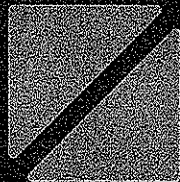


Architectural Design
Interior Design
Building Programming & Planning
Construction Administration
Mechanical Engineering
Electrical Engineering
Structural Engineering
Civil Engineering



"Green" Building Design
Master Planning
Site Evaluation & Analysis
Feasibility Studies
Value Engineering
Construction Cost Estimating
Energy Consumption Analysis
Life Cycle Cost Analysis

RECEIVED

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WV PURCHASING
DIVISION

Expression of Interest:
Buckhannon Field Maintenance Shop
West Virginia Army National Guard - RFQ# DEFK10020



June 17, 2010





ARCHITECTS & ENGINEERS

June 15, 2010

Mr. Chuck Bowman, Buyer
Department of Administration, Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, West Virginia 25305-0130

**Subject: Buckhannon Field Maintenance Shop
West Virginia Army National Guard
Requisition #DEFK10020**

Dear Mr. Bowman:

ZMM is pleased to submit the attached information to demonstrate both our experience and our capability to provide professional architectural and engineering services for the Buckhannon Field Maintenance Shop for the West Virginia Army National Guard (WVARNG). We are confident that our recent experience working with the WVARNG, our experience designing the Field Maintenance Shop in Glen Jean, as well as our extensive experience designing vehicle maintenance facilities for Walker Machinery makes ZMM the most qualified firm to provide professional design services for the Buckhannon Field Maintenance Shop.

Please note that as on several recent projects completed for the WVARNG, ZMM will collaborate with Capitol Engineering, Inc. for site and civil design. CEI is a small, locally owned, service oriented, civil engineering firm located in Charleston. Projects demonstrating ZMM's past collaborations with CEI are included in the attached information.

Thank you for taking the time to review the attached brochure that outlines detailed information regarding the history, services, personnel, experience, and qualifications of ZMM. Additionally, please visit our website at www.zmm.com to see the full range of projects that we have designed. We look forward to meeting with you in the near future to review our qualifications, and to discuss the Buckhannon FMS in greater detail.

Respectfully submitted,

ZMM, Inc.

A handwritten signature in black ink, appearing to read 'A R K', with a horizontal line extending to the right.

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

**Buckhannon Field Maintenance Shop, Upshur County
West Virginia Army National Guard - DEFK10020**



Cover Letter

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CEI Firm History and Services
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Maintenance Transportation Facilities
 - **Section #3: Sustainable Design**
 - **Section #4: Your Team**
Resumes
 - **Section #5: Award Winning Design**
Honors and Awards
 - **Section #6: References**
Mr. Rich Tetrick, Facilities Manager, Walker Machinery, WV
Thomas Acker, S.J., Executive Director, The Higher Education Foundation, WV
David Roach, Superintendent, Lincoln County Schools, WV
- Reference Letters

STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT**

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

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

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

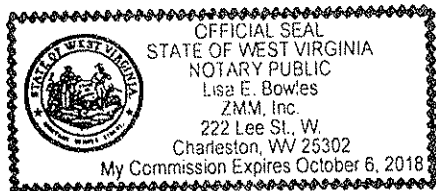
EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a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

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

WITNESS THE FOLLOWING SIGNATUREVendor's Name: ZMM, Inc.Authorized Signature: Ad. R. Ku, AIA Date: 15 JUNE 2010State of West VirginiaCounty of Kanawha, to-wit:Taken, subscribed, and sworn to before me this 15th day of June, 2010My 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
www.zmm.com

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

ZMM has maintained a diverse portfolio since the founding of the firm. Early commissions included higher education projects for West Virginia University and Concord College, State Office Buildings 5, 6, & 7 on the State of West Virginia Capitol Campus, and armories for the West Virginia Army National Guard. Maintaining a diverse practice for more than fifty years has provided ZMM with extensive experience in a variety of building types, including: educational facilities; governmental facilities (military, justice, correctional); healthcare facilities; commercial office space; light industrial facilities; and multi-unit residential facilities.

The original partners transferred ownership of the firm to Mr. Steve Branner, AIA and Mr. Robert Doeffinger, PE in 1986. Mr. Branner and Mr. Doeffinger helped guide and expand the firm to its present size of thirty-five (35) people. More recently Mr. Rod Watkins, REFP, Mr. David Ferguson, AIA, and Mr. Adam Krason, AIA, LEED-AP joined in ownership of the firm.



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 also employs a sustainability coordinator who assists our clients in determining appropriate sustainable design strategies for their projects. 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.

HISTORY AND PHILOSOPHY of ZMM

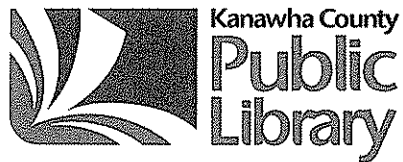


As ZMM enters our second half-century providing professional design services in West Virginia, we remain committed to the ideal of providing high quality, client focused, design solutions that meet budget and schedule requirements. This commitment to quality has been recognized through both State and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



West Virginia Symphony Orchestra

PROFESSIONAL SERVICES



Since its inception, ZMM has been dedicated to the integrated approach to building design (providing full architectural and engineering services in-house) 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.

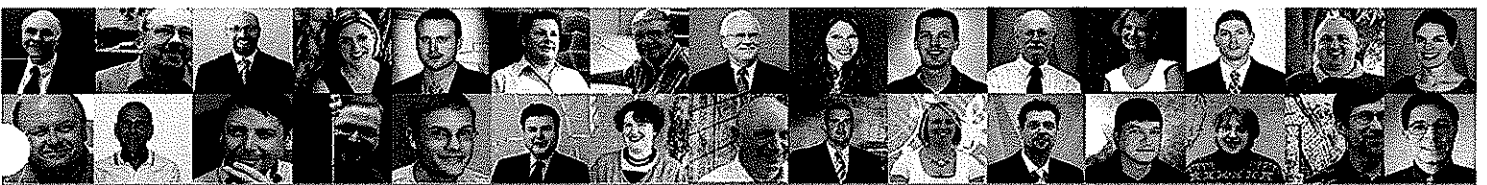
Additionally, ZMM is constantly working to improve the services we offer by addressing emerging and evolving trends that impact the design and construction market. ZMM has eight LEED accredited Professionals on staff to address the needs of our clients who are interested in designing buildings that meet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

ZMM offers all of the following professional services within our organization:

PRE-DESIGN

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

Executive Summary	Index (Pages)
National Guard Bureau Area (NSF)	
Concept	38-39
Site Feasibility	38-39
Total page	18-19
Department of Energy Area (NSF)	3-4
Concept	4-10
Site Feasibility	10-11
Program Feasibility	11-12
Master Plan	12-13
Construction Feasibility	13-14
Total page	65-69
AIFC Area (NSF)	
Concept	12-13
Site Feasibility	13-14
Program Feasibility	14-15
Master Plan	15-16
Construction Feasibility	16-17
Total page	14-19
Joint Interagency/Training Center - East Area (NSF)	
Concept	11-12
Site Feasibility	12-13
Program Feasibility	13-14
Master Plan	14-15
Construction Feasibility	15-16
Total page	48-52
Billeting Area (NSF)	
Concept	16-17
Site Feasibility	17-18
Total page	93-99
Total Building Area Area (NSF)	
National Guard Bureau	18-19
Department of Energy	65-69
Armed Forces Retirement Center	14-15
Joint Interagency/Training Center	48-52
Billeting	93-99
Total page	154-170



