



ARCHITECTS & ENGINEERS

February 2, 2010

Mr. John Abbott, Buyer
Purchasing Division
P.O. Box 50130
Charleston, WV 25305-0130

RECEIVED

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WV PURCHASING
DIVISION

Subject: Division of Corrections Work Release/Training Center COR61447

Dear Mr. Abbott:

ZMM is pleased to submit the attached Expression of Interest to demonstrate our experience and our capability to provide professional architectural and engineering design and construction administrative services for the four (4) Work Release/Training Centers that will be located throughout the State of West Virginia. We are confident that our unique combination of correctional and renovation experience will make ZMM a great partner for the West Virginia Division of Corrections on these projects.

Since 1959, ZMM has been consistently recognized as one of the largest, fully integrated architecture and engineering firms in the State of West Virginia. Throughout the history of the firm, ZMM has participated in the design of both State and Federal correctional facilities throughout West Virginia. Recently, several ZMM employees had the opportunity to participate in a meeting of the Governor's Commission on Prison Overcrowding. Following the meeting, ZMM investigated emerging trends in correctional design and construction, and identified several trends that are relevant to the proposed Work Release/Training Centers. These trends, which focus on normative design, adaptive reuse, and reduced energy consumption, reflect a design strategy that will help the State of West Virginia meet the need for additional correctional facility capacity while minimizing construction and operational expenses.

If selected to participate on these projects, ZMM will be working with Mr. Ken Ball, a correctional consultant with experience providing planning services on correctional, work release, and community residential programs. Mr. Ball will facilitate the planning effort with a focus on operational costs, inmate classification, program content, offender placement, and the role of the work release program in managing inmate population growth. Mr. Ball is currently working with ZMM on the design of the new Wood County Justice Center. This project involves the renovation of a previous Bureau of Public Debt Office into a Justice Center that will include the Magistrate Court, offices for the Wood County Sheriff, a home confinement program, and a twelve (12) hour holding center.



Mr. John Abbott, Buyer
February 2, 2010
Page 2 of 2

Thank you for taking the time to review the attached brochure that has been formatted to meet the selection requirements. The Expression of Interest includes a Statement of Project Understanding and Design Approach, Experience, Staff and Resources, and Construction Phase Services. Additional information including ZMM's sustainable design experience has also been included, as well as client references and reference letters. We look forward to meeting with you in the near future to review our qualifications, and to discuss the Work Release/Training Center projects in greater detail.

Respectfully submitted,

ZMM, Inc.

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

cc: File



Division of Corrections
Four WV Work Release/Training Centers COR61447

Cover Letter

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 - Rick Modesitt, Commissioner, Wood County Commission, WV
 - Thomas Acker, S.J , Executive Director, The Higher Education Foundation, WV
 - David L. Roach, Superintendent, Lincoln County Schools, WV

RFQ No COR61447

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 owned 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: *Ad R K* Date: 01 FEB 2010

State of WV

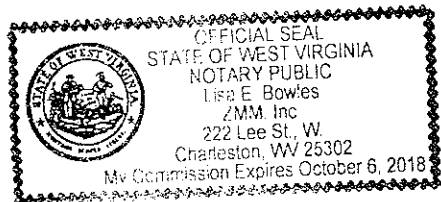
County of Kanawha to-wit:

Taken, subscribed, and sworn to before me this 1st day of February 2010

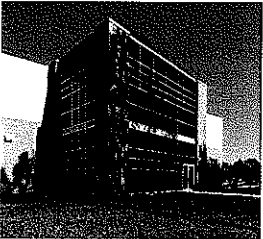
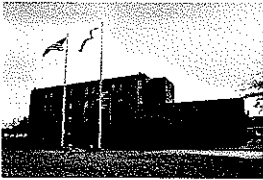
My Commission expired 10-6 2018

AFFIX SEAL HERE

NOTARY PUBLIC *Lisa E. Bowles*



PROJECT UNDERSTANDING AND DESIGN APPROACH



Recently, several **ZMM** employees had the opportunity to participate in a meeting of the Governor's Commission on Prison Overcrowding. Following the meeting, previous Cabinet Secretary Spears asked **ZMM** to investigate emerging trends in correctional design and construction. Several of the emerging trends identified are relevant to the proposed Work Release/Training Centers. The following three trends, which focus on normative design, adaptive reuse, and reduced energy consumption reflect a design strategy that will help the State of West Virginia meet the need for additional correctional facility capacity while attempting to minimize construction and operational expenses:

1. Transitional Facilities

Stephen Carter, a justice planning consultant recently stated that "We must recognize that a person's time in prison is only a part of our responsibility." **Relying on a design that creates a normative environment noted above, transitional facilities can be constructed for significantly less money, and help aid in the transition from a correctional facility back into society.**

2. Adaptive Reuse

When faced with a rapidly expanding population in the mid-90's, the New York Department of Correctional Services implemented a six point plan that included acquiring "**properties suitable for renovation such as high schools, military bases, local jails and vacant motels.**" Renovating a vacant school into a medium-high security facility would likely be as expensive as constructing a new facility; however, this approach holds some promise if a lower level of security or a transitional facility is the desired outcome. **Developmental or psychiatric centers scheduled for closure are more appropriate for conversion into medium security correctional centers.**

3. Sustainability

As with virtually every building type, sustainable design principles are now being employed in the design of correctional facilities. A recent article by the University of Wisconsin-Madison stated that "coupled with reduced energy consumption. **Regardless of the type new facility will yield significantly more savings than reducing the quality of the initial construction.**

PROJECT UNDERSTANDING AND DESIGN APPROACH



The State of West Virginia has already taken the first step by identifying facilities that are prime candidates for adaptive reuse. If selected to participate in the renovation of the facilities, **ZMM** would work closely with the Division of Corrections to ensure that the security level of the design reflects the nature of the facilities, and where appropriate employ the normative design principles identified above as a cost savings measure. Additionally, **ZMM** would develop a design that considers the operational and energy costs associated with the new and renovated facilities.

Work Release/Training Centers

ZMM's security consultant, Mr. Ken Ball, has experience providing planning services on several work release and community residential programs. These programs have included work release centers in a jail design providing a range security and close supervision, as well as community residential (stand alone) environments with less security and distant (remote) monitoring. Prior to designing the work release/training center clear communication is required concerning public safety, cost efficiency, and realistic program outcomes. This open communication will help elicit support from the public by communicating community corrections' part in the criminal justice system.

Considerations that must be made when establishing work release programs include operational costs, inmate classification, program content, offender placement, and the role of work release in managing inmate population growth. Supplemental programs may include drug and alcohol treatment, educational programs, and other programs not directly related to work that will assist and support an inmate's re-entry into the community. Work release programs are designed to facilitate an offender's successful reentry into the community. All work release participants should complete a job skills readiness program and risk assessment before they enter work release.

Work Release Programs May Include the Following Topics:

- Making Good Career Choices
- Job Searching
- Budgeting
- Resume Writing
- Interview Techniques
- Professional Conduct
- Dress attire
- Skills Assessment
- Transportation
- Job Postings and Job Leads
- Vocational Resources
- Letter Writing
- Salary Negotiations
- How to Handle Rejection

PROJECT UNDERSTANDING AND DESIGN APPROACH

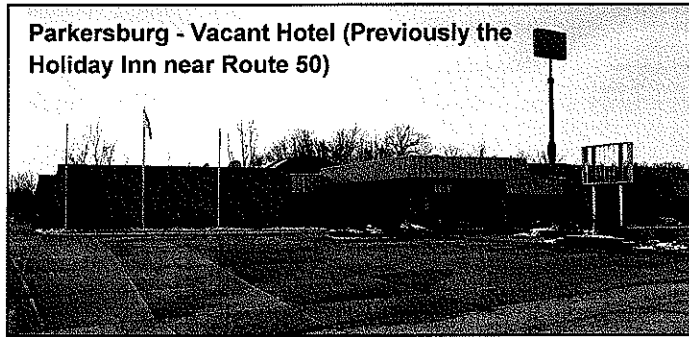


Participants in work release programs must be screened, in terms of their behavior and attitude, as they will serve as a model within the community. Many participants in the work release program are required to attend support and supplemental sessions/programs as part of their ongoing treatment. These groups may be aimed at issues that arise on the job, as well as other transitional issues that result from the anxiety generated by the participants' imminent return to their communities

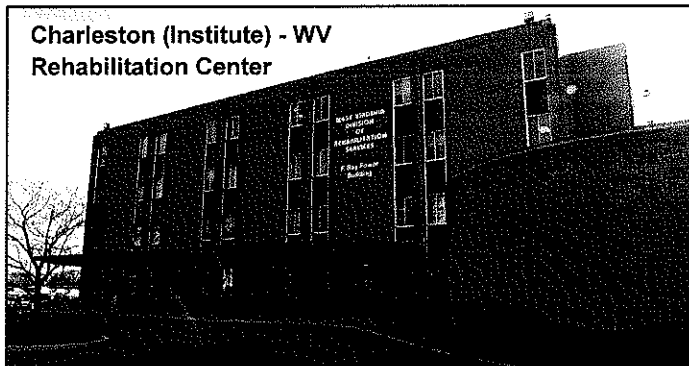
Proposed Locations

The Work Release/Training Centers are initially being planned for the following four locations: Charleston, Fairmont, Beckley, and Parkersburg. While several of the sites, including the site for the new construction in Fairmont remain undetermined, the following sites are being considered:

Parkersburg - Vacant Hotel (Previously the Holiday Inn near Route 50)



Charleston (Institute) - WV Rehabilitation Center



Beckley - Jackie Withrow Hospital



DESIGN APPROACH: RENOVATION PROJECTS



Renovation projects require a unique approach. The first step in a successful renovation project involves conducting an examination of the existing facilities to identify both deficiencies and opportunities. This investigation will include participants from all disciplines (architectural, structural, mechanical, and electrical), ensuring a comprehensive analysis. The result of this preliminary investigation will be a report that will serve as the basis for future project decisions.

