Expression of Interest:

Davis Center - Renovations

Professional Architectural & Engineering Services - DJS 010291

May 12, 2010

ZMM

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ARCHITECTS & ENGINEERS

May 11, 2010

Ms. Krista S. Ferrell, Buyer Supervisor – File 21
Purchasing Division
2019 Washington Street, East
PO Box 50130
Charleston, WV 25305-0130

RE: Expression of Interest – Renovation to Davis Center
DJS 010291

Dear Ms. Ferrell:

ZMM is pleased to submit the attached information to demonstrate our capability to provide professional architectural, engineering, interior design, and construction administrative services for the renovation and new construction at the Davis Center in Tucker County. Since 1959, **ZMM** has been consistently recognized as one of the largest, fully integrated architecture and engineering firms in the State of West Virginia. If selected, **all** design and construction administrative services for the Davis Center will be provided from our office located in Charleston.

ZMM has extensive experience designing Juvenile Centers in West Virginia. This experience includes the Gene Spadaro Juvenile Center, the J.M. Chick Buckbee Juvenile Center, the James "Tiger" Morton Juvenile Center, the Vicki V. Douglass Juvenile Center, and the Robert Shell Juvenile Center. Additionally, **ZMM** has extensive renovation experience, and has provided design and construction administrative services on a variety of renovation and addition projects to operational correctional centers. This diverse experience, as well as our commitment to creating innovative and award winning facilities, will make **ZMM** a great partner for the West Virginia Division of Juvenile Services.

Thank you for taking the time to review the attached proposal that outlines detailed information regarding the history, services, personnel, experience, and qualifications of **ZMM**. Based upon the information provided during the pre-proposal meeting, we have also included a proposed program and preliminary concepts for the Davis Center Campus. We look forward to meeting with you in the near future to review our qualifications, and to discuss your project in greater detail.

Respectfully submitted,

ZMM, Inc.

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

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Division of Juvenile Services
Renovations to the Davis Center DJS010291

Cover Letter

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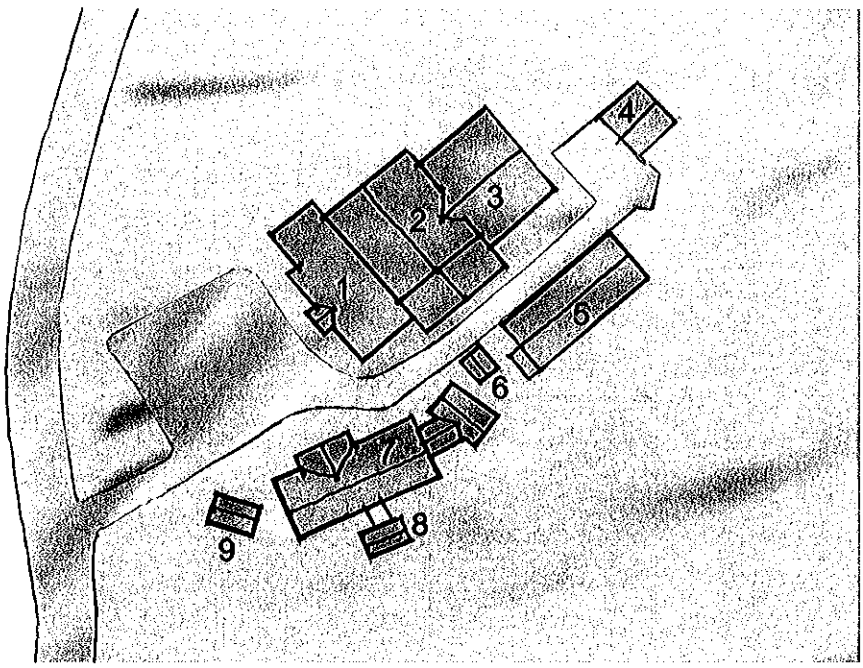
Project Understanding and Design Approach: Davis Center Renovation

During the pre-proposal conference at the Davis Center Mr. Jim Goddard and Ms. Stephanie Bond from the West Virginia Division of Juvenile Services provided information about the proposed program for the Davis Center, and also conducted a tour of the existing facilities. Based upon the information provided during the walk-thru of the facilities, **ZMM** has developed a preliminary program. The program (contained at the end of this section) indicates a need for approximately 6,200 SF of Education and Administration Space, and approximately 7,200 SF for the 24 Capacity Multi-Level Facility for Girls. This program was then used to develop strategies for improvements to the campus.

