisa E. Bowles*



# History and Philosophy of ZMM



LOCATION:  
222 Lee Street, West  
Charleston, WV

CONTACT:  
Phone 304.342.0159  
Fax 304.345.8144  
ww.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:



# Professional Services



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

# 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

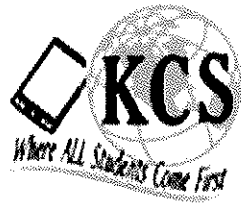
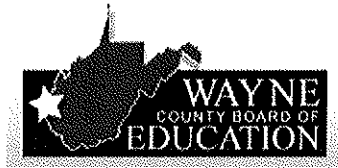
## **6. Staff Training, Assessment and Enhancement**

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.



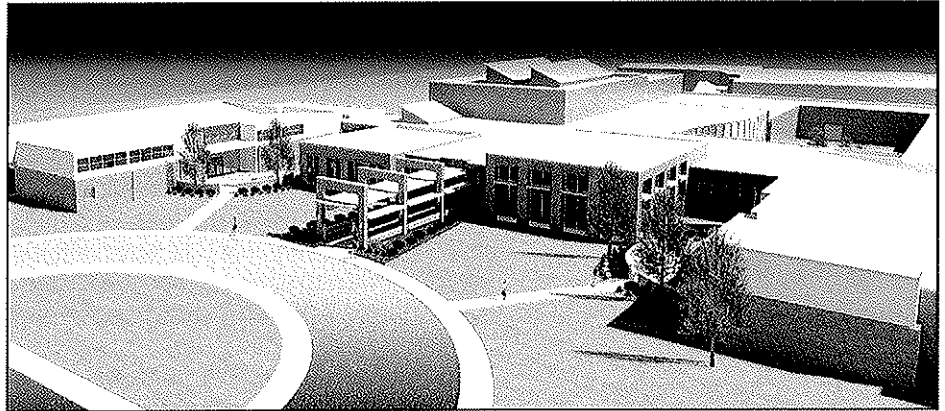


## Winter & Company - Special Needs Studio



LOCATION:  
405 Tarrytown Road  
Suite 1389  
White Plains, NY

CONTACT:  
Phone 303.440.8445  
Fax 303.443.0725  
[www.winterandcompany.net](http://www.winterandcompany.net)



Ohio School for the Deaf - New Educational Center

### Core Expertise

Winter & Company's Special Needs Studio (WCSNS) offers extensive experience in programming and design of educational and housing facilities for the deaf and the blind, with the goal of enhancing performance and meeting the needs of owners and users. Although substantial guidelines exist for addressing design needs for persons with mobility impairments, little formal literature exists that describes the special programming requirements for deaf and blind populations. In response to this need, Winter & Company established a special consulting studio in 2001 to provide facilities programming for special needs projects and deaf/blind facilities, as well as programming for mobility-impaired users. WCSNS has consulted on projects across the nation and been recognized as one of the top firms in the country in the area of special needs programming and design. Our clients appreciate our ability to meet schedules, honor budgets and solve problems.

The design of innovative living and learning environments has long been cornerstone of Winter & Company's Special Needs Studio practice. The profile of designing for today's special needs and blind education facilities is changing. State governments and school agencies are upgrading and expanding programs, facilities and systems to meet new standards, set forth by the Americans With Disabilities Act (ADA) and the Department of Education's "Special Education Facilities 2001" guidelines. In addition, continual advancements in technology and the constant need for adaptive reuse require agencies, architects and planners to be forward-thinking and solution oriented. Plans must provide for new and effective visual and functional communication access for blind students and their staff.

### We Listen, Innovate, and Deliver:

#### We Focus on You

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

# Winter & Company - Special Needs Studio



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www.winterandcompany.net

## The Mission of Education and Residence life for the Deaf

Education and Residence life on campus must meet students needs and secure their ability to both succeed and develop. Plain and simple. Deaf students need an environment that is conducive to healthy living and learning. They need a sense of safety and security within the student community. They need to learn life skills tailored to their deafness to complement their academic progress and assist them in well-balanced individuals. And, they need opportunities and encouragement to grow.

## Design for the Deaf and Hard-of-Hearing

To understand the very idea of an environment designed for the Deaf, hard-of-hearing, and cochlear implants one need to clearly understand the population whose needs the facility will serve.

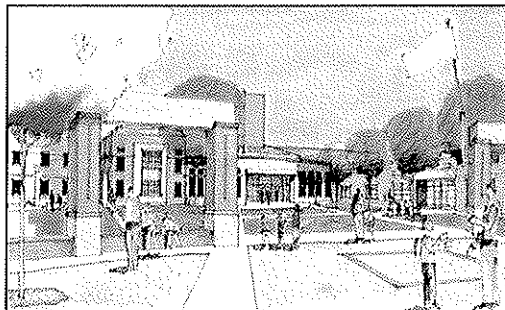
Deaf and hard-of-hearing students are more sensitive to the visual environment than are their hearing peers. The acute skills of observation that Deaf and hard-of-hearing students acquire in learning to use American Sign Language (ASL) and oral methods of communication make them more conscious of the many subtleties of variation in lighting, building features, and walls that might create barriers or obstacles to their visual paths. Proper lighting and barrier-free materials are critical to enhance the visual means of interaction for students who are Deaf and hard-of-hearing. Excessive brightness, improper lighting, or glare can lead to eye fatigue, difficulty seeing materials or screens, difficulty distinguishing between materials and the background, diminished physical productivity, and can produce unwanted physical discomfort.



**Pennsylvania School for the Deaf  
Philadelphia, PA**

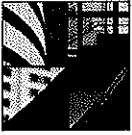


**National Technical Institute for the Deaf,  
Rochester, NY**



**Virginia School for the Deaf and the Blind—New Educational Center  
Staunton, VA**

# Winter & Company - *Special Needs Studio*



**LOCATION:**  
405 Tarrytown Road  
Suite 1389  
White Plains, NY

**CONTACT:**  
Phone 303.440.8445  
Fax 303.443.0725  
[www.winterandcompany.net](http://www.winterandcompany.net)

## **The “Millenials” Generation**

Today’s students have matured through childhood and early youth with assets that were unknown to previous generations. More than ever, the majority of this generation has been the most pampered and is the most technologically advanced. Technology has dramatically transformed their ability to learn, and it has also multiplied the ways in which to spend time. The development of technology has increased and improved the quality of learning and living for the Deaf.

Communication is a life skill that has evolved as a result of changes in these students’ generation. These changes have greatly benefitted the vision impaired and the blind. We now expect instant gratification in all aspects of life. In the world of communication, email correspondence, American Sign Language, and texting take place anytime, anywhere, including during class. We are compelled to respond immediately. In fact, if we don’t, we are hounded until we do. With this revolution in communication has come revolution in its delivery on campus. These talented multitaskers are adept at communicating with friends in the classroom as they are at researching topics for class at a event. Deaf Students of today’s generation are not only millenials, they are techno-natives.

## **Design Approach**

The project approach must begin with the fundamental principle that people’s lives are improved through the design of the built environment. The opportunity to accomplish this principle, in a coordinated effort with others who share that desire, will directly link through programming and design dialogue with the American School for the Deaf. The design process will create a nexus for the cross-fertilization of creative ideas that are drawn from the rich academic heritage that inspires academic innovation and vision that is ultimately translated into the built form.

Our design approach of K-12 institutions is based on a series of dynamic work sessions. We bring a rigorous investigation of all project issues, foster creative solutions that improve campus life, and collaborate among all team members and stakeholders—students, faculty, staff, alumni, and trustees alike. We believe it is extremely important to understand your history, celebrate your culture, and embrace your aspirations. The best designs emerge not from preconceived notions. But from thoughtful, collaborative process tied to the real world. We encourage our clients to get involved in that process. We challenge their assumptions, and ask them to challenge ours. We pose provocation questions, often exposing previously unconsidered issues. And we place each aspect of a project in the larger context of the academic institution and setting, thereby ensuring that it connects to whole.



## Role

Architect, Principal

## Professional Registrations

Registered Architect (WV, OH)

Recognized Educational Facility Professional (REFP)

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

Mr. Ferguson began his career at ZMM in 1984 working on a variety of retail, educational and military projects throughout West Virginia, Pennsylvania, Ohio, Virginia, Maryland, New York, North Carolina, South Carolina, Florida, and Washington DC. In 1996 Mr. Ferguson expanded his expertise into the Healthcare and Industrial and Corporate Office facilities and since then has led the effort at ZMM in Educational Design. Mr. Ferguson is a Recognized Educational Facility Professional (REFP) and has been involved in planning, designing and the construction of over 90 educational facilities in West Virginia. As the architect for the first "green" school building in West Virginia Mr. Ferguson has been an advocate for sustainable design and was involved starting the first US Green Building Chapter in West Virginia.

Mr. Ferguson has also participated in developing West Virginia Department of Education's Policy 6200 *Handbook on Planning School Facilities* and the West Virginia School Building Authority's *Handbook of Quality and Performance Standards*.

In addition to Mr. Ferguson's project management responsibilities, as a principal of the firm he has corporate administrative duties and serves on the Board of Directors.

## Project Experience

### Southside Elementary and Huntington Middle School:

Mr. Ferguson led the programming and design effort on this 156,000 sq. ft. facility. This project encompasses all phases of construction; demolition, major renovation and new construction. The original historic 26,000 sq. ft. three story school building was preserved and the remaining less than

## Education

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

## Employment History

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

2002 - 2007, Vice President, ZMM

2001 - Present, Board of Directors, ZMM

1996 - Present, Architect, Project Manager, ZMM

1984 - 1996, Designer, ZMM

## Civic Affiliations

- West Virginia Chapter, American Institute of Architects, Board Director
- American Institute of Architects, Member
- Member, Council of Educational Facility Planners International (CEFPI)
- Recognized Educational Facility Professional (REFP) by the CEFPI
- Professional Member, US Green Building Council
- High School Mentoring/Job Shadowing Program for 6 County School Systems
- WV AIA IDP Program Mentor/Advisor

adequate facility was strategically removed to accommodate the new addition. The existing facility was completely renovated and brought up to new construction standards to blend with the new addition. The project consisted of two distinct school facilities existing on the same piece of property. The new construction blends seamlessly with the older historic structure.

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

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

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

**Highland Hospital:** Mr. Ferguson was responsible for the programming and design effort for this 90,000 sq. ft. Psychiatric Hospital. The design of this facility creates a new lobby space that connects the existing hospital to the new 4 story structure. The new facility replaces older antiquated spaces within the existing facility and adds new patient rooms to allow the hospital the expansion of patient care. The implementation of water recycling for the laundry facility and other "green" components were used as energy saving methods that have a long term impact on the hospital operation.

**Hacker Valley PK-8 School:** Mr. Ferguson was responsible for the programming and design effort for this facility. This 65 student, 31,000 sq. ft. school was a ground breaking facility for the county, West Virginia School Building Authority and the WV Department of Education. The project didn't fit within any standard guidelines or protocol for a new school. Mr. Ferguson was instrumental in developing new guidelines for schools of this size and grade level configurations. The design of this facility is also the recipient of the 2010 WV AIA Honor Award.

#### **Awards and Acknowledgements:**

2010 WV AIA Honor Award *Hacker Valley PK-8 School, Webster County Schools, Hacker Valley, WV*

2007 WV AIA Honor Award *Lincoln County High School, Lincoln County Schools, Hamlin, WV.*

2004 Education Design Showcase "Project of Distinction", *School Planning & Management Magazine.* St Albans High School, St Albans West Virginia, Kanawha County Schools.

2004 Impact on Learning Awards, "Effective Transformation", *School Planning & Management Magazine/CEFPI.* St Albans High School, St Albans West Virginia, Kanawha County Schools.

2004 Published American School & University Magazine's Architectural Portfolio, St Albans High School, St Albans West Virginia, Kanawha County Schools.

May 2005 Article, Building Blueprints, Science Classroom/Laboratory. *School Planning & Management Magazine*

March 2006 Article, Construction Progress, Lincoln County Comprehensive High School, Lincoln County, *West Virginia Construction News Magazine, West Virginia Contractor's Association*

# John C. Dickinson, AIA, CEFPI



## Role

Studio Director

## Professional Registrations

Registered Architect (KY, CO, NM, CA)

John Dickinson is a notable deaf Architect and project manager with over twenty five years of experience providing a wide range of architectural services for educational, healthcare, banking, telecommunications and commercial facilities. Mr. Dickinson received the AIA Award of Educational Design Excellence for his design of Columbine Senior High School in Littleton, Colorado.

Mr. Dickinson, who has been profoundly deaf since the age of two, has provided architectural services for deaf and blind schools and senior housing all over the U.S. and understands that developing facilities for the deaf and blind populations requires careful consideration of multiple issues. He has the ability to capture the intricacies and nuances of the deaf and blind environment and translate them into an effective setting that encourages performance and growth.