Developing a long-term strategy will be important. This comprehensive plan will ensure that improvements are made in a manner that supports the overall approach for the facility. Our recent experience producing a similar detailed analysis of State Office Buildings 5, 6, & 7 on the State of West Virginia Capitol Complex will expedite this process.

In addition to the analysis above, determining the vision and expectations of the Division of Corrections will also help guide future decisions of the project team. To ensure an efficient schedule through the design phase of the project, programming and space planning will occur simultaneously with the existing building evaluation. **ZMM's** security consultant, Mr. Ken Ball will be instrumental through the programming and planning phase, helping to identify key components of the new facility, and assisting in developing an appropriate level of security. Throughout the evaluation, programming, and space planning process, **ZMM** will involve and seek approval from regulatory agencies such as the State Fire Marshal.

Once this effort is complete, the design team will prepare an estimate of the probable construction cost for the WV Division of Corrections. **ZMM** maintains historical cost data for our projects, and we are constantly updating and adjusting this information to provide accurate projections. We have an outstanding record of meeting budgets and developing budget conscious design on renovation projects.

Once the cost projection is complete, the **Preliminary Design Report** will be submitted for approval. The report will contain the existing building analysis, cost projection, program validation, security analysis, and preliminary space plans. After the initial investigation, scope validation, and preliminary design is complete, **ZMM** will deliver the construction documents utilizing the same team that participated in the initial investigation. Our ability to provide architectural and engineering design services in-house will help ensure the quality of the final design.

GENERAL NOTES :

1. TIME EXTENSIONS WERE GIVEN TO THE CONTRACTORS DUE TO UNFORESEEN SITE CONDITIONS.
2. TIME EXTENSIONS WERE GIVEN TO THE CONTRACTORS DUE TO INCREASE IN SCOPE OF PROJECT

PROJECT NAME AND LOCATION	SIZE (SQ. FT.)	CAPACITY (# OF BEDS)		COMPLETION DATE	COMPLETION SCHEDULE	BUDGET	COST (SQ. FT.)	REMARKS
		MEDIUM	MAXIMUM					
CENTRAL REGIONAL JAIL BRAYTON COUNTY, WEST VIRGINIA	99,045	144	48	1993	SEE NOTE #1	\$10,974,455 ACTUAL COST	\$110.80	
SOUTH CENTRAL REGIONAL JAIL KANAWHA COUNTY, WEST VIRGINIA	132,587	192	96	1993	SEE NOTES #1 & #2	\$15,180,635 ACTUAL COST	\$114.50	
NORTHERN REGIONAL JAIL & CORRECTIONAL FACILITY MARSHALL COUNTY, WEST VIRGINIA	166,308	288	96	1994	SEE NOTES #1 & #2	\$20,072,057 ACTUAL COST	\$120.69	INCLUDES 192 MEDIUM SECURITY UNIT MANAGEMENT BED (DCC)
N.R.I. & C.F. PRISON INDUSTRIES/VOCATIONAL EDUCATION BUILDING - MARSHALL COUNTY, WV	25,025	-	-	1995	DELIVERED ON TIME	\$1,500,000 ACTUAL COST	\$59.94	
SOUTHERN REGIONAL JAIL RALEIGH COUNTY, WEST VIRGINIA	132,587	192	96	1994	SEE NOTES #1 & #2	\$15,019,877 ACTUAL COST	\$113.28	
EASTERN REGIONAL JAIL BERKELEY COUNTY, WEST VIRGINIA	132,587	192	96	2001	SEE NOTE #2	\$18,784,005 ACTUAL COST	\$141.67	
POTOMAC HIGHLANDS REGIONAL JAIL HAMPSHIRE COUNTY, WEST VIRGINIA	99,045	144	48	2000	DELIVERED ON TIME	\$17,083,359 ACTUAL COST	\$172.48	
SOUTHWESTERN REGIONAL JAIL LOGAN COUNTY, WEST VIRGINIA	132,587	192	96	1999	SEE NOTE #2	\$19,339,318 ACTUAL COST	\$145.86	
NORTH CENTRAL REGIONAL JAIL DODDIDGE COUNTY, WEST VIRGINIA	166,843	288	96	2001	SEE NOTES #1 & #2	\$23,631,990 ACTUAL COST	\$141.64	
HUTTONSVILLE CORRECTIONAL CENTER 100 BED DORM - RANDOLPH COUNTY, WV	15,576	100	-	1993	DELIVERED ON TIME	\$967,000 ACTUAL COST	\$62.08	OPEN DORMITORY HOUSING
LAKIN CORRECTIONAL CENTER FOR WOMEN MASON COUNTY, WEST VIRGINIA	152,924	224	16	2002	DELIVERED ON TIME	\$21,414,763 ACTUAL COST	\$140.04	
WESTERN REGIONAL JAIL CABELL COUNTY, WEST VIRGINIA	166,843	288	96	2003	DELIVERED ON TIME	\$24,122,480 ACTUAL COST	\$144.58	
J.M. "CHICK" BUCKSEE REGIONAL JUVENILE CENTER - HAMPSHIRE COUNTY, WEST VIRGINIA	26,527	27	2	2003	DELIVERED ON TIME	\$5,865,355 ACTUAL COST	\$221.11	
JAMES H. "TIGER" MORTON REGIONAL JUVENILE CENTER - KANAWHA COUNTY, WEST VIRGINIA	29,015	24	5	2003	DELIVERED ON TIME	\$5,450,790 ACTUAL COST	\$187.86	
NEW HOUSING UNIT - ALDERSON FEDERAL PRISON CAMP - SUMMERS COUNTY, WV	59,234	500	-	2000	DELIVERED ON TIME	\$7,200,000 ACTUAL COST	\$126.61	MINIMUM SECURITY
NEW HOUSING UNIT - ALDERSON FEDERAL PRISON CAMP - SUMMERS COUNTY, WV	59,234	500	-	2004	DELIVERED ON TIME	\$9,500,000 ACTUAL COST	\$160.38	MINIMUM SECURITY
HAZELTON FEDERAL PRISON CAMP PRESTON COUNTY, WEST VIRGINIA	95,113	128	-	2003	DELIVERED ON TIME	\$10,000,000 ACTUAL COST	\$105.14	MINIMUM SECURITY
LAKIN 120 BED MINIMUM SECURITY DORMITORY MASON COUNTY, WEST VIRGINIA	22,700	-	-	FALL 2004	UNDER CONSTRUCTION	\$5,328,000 BID	\$197.33	MINIMUM SECURITY
"GENE SPADARO" REGIONAL JUVENILE CENTER - FAYETTE COUNTY, WEST VIRGINIA	29,015	24	5	FALL 2004	DELIVERED ON TIME	\$4,840,000 COST TO DATE	\$166.81	MINIMUM SECURITY
"ROBERT L. SHELL" REGIONAL JUVENILE CENTER - CABELL COUNTY, WEST VIRGINIA	29,015	24	5	FALL 2004	DELIVERED ON TIME	\$4,870,000 COST TO DATE	\$167.84	MINIMUM SECURITY
TIGART VALLEY REGIONAL JAIL RALEIGH COUNTY, WEST VIRGINIA	132,587	192	96	WINTER 2005	DELIVERED ON TIME	\$20,217,000 COST TO DATE	\$152.48	
LAKIN CORRECTIONAL INDUSTRIES MASON COUNTY, WEST VIRGINIA	20,900	-	-	FALL 2004	UNDER CONSTRUCTION	\$1,865,000 BID	\$89.16	MINIMUM SECURITY

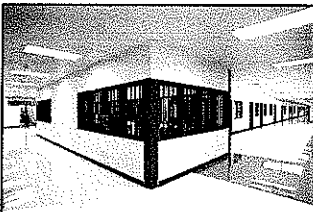
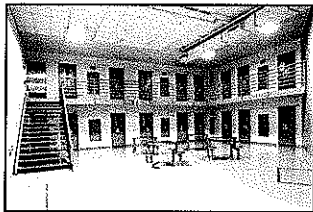
CORRECTIONAL FACILITIES

WEST VIRGINIA REGIONAL JAILS



CONTACT:
Chilton Lilly,
Project Manager

WV Regional Jail &
Correctional Facility
Authority
1325 Virginia Street, E
Charleston, WV 25301
304.561.6450



In 1990, the West Virginia Regional Jail and Correctional Facility Authority awarded the joint-venture team of ZMM/CRA a contract to design a prototype detention facility with the flexibility to meet the long range needs of 10 geographical regions in the State of West Virginia. The prototype building was designed as a 200 bed, 300 bed and 400 bed facility with the ability to add a 100 bed housing pod to each. All services required by the building were designed to accommodate the maximum population.