PROFESSIONAL SERVICES



DESIGN

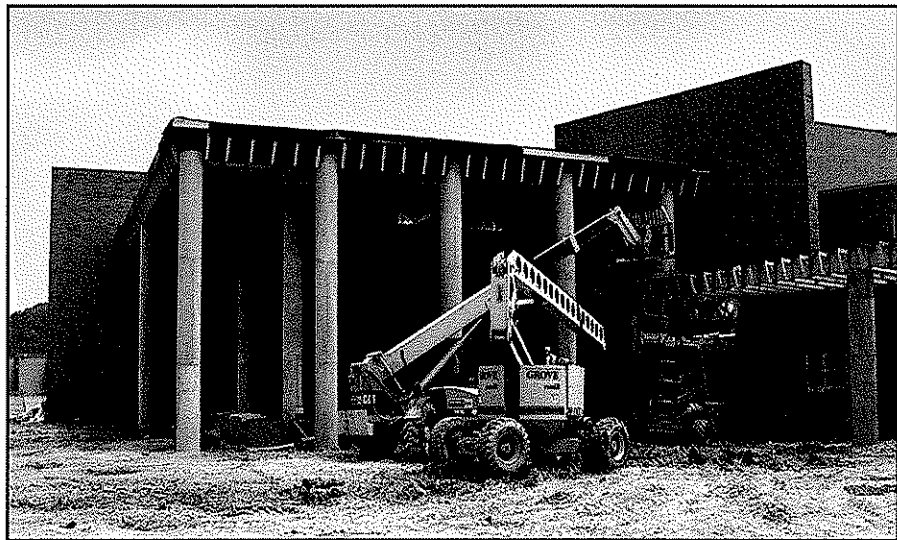
Architectural Design
Sustainable Design
Interior Design
Landscape Architecture
Structural Engineering
Mechanical Engineering

Electrical Engineering
Civil Engineering
Data System Design
Lighting Design
Energy Consumption Analysis



POST DESIGN

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





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

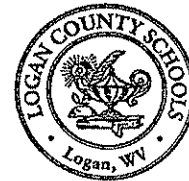
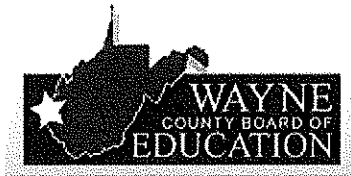
6. Staff Training, Assessment and Enhancement

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.



HISTORY OF CAPITOL ENGINEERING, INC.



LOCATION:
1206 Kanawha Boulevard, East
Charleston, WV 25301

CONTACT:
Phone 304.344.0720
www.capitolengineering.com

Capitol Engineering is a locally owned consulting engineering firm founded in 1999. CEI has steadily grown since its inception with three employees. CEI possesses in-house services in civil, environmental and mining engineering, contract administration, and surveying and mapping. Our staff is made up of two Professional Engineers, a Professional Surveyor, Project Engineers and Scientists, CAD Operators, Technicians, and administrative personnel.

Our client base is comprised of contractors, architects, engineers, developers, private industry, and federal and state agencies. Capitol Engineering, Inc. (CEI) proposes to perform civil engineering and surveying services for the West Virginia National Guard to develop engineering plans and specifications for the Jackson County Readiness Center.

We have experience planning, designing, specifying, preparing contract documents, bidding and performing contract administration on many types of military facilities including Readiness Centers, Airfields, Training Areas and Ranges. Our experience and resources give us the ability to handle both complex and routine projects.

CEI offers the highly specialized experience, attention to minute detail, and the unparalleled level of personal client support provided by a small boutique firm. We are particularly attractive because:

- Our management, engineering and professional staff has a combined total of over 120 years of experience – much of it acquired while working on military facilities.
- Staff has participation and completion of 30 National Guard projects in West Virginia.
- Management team has 30+ years and over 50 projects total specialized experience providing timely, cost effective construction documents for military facilities.
- Experience to successfully handle all design situations and problem types anticipated to occur under this contract.
- Construction and Facilities Maintenance Office satisfaction with prior work/projects performed by key staff members.

CEI PROFESSIONAL SERVICES



A complete list of services is as follows:

Civil Engineering

Geotechnical Engineering
Project Management
Rail Siding Design
Roadway Design
Site Development & Grading Plans
Siting Studies
Slope Stability Analysis
Stormwater Systems
Wastewater Treatment System

Environmental Engineering

Environmental Due Diligence
Environmental Site Reviews
Erosion & Sedimentation Control
NPDES, GPCC, SPCC Plans
Solid Waste & Landfill Design
Stormwater Management Plans

Surveying & Mapping

Control Surveys
Floodplain Studies
GPS Surveys
Mineral Reserve Surveys
Planimetric Surveys
Quantity Determination Surveys
River & Lake Soundings
Topographic Survey

Construction Administration

Bid Analysis & Management
Construction Observation
Damage Settlement
Submittal Review

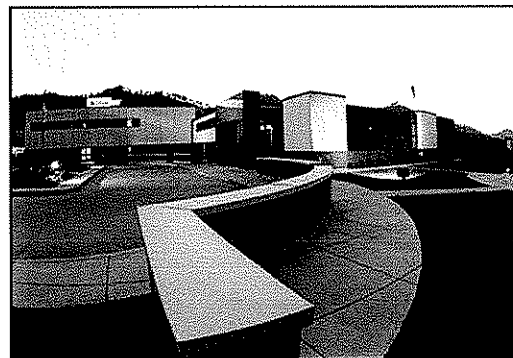
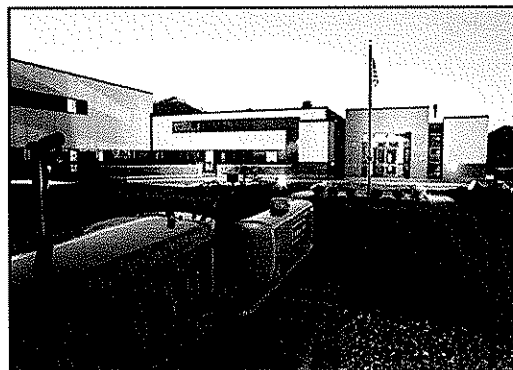
Mining Engineering

Abandoned Mine Land Reclamation
Acid Mine Drainage Passive Treatment
Geologic & Hydrologic Evaluations
Mine-Related Subsidence Investigations
Mining Permits, Modifications, & IBR's
Reclamation Liability Audits
Surface Mine Surveying & Mapping

Truck/Tractor Repair and Maintenance areas along with fuel storage:

Walker Machinery

- Truck and Tractor Maintenance/Shop Areas
- Express Sign, Jackson, OH
- Service Facility, Summersville, WV
- Facility Renovations, Huntington, WV
- Dynamometer Facility
- Hydraulic Shop, Beckley, WV
- Jackson Oil Storage Tank Plan
- Belle Shop Addition, Belle, WV
- Hydraulic Shop, Beckley, WV
- RITA Building Additions, Logan, WV
- Branch 90, Belle, WV
- Wash Bay Building
- Walker Drying Facility Renovations, Belle, WV
- Branch Office Renovations, Beckley, WV
- Lift Building 5 Renovations, Nitro, WV
- Walker Truck Stop



Bird Machinery

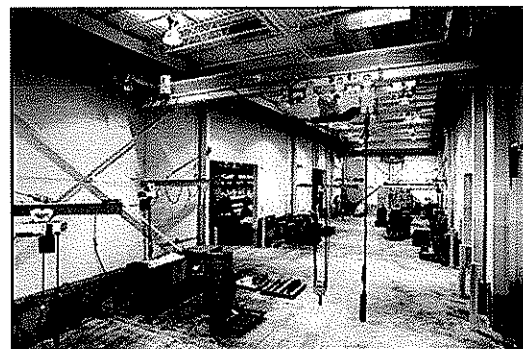
- Truck and Tractor Maintenance/Shop Areas

Cabell County, West Virginia

- Bus Garage Renovations
- New Bus Garage Site Study

West Virginia Army National Guard

- Glen Jean AFRC
- Construction & Facilities Management Office
- Kingwood AFRC
- Ripley AFRC
- Regional Training Institute
- Morgantown Readiness Center
- Logan/Mingo Readiness Center
- Joint Interagency Training & Education Center (JITEC)