## Project Experience

### Gallaudet University, Washington DC

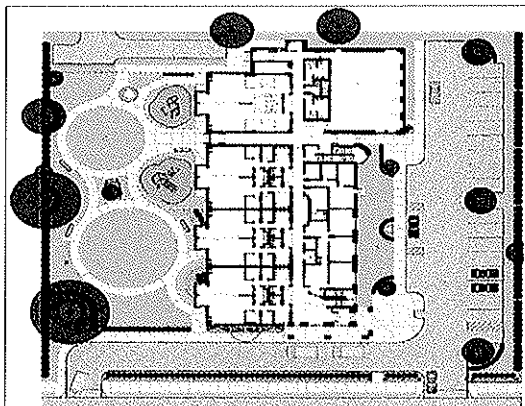
Sorenson Language & Communication Center Programming

### Rhode Island School for the Deaf, Providence, RI

Programming and New Facilities Feasibility Study

### Pennsylvania School for the Deaf, Philadelphia, PA

Campus Wide Master Plan and New Early Childhood Center (below)



## Education

Masters in Business Administration,  
University of Phoenix, 1998

Bachelor of Architecture, University of  
Kentucky, 1988

Diploma, E'cole des Architecture,  
Paris, France

## Employment History

1999 - Present, Principal, Studio Manager,  
Winter & Company

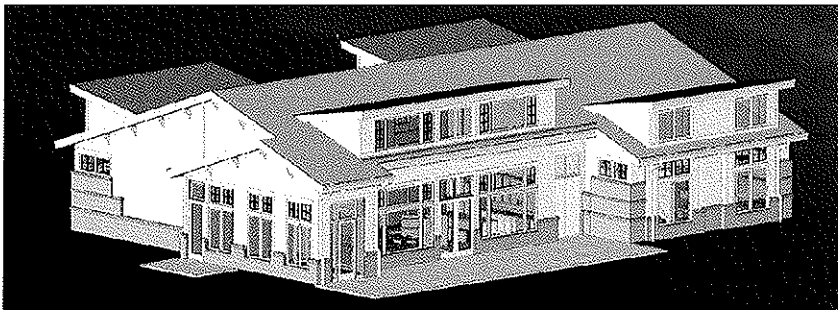
## Civic Associations

- American Institute of Architects
- Council Educational Facility Planners International
- Colorado Association of the Deaf
- National Association of the Deaf
- National Task Force Deaf Seniors Coalition
- Board of Trustee-Colorado School for the Deaf and the Blind

**Middletown Deaf Housing and Apartments, Middletown, CT**  
New Mixed-Use Housing for the Deaf Design and Planning

**Colorado School for the Deaf and Blind, Colorado Springs, CO**  
Master Plan and Ritter Hall Programming & Design

**Ohio School for the Deaf, Columbus, Ohio**  
New Educational Center and Residence Halls  
(below)



**Governor Baxter School for the Deaf, Portland, ME**  
Master Plan and New K-8 Educational Center

**Rocky Mountain Deaf School, Denver, Colorado**  
New K-12 Campus



**Role**

Educational Planning, Corporate Administration, Information Systems, & Business Development

**Professional Registrations**

Associate AIA  
REFP, Council of Educational Facility Planners, International

Mr. Watkins is a member of the marketing team, administers office technology systems, construction administration staff, and educational facility planning at ZMM. As a Principal of the firm he also has project as well as corporate administrative duties and serves on the Board of Directors.

Mr. Watkins' started his career in 1965 in the field of architectural drafting for an architectural firm in Charleston, WV. He began his educational planning experience in earnest in 1970 with a 7 year employment with Kanawha County Schools as Coordinator, and later as Director of Facility Planning, gaining a public sector view and experience base in school planning and design.

He is a **Recognized Educational Facility Professional** by the Council of Educational Facility Planners, International and has been involved in the planning and construction of over 100 school facilities throughout West Virginia.

**Project Experience**

**Kanawha County Schools:** Mr. Watkins most recently is Principal-In-Charge of the new "School of the Future" in Charleston for Kanawha County Schools. This exciting project will break new ground in the design of elementary schools. Mr. Watkins oversees all aspects of the design of this PK-5 School.

**West Virginia Housing Development Fund Offices:** Mr. Watkins is also the Principal In Charge of the new WV Housing Development Fund project, also in Charleston, in Kanawha City. This new office building has 33,000 square feet and will house over 100 employees of the WVHDF. It is scheduled for completion in the summer of 2011.

**Education**

Computer Programming; 1964  
Center College, Charleston, WV

Architectural Drafting; 1965  
Center College, Charleston, WV

**Employment History**

1991 - Present, Vice President, Principal,  
ZMM

1985 -1991, Principal and Partner, WV  
Architectural Firm

1977 -1985, Project Manager,  
Construction Administrator, WV  
Architectural Firm

1971 -1977, Director of Facilities Planning,  
WV Public School System

**Civic Affiliations**

- Associate American Institute of Architects, Member
- Board Member, FestivALL of Charleston WV,
- Past President, WV Music Hall of Fame





**Role**

Architect, Principal, Business Development

**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**

**West Virginia Army National Guard, Joint Interagency Education and Training Center, Camp Dawson, WV.**

Mr. Krason was responsible for the preliminary programming, and participated in the schematic design of the 180,000 SF addition to the Regional Training Institute at Camp Dawson. Mr. Krason was

**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

also responsible for managing the production effort for the billeting (hotel) expansion, which increased the total billeting capacity at the JITEC to 600 rooms. The project is aiming for LEED Silver Certification.

**Construction and Facilities Management Office Expansion, West Virginia Army National Guard, Charleston, WV.** Mr. Krason was responsible for the programming, architectural design, and project management of the office expansion. The project included the renovation and addition to an existing pre-engineered metal building. The design, which was honored with a 2008 AIA Merit Award, focused the client's resources on a new entry and corridor that separated the existing office space from the addition.

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

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

**The Boulevard at 2412, Charleston, WV.** Mr. Krason was responsible for the design of 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.

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

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

#### **Awards and Acknowledgements:**

AIA Merit Award (2008): West Virginia Army National Guard Construction and Facilities Management Office Organizer: Making the Business Case for Sustainability Conference, University of Charleston (2010)

Speaker: West Virginia Sustainability Summit, Discover the Real West Virginia Foundation (2010)

Speaker: Sustainable Schools West Virginia Summit, WVU (2009)

Article: The West Side Needs Structural Help, Charleston Daily Mail, January 2005

Article: Memorial to Vertical Towers: A Critical Review, West Virginia Executive, Summer 2004

Henry Adams Fund Certificate of Merit, Excellence in the Study of Architecture, AIA (1998)

Nathan C. Wyeth Award, Excellence in Design, D.C. Chapter of the AIA (1997)

**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; 2001  
West Virginia State University

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

**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

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;  
2003

University of Tennessee

Bachelor of Civil Engineering; 2001  
West Virginia Institute of Technology

## 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**

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; 1995  
West Virginia Institute of Technology

**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**

Sustainability Coordinator

**Professional Registrations**

NCIDQ Certification

LEED Accredited Professional, Building Design & Construction

Ms. Watkins is ZMM's interior designer and sustainability coordinator. After earning a BS in Interior Design from the University of Tennessee, Ms. Watkins lived in Cleveland and Boston for 13 years before coming back home to Charleston in 2008. During that time she worked on a wide variety of commercial interiors projects, and nurtured a passion for sustainable design.

She was one of the founding members of the Cleveland Green Building Coalition; interior designer and sustainability coordinator for the Federal Courthouse in Youngstown Ohio, which was the first courthouse in the country and the first building in Ohio to become LEED Certified; she was interior designer and sustainability coordinator for Cubellis' corporate headquarters in Boston, which is now LEED for Commercial Interiors Gold Certified; Ms. Watkins led the green effort that has since become part of Procter & Gamble's green building standards; she was Chapter President of the International Interior Design Association in Ohio for 4 years; and is currently involved with all of ZMM's LEED projects and several green building outreach efforts on behalf of the firm.

**Project Experience**

**West Virginia Army National Guard, Joint Interagency Education and Training Center, Camp Dawson, WV.**

Targeted for LEED for New Construction v2.2 Silver Certification.

For this multi-faceted and complex project, Ms. Watkins assisted in coordinating interior design for the entire project, and led the interiors effort for the Billeting (hotel) building. Jill also played a leadership role in the LEED process as co-LEED Administrator and was instrumental in the team achieving several LEED credits. She was responsible for interior finish selections, finish plans, reflected ceiling plans, interior elevations, custom casework design and interior details.

**Education**

Bachelor of Science in Interior Design,  
The University of Tennessee, 1993

**Employment History**

2008 - Present, Interior

Designer/Sustainability Coordinator, ZMM

2005 - 2007, Project Designer, Boston  
Architecture/Engineering Firm

1995 - 2005, Interior Designer, Various  
Cleveland Architecture/Engineering Firms

**Civic Affiliations**

- Bridgemont Sustainability Institute  
Advisory Council, Member
- FestivALL Steering Committee,  
Member
- Clay Center Development  
Committee, Member

**Ripley Armed Forces Reserve Center, Ripley, WV.**

Targeted for LEED for New Construction v2.2 Silver Certification.

Ms. Watkins worked closely with ZMM architects and engineers to fully develop the interiors package. Primary focus occurs in the main lobby, where coordination of exterior and interior finishes, lighting, and ceiling design was critical. In the Assembly/Drill Hall, she coordinated the interior acoustic requirements with finishes and architectural elements to create a unique, flexible space for many types of uses. Ms. Watkins is LEED Administrator for the project.

**Wood County Justice Center, Parkersburg, WV.**

Targeted for LEED for New Construction v2.2 Certification.

Wood County chose an existing building in downtown Parkersburg to renovate for its Magistrate Courts, Sheriff's Department and Holding Center, and Ms. Watkins was responsible for programming, space planning, coordination with consultants, researching multiple standards and codes, interior finish selections, reflected ceiling plans and furniture selections.

**Huntington East Middle School, Huntington, WV.**

Targeted for LEED for Schools 2009 Silver Certification.

As LEED Administrator, Ms. Watkins assisted in coordinating design decisions to maximize LEED points and overall operational savings for the client. She was also responsible for interior color selections and finish plans.

**West Virginia Housing Development Fund Office, Charleston, WV.** Ms. Watkins was responsible for programming, interior elevations and details, lighting design, reflected ceiling plans and furniture and finish selections for this new 30,000 square foot office building.

**Other Firm Experience:**

Procter & Gamble Gillette Corporate Headquarters, Boston, MA; designed to meet Boston Green Building Standards

Cubellis Corporate Headquarters, Boston, MA; LEED for Commercial Interiors Gold Certified

University of Akron Arts & Sciences Classroom Building, Akron, OH

University of Akron Student Affairs Building [programming], Akron, OH

Nathaniel R. Jones Federal Building and U.S. Courthouse, Youngstown, OH; LEED Certified

Beachwood Middle School, Beachwood, OH

Cleveland State University Library [schematic design], Cleveland, OH

**Awards and Acknowledgements:**

President, Ohio/Kentucky Chapter of the International Interior Design Association

Advisory Board Member, Cleveland Green Building Association

Vice President of Membership & Communication, Coalition of Interior Designers for Legislation in Ohio

# Erma Byrd Center

Public Higher Education Center



LOCATION:  
Beaver, West Virginia

SIZE:  
33,000 SF

COMPLETION:  
August 2007

COST:  
\$7.5 Million

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

AWARDS:  
2008 AIA Honor Award  
West Virginia Chapter  
*Excellence in Architecture*

American School & University  
*Outstanding Building Design*



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.

The new facility consists of standard classrooms, distance learning classrooms, a science lab, computer classrooms, a lecture hall, a multi-media 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 it's 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 costs 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 will become a campus for public higher education. It's placement at the front of the site allows the building to serve as a beacon of what is to come.



# Relevant Experience

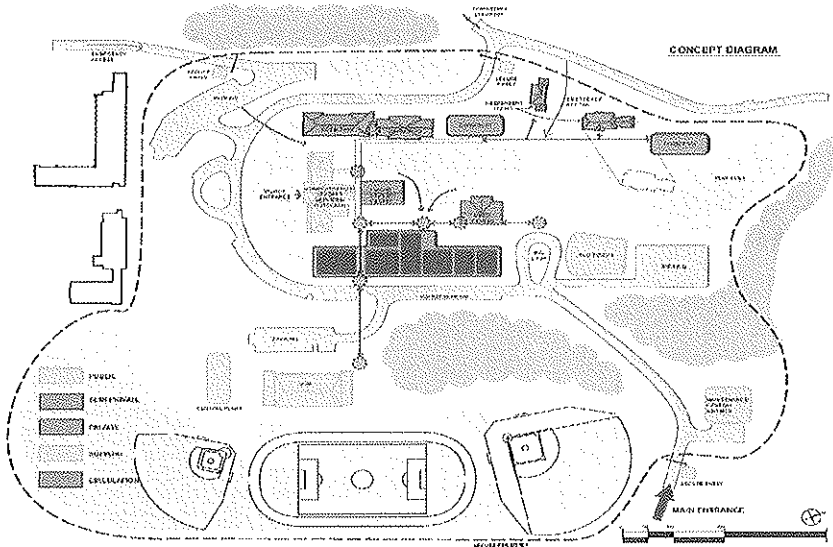


**Winter & Company**  
- Special Needs Studio

LOCATION:  
Scranton, VA

COMPLETION:  
Construction starts 2010

## Virginia School for the Deaf and the Blind



The rural campus on which the schools are located is heavily regulated due to its civil war era history. This posed a huge challenge for the State of Virginia to maintain various programs and different special needs identities, while modernizing and expanding new educational programs. Winter & Company Special Needs Studio, along with BCWH of Richmond, Virginia, were selected to work with these constraints and create a new program, and design and build new facilities. Construction is scheduled to begin in 2010.