Unique to the design of the prototype jail is the ability of the staff to fully monitor all inmate movement within the corridor system of the building from a single central control location.

The following systems were designed and installed: integrated security and PA system, closed circuit television, fire alarm system, door access control integrated with security system, cable television and perimeter security system.

The **Central Regional Jail** in Flatwoods, Braxton County, WV, was the first of the prototype jails to be completed. It is a 200 bed medium/maximum security facility of approximately 100,000 SF.

The **South Central Regional Jail**, second of 10 regional jails to be completed, is a 300 bed facility of 140,000 square feet located in the Southridge Business Park, Charleston, West Virginia.

The **Southern Regional Jail** is a 300 bed regional jail of approximately 133,000 SF. The jail has facilities for 96 maximum security inmates with the remaining housing units designed for medium security. This facility is located in Beckley, WV.

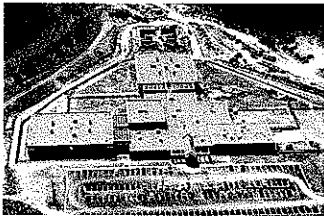
CORRECTIONAL FACILITIES

WEST VIRGINIA REGIONAL JAILS

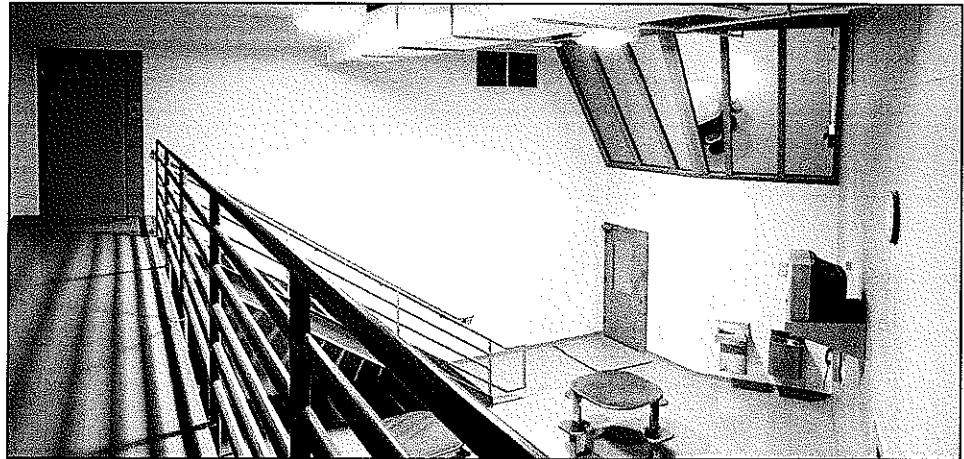


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Southwestern Regional Jail during construction



The **Northern Regional Jail and Correctional Facility** is a 400 bed combined regional jail and correctional facility of approximately 164,000 SF consisting of 200 beds used by the regional jail and 200 beds used by the West Virginia Department of Corrections. The regional jail section has facilities for 48 maximum security inmates with the remaining housing units designed for medium security. All housing units occupied by the Department of Corrections are medium security.

The **Southwestern Regional Jail** is a 300 bed facility located in Holden, Logan County, WV, and was completed in 1998.

Located in Dodridge County, WV, the **North Central Regional Jail** is a 400 bed facility and was completed in 2001.

The **Western Regional Jail**, located in Cabell County, is a 400 bed facility and is scheduled for completion in 2003.

A 300 bed facility, the **Eastern Regional Jail**, is located in Martinsburg, WV and was completed in 1999.

Completed in 2000, the **Potomac Highlands Regional Jail**, is located in Augusta, Hampshire County, WV and is a 200 bed facility.

CORRECTIONAL FACILITIES

Prison and Correctional Centers



Alderson Federal Prison Camp, Alderson, WV - ZMM provided architectural and engineering services for a major renovation of this women's federal correctional facility located in the Greenbrier River valley. This project includes extensive renovation of eighteen 1938 vintage buildings to current federal prison standards and increases the capacity to 1,269 inmates.

ZMM developed a management plan which allowed the facilities to remain operational at the original inmate capacity during the three year construction period. Renovations included interior and exterior building modifications and finishes, heating, ventilating, plumbing and electrical upgrades, totaling \$10,000,000.

Lakin Correctional Center for Women

The center opened in early 2003 as the first comprehensive state correctional facility for women. Located in Lakin, Mason County, this 225-bed facility houses medium and maximum-security female inmates in a building complex of over 153,000 square feet. The project included renovation of an existing building for education and indoor recreation. ZMM will also complete designs for a separate 124-bed dormitory for minimum security, as well as a correctional industries building, on the campus at Lakin.

CORRECTIONAL FACILITIES

Correctional Facilities



CONTACT:
Chilton Lilly,
Project Manager

WV Regional Jail &
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Authority
1325 Virginia Street, E
Charleston, WV 25301
304.561.6450



Prison Industries Facility - Northern Regional Jail and Correctional Facility - This 25,000 SF building is located at the Northern Regional Jail and Correctional Facility to serve the prison industries vocational education requirements of the Correctional Facility Division.

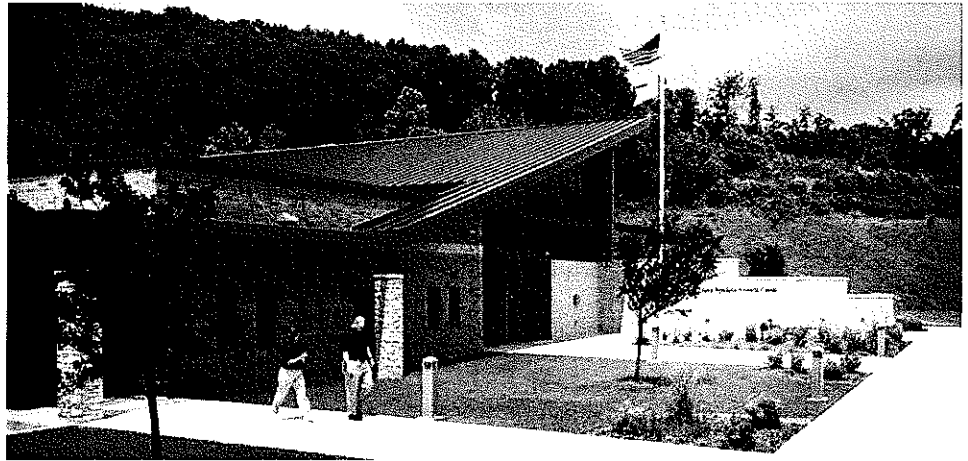
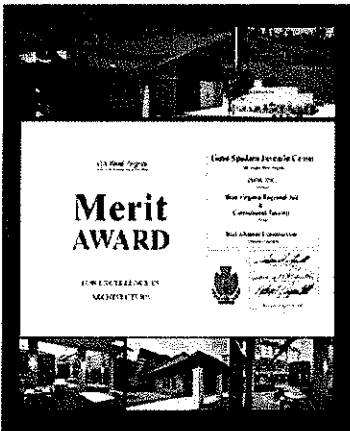
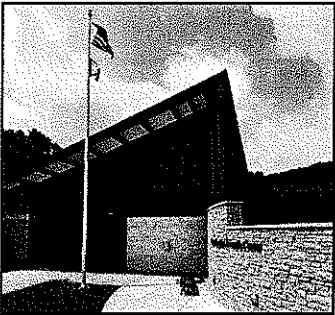
The building provides space for a mattress shop, print shop, vinyl notebook shop, and Braille shop in the industries area. Within the vocational education area, space is provided for automobile repair and woodworking. The building was completed on schedule and within the Owner's budget.

Denmar Correctional Facility - This project consisted of renovations to an existing 4-story hospital's toilet/shower system to accommodate a medium security facility for the West Virginia Department of Corrections.

Huttonsville Correctional Facility/100 Bed Dormitory - The 15,000 SF dormitory was designed as a minimum/medium security facility and was completed on schedule and within the Owner's budget.