Glen Jean Armed Forces Center

WVARNG

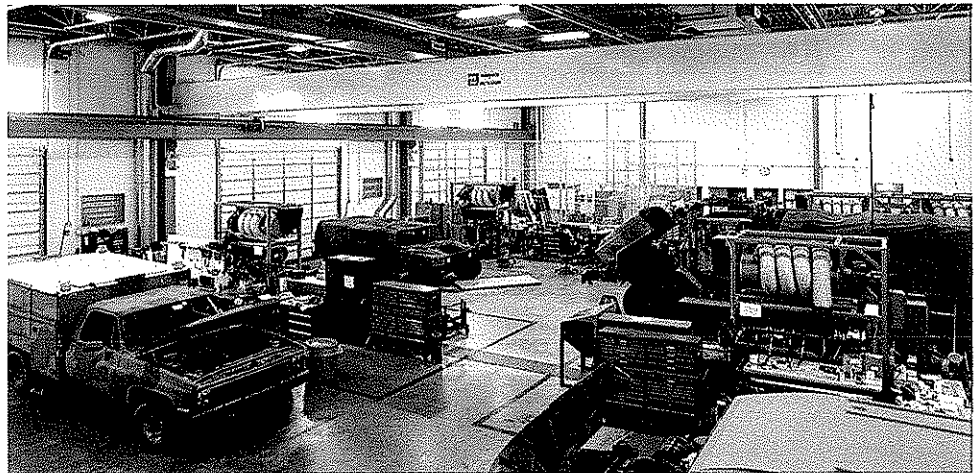


LOCATION:
Glen Jean, West Virginia

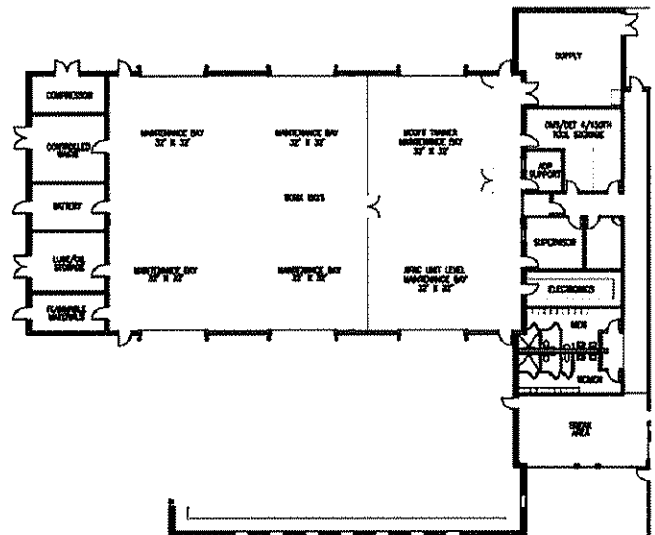
SIZE:
109,000 SF

COMPLETION:
2003

CONTACT:
General Melvin L. Burch
WVARNG
1703 Coonskin Drive
Charleston, WV 25311
304.561.6450



The Glen Jean Armed Forces Center contains three distinct military functions: a facility for routine maintenance of over-the-road and tracked military vehicles, an armory housing four West Virginia National Guard units and the Southern West Virginia Military Entrance Processing Station, where new recruits officially enter the military system.



The brick exterior walls are highlighted with limestone and metal trim accents. A large assembly hall, plus classroom and training space, enhance the ability of the armory building to provide training for military personnel, and additionally to provide space for community functions.

CONSTRUCTION & FACILITIES MANAGEMENT OFFICE

WVARNG



LOCATION:
Charleston, West Virginia

SIZE:
19,935 SF

COMPLETION:
2008

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



The Construction and Facilities Management Office (CFMO) Expansion project will bring all of the operations of the CFMO together under one roof. The branches that will occupy this facility include: Director of Engineering, Environmental, Planning and Programming, Facility Operations & Maintenance, Business Management, Resource Management, and Design and Construction. This new facility is located slightly to the front, and adjacent to the existing facility, lending prominence to the new construction, and providing a new aesthetic to the entire complex.

This transitional space was designed to connect the two structures, while maintaining a connection to the outside through use of natural light, direct visual connections to the exterior, large volumes, irregular geometries, and the use of 'natural' materials.

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

KINGWOOD ARMED FORCES RESERVE CENTER

WVARNG

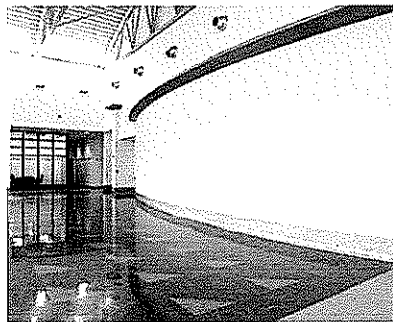
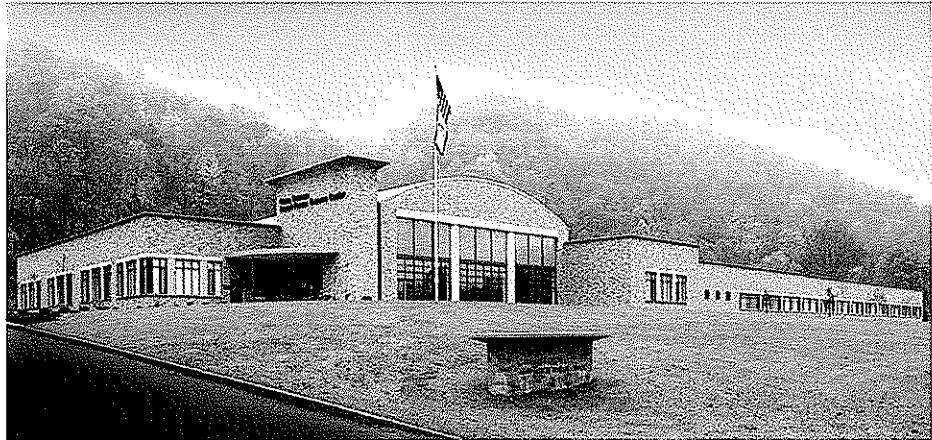


LOCATION:
Camp Dawson, West
Virginia

SIZE:
56,200 SF

COMPLETION:
2000

CONTACT:
General Melvin L. Burch
WVARNG
1703 Coonskin Drive
Charleston, WV 25311
304.561.6450



The Armed Forces Reserve Center will house five National Guard and Army Reserve Units and their support personnel. Its mission is twofold: first, to maintain readiness for its attached units and second, to serve as a resource to the surrounding community.

The primary readiness mission for the center's attached units is accomplished by providing designated spaces for each unit as well as general educational and gathering spaces that can be shared among the units.



The building's community mission is to provide a gathering space for social functions, a shelter-in-place in times of natural disaster, and a community education resource with distance learning network capabilities. It also includes kitchen and dining facilities and physical fitness areas.