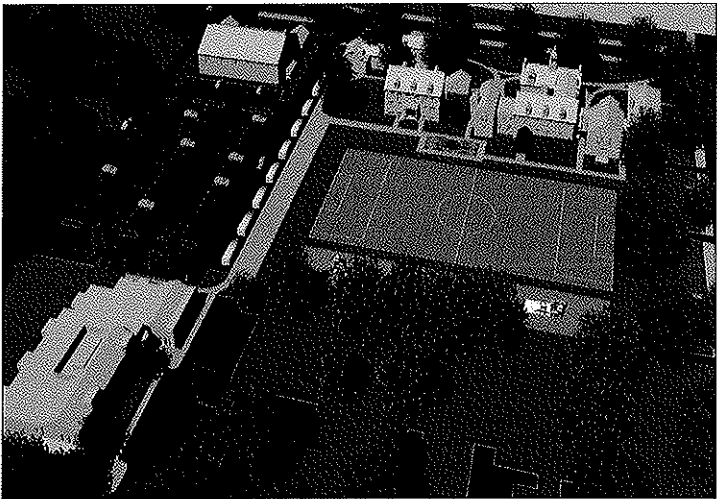
## Pennsylvania School for the Deaf

*New Campus Master Planning*

LOCATION:  
Philadelphia, PA

COMPLETION:  
TBD

Winter & Company Special Needs Studio and Winter & Company Urban Planning recently completed an update of the existing master plan to reflect the changing needs of the student population while creating a more integrated learning environment.



The master plan update evaluated the current and projected educational needs of the school, identified academic program needs, key campus historic resources, institutional goals and recommended a framework for capital improvement decisions.

# Relevant Experience



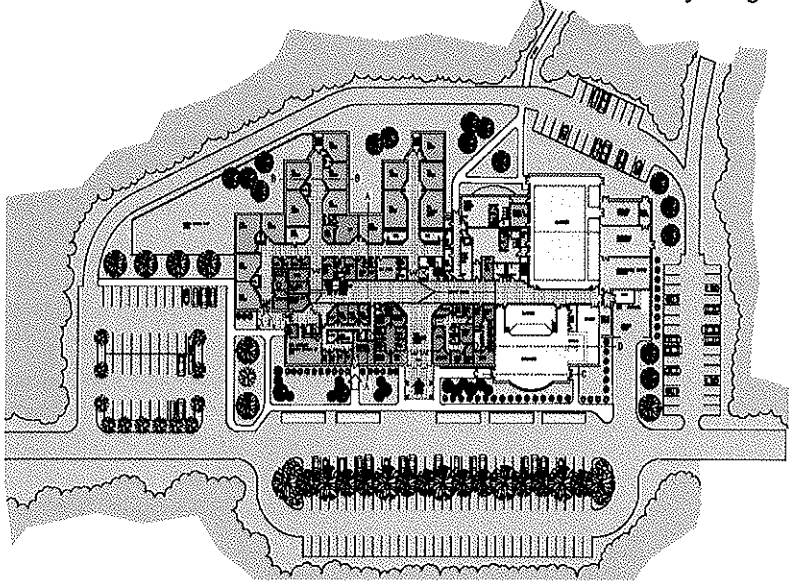
**Winter & Company**  
- Special Needs Studio

**LOCATION:**  
Providence, RI

## Rhode Island School for the Deaf

### *A building fit for a kid...*

The Rhode Island School for the Deaf has extremely high expectations for their first new campus facility, commissioned by the State of Rhode Island. Drawn to the natural beauty of the site, Winter & Company Special Needs Studio, along with Design Partnership of Cambridge, worked to accomplish the project's main goal of creating a building that is sensitive to the size of students with special needs. Everything within the building from the stage in the "cafetorium" to the desks in the classrooms will be scaled for young children.



## Southbridge School

**LOCATION:**  
South Hartford, CT

**SIZE:**  
25,000 SF

**COMPLETION:**  
October 2009  
Philadelphia, PA

Winter & Company Special Needs Studio completed the design of a new 25,000 SF addition including a one-story classroom building and distance-learning center for the Southbridge School. The school will provide method distance learning classrooms to be utilized by the community and special education at the school. The new building includes a direct, level-to-level connection with its existing floors to provide maximum utility and to improve the accessibility of the original building.



# Southern WV Community Technical College

*Applied Technology Building and Campus Planning*



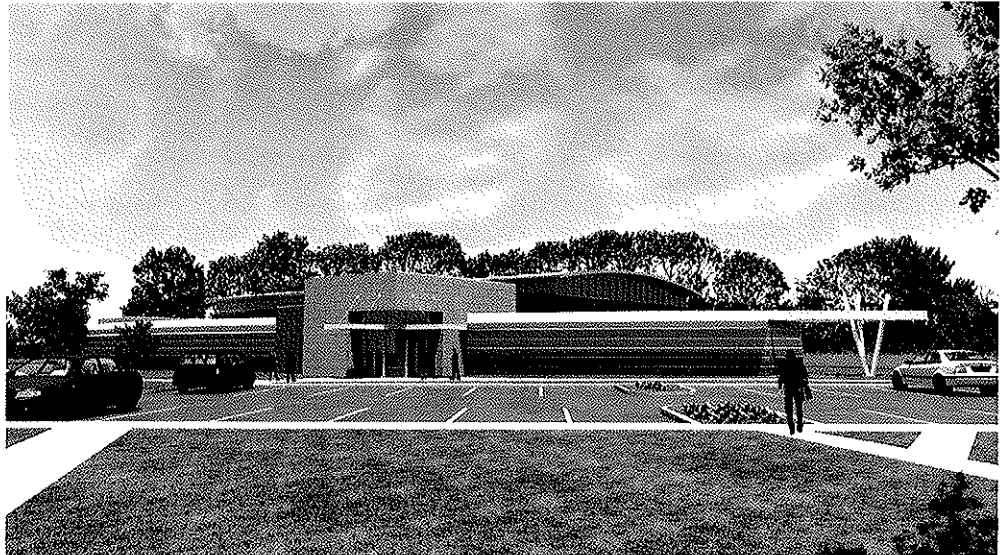
LOCATION:  
Williamson, West Virginia

SIZE:  
22,000 SF

COMPLETION:  
Est. Summer 2012

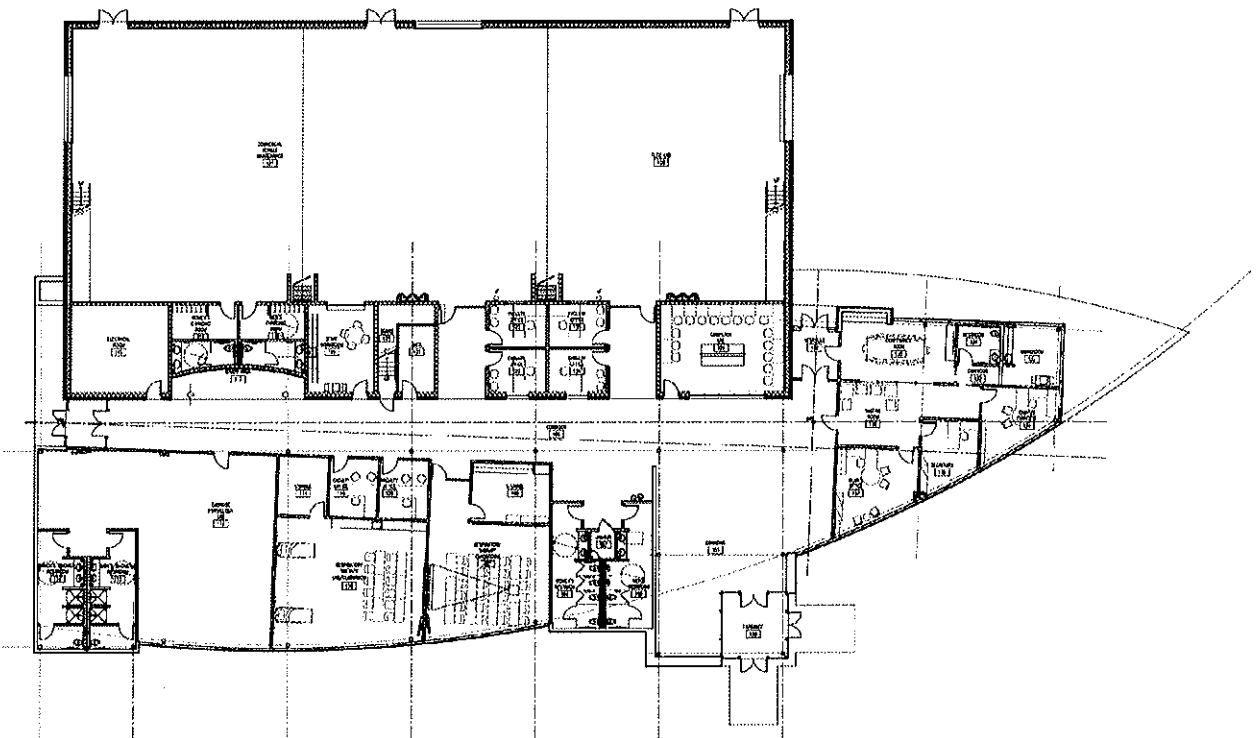
COST:  
\$5.0 Million

CONTACT:  
Dr. Joanne Tomblin  
President  
1601 Armory Drive  
Williamson, WV 25661  
304.235.6046



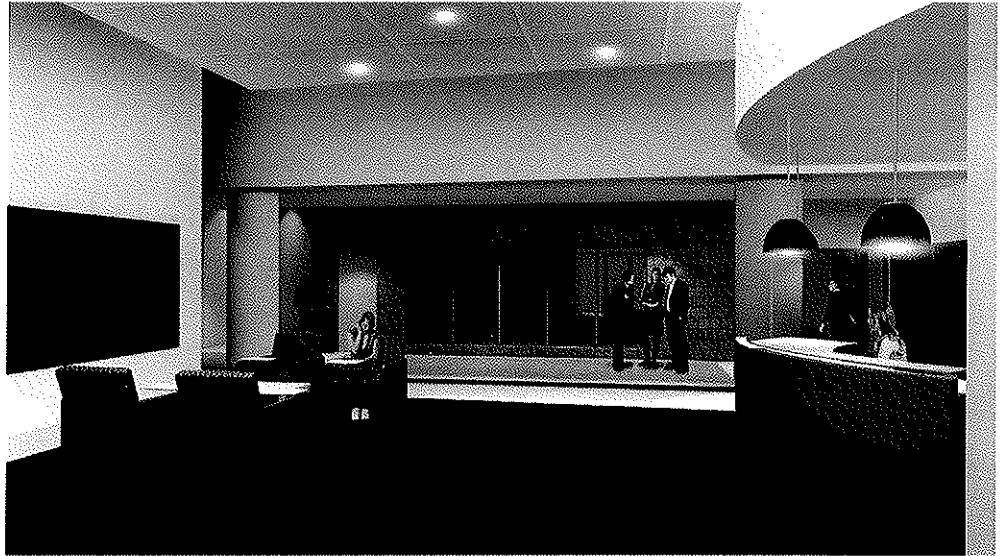
ZMM is currently providing professional services for the design of an Applied Technology Center on Southern WV CTC's Williamson Campus. This project continues a long-term relationship between ZMM and SWVCTC that includes projects at the Logan Campus, as well as the Community and Technical College wing of the Lincoln County Comprehensive High School.

The proposed Technology Center will house a virtual welding and machine shop, a mining support program, administrative space and student support spaces, as well as several allied health programs. Continued...