GENE SPADARO JUVENILE CENTER

WV JUVENILE FACILITIES



The **Gene Spadaro Juvenile Center**, located in Mount Hope, Fayette County, proved that the prototype concept can be flexible enough to accommodate a dramatic variation in programming. The “softer” approach to this minimum-security facility anticipates program funding through federal IV-E regulations, and relies on staff involvement for security rather than bars and hardware. Innovative color schemes were used to simulate variety in the spaces.

Completed in 2004, the building is constructed of load-bearing masonry walls with brick and natural stone veneer. Lighting was carefully designed to supplement natural sunlight and ensure comfortable lighting levels. Staff-secured programming required even greater levels of observation, communication, and control. Sleeping quarters resemble a more institutional feel, educating the youth to look at their future and to stay away from delinquency and crime.

This juvenile facility won the 2005 Merit Award for *Achievement in Architecture* for American Institute of Architects, West Virginia Chapter.

WEST VIRGINIA JUVENILE CENTERS



Following a very successful program of regional jail construction based on ZMM/CRA's prototype design, the West Virginia Regional Jail & Correctional Facility Authority awarded ZMM a contract to design a new prototype for juvenile detention facilities.

The original prototype has undergone several transformations, including a 2-story design and a prototypical staff-secured design. All of the versions of ZMM's juvenile center prototype are designed to allow safe and effective operation with a small staff.

The **J. M. "Chick" Buckbee Juvenile Center**, located near Romney, Hampshire County, was the first juvenile center bid under the new program of prototype facilities. Scheduled to open in fall 2003, this single-story, 26,500 square foot building houses a complete program of intake, medical care, education, recreation, food service and administration.

The **James H. "Tiger" Morton Juvenile Center** was designed on the site of the old Kanawha Home for Youth in Dunbar, Kanawha County, West Virginia. Site constraints led to a 2-story variation of the prototype, housing 24 beds in a total building area of 29,000 square feet. This facility, the second of the prototype structures, is scheduled for opening in late 2003.

JOINT INTERAGENCY TRAINING & EDUCATION CENTER

WVARNG



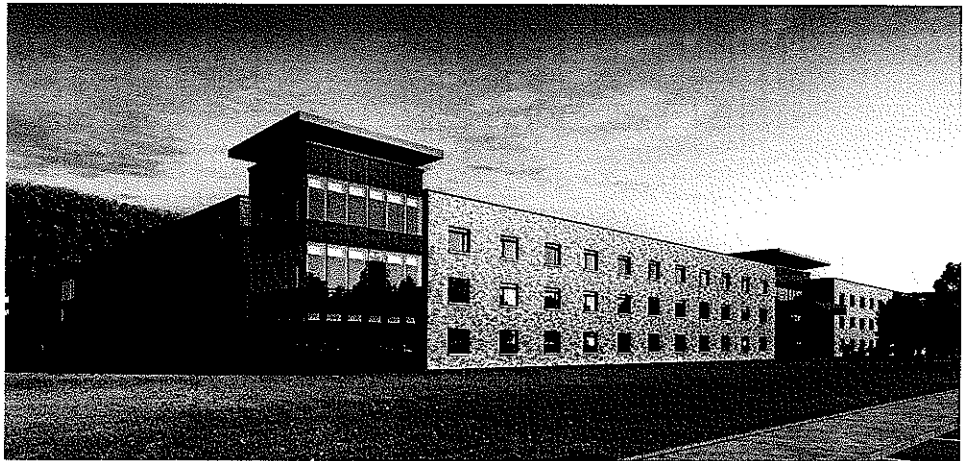
LOCATION:
Kingwood, West Virginia

SIZE:
285,000 SF

COMPLETION:
Est. 2012

COST:
\$110 Million

CONTACT:
General 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 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



LOCATION:
Kingwood, West Virginia

SIZE:
285,000 SF

COMPLETION:
Est. 2012

COST:
\$110 Million

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



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.



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.

CONSTRUCTION & FACILITIES MANAGEMENT OFFICE

WVARNG

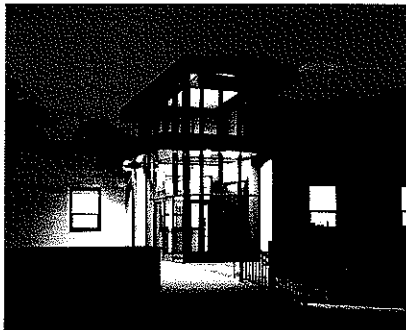
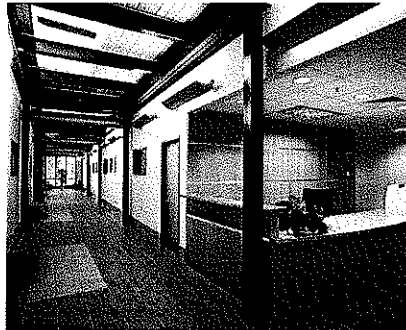
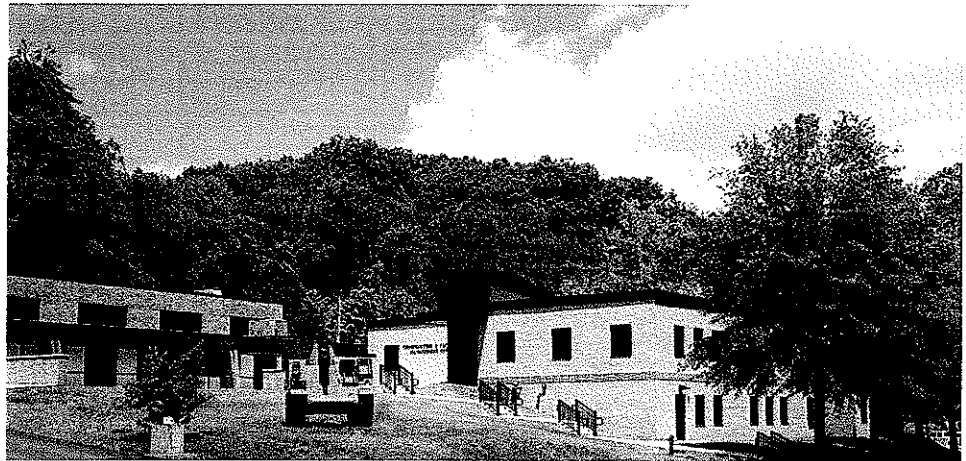


LOCATION:
Charleston, West Virginia

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.

WEST VIRGINIA CAPITOL COMPLEX

BUILDINGS 5, 6, & 7

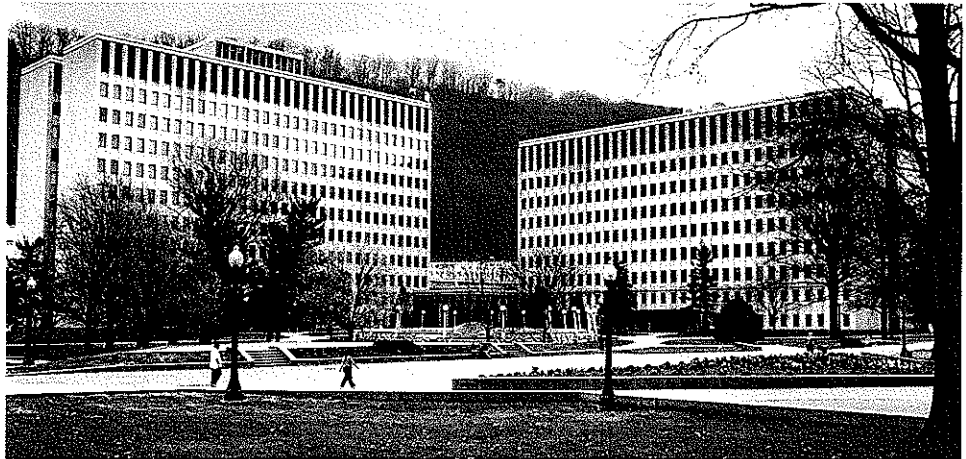


LOCATION:
Charleston, West Virginia

SIZE:
500,000 SF

COMPLETION:
TBA

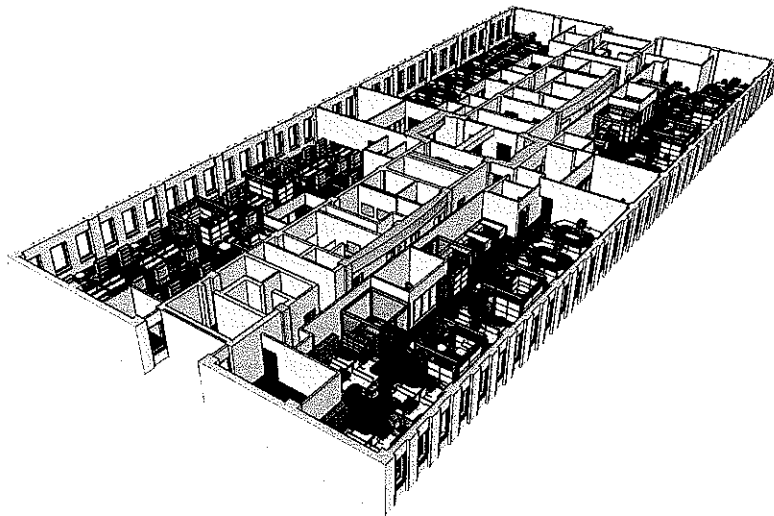
CONTACT:
Mr. David Oliverio
Director
General Services
Division
1900 Kanawha Blvd. E
Charleston, WV 25305
304.558.3517



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 design of the 10th floor for the office of technology, which is currently in construction.