RIPLEY ARMED FORCES RESERVE CENTER

WVARNG

ZMM

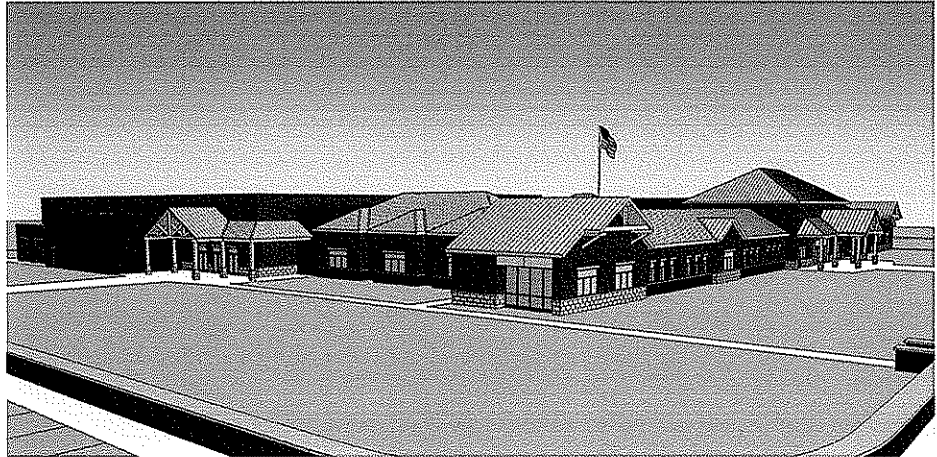
CEI

LOCATION:
Milwood, West Virginia

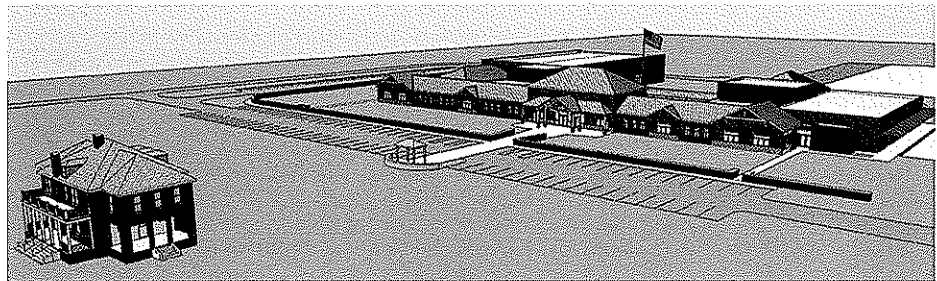
SIZE:
75,000 SF

COST:
\$ 20 Million

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

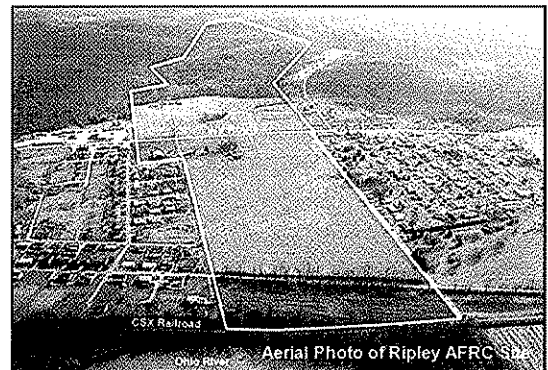


The new facility will house both the West Virginia Army National Guard (WVARNG) and the United States Army Reserves (USAR). The primary user for the WVARNG will be DET 1 821st Engineering Company, who will be supported by a FSC of the 1092nd. USAR occupants will include PLT AMMO 261 OD and PLT 1 (Postal) 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 site for the proposed facility includes a 344 acre tract of land located to the East of the Ohio River. The land is bisected by Route 2, and the new facility will occupy land between the river and Route 2, near the existing Order of the Eastern Star house.

The exterior aesthetic of the facility is strongly influenced by the existing Georgian Style Order of The Eastern Star house that will remain on the property. Due to the proximity to this existing structure, and the lack of other defining characteristics on the property,



RIPLEY ARMED FORCES RESERVE CENTER

WVARNG



LOCATION:
Milwood, West Virginia

SIZE:
75,000 SF

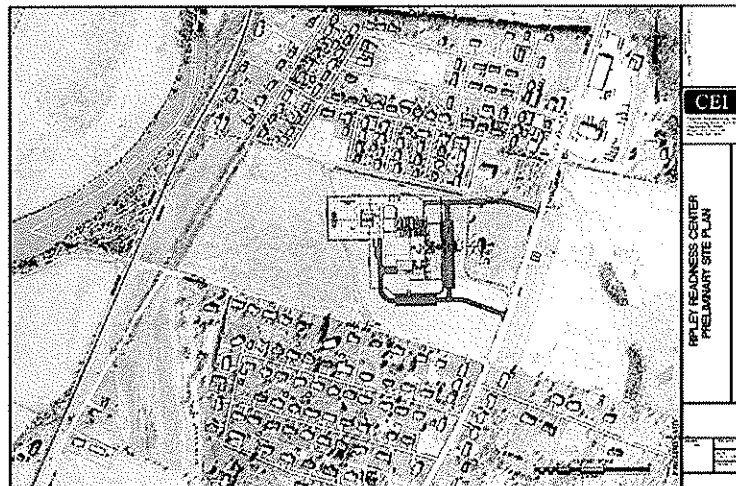
COST:
\$ 20 Million

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



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.



Robert C. Byrd - Regional Training Institute

WVARNG



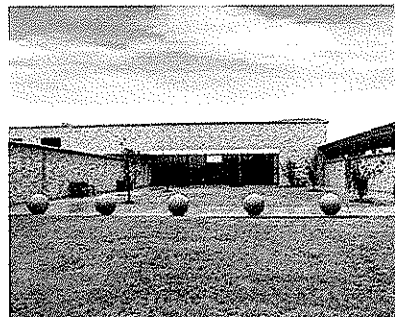
LOCATION:
Camp Dawson, West Virginia

SIZE:
148,066 SF

COMPLETION:
2002

COST:
\$21 Million

CONTACT:
General Melvin L. Burch
WVARNG
1703 Coonskin Drive
Charleston, WV 25311
304.561.6450



The Robert C. Byrd Regional Training Institute at Camp Dawson is a new 148,000 SF facility designed to provide training, dormitory, dining, and recreational facilities for the West Virginia Army National Guard. The facility, which includes 183 private dormitory rooms in addition to a wide range of training spaces is designed to accommodate a variety of both military and civilian training functions.

In addition to the housing and educational components, the facility also includes dining and recreational functions, including: a full-service dining hall; a snack-bar; a fitness center; an auditorium; as well as multiple group "break-out" or study rooms.

The design employs a large cylindrical mass that marks the main entry where guests can coordinate both their housing and educational needs. The housing wing is joined to the recreational and educational components with a large gathering/transitional space that often serves as an informal meeting area. Due to the success of the project, and growing use of the facilities, ZMM is currently assisting the West Virginia Army National Guard as they explore potential training and dormitory expansions.

MORGANTOWN READINESS CENTER

WVARNG

ZMM

CEI

LOCATION:
Morgantown, West Virginia

SIZE:
50,000 SF

COMPLETION:
Est. March 2012

COST:
\$ 20M

CONTACT:
General Melvin L. Burch
WVARNG
1707 Coonskin Drive



The Morgantown Readiness Center complex consists of over 50,000 square feet of heated space, additional unheated storage and approximately 32,000 square yards of rigid and flexible paving. The new facility will occupy a 35 acre tract on a former runway at the Morgantown Municipal Airport in Monongalia County.

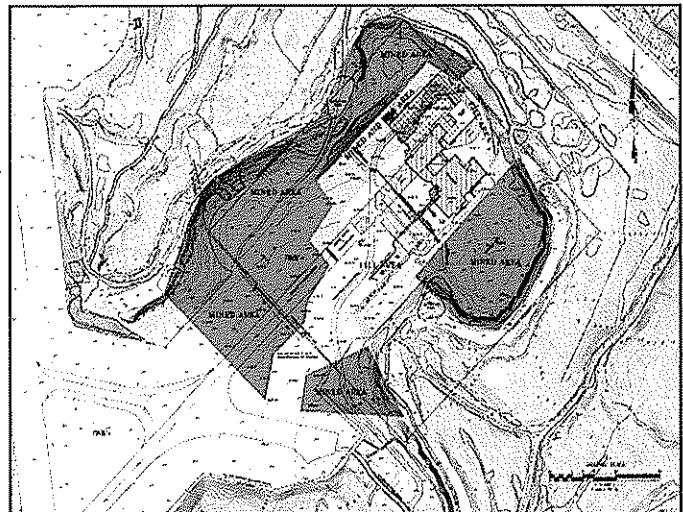
Capitol Engineering, Inc. (CEI) is performing all of the site investigation and site/civil design aspects of the project. Total project cost is estimated to be \$20,000,000.

The project includes the following major design elements:

1. Utilities and general site features
2. Military equipment parking, vehicle wash and fueling facilities, and loading ramp
3. Access roads and civilian parking lots

The project included the following site investigation elements:

1. Preliminary engineering, planning, and field reconnaissance
2. Surveying and mapping
3. Geotechnical investigation and laboratory testing
4. Mine subsidence investigation
5. Utility and construction easements



LOGAN - MINGO READINESS CENTER

WVARNG

ZMM

CEI

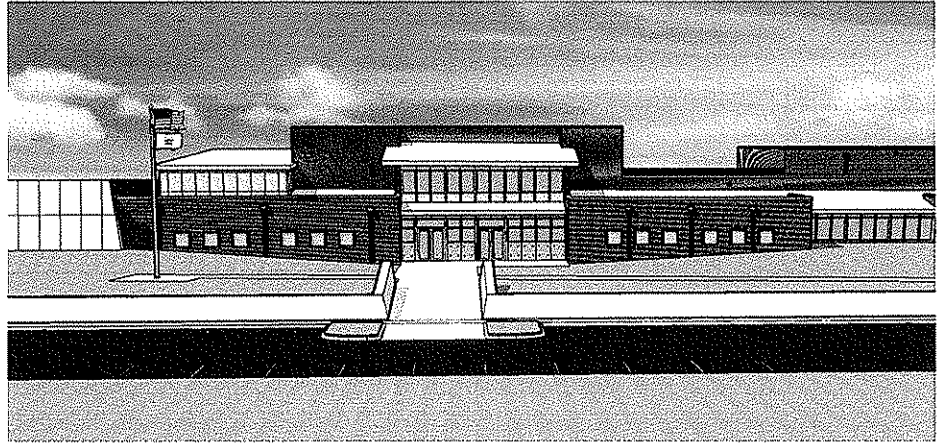
LOCATION:
Logan, West Virginia

SIZE:
54,000 SF

COMPLETION:
Est.