The Davis Center was closed at the time of the opening of the nearby Kenneth Honey Rubenstein Juvenile Center. The facility, which consists of six (6) independent structures, had been in operation for nearly fifty (50) years. Based upon a preliminary review, the West Virginia Division of Juvenile Services commented that the gymnasium is salvageable, but that they were interested in exploring options for building re-use, renovation, and new construction. It was noted that regardless of the proposed improvements that a fire pump and tank will be required to support a sprinkler system for the improvements.



KEY:
1 Admin/Kitchen/Dining
2 Gymnasium
3 Barracks
4 Metal Trades
5 Vocational Building
6 Storage
7 Educational Facility
8 Mechanical Bldg.
9 Kennel

Existing Davis Center Campus

As noted above, the existing campus contains six (6) independent structures. These structures support nine (9) main functions, as noted above. The structures, and the additions to the structures, were developed over time to accommodate the needs that are currently housed at the Rubenstein Center. The proposed function of the campus requires significantly less space; therefore, the opportunity exists to demolish inadequate facilities.

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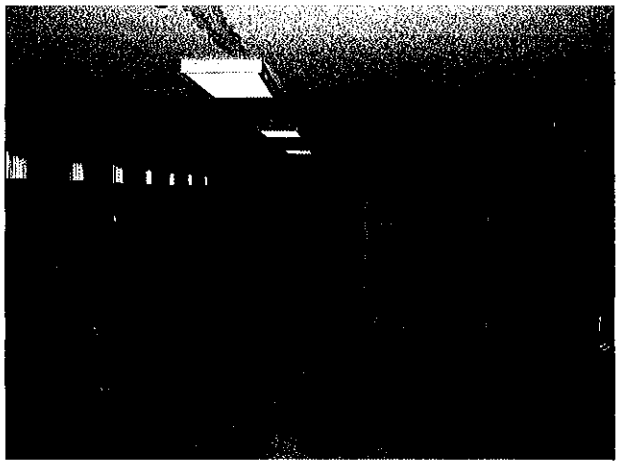
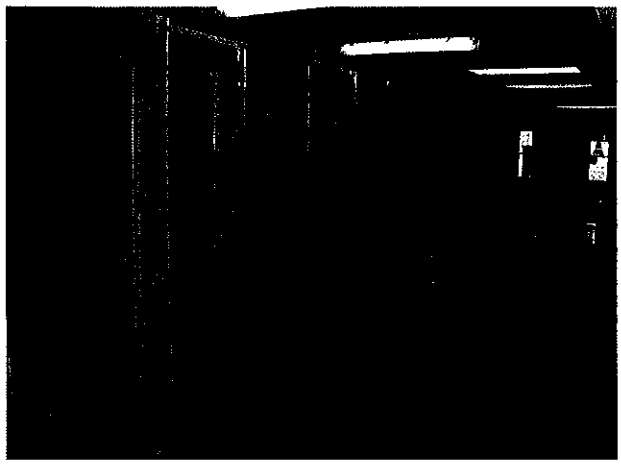
Overall Campus View from Entry

Existing Gymnasium



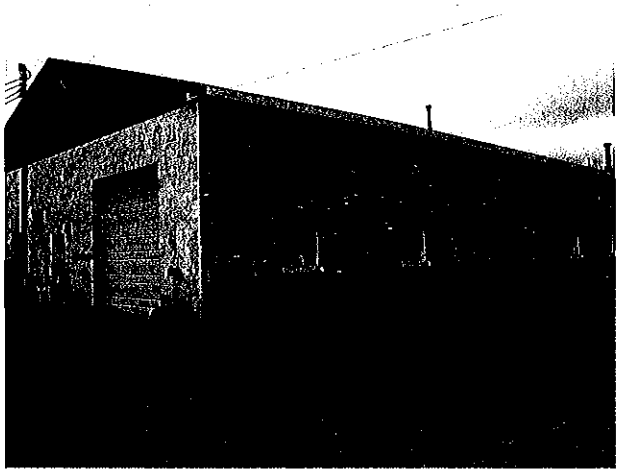
Dormitory



Shower Facilities

The existing main facility is in poor condition. Upon entry, an administrative area is located to the left, while the kitchen and dining area are located to the right. The facility is primarily masonry load-bearing with a wood roof structure. Many of the additions leak at the point of connection to the gymnasium. The gymnasium has also been damaged due to these additions, primarily at the eaves. One suggestion was that the gymnasium is salvageable even if additions are removed. While it would be possible to salvage (and repurpose) a portion of the gymnasium, it may be cost prohibitive. The selective demolition and repairs required are likely to cost more than constructing a new, more efficient, indoor recreation area. Please note that our various preliminary concepts investigate options that include removal of the entire main facility, as well as an option (3) that considers salvaging the gymnasium.