ST. ALBANS HIGH SCHOOL

Kanawha County Schools



LOCATION:
St. Albans, West Virginia

SIZE:
216,500 SF

COMPLETION:
2003

COST:
\$24 Million

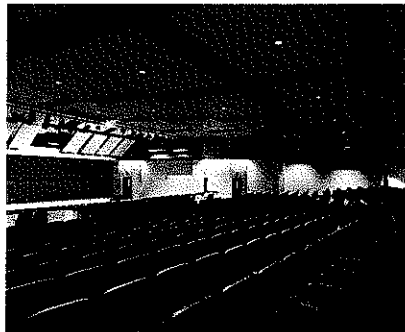
CONTACT:
Dr. Ron Duerring
Superintendent
200 Elizabeth Street
Charleston, WV 25523
304.348.7732

AWARDS:

Impact on Learning Award
Effective Transformation

Education Design Showcase
Outstanding Building Design

American School & University
Outstanding Building Design



The renovation and additions to St. Albans High School included the razing of about 40% of the existing structure and the construction of 124,000 SF of new construction. The completed facility will house 1050 students, grades 9 thru 12.

The new facility includes a distance learning center with duplex teleconferencing, and a state of the art media center with technology distribution throughout the entire facility.

It also includes complete food service facilities and a commons/dining area, which serves as the focal point for access to the gymnasiums and auditorium.

JUDGE BLACK COURTHOUSE ANNEX



LOCATION:
Parkersburg, West Virginia

SIZE:
36,828 SF

COMPLETION:
2005



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

The interior design utilized rich colors and dramatic visual accents in public areas, with finishes selected for durability. Layered planes of varying colors accent the building's depth, and skylights provide daylight to county staff throughout the renovated office areas.

Exterior improvements included the elimination of an existing storefront system as well as a change in the fenestration, to more closely match the existing courthouse and to change the character and typology of the existing facility.

SOUTHSIDE ELEMENTARY/HUNTINGTON MIDDLE SCHOOL

Cabell County Schools



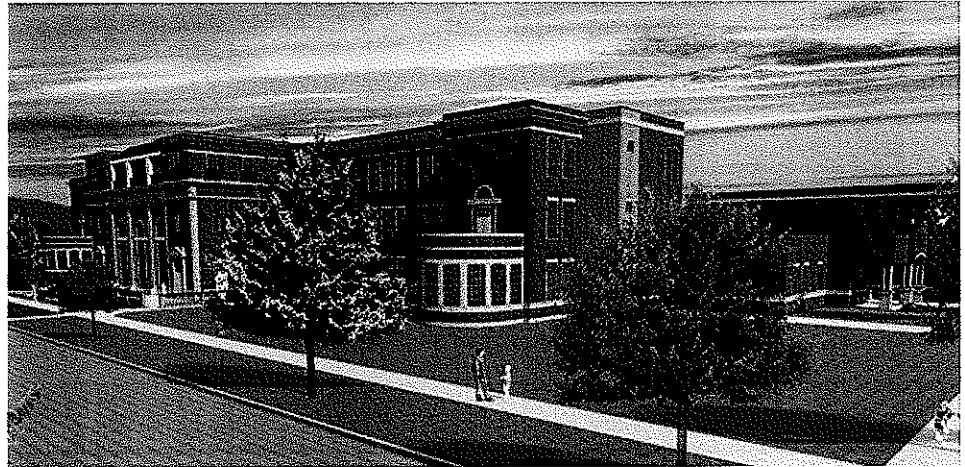
LOCATION:
Huntington, West Virginia

SIZE:
158,194 SF

COMPLETION:
Est. 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 will house 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.

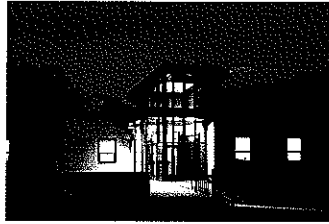
The new facilities were designed to blend with the architectural character of the existing facility. More than 70% of the existing building was demolished and the existing building that remained was completely renovated and remains the focus of the community. Two new stair towers provide a vertical architectural 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 21st century learning.



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

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.

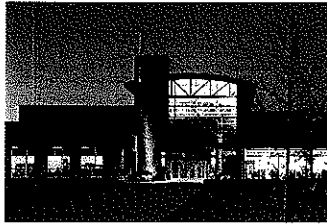
AWARD WINNING DESIGN



2009

Construction & Facilities Management Office

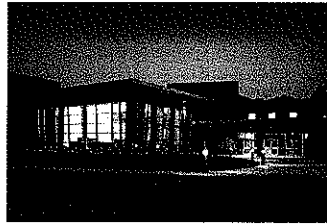
Charleston, West Virginia
AIA Merit AWARD West Virginia Chapter
Achievement in Architecture



2008

Erma Byrd Center

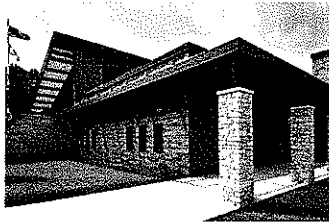
Beckley, West Virginia
AIA HONOR AWARD West Virginia Chapter
Excellence in Architecture
AMERICAN SCHOOL & UNIVERSITY
Outstanding Building Design



2007

Lincoln County High School

Hamlin, West Virginia
AIA HONOR AWARD West Virginia Chapter
Excellence in Architecture
EDUCATION DESIGN SHOWCASE
Project of Distinction award
AMERICAN SCHOOL & UNIVERSITY
Outstanding Building Design



2006

Gene Spadaro Juvenile Center

Mount Hope, West Virginia
AIA MERIT AWARD West Virginia Chapter
Achievement in Architecture

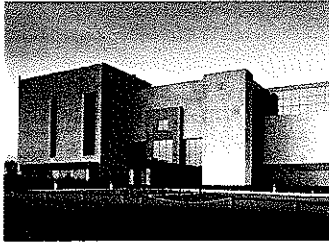


2004

St. Albans High School

St. Albans, West Virginia
IMPACT ON LEARNING AWARD
Effective Transformation
EDUCATION DESIGN SHOWCASE
Outstanding Building Design
AMERICAN SCHOOL & UNIVERSITY
Outstanding Building Design

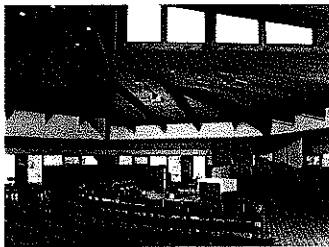
ADDITIONAL AWARD WINNING DESIGN



West Virginia Society of Architects Design Honor Awards

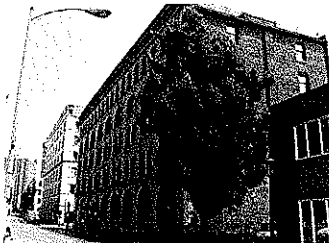
Corporate Headquarters Facility
Blue Cross / Blue Shield of West Virginia
Charleston, West Virginia

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

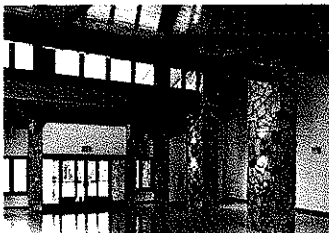


Corporate Office Building
Contractors' Association of West Virginia
Charleston, West Virginia

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

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 to ensuring the quality of every ZMM project. This program includes the following six components:

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.

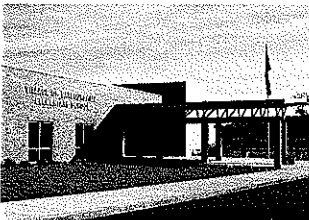
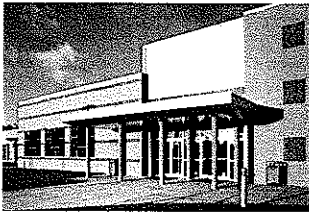
5. Post Project Review

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

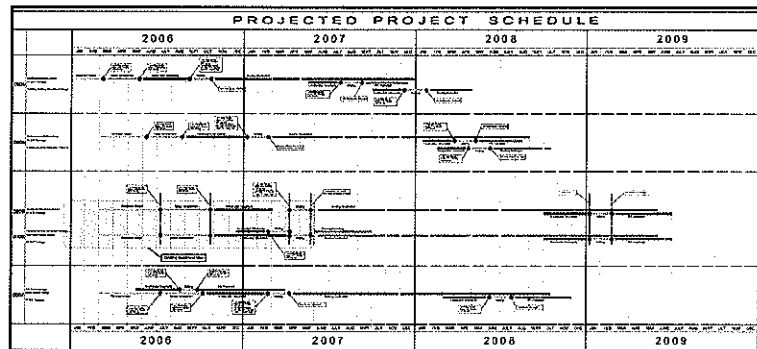
Ongoing staff development and training is very important to ZMM. Providing increased opportunities for learning and advancement leads to improved employee performance more successful projects.