COST:
\$12 Million

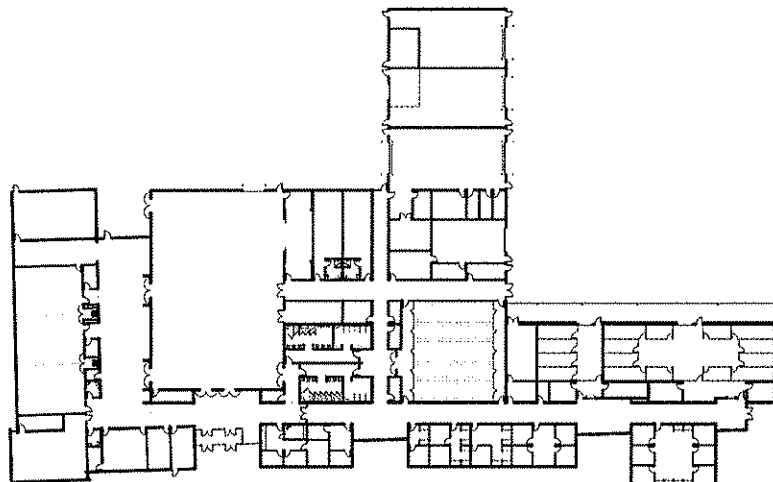
CONTACT:
General Melvin L. Burch
WVARNG
1707 Coonskin Drive
Charleston, WV 25311



The design of the Logan-Mingo Readiness center was developed by examining both the program and building site, and developing strategies to design a facility that is functional, responds to site, security, and aesthetic parameters, while requiring minimal maintenance.

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

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



JOINT INTERAGENCY TRAINING & EDUCATION CENTER

WVARNG

ZMM

CEI

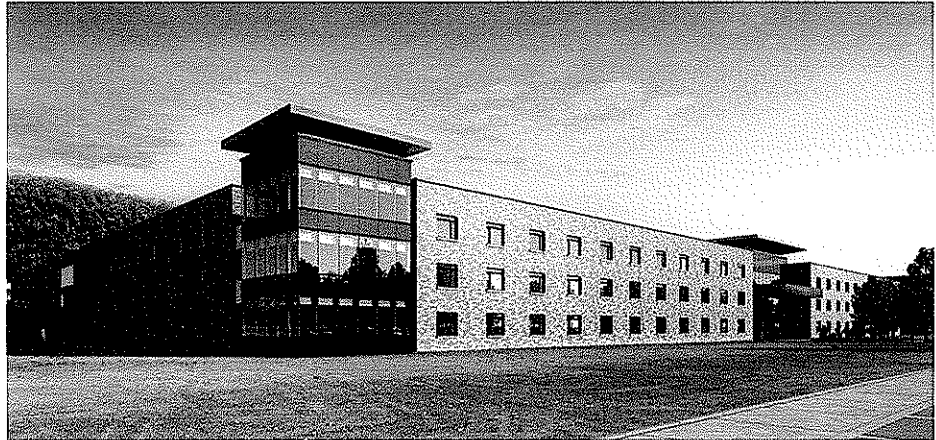
LOCATION:
Kingwood, West Virginia

SIZE:
285,000 SF

COMPLETION:
Est. 2012

COST:
\$110 Million

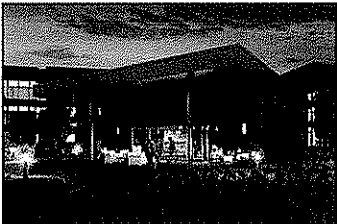
CONTACT:
Brigadier General
Melvin L. Burch



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 checkpoint and visitor center; and design for walkway connectors between all the facilities.



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



As the scale of the project includes several miles of roads, parking, and utility upgrades affecting the entire base, the project is being phased over a four-year construction period. Simultaneous construction of all of the new facilities, as well as phased construction in existing buildings, will minimize the disruption to current operations.



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. 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.

JOINT INTERAGENCY TRAINING & EDUCATION CENTER

WVARNG

ZMM

CEI

LOCATION:
Kingwood, West Virginia

SIZE:
285,000 SF

COMPLETION:
Est. 2012

COST:
\$110 Million

CONTACT:
General Melvin L. Burch
WVARNG



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 window-less environment, requiring proper lighting and creative use of materials to create an agreeable work atmosphere.



Adjacent to the JOC are three large training rooms, capable of seating 70 persons each. Lining the front of each room are LCD video walls with large, open areas for workstations, desks, and office equipment, as well as space for private offices. These rooms function primarily as training areas; however, their close proximity to the JOC allows maximum flexibility in securing the entire area from the rest of the building by means of card access-only doors.



The administrative office areas occupy a prominent position at the building's entry and consist of open office areas with workstations, private offices, conference rooms, and storage. The design of this area follows sustainable guidelines for daylighting, promoting a healthy work environment through the use of materials that comply with LEED requirements. The new 6,000-SF network server room, which serves as the base hub, occupies the second floor of the facility along with the building's engineering systems. All electrical, data and communications infrastructure is contained within raised access flooring throughout the building.

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.

LEED ACCREDITED PROFESSIONALS



"I became a LEED Accredited Professional because I believe that good design has value and the ability to impact our daily lives. The application of sustainable design principles enhances this value, and employs an integrated design approach that can improve both our environment, as well as the performance of building occupants. Sustainable design showcases the value of design through demonstrated improvements in the performance of the students and employees who occupy our building."

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



"Becoming a LEED AP was the culmination of years of environmental advocacy in the design community. Since then, it has allowed me to explore new avenues of design projects, and to provide leadership to clients, colleagues and the community. I believe LEED allows design teams to be more creative and cohesive because of the benefits of early project decision-making. It also makes design more fun!"

- Jill M. Watkins, IIDA, LEED AP



"I have been interested in sustainable design since learning about it while studying architecture and indigenous building techniques in the 1970's. I have continued my interest in sustainable design while designing various passive solar buildings. Becoming a LEED AP is a natural continuation in my interest in green building."

- Hank Walker, AIA, LEED AP



"I became a LEED Accredited Professional as a step in enabling and preparing myself for the design requirements of today, and certainly, the future. I believe that the continued and increased practice of sustainable design and living will be that bridge between losing an irreplaceable environmental health and flourishing in a world that is still unfolding."

- Mark T. Epling, AIA, NCARB, LEED AP

LEED EXPERIENCE



At ZMM, we believe that sustainable design is just good design. We are leaders in West Virginia through our projects and our sharing of knowledge:

First green secondary school in West Virginia – Lincoln County Comprehensive High School
First green higher education project in West Virginia – Erma Byrd Center for Higher Education



Sustainable design partnerships with and LEED presentations for:

- The Clay Center
- Natural Capital Investment Fund
- West Virginia Department of Education
- West Virginia School Building Authority
- West Virginia Association of School Administrators
- West Virginia Department of Environmental Protection
- Habitat for Humanity of Kanawha and Putnam County
- Kanawha County Solid Waste Authority
- Half Moon Seminars
- Travel Green Appalachia

Current LEED Registered projects:

State of West Virginia Office Buildings #5, 6 and 7

These 3 existing office buildings, comprising nearly 500,000 square feet of space are in need of extensive upgrades to improve life safety and environmental safety of employees. Interior renovations will also significantly improve workers' morale and productivity. The project is registered under LEED-NC v2.2.