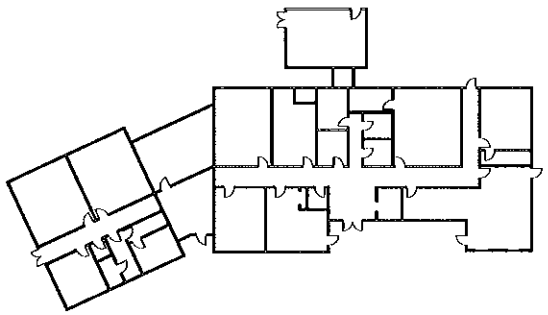
Metal Trades



Vocational Building

Both the existing metal trades building at the vocational building are salvageable, if needed, to support the new facility. Both structures are simple load bearing masonry walls with a wood truss roof structure. The vocational building is demonstrating some structural settlement, likely due to its placement on fill, which is repairable. Both buildings would require significant improvements to their exterior materials to make them appear to be part of a campus.

Educational Facility



Floor Plan of the Existing Education Facility

The last primary facility that was examined was the previous educational facility. Of all of the buildings on the campus, the educational facility is in the best condition. The education facility contains nearly 7,000 SF, but has a residential scale and quality. The exterior material palette could be easily, and inexpensively, improved to set a tone for the entire campus. While the facility does require improvement (structural settlement, poor location of secondary entry), it is a good candidate for reuse.

In addition to the overall condition of the educational facility, it is sized (at 7,000 SF) to support both the educational and administrative functions of the proposed use (approx. 6,200 SF). If this existing facility is re-used for these purposes, a 24 female capacity, 29 bed unit could be developed adjacent to the previous education facility to create one seamless, high quality, juvenile center. Several of the campus options that were developed reflect this strategy.

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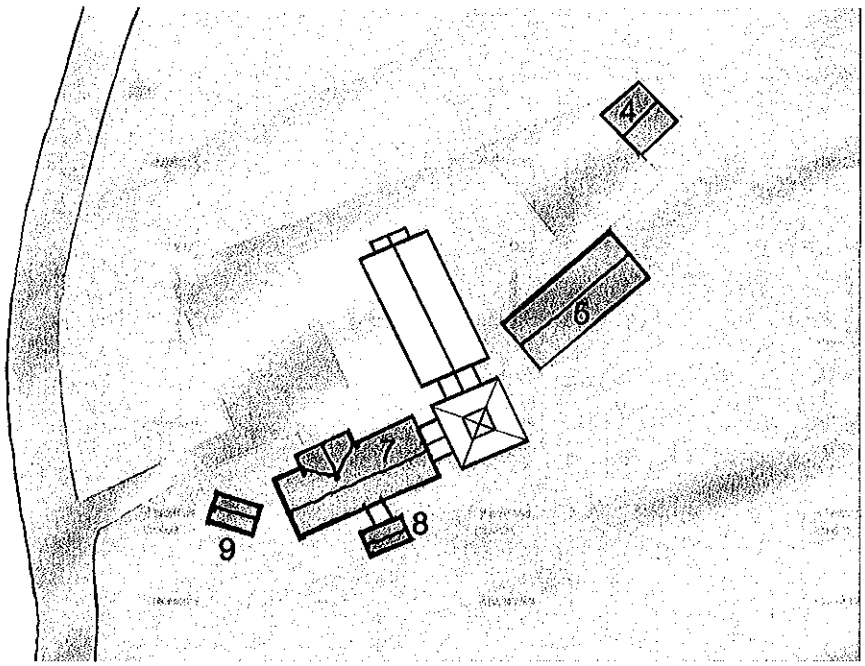

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Davis Center Option '1-A'

The first option for the Davis Center project anticipates the demolition of the existing main facility (including the gymnasium), a storage building, and the later addition to the educational facility. The educational and administrative functions would be located in the existing education facility. A new 29 bed unit would be developed perpendicular to the existing education building, which would be connected by a new indoor recreation area. This option would provide a formal, consistent appearance for the campus, and all required programmatic elements would be contained within one facility. This option retains the most valuable remaining asset, the educational facility, and uses it to help set the tone for the new campus. The new facilities would be developed with a similar residential quality, which would help control the overall cost.