SCHEDULE CONTROL



During a typical construction project, the owner and the architect establish the construction duration, and the contractor's bid should accommodate any measures required to complete the project in the established timeframe. Liquidated damages are often used to ensure that the contractor meets the established schedule. ZMM's construction administration department will require the contractor to submit a project schedule prior to the first application for payment, and will then verify that the schedule is being maintained during progress meetings.

If the WV Division of Corrections desires an aggressive schedule for the completion of the Work Release/Training Centers, there are several ways to achieve this goal. Since the physical construction is the longest and most labor intensive part of the process, it is also the one that offers the most opportunities to compress the schedule.



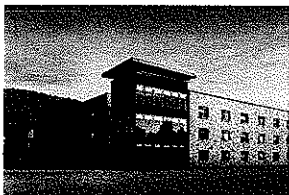
ZMM has successfully completed projects in virtually every conceivable construction delivery method, from design-build to construction management with separate prime contracts (with pre-ordered construction materials), to design-bid-build. In many of these instances it is important to select the construction team early in the design process so that many pre-construction tasks can be completed before final designs are complete. Many of these methods can accelerate construction time significantly.

Compressing the design schedule is also possible, and is a direct function of available staff for production. ZMM will commit all of our staff required to meet the scheduling needs of the WV Department of Corrections. We are one of the largest A/E firms in the State of West Virginia and maintain a staff that can accommodate the tightest of schedules.

This schedule control has recently been demonstrated in Cabell County where ZMM completed the design services on five (5) middle school projects (with a total construction budget exceeding \$70M) in less than a year. Please contact the Cabell County Board of Education to discuss our ability to maintain project schedules and provide construction administrative services.

Mr. Mike O'Dell, Assistant Superintendent of Operations
Cabell County Schools

BUDGET CONTROL

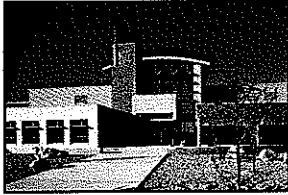


One stated objective of the WV Division of Corrections is the need to ensure that costs (both design and operational) meets the available project funding. The construction market in West Virginia is very unique, and varying parts of the State offer significantly different construction markets and challenges. Through more than fifty (50) years of experience designing facilities throughout the State of West Virginia ZMM has an understanding of these various markets, and has repeatedly demonstrated our ability to deliver design solutions that meet our client's budgets, while exceeding their expectations.

There are several ways that ZMM can help to manage the construction budget for the WV Division of Corrections for the Work Release/ Training Centers. Some methods include:

- Establish a realistic project scope and budget. Clear and honest communication about the anticipated project costs from the planning stage between the owner and architect will help to avert future problems. ZMM's recent experience designing Correctional Facilities in West Virginia will help in establishing a realistic budget.
- Consider operational, maintenance, and energy costs during the design process. The cost of design and construction are minor compared to the long-term operational costs of a correctional facility. To help manage the future staffing requirements, ZMM and our correctional consultant Mr. Ken Ball will work closely with Division of Corrections Staff to provide a design that maximizes operational efficiency by helping to manage staffing requirements. Additionally, ZMM has experience designing energy efficient buildings throughout the State. This experience has recently been demonstrated at the Joint Interagency Training and Education Center (JITEC) at Camp Dawson which will realize a 36% energy reduction and a 40.5% energy cost reduction versus similar facilities. Construction is also currently being completed on the renovations to the 10th Floor of State Office Building #5, which will also realize significant energy use reduction compared to similar facilities.

BUDGET CONTROL



- Improve the quality of the construction documents. By providing thorough and well coordinated documentation, **ZMM** will help to reduce project costs by eliminating any uncertainty from the bidding process. Our QA/QC process, in addition to our ability to provide comprehensive design services under one roof, will allow us to provide this improved quality.
- Utilize construction methods and products that are familiar to local vendors and contractors. **ZMM** has a demonstrated record of producing award winning designs that meet our client's budgets. We are able to accomplish this by using construction materials and systems that are familiar in the local building industry – but composed in unique and innovative ways. Complicated construction methods and expensive materials are not needed to create award winning facilities, creativity and innovation are the key components.

Once the program and budget have been resolved, **ZMM** will employ the above efforts to provide a design that can be constructed within the project budget

A recent project that demonstrates our ability to control the project budget is the new Erma Byrd Center in Beaver, West Virginia, which was completed for the Higher Education Foundation. After a previous (out of State) architectural firm was unable to resolve the project budget, **ZMM** was selected, and provided expedited design services that produced an award winning (and "on budget") project for the owner.

Please contact the Higher Education Foundation to discuss our ability to provide high quality services that meet schedule and budget constraints.

Father Thomas Acker, S J., Executive Director
The Higher Education Foundation
304.929.2010

HISTORY AND PHILOSOPHY of ZMM



LOCATION:
222 Lee Street, West
Charleston, WV

CONTACT:
Phone 304.342.0159
Fax 304.345.8144
www.zmm.com

Ray Zando, Ken Martin and Monty Milstead established the **Charleston, West Virginia** based Architectural and Engineering firm of Zando, Martin and Milstead in 1959 with a staff of five people. The firm obtained an early foothold in the professional services sector in the state and grew in both size and stature. Mr. Steven Branner, a recent graduate of the University of Cincinnati, joined the firm in 1967 as a project architect. Mr. Robert Doeffinger obtained a B. S. degree in Mechanical Engineering from West Virginia University and an M. S. degree in Architectural Engineering from The Pennsylvania State University before joining the firm in 1976.

Mr. Zando, Mr. Martin and Mr. Milstead, reaching retirement age, transferred the ownership of the firm to Mr. Branner and Mr. Doeffinger in 1986 and they guided and expanded the firm to its present size of approximately 35 people. Since then, Dave Ferguson, Rod Watkins, and Adam Krason have joined in ownership of the firm.

Since the beginning, ZMM has been dedicated to the integrated approach to building design. The inclusion of engineering services (civil, mechanical, electrical and structural), as well as interior design, makes ZMM unique among architectural firms and fulfills the needs of clients for single point responsibility. More importantly, an integrated approach provides better coordinated, accurate, and concise documents. ZMM's commitment to clients is to provide the highest quality professional services available. In order to maintain this high level of quality, we strictly conform to a Quality Assurance Program, a unique feature of ZMM.



We work hard at staying generalists, while, by virtue of maintaining a practice for over fifty years, having extensive experience in different building types. We approach each project as a unique opportunity and execute each design accordingly. Nothing is done without our full, professional attention. ZMM has a demonstrated record of success in the specialization of architecture and engineering.

HISTORY AND PHILOSOPHY of ZMM



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):		
Operations	33,073	
Sub-Total (NSF)	33,073	
Total (GSF)	33,073	
Department of Energy Area (NSF):		
Training	7,190	
Operations	13,011	
Information Repository	19,140	
Analysis	308	
General Support	3,891	
Sub-Total (NSF)	43,540	
Total (GSF)	46,205	
AFRC Area (NSF):		
Customer	0	
Administration	12,192	
Mail Storage	0	
Locker Rooms	0	
General Services	0	
Sub-Total (NSF)	12,192	
Total (GSF)	12,192	
Joint Interagency Training Center - East Area (NSF):		
Administration	11,772	
Library	7,444	
Design	0	
Sub-Total (NSF)	19,216	
Total (GSF)	19,216	
Biology Area (NSF):		
Library	58,225	
Sub-Total (NSF)	58,225	
Total (GSF)	73,686	
Total Building Areas Area (GSF):		
National Guard Bureau	33,073	
Department of Energy	46,205	
Arnold Forest Research Center	19,216	
Joint Interagency Training Center	45,878	
Biology	73,686	
Total (GSF)	218,058	

PROFESSIONAL SERVICES



DESIGN

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

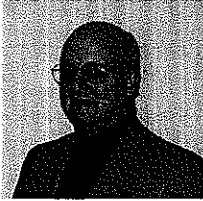
Electrical Engineering
Civil Engineering
Data System Design
Lighting Design
Energy Consumption Analysis



POST DESIGN

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





Position
Security Consultant

Education
Master of Science, University of Akron, OH
Doctoral Candidate, University of Akron, OH
Bachelor of Science, Ashland University, OH

Employment History
1998-Present, Security Consultant

Professional Credentials
American Correctional Association
American Jail Association
Ohio Correction and Court Services Association Ohio Public Facilities Association
Building Officials and Code Administrators International

Civic Affiliations
ACA Auditor
Certification in Real Estate
School Superintendent, Principal, Teacher
Professional Counselor

Professional Experience
Mr. Ball offers over 38 years of experience in design, construction, and operational administrative experience in all levels of detention and correctional facilities. He has been the security consultant for 50 new correctional, detention, and court facilities.