Highlights include:

- Recycling of all existing demountable partition systems plus construction waste management
- New Energy Star roofs reduce heat island effect
- Low flow fixtures and dual-flush toilets to reduce water use
- New windows and central HVAC system will reduce energy consumption
- Significant indoor air quality improvements
- 95% of all office furniture is Cradle-to-Cradle Certified and Greenguard Certified



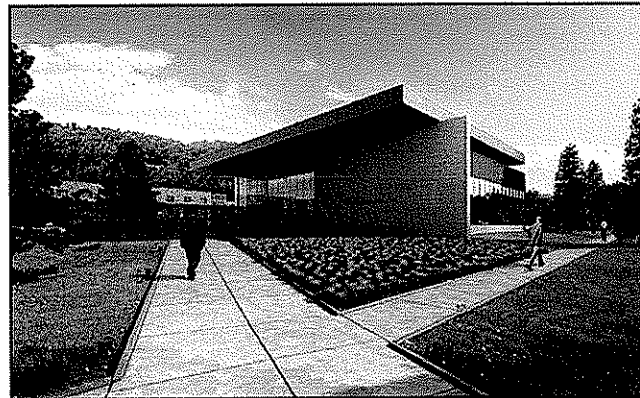
LEED EXPERIENCE



West Virginia Army National Guard Joint Interagency Training and Education Center

This 230,000 square foot project at Camp Dawson in Kingwood, West Virginia is registered under LEED-NC v2.2. Program elements incorporate an operations training and simulation center for the National Guard Bureau, homeland defense and training offices, classroom spaces and a billeting (hotel) component. While the project and existing site is complex in nature, the project expects to achieve LEED Silver. Highlights include:

- Stormwater reduction measures (vegetative roof, bioswales, etc.)
- Low flow fixtures, waterless urinals and dual-flush toilets to reduce water use
- Enhanced commissioning
- Highly efficient HVAC systems
- Construction waste management
- Increased use of local materials
- Increased indoor air quality measures



West Virginia Army National Guard Ripley Armed Forces Reserve Center, Jackson County

At 63,000 square feet, this new reserve center gets its inspiration from a Georgian-style house that sits on the site. Registered under LEED-NC v2.2, sustainable design highlights include:

- Stormwater – reduced quantity and increased quality measures
- Low flow fixtures, waterless urinals and dual-flush toilets to reduce water use
- Vertical and horizontal exterior sunshades plus superior glazing
- Highly efficient HVAC system
- Construction waste management
- Increased use of local materials
- Increased indoor air quality measures

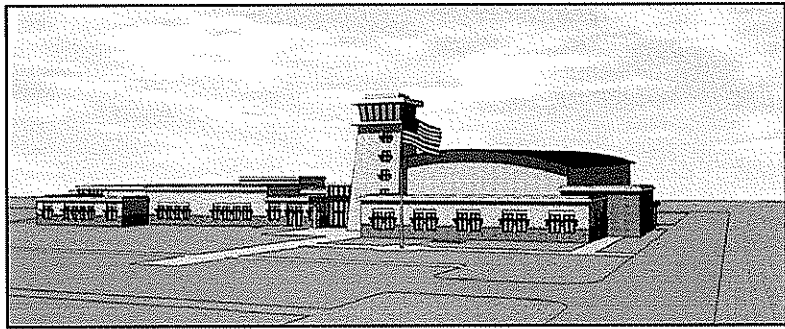
LEED EXPERIENCE



West Virginia Army National Guard Morgantown Readiness Center

At almost 70,000 square feet, this new readiness center will serve as a gateway to the Joint Interagency Training and Education Center at Camp Dawson. Registered under LEED-NC v2.2, sustainable design highlights include:

- Stormwater – reduced quantity and increased quality measures
- Heat island effect reduction
- Low flow fixtures, waterless urinals and dual-flush toilets to reduce water use
- Highly efficient HVAC system
- Increased use of local materials
- Construction waste management
- Increased acoustical performance



We also anticipate having 4 additional LEED Registered projects within the next 3 months.

In addition to the above, ZMM's Sustainability Coordinator, Jill Watkins, has nearly 15 years of experience with sustainable design and LEED, including significant contributions to:

- New Federal Courthouse, Youngstown, Ohio – the first courthouse in the U.S. and the first building in Ohio to become LEED Certified
- Cleveland State University New Recreation Center – LEED Consultant – project is LEED Certified
- Procter & Gamble / Gillette Headquarters – Boston Green Building Standards required strict adherence to LEED-NC – Anticipated LEED credits and sustainable design features led to P&G's green building standards for all U.S. facilities
- Cubellis, Inc., Boston, Massachusetts – LEED-CI Gold Registered
- Raytheon, Waltham, Massachusetts – LEED-CI Gold Registered

ADAM R. KRASON

AIA, NCARB, LEED AP



Position

Architect, Principal

Education

Bachelor of Architecture; The Catholic University of America, Washington, D.C.; 1998

B.S., Civil Engineering; The Catholic University of America, Washington, D.C.; 1998

Employment History

2008 - Present, Vice President

2003 - 2008, Project Architect

1998 - 2003, Project Architect, Charleston Area Architectural Firm

1998, Consultant, Anderson Consulting

Professional Credentials

Registered Architect: West Virginia and Ohio

LEED Accredited Professional

Construction Specifications Institute – CDT

Member of American Institute of Architect

NCARB Certification

Civic Affiliations

West Virginia Vision Shared-Sustainable Economic Development Team

West Side Main Street Design Committee, Charleston, West Virginia

West Virginia Qualifications Based Selection Council

Development Council, St. Agnes School, Charleston, West Virginia

Professional Experience

Mr. Krason's experience includes all aspects of the design and production of small and large projects with an emphasis on Military, Public, Government Facilities, Educational Facilities and Industrial Facilities. Mr. Krason also serves on ZMM's Board of Directors.

Specific project responsibilities: building programming, code compliance review, assistance with the preparation of architectural specifications, project budgeting and scheduling, schematic design compliance with project requirements, and the general overview of each project to ensure client expectations.

Project Experience

West Virginia Army National Guard - CFMO Expansion Project

West Virginia Army National Guard - Logan Readiness Center

West Virginia Army National Guard - Morgantown Readiness Center

Joint Interagency Training and Educational Center (JITEC)

State of West Virginia Division of Juvenile Services

Wood County Justice Center

State Office Building 5, 6, & 7 Analysis, 10th Floor Renovation

West Virginia University at Parkersburg, Downtown Facade

Parkersburg Catholic Schools

Mountaineer Middle School

Nicholas County High School Additions/Renovations



Position

Principal, Capitol Engineering, Inc.

Education

M.S., Engineering, Marshall University Graduate College, 1997

B.S., Engineering Technology, West Virginia Institute of Technology,
1989

Employment History

2000 - Present, Capitol Engineering Inc., Charleston WV

Professional Credentials

Society of American Military Engineers

American Society of Civil Engineers

American Institute of Architects

Construction Specifications Institute

Professional Experience

Project Manager with fifteen (15) years of experience with site investigation, planning, design and contract administration services on military, site development and mine reclamation projects. Mr. Fuller has been fully responsible technically, managerially and administratively for the planning, investigation, design and contract document preparation for over fifty (50) projects in the State of West Virginia.

Mr. Fuller has served as Associate Professor of Civil Engineering Technology at West Virginia University Institute of Technology on a full-time, part-time and adjunct basis.

Project Experience

Mr. Fuller was principal or project manager for the following West Virginia Army National Guard Projects completed by Capitol Engineering, Inc.

Logan County Feasibility Study
Ripley Armed Forces Reserve Center
Elkins Armed Forces Reserve Center
Fairmont Armed Forces Reserve Center
Morgantown Readiness Center
Summersville Readiness Center
Kingwood Readiness Center
Glen Jean Armed Forces Reserve Center
Mingo-Logan Siting Study
Camp Dawson Runway Extension
Camp Dawson Fuel Canopies
Williamson Armory Wash Pad and Military Parking



Position

Principal
Corporate Management
Architectural Programming
Architectural Design and Production

Education

B.S., Architecture; University of Cincinnati, Cincinnati, Ohio; 1967

Employment History

1967-1973, Project Architect; ZMM
1973-1982, Director of Architecture; ZMM
1982-present, President; ZMM

Professional Credentials

Registered Architect (WV, VA, OH, KY, FL, NY, CA)
NCARB Certification
Professional Member; American Institute of Architects (WV)
President, 1977 & 1978

Civic Affiliations

Member; South Charleston Rotary Club
Past member and Chairman, WV Archives & History Commission

Professional Experience

Mr. Branner has been employed with ZMM since 1967. His experience includes all aspects of the management, design, and production of small projects to those exceeding \$100M with an emphasis on Military / Public / Governmental Facilities, Correctional Facilities, and Industrial Facilities.

Mr. Branner also maintains an active role in each project in which he is the principal-in-Charge from it's inception through construction completion. Specific project responsibilities include contract negotiation, building programming, project budgeting, and scheduling, schematic design compliance with project requirements, cost estimating, quality control, and the general overview of each project to insure that client expectations are met.