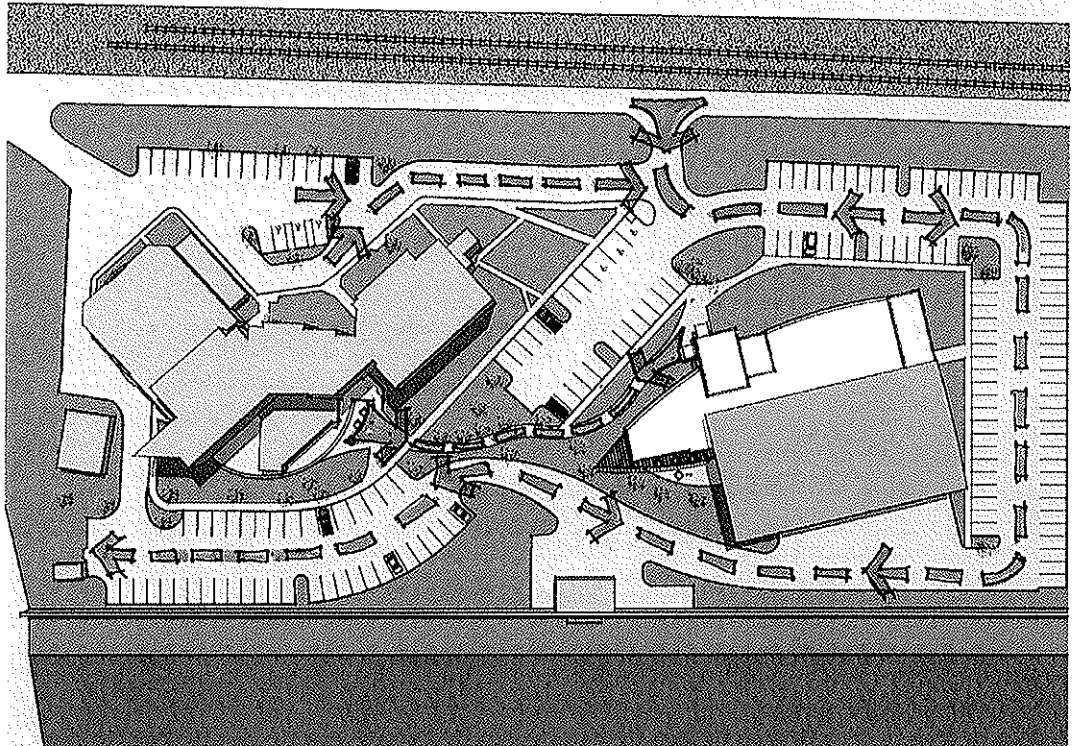


# Southern WV Community Technical College

*Applied Technology Building and Campus Planning*

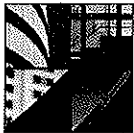


The space is being designed to maximize both flexibility and adaptability, and will reflect a modern, "high-tech" aesthetic while also blending into the overall campus. The new facility is the next step in the progression of a planned campus expansion that will ultimately include the adjacent Readiness Center; therefore, in addition to providing design services for the new Applied Technology Building, ZMM is also providing a new campus master plan, with a focus on creating green space and improving pedestrian and vehicular circulation. This project is being designed to meet the USGBC LEED Silver standards.





# Relevant Experience



**Winter & Company**  
- Special Needs Studio

**LOCATION:**  
Philadelphia, PA

**SIZE:**  
21,530 SF

**COMPLETION:**  
2005

## Pennsylvania School for the Deaf



Winter & Company Special Needs Studio was hired by the school to work with the local architect on the programming and design to ensure that it accommodated the needs of the deaf and hard-of-hearing. The objectives were to create a functional deaf-friendly and economical facility that encourages activity and interaction and promotes excitement about learning. The new 21,530 SF building is organized along straightforward corridor arrangements. The project was completed in 2005.

**LOCATION:**  
West Hartford, CT

**SIZE:**  
110,000 SF

**COST:**  
\$27 Million

## American School for the Deaf

The American School for the Deaf was the first deaf school in the United States. Winter & Company Special Needs Studio, along with EYP-Boston, was honored to be selected to provide architectural and engineering services for comprehensive renovations to an 110,000 SF historic 1820s education building. The scope of work includes a complete renovation to the interior and exterior of the building. Project budget was \$27 million.





## Relevant Experience



**Winter & Company**  
- *Special Needs Studio*

LOCATION:  
Washington, DC

SIZE:  
21,530 SF

COMPLETION:  
2005

### Gallaudet University Clerc Residence Hall

An aging college residence hall hindered, rather than enhanced, the student life experience, and most of the halls had not been updated to accommodate advances in deaf resident's life and safety needs. Winter & Company Special Needs Studio along with ASG Architects and Deaf Space Group worked together to develop a concept design to provide new student apartments and a multimedia visual theater. The architectural language for the renovated hall was carefully developed to relate to the historic campus context and visual technology that are found around the campus. The drawings are completed but construction is on hold due to funding.



### Kentucky School for the Deaf

*Kerr Hall Renovation*

LOCATION:  
Danville, KY



The Kentucky School for the Deaf, located in Danville, Kentucky, serves over 200 deaf and special needs students from all over the state. Winter & Company Special Needs Studio was retained by the State of Kentucky in 2004 with the goal to open the school for fall semester of 2006. The building has been completely renovated to include 25 classrooms, library/media center, offices, visual arts technology lab and full science labs. Construction took less than 12 months to complete.

# Bridgemont Community and Technical College

## *Davis Hall Renovation*



**LOCATION:**  
Montgomery,  
West Virginia

**SIZE:**  
77,215 SF

**COMPLETION:**  
Est. March 2012

**COST:**  
\$4 Million

**CONTACT:**  
Dr. Jo Harris, President  
619 2nd Avenue  
Montgomery, WV 25136  
304.734.6600



ZMM was selected by Bridgemont Community and Technical College and the West Virginia Community and Technical College System to provide professional architectural and engineering design services for the Renovation of Davis Hall in Montgomery. Davis Hall is a 77,215 SF classroom and laboratory facility that was constructed in 1970 for WVU-Tech. The exterior of the facility consists of architectural pre-cast concrete panels and a curtain wall system. The interior includes an open two story atrium, a large auditorium, and five levels of office and classroom space that is constructed of demountable partitions.



Prior to commencing the design effort, ZMM completed a thorough assessment of the facility. The assessment revealed significant life safety concerns that had not been previously identified, including the use of non-plenum rated plastic insulated wiring throughout the return air plenums, mechanical units located above ceilings in exit stairs, and a lack of adequate fresh air for building occupants. As part of this initial assessment, ZMM assisted in developing a scope of work for the current project, as well as a long range plan for future improvements to Davis Hall.

The scope of the current project includes life safety upgrades (replace non-plenum rated wiring, new fire alarm system), improvements to the building envelope (curtain wall replacement and re-roofing), hazardous material abatement, mechanical improvements (boiler and chiller replacement, outdoor air ventilation system replacement), and interior improvements (replace ceilings and lighting, upgrade furnishings). The budget for the proposed improvements is \$4M, and the design work is scheduled for completion in March of 2011.

# Lincoln County High School

Lincoln County Schools



LOCATION:  
Hamlin, West Virginia

SIZE:  
217,000 SF

COMPLETION:  
August 2006

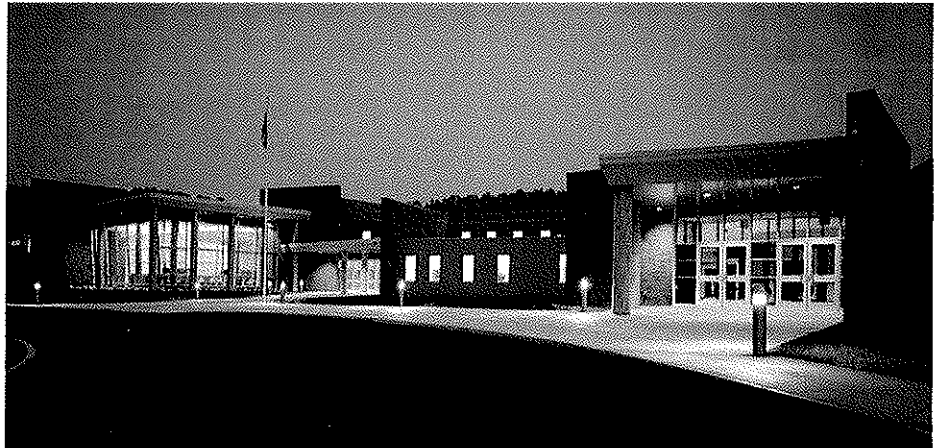
COST:  
\$32 Million

OWNER:  
Mr. David Roach  
Superintendent  
10 Marland Avenue  
Hamlin, WV 25523  
304.824.3033

AWARDS:  
2007 AIA Honor Award  
West Virginia Chapter  
*Excellence in Architecture*

Education Design Showcase  
*Product of Distinction*

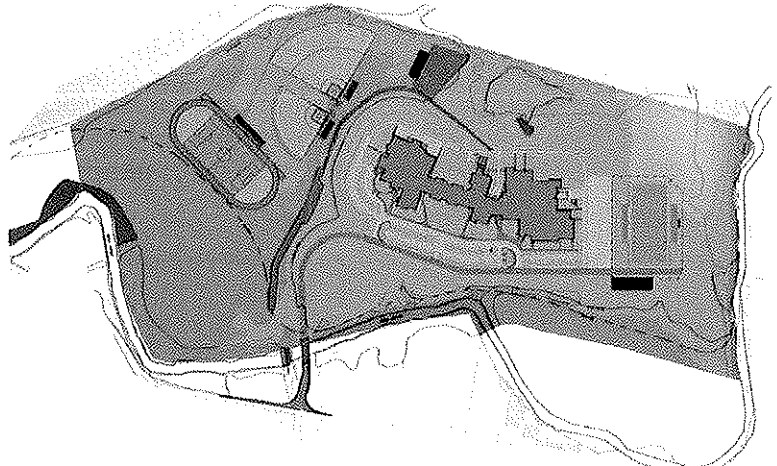
American School &  
University  
*Outstanding Building Design*



The Lincoln County High School combines four existing high schools into one. This facility includes 45,000 SF of both traditional and non traditional vocational space. Students have the opportunity to access vocational classes without leaving the building. Along with the traditional classrooms, some additional programs were added as well. The Health Occupations Lab will operate in conjunction with the Doctor's Office Clinic on site. Students enrolled in that program have the opportunity for "job shadowing". The Clinic operates six days a week, twelve months a year.

The high school is the focal point of the community and a community college wing occupied by Southern West Virginia Community College. The college offers classes during the day and evening. High School Students will have the opportunity to take college classes during the day. The community colleges Distance Learning facility and the Science and Computer Lab will be accessible to the high school students for daytime classes.

The building provides a unique learning opportunity for students. Day-lighting and automatic lighting controls provide state of the art technology for students to see how sustainable design, energy conservation, and technology work together. This facility is one of the first educational buildings in the state of West Virginia to include sustainable building design features. A fully integrated technology distribution system is provided throughout the building. Students and faculty have access to these computers throughout the facility.



# St. Albans High School

Kanawha County Schools



LOCATION:  
St. Albans, West Virginia

SIZE:  
216,500 SF

COMPLETION:  
2003

COST:  
\$24 Million

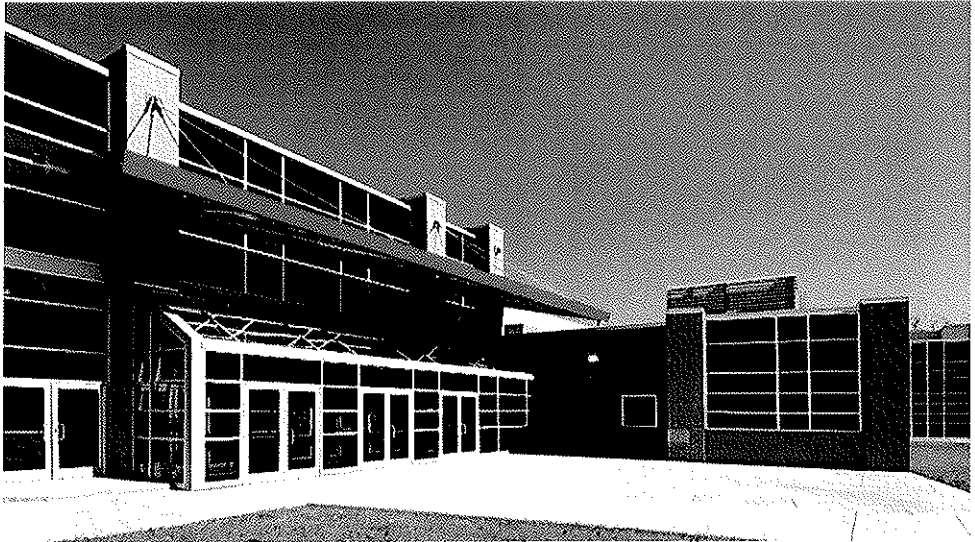
CONTACT:  
Dr. Ron Duerring  
Superintendent  
200 Elizabeth Street  
Charleston, WV 25523  
304.348.7732

AWARDS:

Impact on Learning Award  
*Effective Transformation*

Education Design Showcase  
*Outstanding Building Design*

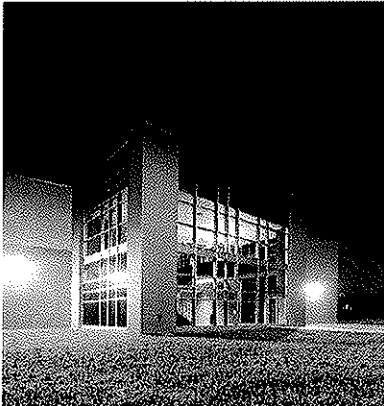
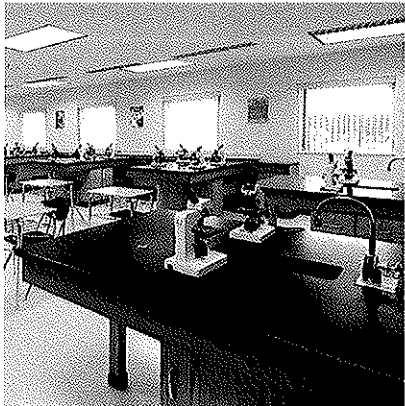
American School & University  
*Outstanding Building Design*