Mr. Ball provides criminal justice consulting in the areas of detention, corrections, courts, and security. Mr. Ball specializes in consultant services for facility planning, functional programming master and strategic planning, design review, new construction and staffing.

Major clients include:
Wood County Commission - Justice Center, Magistrate Court
Cuyahoga County Justice Center
New Orleans Parrish Justice Center
State of West Virginia Security Units: Julian, Parkersburg, Princeton
Ohio River Valley Correctional Facility
Sandusky County Juvenile Detention Facility
Summit County Detention and Courts Facility
Bridgeport Justice Facility
State of Connecticut Juvenile Training School
Ottawa-Carleton Detention Center



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 its 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:

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

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 Calculations

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.

ADAM R. KRASON

AIA, NCARB, LEED AP



Position

Project 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

Joint Interagency Training and Educational Center (JITEC)

State of West Virginia Division of Juvenile Services

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

West Virginia Army National Guard - CFMO Expansion Project

West Virginia Army National Guard - Logan Readiness Center

West Virginia Army National Guard - Morgantown Readiness Center

West Virginia Army National Guard - Ripley AFRC

Judge Donald F. Black Courthouse Annex

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

Alderson Federal Prison Camp

Hazleton Federal Prison Camp

WV Army National Guard Family Readiness Center

WV State Office Buildings 5,6 & 7

Stonewall Jackson Lake State Park

Resort at Glade Springs

Braxton County Memorial Hospital

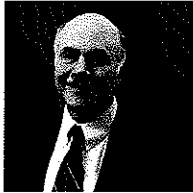
Greystone on The Cheat

Beverly Hills Middle School

Barboursville Middle School

Brookview Elementary School

Sissonville Library



Position

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

State of West Virginia Regional Jails

State of West Virginia Juvenile Detention Centers

WV Army National Guard - Glen Jean Armed Forces Center

WV Army National Guard - Logan Readiness Center

WV Army National Guard - CFMO Expansion Project

Highland Hospital

Saint Albans High School

Lincoln County High school

STEPHEN E. HEDRICK II

PE



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

Highland Hospital

New River Elementary - Supplemental Support

Hacker Valley Elementary - Supplemental Support

Barboursville Middle School - Supplemental Support

Southside Elementary/Huntington Middle School

Glen Jean Armed Forces Center - Joist Reinforcement

West Virginia Cultural Center



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:

Highland Medical Facility

Hacker Valley K-8 School

Martha Elementary School

Milton Middle School

Barboursville Middle School

Harts K-8 School

Bradshaw Schools, McDowell County

State of WV Office Buildings 5, 6 & 7

Goodwill Industries Addition

Parkersburg Catholic Athletic Annex

Cedar Lakes Conference Center Roadwork

Kanawha Valley Senior Services

West Virginia Housing Development Fund

ALANA PULAY

IIDA, LEED AP



Position

Interior Designer

Education

B S., Interior Design; The Ohio State University, Columbus, Ohio; 2003

Employment History

2003 - Present, Interior Designer, ZMM

2002 - 2003, Interior Design Intern, The Ohio State University Office of Student Affairs

Professional Credentials

LEED-Accredited Professional (Commercial Interiors), 2008

Registered Interior Designer (WV)

NCIDQ Certificate, 2005

Professional Member IIDA

Professional Experience

Ms. Pulay has experience detailing and specifying interior elements and furnishings to successfully create design solutions that satisfy the clients within budget limitations. She has worked on many educational, correctional, corporate, industrial and retail projects.

Ms. Pulay is also actively involved in the programming and space planning efforts at ZMM. This involvement helps ensure that the interior environment matches the architectural design in quality, level of detail, and budget. Her involvement continues through the selection and installation of furnishings.

Project Experience

Erma Byrd Higher Education Center

Lincoln County High School

Wayne Elementary School

Martha Elementary School

Valley Dale Elementary School

Salem/Gore Middle School

Kellogg

War K-8

Jaeger- Big Creek High School

Robert L. Shell - Juvenile Center

West Virginia Army National Guard - CFMO Expansion

West Virginia Army National Guard - Glen Jean Armed Forces

Western Regional Jail and Correctional Authority



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 designer. 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
laeger Elementary School
Lincoln County High School



Position

Construction Administration

Education

Previously Certified by the WV Department of Highways as Nuclear Compaction Technician, Bituminous Concrete Technician, Aggregate Technician, Portland Cement Concrete Technician
Certified Construction Document Technologist, Construction Specification Institute.

Employment History

1991-Present, ZMM
1985-1991, West Virginia Board of Regents, Charleston, WV
1979-1984, Charleston Area Architectural Firm, Charleston, WV

Professional Credentials

CSI, Certified Construction Specifier (Construction Specification Institute)
CDT, Certified Construction Document Technologist

Civic Affiliations

Associate Member, American Institute of Architects, West Virginia

Project Experience

West Virginia Regional Jail Authority
West Virginia Correctional and Juvenile Facilities
Job Corps Center, WV
Sears, Roebuck & Company, Retail Centers
Cabell County Schools, WV

CONSTRUCTION PHASE SERVICES



ZMM's effort during the construction phase is geared towards improving the construction process for the WV Division of Corrections. **ZMM** has a dedicated, in-house, construction administrative staff that will work with the design team and the owner to help ensure a seamless construction process, and a completed project that meets the quality standards identified in the construction documents.

The construction administration staff is led by Mr. Rodney Watkins, AAIA, one of **ZMM's** Principals. Mr. Watkins brings more than thirty years of planning and construction experience on a wide range of Correctional, Education, Industrial, and Commercial/Office Space projects.

Mr. Watkins is assisted by Mr. Glen Savage and Mr. David Unrue, both Construction Specification Institute Certified Construction Document Technicians (CSI-CDT). Mr. Savage and Mr. Unrue are responsible for coordinating the construction phase services of the design team, and conduct regular observations of the project. **ZMM's** construction administration staff is supported by Ms. Theresa Dorsey.



Mr. Unrue will coordinate **ZMM's** effort during the construction phase of the Work Release/Training Centers. Mr. Unrue has experience providing construction administrative services on a variety of correctional facilities, including renovation projects to occupied correctional facilities.

Mr. Unrue will be responsible for timely reviews of contractor submittals, attend all construction progress meetings, verify that all construction complies with the plans and specifications, monitor and update the owner regarding construction progress relative to the approved schedule, and process applications for payment.

CONSTRUCTION PHASE SERVICES



As construction nears completions, **ZMM** will conduct an inspection and prepare a "punch-list" that will advise the contractor of all outstanding work that remains to be completed, or requires repair. **ZMM** will also coordinate the furniture installation, including coordination with the vendor.

ZMM's responsibilities during the construction phase will include:

- Review Bids and Recommend a Construction Team
- Conduct a Pre-Construction Meeting
- Coordinate Preliminary Contractor Submissions (Bonds, Insurance, Schedule, Schedule of Values, Emergency Contact Information, etc.)
- Review and Process Shop Drawings
- Review and Process Payment Applications
- Update the Owner on Progress Relative to the Project Schedule
- Process Proposal Requests, Supplemental Instruction, and Change Orders
- Maintain a Current Overall Project Budget
- Conduct Regular Observations of Construction
- Attend Construction Progress Meetings
- Issue Timely Responses to RFI's (Contractor Questions)
- Conduct a Final Inspection
- Prepare a "Punch-List"
- Coordinate Furniture, Fixture, and Equipment Installation

Managing the quantity and amount of change orders is a function of the quality and coordination of the construction documents. Our ability to offer fully integrated design services from our office in Charleston helps to ensure a high level of coordination, as our architectural, interior design, and engineering staff will collaborate daily on your project. Additionally, **ZMM's** quality assurance/quality control process helps us deliver projects with minimal change orders during the construction process.

ZMM's work does not end when the construction is complete. Our staff will remain available to the WV Division of Corrections as needed after the project is completed to verify that the facility operates as intended. As demonstrated throughout the history of our firm, **ZMM** is committed to the long-term success of the WV Division of Corrections, and the Work Release/Training Centers.

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



"Being a LEED AP is my way to help the environment. Incorporating sustainable design features into projects enables me to share my knowledge of the industry with those in the community. Advocating the green movement will ensure that we have a safe and healthy planet for future generations."