Major clients overseen by Steve include:

State of West Virginia Division of Juvenile Services
West Virginia Regional Jail & Correctional Facility Authority
West Virginia Army National Guard
Dow Chemical Company
NGK Spark Plug Company
Cecil I. Walker Machinery Company
West Virginia General Services Division
Kanawha County Public Library
Charleston Area Medical Center (CAMC)
Highland Hospital



Position

Senior Mechanical and Electrical Engineer

Education

B.A., English, West Virginia University, 1972
2 Years toward B. S., Mechanical Engineering, WVIT, 1974-1975
M.A., Humanities, Marshall University Graduate College, 2004

Employment History

1989-Present, ZMM, Senior Mechanical Engineer
1976-1989, Charleston Area Engineering Firm, Project Manager
1972-1976, Charleston Area Engineering Firm, Designer

Professional Credentials

Registered Engineer (WV)
Member of ZMM's Board of Directors
Member of ASHRE

Professional Experience

Mr. Cook started his career in 1972 as a designer for an engineering firm in Charleston, WV. He is a Professional Engineer registered in West Virginia. He has designed and engineered many projects throughout the state of West Virginia.

Responsibilities Include:

Mechanical Design and Engineering.
Serves as liaison between clients and utility companies.
Design of sanitary and gas site utilities, site utility specifications.
In-house review of plumbing, sprinkler system, fire pump, and domestic water booster pump designs.
Review of plumbing, fire protection specifications, and temperature control design.
Equipment selection - air handling units, pumps, and boilers, site visits, observation reports and punch lists.

Project Experience

WV Army National Guard - Glen Jean Armed Forces Center
WV Army National Guard - Logan Readiness Center
WV Army National Guard - CFMO Expansion Project
State of West Virginia Division of Juvenile Services
West Virginia Regional Jail & Correctional Facility Authority
Highland Hospital
Saint Albans High School
Lincoln County High school

ROBERT C. DOEFFINGER

PE



Position

Principal, Engineering Project Manager
Corporate Management, Project Management and Coordination, Engineering
Programming and Design

Education

B.S., Mechanical Engineering; West Virginia University, Morgantown, West
Virginia; 1973

M.S., Architectural Engineering; Pennsylvania State University, University
Park, Pennsylvania; 1976

Employment History

1982-present, Vice-President, Secretary and Treasurer; ZMM

1977-1982, Director of Engineering; ZMM

1976-1977, Mechanical and Architectural Engineer; ZMM

Professional Credentials

National Council of Examiners for Engineering and Surveying (NCEES)
Registered Engineer (WV, TN, FL, PA, VA, NC, SC, ME, OH, NH, NY, KY)
Member; ASHRAE - Chairman, Technical Committee 4.1 - HVAC Load Cal-
culations

Civic Affiliations

Councilman; City of Point Pleasant, WV

Director; Mason County Development Authority

Director; Point Pleasant River Museum

Member; West Virginia Institute of Technology Electrical Engineers Technical
Advisory Committee

Professional Experience

Mr. Doeffinger is Principal-in-Charge of Engineering. It is his responsibility to ensure that the mechanical and electrical engineering components of ZMM's design are coordinated and integrated into the final product.

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

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



Position

Architect, ZMM, Inc.

Education

Bachelor of Architecture, University of Tennessee, Knoxville, TN, 2007
Architectural Drafting and Construction Technology, West Virginia State College, Institute, WV

Employment History

2009 - Present, Architect, ZMM, Inc.
2007 - 2008, Designer, ZMM, Inc.
2003 - 2006, Summer Intern, ZMM, Inc.

Professional Credentials

American Institute of Architects (WV)

Professional Experience

Mr. Spencer has been employed by ZMM since 2003 when he started working as an intern. Experience includes the production of architectural drawings throughout all phases of the project.

Mr. Spencer has background developing both 3-D and physical models along with construction document production. Mr. Spencer works closely with the project architect to efficiently produce clear and accurate drawings to ensure that client expectations are met.

Project Experience

State of West Virginia Division of Juvenile Services
Joint Interagency Training Educational Center (JITEC)
WV Army National Guard - Logan Readiness Center
WV Army National Guard - Morgantown Readiness Center
WV Army National Guard - Ripley Readiness Center
WV Army National Guard - CFMO Expansion Project
Judge Black Courthouse Annex
Martha Elementary School
Hacker Valley Pre-K-8 School
Southside Elementary/Huntington Middle School
Highland Medical Facility
The Boulevard at 2412 - Residential Housing Project

JILL M. WATKINS

IIDA, LEED AP



Position
Sustainability Coordinator

Education
Bachelor of Science, Interior Design, The University of Tennessee, Knoxville, TN, May 1993

Employment History
2008 - Present, Interior Designer/Sustainability Coordinator, ZMM
2005 - 2008, Cubellis, Boston MA
2004 - 2005, Wolf Maison Limited, Cleveland, OH
2003 - 2004, Doty & Miller Architects, Bedford, OH
1999 - 2003, URS Corporation, Cleveland, OH
1998 - 1999, KA, Inc. Architects, Cleveland, OH

Professional Credentials
Professional Member IIDA
NCIDQ Certificate, October 1997
LEED Accredited Professional, April 2003

Professional Experience
Ms. Watkins has over 15 years of experience in the field of architecture, focusing on high quality and sustainable design. She has been involved in several detailed programming efforts for both new construction and interior renovations. Ms. Watkins has participated in a six week endeavor that entailed developing building standards, preparing final documentation, verifying existing conditions, as well as reviewing questionnaires.

Other experience includes Space Planning on a variety of projects, such as open offices, science labs, dental offices, CEO Suites and Classrooms.

Project responsibilities also include, Schematic Design & Design Development, Construction Documents, Finish Selection, Furniture Selection, Lighting Design and Sustainability Coordination.

ZMM Project Experience
Joint Interagency Training and Education Center (JITEC)
Highland Hospital
West Virginia Housing Development Fund
West Virginia State Office Buildings 5, 6, & 7
Wood County Justice Center
West Virginia Army National Guard - Ripley Armed Forces Reserve Center

Additional Project Experience
The University of Akron Arts & Sciences/Student Affairs Building
Cleveland State University - Recreation Center/Library Renovation
Notre Dame College of Ohio - Multiple Projects
Beachwood Middle School
Midwest Research
Procter & Gamble - Gillette Headquarters

HANK WALKER

AIA, LEED AP



Position

Project Architect, ZMM

Education

B.S., Architecture; University of Cincinnati, Cincinnati, Ohio; 1973

Employment History

1980-Present, Project Architect; ZMM

1977-1980, Architectural Draftsman and Designer; ZMM

1973-1976, Designer/Community Planner; Peace Corps, Iran

Professional Credentials

Registered Architect (WV)

LEED Accredited Professional

Civic and Professional Affiliations

Professional Member; American Institute of Architects

Professional Member; West Virginia Society of Architects

Executive Board Member; Salvation Army Advisory Board

Professional Experience

Mr. Walker began his career in Architecture with ZMM, Inc. in 1977. He is responsible for the overall work process relating to design, documentation and bidding. In addition to his project management responsibilities.

He is also responsible for generating construction details as necessary to ensure compliance with design intent, performing building code/ordinance analysis, coordinating structural,

Project Experience

West Virginia Army National Guard Family Readiness Center

State of West Virginia Division of Juvenile Services

Alderson Federal Prison Camp

Hazelton Federal Prison Camp

West Virginia State Office Buildings 5,6 & 7

Stonewall Jackson Lake State Park

Resort at Glade Springs

Braxton County Memorial Hospital

Greystone on The Cheat

Beverly Hills Middle School

Barboursville Middle School

Brookview Elementary School

Sissonville Library



Position
Electrical Engineer

Education
B.S., Electrical Engineering; West Virginia University Institute of Technology,
Montgomery, West Virginia; 1995

Employment History
2000 - Present, Electrical Engineer, ZMM, Charleston, WV
1995 - 1999, Electrical/Control Systems Designer, WV Engineering
Firm

Professional Credentials
Professional Engineer (WV)

Professional Experience
Mr. Casdorff started his career in 1995 as an electrical/control systems de-
signer. He is responsible for Electrical Design and Engineering on various
ZMM projects.