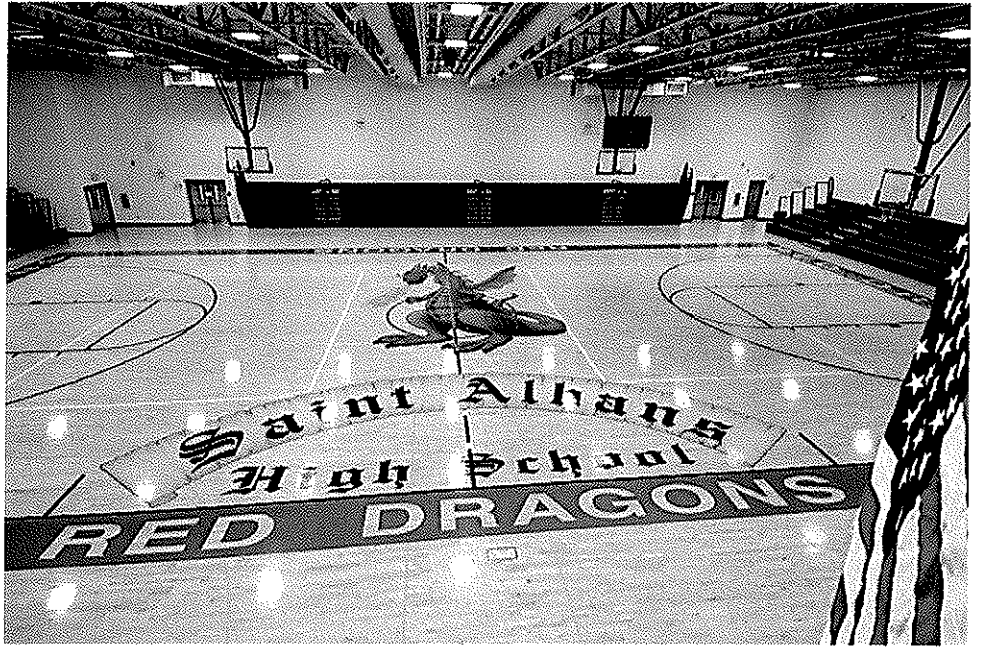
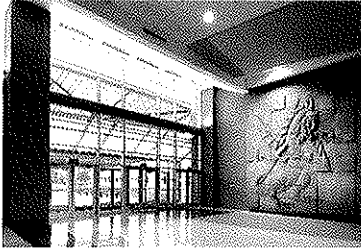
One outstanding feature of the completed renovation of St. Albans High School is its unique, inviting physical entryway and the aesthetically pleasing and functional commons/cafeteria area. The commons is a visual focal point of the school creating a natural flow from the front entrance, through the commons to the outside assembly/instructional area, it also serves as a connecting hub between the academic spaces and the physical education and auditorium areas.

Significant green space was retained and enhanced which providing an inviting and safe approach to the high school building. An outside amphitheater, located adjacent to the music and theater departments, provides ample space for music and drama productions as well as a gathering space for students. In response to the students need for more "outside living space" the rear dining plaza was created. It has a visual impact on the interior and provides a flexible learning environment for the students and educators.

The addition of an auxiliary gym, renovations to the auditorium complex, a new media center and other additions and improvements allow spaces for more extensive use by the community. Renovations to the auditorium resulted in a space that is educationally functional and is a source of pride for the students and the entire community. Continued...



# St. Albans High School



Instructional spaces have been designed to be flexible, adaptable and accommodating for the more active, student oriented instructional programs and methods of the district. Classroom and other spaces are bright and welcoming for students and staff and appropriate space and equipment are provided to allow for the efficient and effective delivery of program objectives.

Responding to concerns from students, staff and the community, and due to the condition of existing science facilities, science wing was completely replaced with modern, functional and flexible space and equipment.

Provisions for new and emerging technologies were greatly enhanced throughout the building. The new media center is the central hub for technology and with the inclusion of an appropriate infrastructure, providing flexibility





# Southside Elementary & Huntington Middle School

*Cabell County Schools*



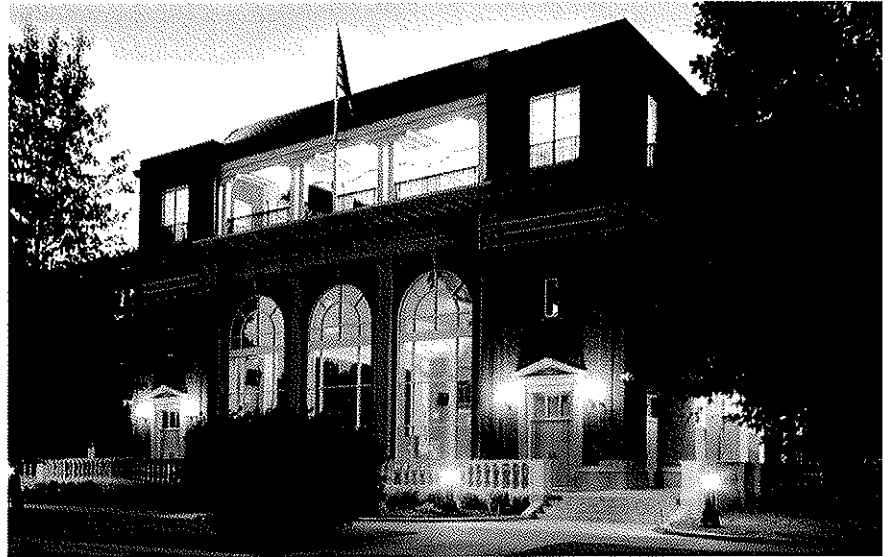
**LOCATION:**  
Huntington, West Virginia

**SIZE:**  
158,194 SF

**COMPLETION:**  
2010

**COST:**  
\$27 Million

**CONTACT:**  
Mr. William Smith  
Superintendent  
2850 5th Avenue  
Huntington, WV 25702  
304.824.3033

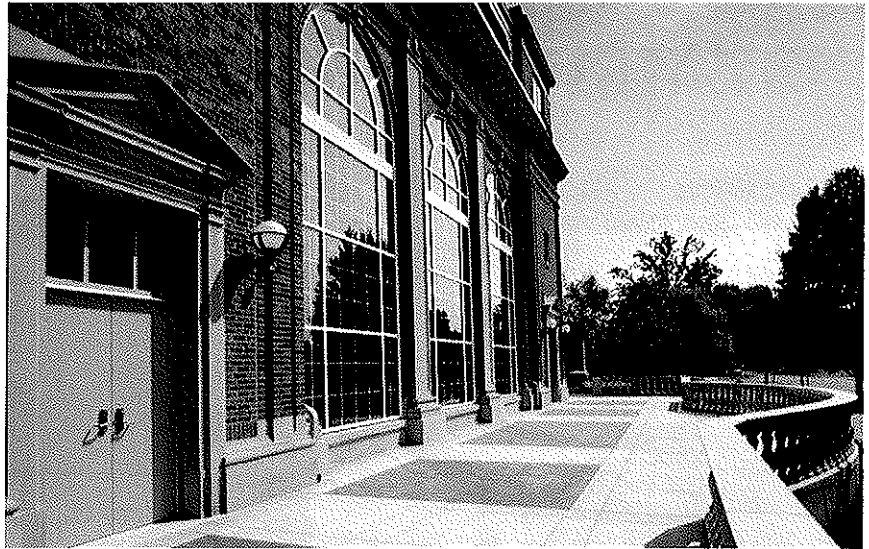
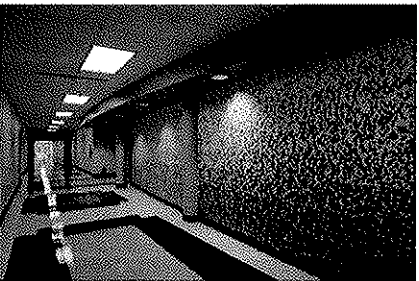


The two schools that previously occupied the site of the New Southside Elementary School and Huntington Middle School were known as Cammack Elementary School and Cammack Middle School. The new facility houses a combined 1,014 Elementary and Middle School students. When the Cabell County Board of Education 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. Two new stair towers provide a vertical architectural element that separates the existing structure from the new construction. The result is a cohesive design that blends the unique elements of the former Cammack School into a modern educational complex that exceeds the requirements of 21<sup>st</sup> century learning. Continued...

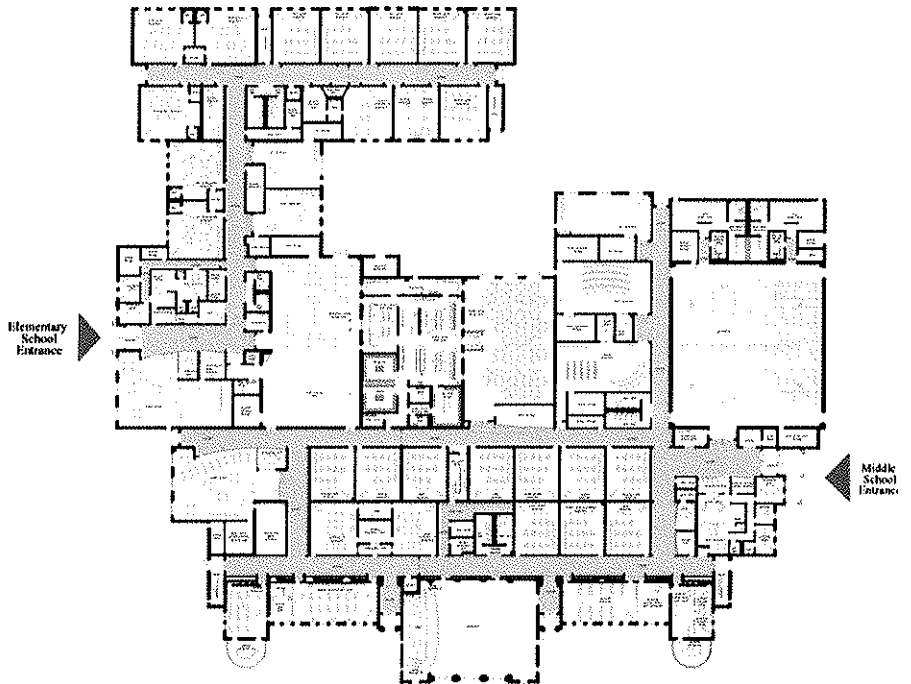


# Southside Elementary & Huntington Middle School



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

With the community's support of the bond, ZMM has designed a facility that maintains the historic character of the façade and auditorium, while replacing the remainder of the facility. The community has maintained a landmark, while developing new state of the art elementary and middle schools.



# Hacker Valley PK-8 School

Webster County Schools



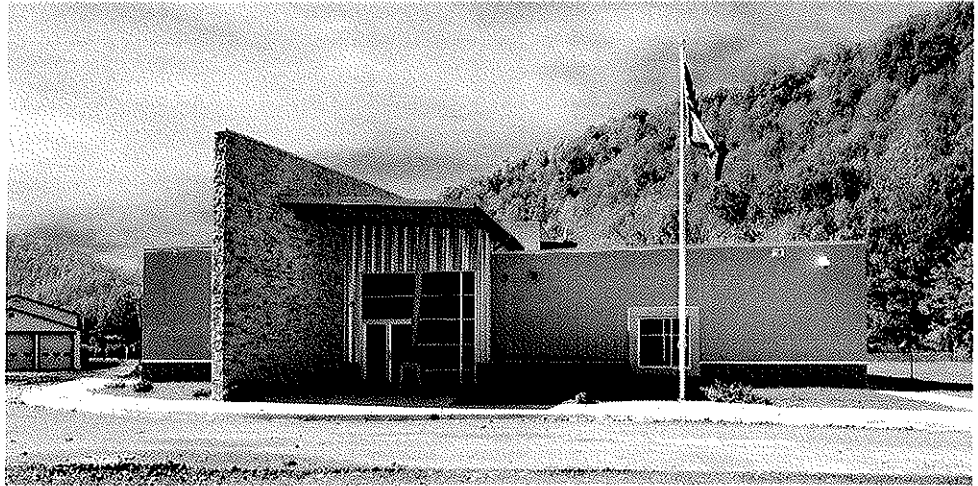
**LOCATION:**  
Hacker Valley,  
West Virginia

**SIZE:**  
30,433 SF

**COMPLETION:**  
2008

**COST:**  
\$8.2 Million

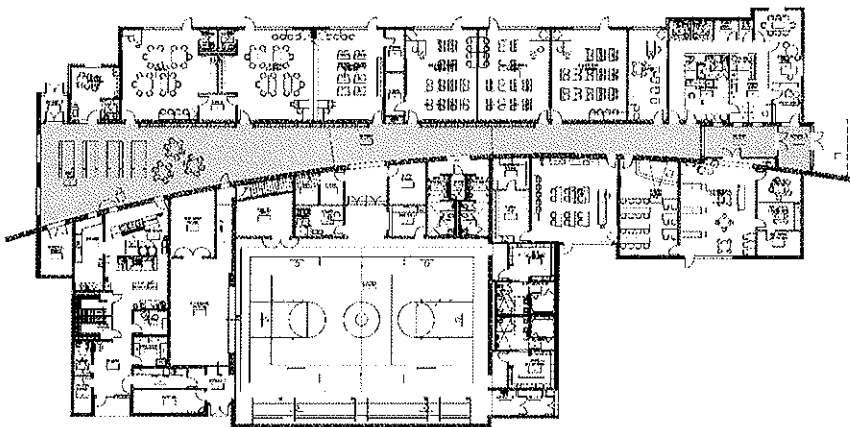
**CONTACT:**  
Mr. A.J. Rogers, Jr.  
Superintendent  
315 South Main Street  
Webster Springs, WV  
26288  
304.847.5638



The new Hacker Valley Pre-K-8 School replaces the old outdated modular facilities and metal building. It is constructed on beautiful farm land behind the existing school. The area is rich with community involvement, and home to many professional artisans.