- Alana S. Pulay, 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



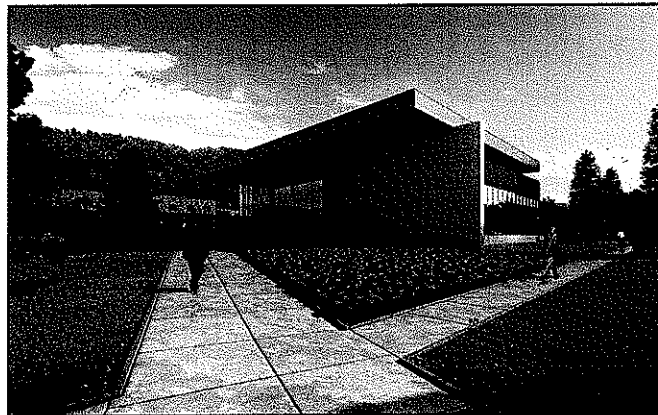
LEED EXPERIENCE



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



west virginia department of environmental protection

Public Information Office
601 57th Street, South East,
Charleston, WV 25304

Joe Manchin III, Governor
Randy C. Huffman, Cabinet Secretary
www.wvdep.org

February 21, 2009

Adam R. Krason, AIA, NCARB, LEED AP, Architect
ZMM Architects and Engineers
222 Lee Street, West
Charleston, WV 25302

Dear Mr. Krason,

As Sustainability Officer with the West Virginia Department of Environmental Protection, it is my pleasure to write a letter in support of ZMM Architects and Engineers and their efforts to work with West Virginia organizations committed to improving their built and natural environments and organizational sustainability... or triple bottom line ... profit, people, and planet.

The diverse staff at ZMM Architects and Engineers has expert knowledge, skills, and abilities with respect to the United States Green Building Council's Leadership in Energy and Environmental Design® Green Building Rating System™ and about broader sustainability concepts, principles and the environment in West Virginia.

I have worked with Mr. Krason and Ms. Jill Watkins with "Green Building Workshops" and creating a statewide program that builds capacity and provides leadership development opportunities for individuals and organizations embracing sustainability and looking for the complementary relations among the environment, economy and culture in West Virginia. Their inspiring work ethic, wisdom and integrity speak volumes about the manner in which they conduct business and represent themselves throughout West Virginia Communities.

The WVDEP is encouraged by ZMM Architects and Engineers' efforts and how it will lead to eventual Skill Set development and interdisciplinary program enhancements with other sustainability concepts and principles such as:

- Energy and cost efficiency;
- Alternative and renewable energy;
- Sustainable building design, construction, operation and maintenance that supports the United States Green Building Council's Leadership in Energy and Environmental Design® Green Building Rating System™;
- Creation of green businesses and collar jobs; and,
- Others.

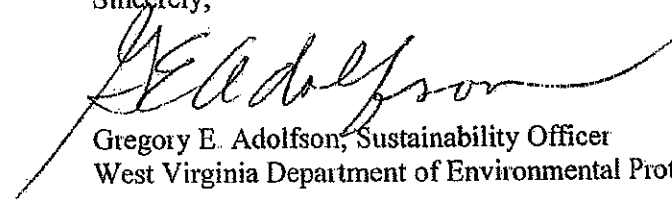
ZMM Architects and Engineers support our capacity building and leadership development activities, and complements and augments WVDEP programs such as:

- Sustainable Communities – a program that targets homeowners, schools, businesses, and community institutions dedicated to energy and water conservation, waste minimization and elimination, pollution prevention, and other sustainability concepts and principles that build sustainable communities ... strong local economies, wholesomely vibrant communities, and healthy environments.
- Environmental Excellence – a program that targets regulated and non-regulated organizations in an effort to promote, reward, and encourage superior environmental performance within West Virginia organizations that meet the requirements of program eligibility including an exemplary environmental performance record, commitment to develop and implement an environmental management system, establish environmental performance goals, promote public involvement, and to positively impact the quality of life for all West Virginians by improving the economy, environment, and society through incentives, public participation, innovative technologies, and sustainability concepts. This program is the companion to the United States Environmental Protection Agency's National Environmental Performance Track.
- I Travel Green – a program that targets West Virginia travel and tourism organizations that is an entirely voluntary, affordable program that Registers and Benchmarks travel and tourism organizations that have made a commitment to continually enhance their operations that improve environmental, socio-cultural, and economic performance through evaluating their operations; setting goals, establishing objectives and targets, developing programs; and taking specific actions toward environmental, socio-cultural, and economic sustainability. I Travel Green is designed to support the West Virginia Division of Tourism's "West Virginia Wild and Wonderful" brand, give the state and travel and tourism organizations a marketing edge, promote smart practices, reduce costs, educate travelers and tourists, and protect the beauty and vitality of West Virginia's landscape

In conclusion, I fully support the efforts of ZMM Architects and Engineers as you seek support for institutionalizing your programs. Any program, that incorporates sustainability concepts and principles and focuses on building capacity and developing leaders in sustainability throughout West Virginia, will benefit our people, our communities, and our overall return on investment. This will support the foundation for building a sustainable future for West Virginia.

Should you have questions, or require additional information, please do not hesitate to contact me at (304) 926-0499 X1332 or gregory.e.adolfson@wv.gov

Sincerely,



Gregory E. Adolfson, Sustainability Officer
West Virginia Department of Environmental Protection



Habitat
for Humanity®
of Kanawha & Putnam County

815 Court Street
P.O. Box 70160
Charleston, WV 25301-0160
(304) 720-0141 Fax (304) 720-4352
info@habitatwv.org

February 23, 2009

To whom it may concern:

I am writing in support of ZMM and the sustainable practices they have helped to make possible at Habitat for Humanity of Kanawha and Putnam County. Adam Krason of ZMM was responsible for the *REUSEd Materials, RESTOREd Lives* project conception and greatly assisted in developing the program and securing the funding.

RESUEd Materials, RESTOREd Lives is a program of the Habitat ReStore in which we collect construction and demolition waste from jobsites and either recycle or resell the material. The project was funded in full by the Sustainable Kanawha Valley Initiative in the fall of 2008. The grant funding enabled us to purchase large, used shipping containers that will be placed on construction sites for collection of materials. The containers will be picked up at the completion of the project for sorting, recycling and reselling at the Habitat ReStore

According to the United States Environmental Protection Agency, construction and demolition waste comprise 35% of landfills. By salvaging these materials we are reducing the amount of waste that enters the local landfills and we are also providing additional funding to build Habitat homes. Without the help of Adam Krason and ZMM, *REUSEd Materials, RESTOREd Lives* would not have been possible.

Sincerely,

Amy McLaughlin
ReStore Director
Habitat for Humanity of Kanawha and Putnam County

Client References

Chilton Lilly, Project Manager

WV Regional Jail and Correctional Facility Authority
1325 Virginia Street, East
Charleston, WV 25301
304.558.2110

Brigadier General Melvin L. Burch

Construction Facilities Management Office
WV Army National Guard
1707 Coonskin Drive
Charleston, WV 25311
304.561.6450

Rick Modesitt, Commissioner

No. 1 Court Square, Suite 203
Parkersburg, WV 26101
304.481.4035

Father Thomas S. Acker, S.J., Executive Director

The Higher Education Foundation
200 Main Street
Beckley, WV 25801
304.929.2010

David L. Roach, Superintendent

Lincoln County Schools
10 Marland Avenue
Hamlin, WV 25523
304.824.3033



**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

The County Commission of Wood County

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



ROBERT K. TEBAY

COUNTY ADMINISTRATOR
Marty Senfor
424-1976

RICK MODESITT

COUNTY CLERK
Janie Six
424-1830

DAVID BLAIR COUCH

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 black ink, appearing to read "Robert K. Tehay", is written over a horizontal line.

Robert K. Tehay, President

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

Rick Modesitt, Commissioner

A handwritten signature in black ink, 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.

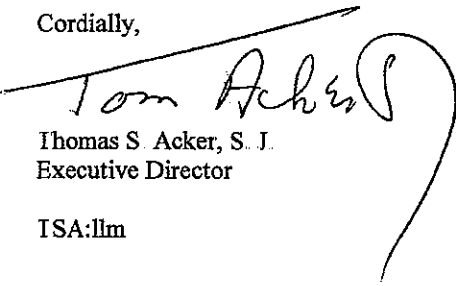
Our contract with you began in December, 2005. We had to complete architectural plans, bid the building, secure a contractor, and begin construction by July, 2006, in order to meet an opening date of August, 2007. ZMM was the perfect partner with us as we forged a new building on a yet raw campus and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

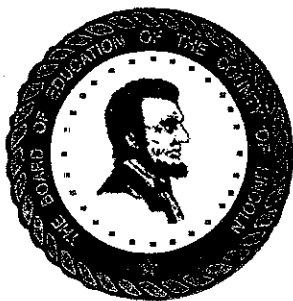
I simply wanted to send you this note of thanks for accepting a very daunting task, completing it with excellence, maintaining the very restricted budget, and making this whole project successful. We are now looking forward to a second building, and while we probably need by state law to seek architectural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

ISA: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