Responsibilities Include:
Lighting Design (Interior & Exterior)
Electrical Power Distribution
Security System Design
Data System Design
Fire Alarm System Design
Sound System Design
Division 16 Specifications
Electrical Drafting & Design CAD

Project Experience
West Virginia Juvenile Detentions Centers
WV Army National Guard - Logan Readiness Center
WV Army National Guard - Morgantown Readiness Center
CFMO Expansion Project
WV Army National Guard - Glen Jean Armed Forces Center
Southside Elementary and Huntington Middle School
Milton Middle School
Wayne Elementary School
Martha Elementary School
Jaeger Elementary School
Lincoln County High School



Position
Civil Engineer

Education
B.S., Aerospace Engineering, U.S. Naval Academy, Annapolis, MD 1993
B.S., Math and Science Education, WV State College, Institute, WV, 2001

Employment History
2008-Present, Civil Engineer, ZMM
2001-2008, Staff Engineer, Potesta & Associates, Inc.

Professional Credentials
Registered Engineer (WV)

Professional Experience
Ms. Cleland has experience in both civil and environmental engineering. She has extensive knowledge of sanitary sewer collection system design, wastewater treatment plant design, grading plans, site utility design, and associated permit applications preparation.

Her environmental remediation experience includes Phase I Environmental Site Assessments, Phase II Environmental Site Assessments, and participation in Baseline Human Health Risk Assessments. Ms. Cleland consulted on the air pollution permit applications and general permit applications for large and small emission units, such as standby/emergency generators for site development projects.

Project Experience:
Hacker Valley K-8 School
Martha Elementary School
Milton Middle School
Barboursville Middle School
Harts K-8 School
Bradshaw Schools, McDowell County
Parkersburg Catholic Athletic Annex
State of WV Office Buildings 5, 6 & 7
Highland Medical Facility
Goodwill Industries Addition
Cedar Lakes Conference Center Roadwork
Kanawha Valley Senior Services
West Virginia Housing Development Fund



Position

Structural Engineer, ZMM

Education

B.A., Civil Engineering, West Virginia University Institute of Technology, Montgomery, WV, 1996-2001

M.A., Civil Engineering - Structural, University of Tennessee Knoxville, TN, 2001-2003

Employment History

2007-Present, ZMM

2003-2007, Principal Engineer, McCall Engineering, LLC, Sarasota, FL

2001-2003, Teaching Assistant and Thesis Research, University of Tennessee, Knoxville, TN

Professional Credentials

Professional Engineer (PE), 2007

Certified Engineer in Training (EIT), 2001

Professional Experience

Responsible for structural engineering design of residential structures, commercial structures, institutional structures and small scale bridges.

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

Project Experience

Southside Elementary/Huntington Middle School

Highland Medical Facility

New River Elementary - Supplemental Support

Hacker Valley Elementary - Supplemental Support

Barboursville Middle School - Supplemental Support

Glen Jean Armed Forces Center - Joist Reinforcement

West Virginia Cultural Center

Award Winning Design



2010

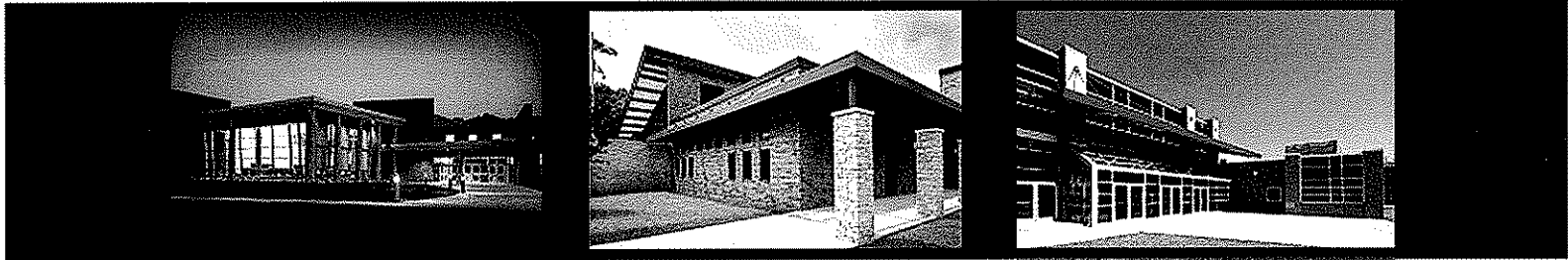
2009

2008

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

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

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



2007

2006

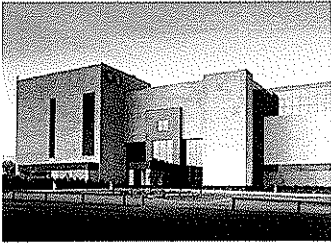
2004

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"

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

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"

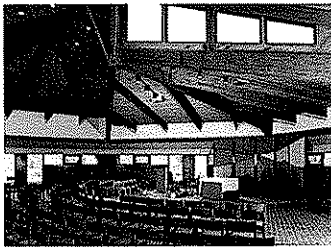
Additional Award Winning Design



West Virginia Society of Architects Design Honor Awards

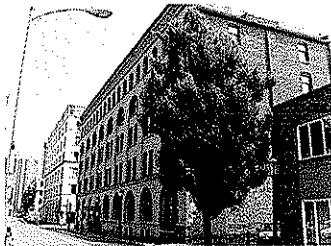
Corporate Headquarters Facility
Blue Cross / Blue Shield of West Virginia
Charleston, West Virginia

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

Buckhannon Field Maintenance Shop

RFQ# DEFK10020

- **Mr. Rich Tetrick, Facilities Manager**
Walker Machinery
PO Box 2427
Charleston, West Virginia 25329
304.949.6400

- **Thomas S. Acker, S.J., Executive Director**
The Higher Education Foundation
200 Main Street
Beckley, West Virginia 25801
304.929.2010

- **David L. Roach, Superintendent**
Lincoln County Schools
10 Marland Avenue
Hamlin, West Virginia 25523
304.824.3033

The County Commission of Wood County

No.1 Court Square, Suite 203
Parkersburg, West Virginia 26101
(304) 424-1984



ROBERT K. TEBAY

RICK MODESITT

DAVID BLAIR COUCH

COUNTY ADMINISTRATOR

Marty Seufert
424-1976

COUNTY CLERK

Jamie Six
424-1850

March 3, 2008

Dear Sir/Madam:

This is a letter of reference for Adam R. Krason, ZMM, Inc. The County Commission of Wood County has employed ZMM, Inc. on several projects, most notably the renovation of the Judge Black Annex.

Mr. Krason has always been extremely professional and has proven himself to be very flexible in meeting our needs. He is friendly and easy to work with. He has proven to be an asset to the County and we anticipate a long-term relationship with ZMM, Inc. in the coming years.

Sincerely,

THE COUNTY COMMISSION OF WOOD COUNTY

A handwritten signature in cursive script, appearing to read "Robert K. Tebay", is written over a horizontal line.

Robert K. Tebay, President

A handwritten signature in cursive script, appearing to read "Rick Modesitt", is written over a horizontal line.

Rick Modesitt, Commissioner

A handwritten signature in cursive script, appearing to read "David Blair Couch", is written over a horizontal line.

David Blair Couch, Commissioner

WCC:ah

The Higher Education Foundation

200 MAIN STREET, BECKLEY, WEST VIRGINIA 25801-4613

TELEPHONE 304 929-2010

FACSIMILE 304 929-2009

forwardsww@earthlink.net

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.

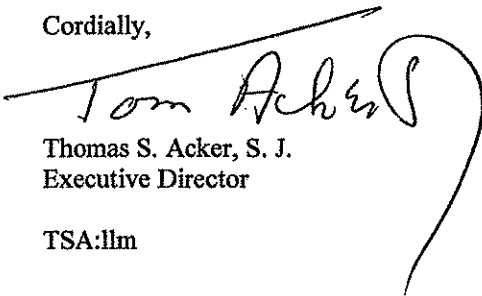
Our contract with you began in December, 2005. We had to complete architectural plans, bid the building, secure a contractor, and begin construction by July, 2006, in order to meet an opening date of August, 2007. ZMM was the perfect partner with us as we forged a new building on a yet raw campus and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

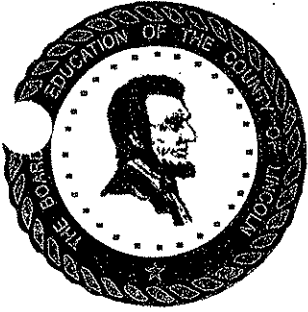
I simply wanted to send you this note of thanks for accepting a very daunting task, completing it with excellence, maintaining the very restricted budget, and making this whole project successful. We are now looking forward to a second building, and while we probably need by state law to seek architectural 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,

David L. Roach
Superintendent of Schools