This had an impact on the materials being selected for the building. The building is host to a large curved stone wall and heavy timber frame entrances. The remote area has a low student population which allowed some creative and unique spaces to be designed within the school.

The facility includes a dining room that doubles as a commons area and kitchen. The gymnasium area also has a stage area that serves as the music classroom. The science room serves as a dual purpose room for art classes. The Pre-K and kindergarten are separate classrooms that open directly onto the playground. The low enrollment dictates dual grades in each classroom. Each classroom also opens directly outside to outside classroom area.





# West Side Elementary School

Kanawha County Schools



LOCATION:  
Charleston, West Virginia

SIZE:  
66,400 SF

COMPLETION:  
Est. 2011

COST:  
\$ 14 Million

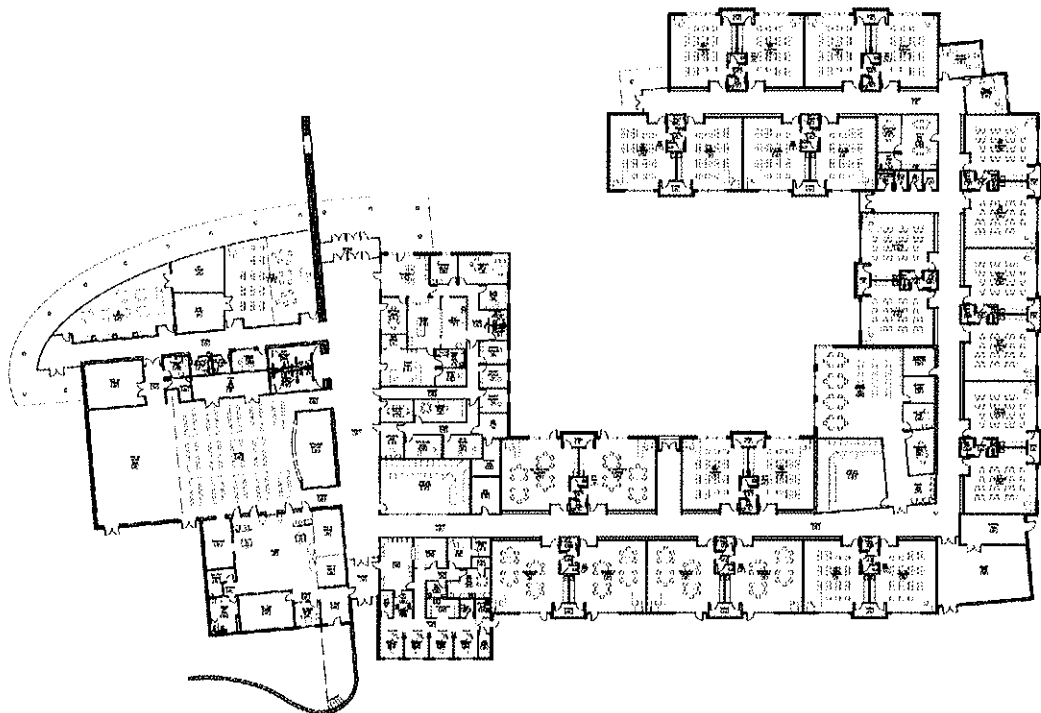
CONTACT:  
Dr. Ronald Duerring  
Superintendent  
200 Elizabeth Street  
Charleston, WV 25311  
304.348.7732



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.



# Edgewood Elementary School

*Kanawha County Schools*



**LOCATION:**  
Charleston, West Virginia

**SIZE:**  
56,000 SF

**COMPLETION:**  
2012

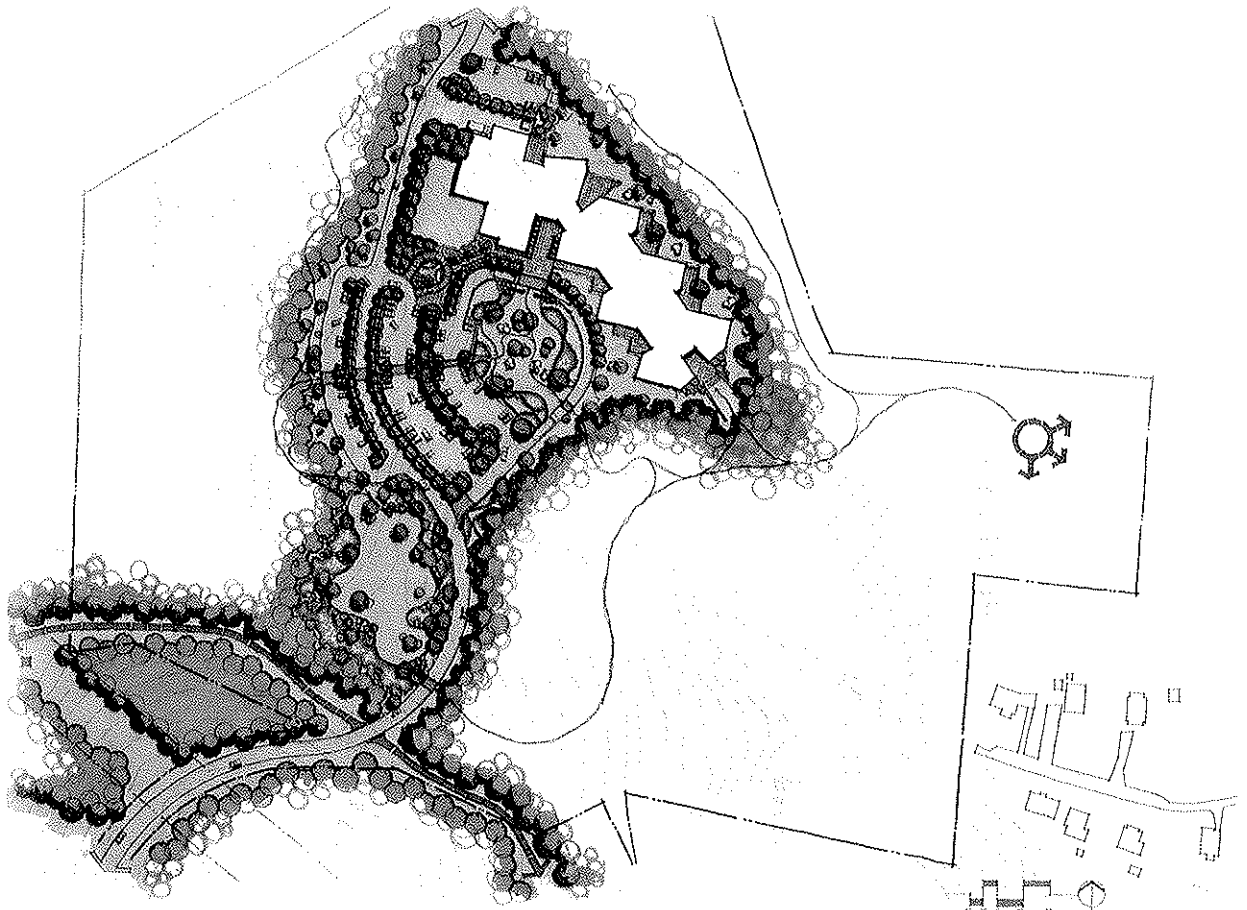
**COST:**  
\$18M

**CONTACT:**  
Dr. Ron Duerring,  
Superintendent  
Kanawha County Schools  
200 Elizabeth Street  
Charleston, WV 25311

ZMM is designing the new Edgewood Elementary School on Charleston's west Side that will replace the existing Watts and J.E. Robins Elementary. It will be constructed on a beautiful ridge in the historic Edgewood neighborhood. The school will serve 435 students from pre-Kindergarten through 5<sup>th</sup> grade.

The design intent is to create a "School of the Future" that will act as a teaching tool for the occupants. The building will demonstrate energy saving solutions through building orientation, solar energy, rainwater containment, and sustainable materials.

The project-based curriculum will be supported by a classroom environment that encourages learning and exploring literacy, mathematics, performance, and art/science. The new school will include a cafeteria/activity space, art/music room, full kitchen, outdoor learning areas, student health clinic, and a television broadcast studio.



# Martha Elementary School

*Cabell County Schools*



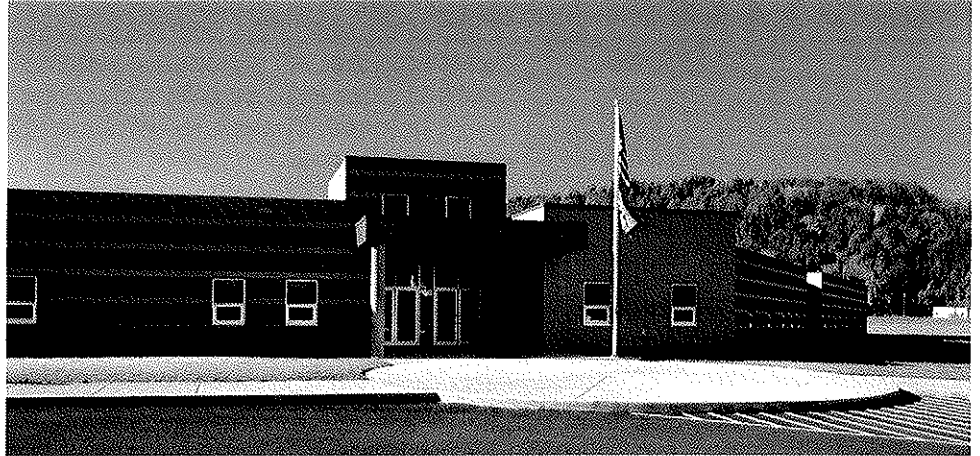
**LOCATION:**  
Martha, West Virginia

**SIZE:**  
33,000 SF

**COMPLETION:**  
2008

**COST:**  
\$6.9 Million

**CONTACT:**  
Mr. William A. Smith  
Superintendent  
2850 5th Avenue  
Huntington, WV 25702  
304.528.5030



The New Martha Elementary school for 309 students replaces an old out-dated facility that was partially built as a temporary structure. It is constructed on beautiful rolling farm land behind the existing school.

The larger site allows for future expansion as enrollment increases and large play areas that the existing facility was not able to accommodate. The facility includes food preparation facilities, cafeteria, multi-purpose room, media center, art and music facilities, and traditional elementary classroom spaces.



# Joint Interagency Training & Education Center

WVARNG



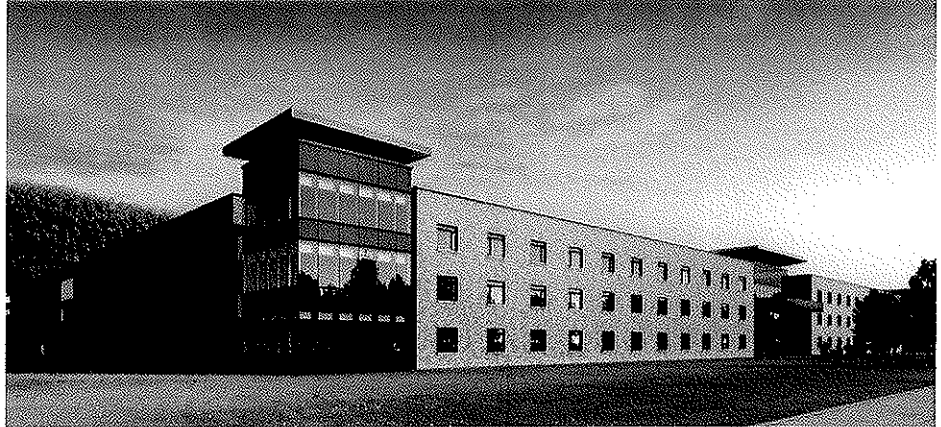
LOCATION:  
Kingwood, West Virginia

SIZE:  
285,000 SF

COMPLETION:  
Est. 2012

COST:  
\$110 Million

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



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

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

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



Renovation Project

# Joint Interagency Training & Education Center



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

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

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



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



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



# State Office Building #5, 10th Floor

Office of Technology



LOCATION:  
Charleston, WV

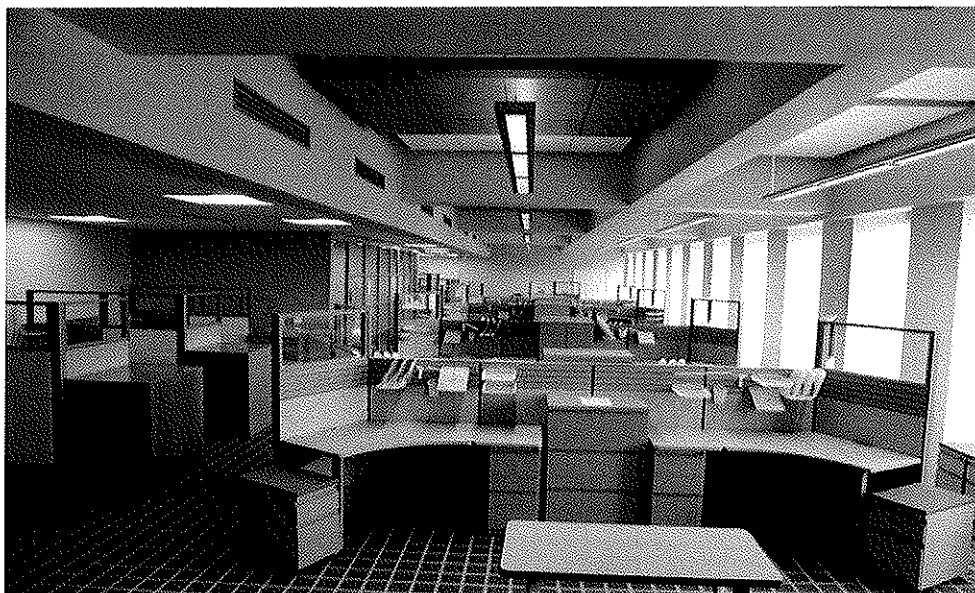
SIZE:  
22,000SF

COST:  
\$3.7M

COMPLETION:  
2010

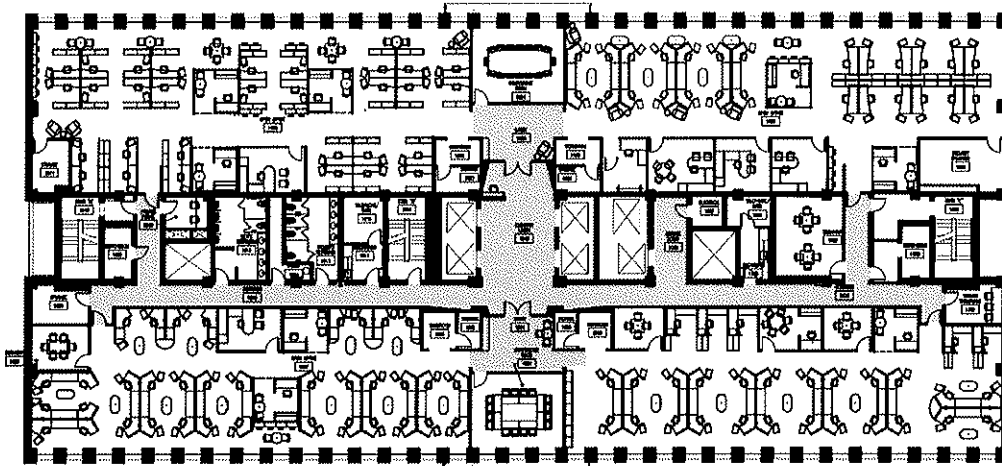
CONTACTS:  
Mr. David Oliverio  
Director  
General Services  
Division  
1900 Kanawha Blvd. E  
Charleston, WV 25305  
304.558.3517

Mr. Chuck Lawrence  
Director  
Department of Admini-  
stration  
Real Estate Division  
1409 Greenbrier Street  
Charleston, WV 25311  
304.558.4331

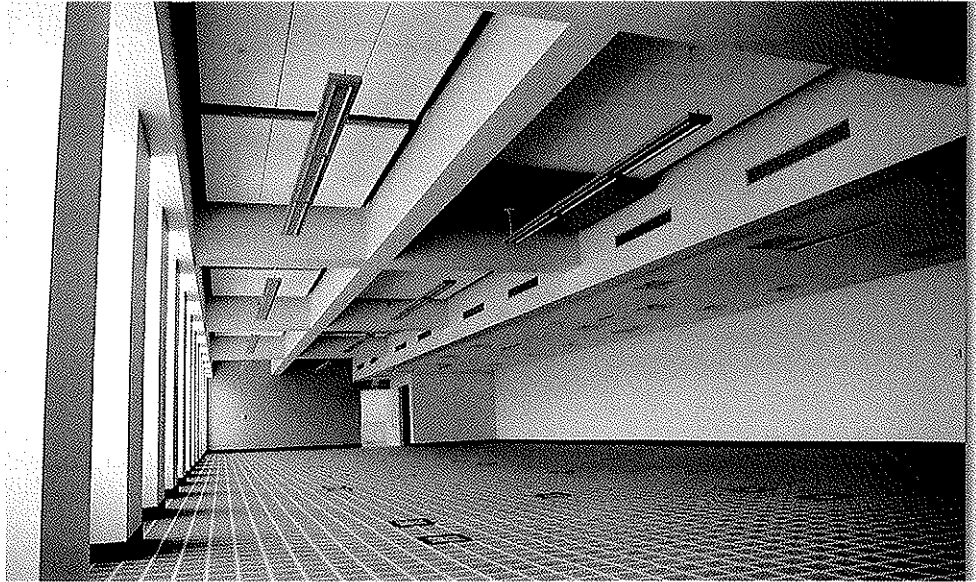
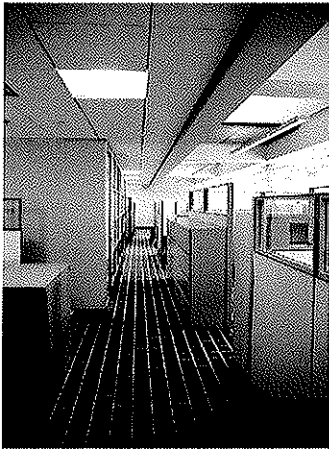


The renovation of the tenth floor of State Office Building #5 on the State of West Virginia Capitol Campus was recently completed for the Office of Technology. The renovation was designed to meet the United States Green Building Council's LEED for Commercial Interiors standard. To commence the project,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



# WEST VIRGINIA CAPITOL COMPLEX

BUILDINGS 5, 6, & 7

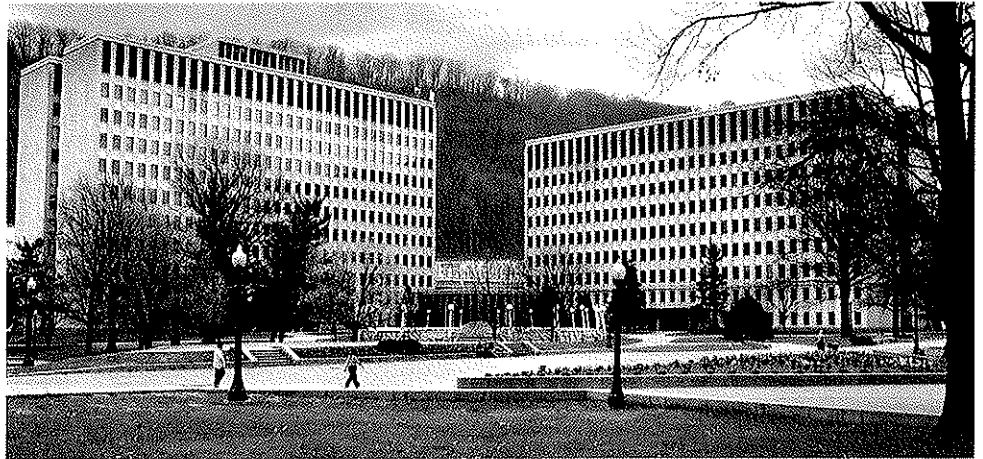


LOCATION:  
Charleston, West Virginia

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



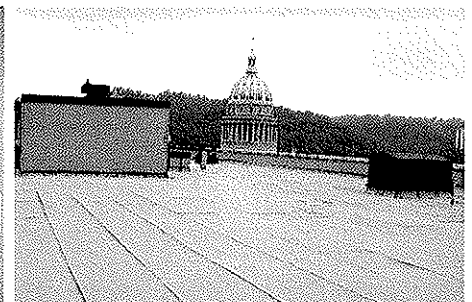
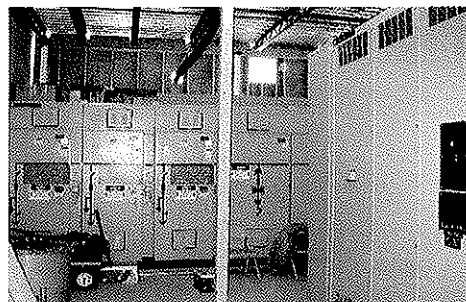
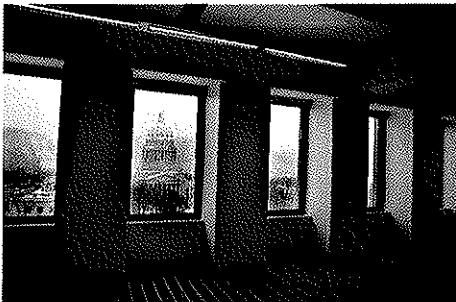
ZMM recently completed an in-depth analysis of Buildings 5, 6, and 7 on the Capitol Campus. The study included the preparation of as-built plans, as well as an analysis of all building systems, including: Life Safety; Vertical Transportation; Mechanical; Electrical; Data; Façade; Structure; and Roofing.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







**LOCATION:**  
Charleston, West Virginia

**SIZE:**  
14,000 SF

**COST:**  
\$3.7 Million

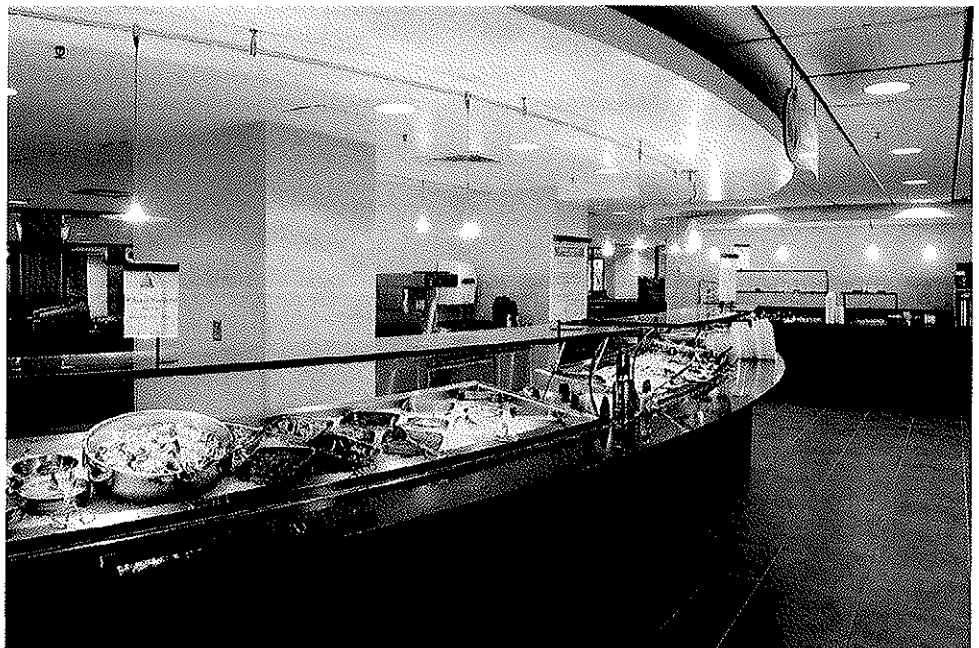
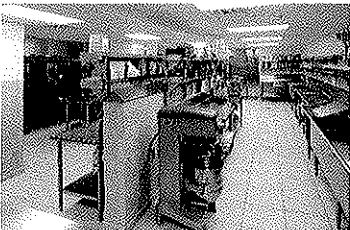
**COMPLETION:**  
2007

**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.



# Construction & Facilities Management Office

WVARNG



**LOCATION:**  
Charleston, West Virginia

**SIZE:**  
19,935 SF

**COST:**  
\$3.5 Million

**COMPLETION:**  
2008

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

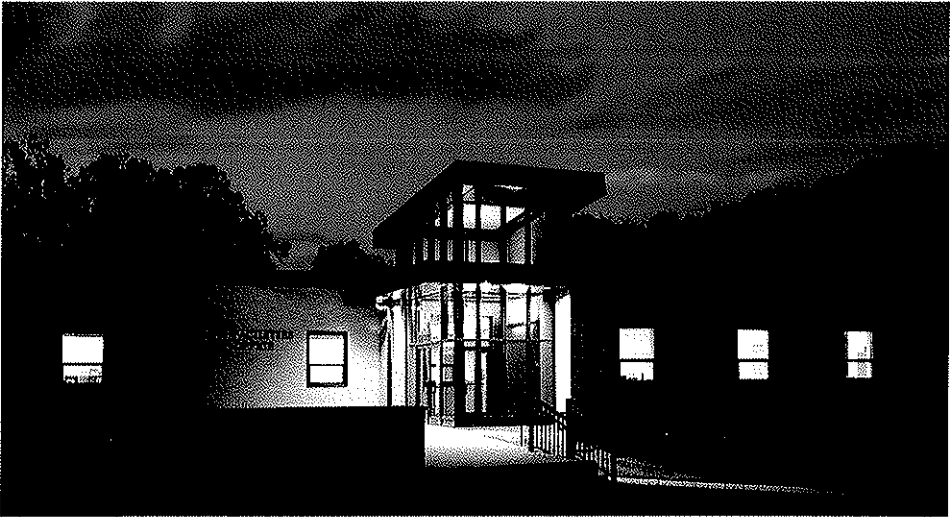
**AWARDS:**  
2009 AIA Merit Award,  
West Virginia Chapter,  
*Achievement in Architecture*



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.



# Jackson County Armed Forces Reserve Center

WVARNG



**LOCATION:**  
Milwood, West Virginia

**SIZE:**  
75,000 SF

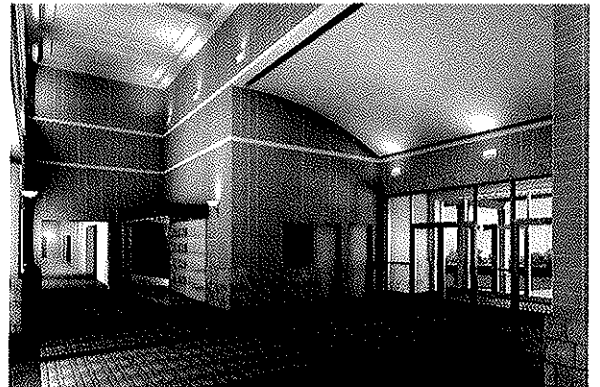
**COST:**  
\$20 Million

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



The new facility will house both the West Virginia Army National Guard (WVARNG) and the United States Army Reserves (USAR). The primary user for the WVARNG will be DET 1 821st Engineering Company, who will be supported by a FSC of the 1092nd. USAR occupants will include PLT AMMO 261 OD and PLT 1 (Postal) and PLT 6 (Postal) of the 44th Personnel Company. The facility will also include an expanded Drill Hall that can serve as a convention and meeting space, which is being funded by the Jackson County Commission, additional federal appropriations, and the State of West Virginia National Guard.

The relationship between the structures became crucial to the site layout. The new facility is centered on the existing house, increasing the exposure of the facility from Route 2 - the major route of vehicular travel that parallels the Ohio River. Once the aesthetic of the building was established, the massing of the new facility was defined by breaking-down the facility



into smaller mass elements that more closely reflected the Georgian Style, and that of many Army posts, such as Fort Meyer in Northern Virginia. The larger programmatic elements such as the Drill Hall and the storage areas employ an aesthetic that more closely implies their function.

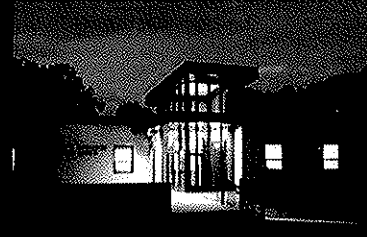
The layout of the facility includes a main entry with the USAR and WVARNG Recruiting, Family Support, and Administrative areas located on separate sides (USAR to the left, WVARNG to the right). A transverse wing on the left houses all functions that have the potential for public use, such as the Drill Hall and the Educational component, while all primary military spaces developed along a similar perpendicular wing on the right. This allows for separate entries to be developed for public functions, while the remainder of the facility can be secured. The layout also creates a large central courtyard or parade field that would be located at lower grade to define the edge facing the river. This edge will also be defined by a canopy that connects storage and locker areas to the expanded Drill Hall.

## Award Winning Design



2010

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



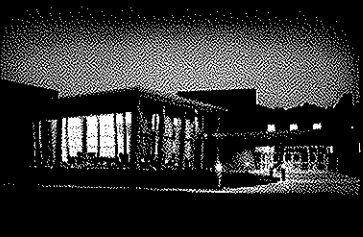
2009

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

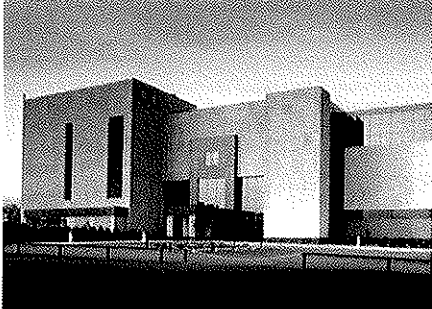
Gene Spadaro  
Juvenile Center  
Mount Hope, WV  
2006 - Merit Award  
*"Achievement in Architecture"*  
AIA West Virginia Chapter



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

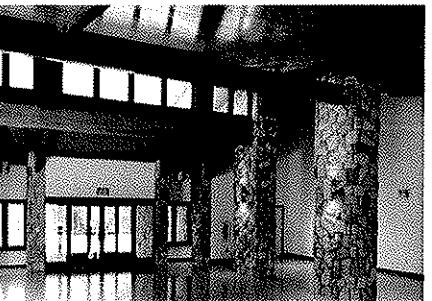
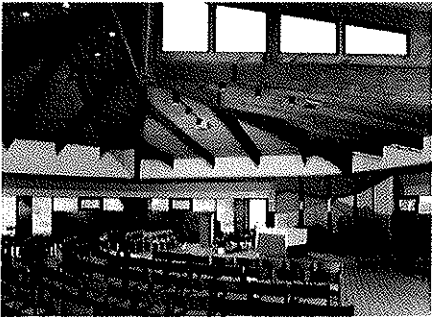
**Corporate Office Building**  
Contractors' Association of West Virginia  
Charleston, West Virginia

**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



# The Higher Education Foundation

200 MAIN STREET, BECKLEY, WEST VIRGINIA 25801-4613

TELEPHONE 304 929-2010 FACSIMILE 304 929-2009 forwardswv@earthlink.net

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January 22, 2008

Mr. Rod Watkins, Vice-President, AAIA, REFP  
ZMM, Inc.  
222 Lee Street West  
Charleston, WV 25302

Dear Rod,

Last week, January 14, 2008, we began the second semester of use of The Erma Byrd Center at the Public Higher Education Center campus, Beaver, West Virginia. This endeavor has been a significant triumph for our area and is the first of its kind in West Virginia. Seven public colleges/universities have come together in a single center in a spirit of cooperation rather than competition.

This is a note to thank you and the ZMM family for the critical role with excellence that you played in this project. Initially, we had worked with another architect in Pittsburgh, but unfortunately a series of events made continuance with them impossible. We were then met with crucial deadlines for reformulating an entire building with a very constricted timeline and an equally restricted budget. We turned to ZMM.

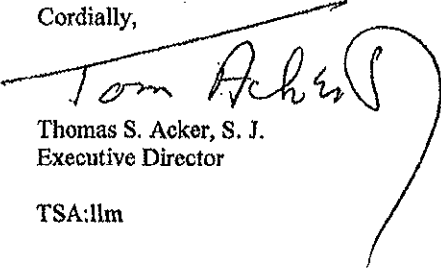
Our contract with you began in December, 2005. We had to complete architectural plans, bid the building, secure a contractor, and begin construction by July, 2006, in order to meet an opening date of August, 2007. ZMM was the perfect partner with us as we forged a new building on a yet raw campus and made it work.

The building designed by ZMM was elegant, yet simple. The budget parameters were met, including a striking view from I-64. The building design impresses all.

Radford & Radford was chosen as the builder, and ZMM worked with them expeditiously and effectively. The architectural plans were exceptionally clean, and the few change orders were almost entirely initiated by the owner as some afterthoughts developed. The project was completed on time, and the first semester was excellent. Over 131 classes were taught engaging 1,990 students.

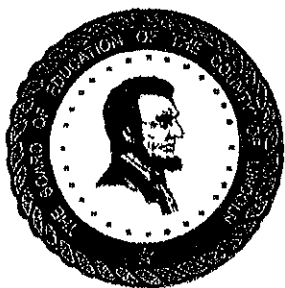
I simply wanted to send you this note of thanks for accepting a very daunting task, completing it with excellence, maintaining the very restricted budget, and making this whole project successful. We are now looking forward to a second building, and while we probably need by state law to seek architectural services through an RFP, I hope that ZMM will engage in the process. It would be to our benefit if ZMM were the winning architects. You have my highest recommendation and most sincere thanks.

Cordially,



Thomas S. Acker, S. J.  
Executive Director

TSA:llm



# Lincoln County Schools

David L. Roach  
SUPERINTENDENT

Jeff Huffman  
ASSISTANT SUPERINTENDENT

January 22, 2008

To Whom It May Concern:

As the previous superintendent of Cabell County Schools and present superintendent of Lincoln County Schools, I am in the unique position to comment on the services of ZMM, Inc., Architects and Engineers. They provided professional services in both of these counties and I found their services in both counties to be of the highest quality.

I have found, through my experiences with ZMM, that their services are equivalent to having additional employees of the school system. I base this statement on the fact that their representatives consistently monitor budget expenditures in order to stay within the project budget. Change orders are minimal and always justified. ZMM is present and accessible before, during and after project completion to assure the interests of the school system are being met. I particularly appreciate their support in dealing with contractors who may have remaining obligations or product deficiencies that need to be resolved following project completion.

Simply stated, ZMM works to assure that the interests of the client are met and refuses to bow to contractors by accepting less than quality work. I believe this is a rare quality and makes ZMM an elite company.

Sincerely,

A handwritten signature in cursive script that reads "David L. Roach".

David L. Roach  
Superintendent of Schools

RECEIVED  
NOV 1 / 2010  
ZMM, INC

Hacker Valley School  
11 School Loop Road  
Hacker Valley, West Virginia 26222  
304-493-6488

November 10, 2010

Dear Mr. Watkins,

I would like to take this opportunity to thank you for the computer equipment ZMM, Inc. donated to Hacker Valley School. The units were much needed by our school. The students have enjoyed having an additional computer station within their classrooms. Companies like yours certainly add to the quality of education within our school systems. With gratitude, I once again thank you.

Congressman Nick Rahall was at our school before the election and delivered a civics course for our middle school students. He commented about the building and was greatly impressed by the design. I explained your company designed our PK-8 school. He genuinely commented that this was the one of the most striking designs that fit into the natural surroundings he had seen. Kudos to all the design team!

On Monday, National Public Radio is coming to the community to research and do a story about the community, post office, and education of the community. We will be meeting at the school! The community utilizes the school for many functions. It is nice to see that education is at the center of the community. Thanks for making our environment conducive to community involvement.

Sincerely,



Kennetha Parker-Howes, Principal

Hacker Valley School





**WEST VIRGINIA ARMY NATIONAL GUARD  
CONSTRUCTION & FACILITIES MANAGEMENT OFFICE**

1707 Coonskin Drive

Charleston, West Virginia 25311-1085

Phone: 304-561-6339 Fax: 304-561-6458 DSN: 623-6339



15 April 2009

WV Higher Education Policy Commission  
Chief Procurement Officer  
Richard Donovan  
1018 Kanawha Blvd. East  
Suite 700  
Charleston, WV 25301

Dear Mr. Donovan,

The AECOM/ZMM Team has been assisting the West Virginia Army National Guard with the design of a 285,000 SF addition to the Robert C. Byrd Regional Training Institute (RTI) at Camp Dawson, near Kingwood, West Virginia. The new JITEC (Joint Interagency Training and Education Center) will include highly flexible educational facilities that will serve a dual use in the case of a state wide or national emergency. These facilities will include sophisticated data systems, video walls, and also incorporate a high level of electronic security.

The AECOM/ZMM Team has exceeded our expectations, delivering a high level of local expertise, complimented by the knowledge base of a large design firm. The Team's commitment to design quality has been demonstrated through the development of a site strategy that evokes a campus, while maintaining all of the programmed spaces in one facility. The JITEC design balances the need to re-orient the campus while also complimenting the existing RTI. The technical ability of the AECOM/ZMM Team has also been demonstrated through the design of redundant power and HVAC systems, as well as through the examination of various building components to meet the requirements of LEED Silver.

The AECOM/ZMM Team has been very responsive and has done an excellent job of communicating the West Virginia Army National Guard's vision for this project. Additionally, the design team has provided these services within a compressed timeframe to meet our requirements. Please contact me if I can provide any additional information about our experience with the AECOM/ZMM Team.

MELVIN L. BURCH

Brigadier General

West Virginia Army National Guard

Assistant Adjutant General