The metal trades and vocational building could be salvaged (and screened by the new construction), or demolished as shown in Option 1-B. If the metal trades and vocational buildings are salvaged, they could be improved at a later date when additional funding becomes available.

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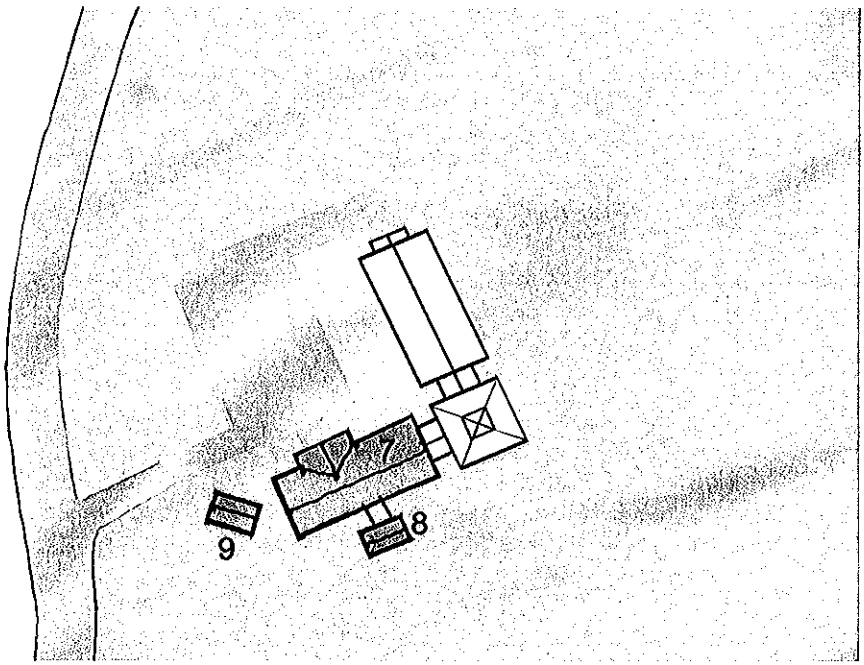

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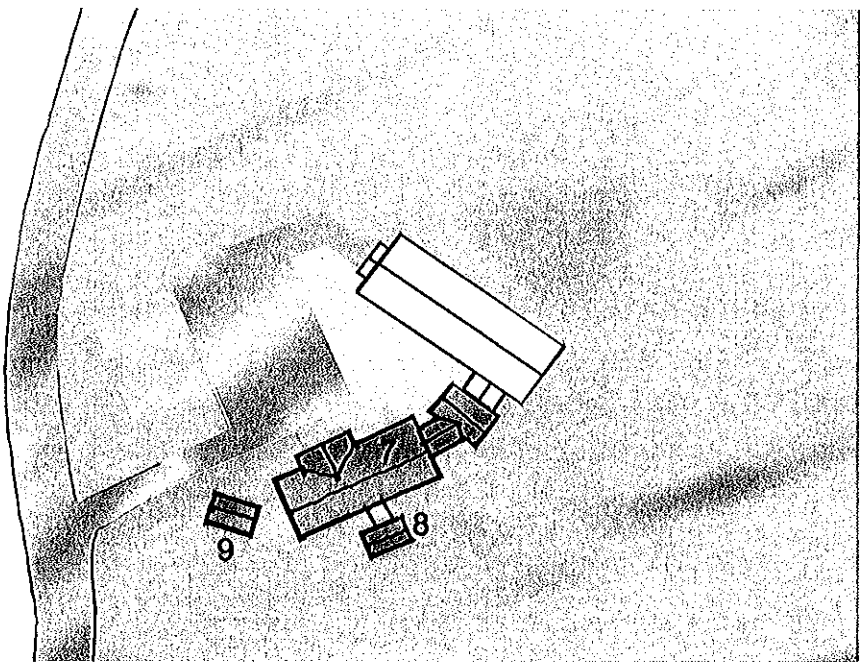
Davis Center Option '1-B'

Option 1-B is the same as Option 1-A, but anticipates the demolition of the metal trades and vocational buildings.



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Davis Center Option '2'

Option 2 is similar to Option 1, but leaves the entire existing educational facility, including the addition, intact. If Option 2 is developed, the vocational facility will need to be demolished. The

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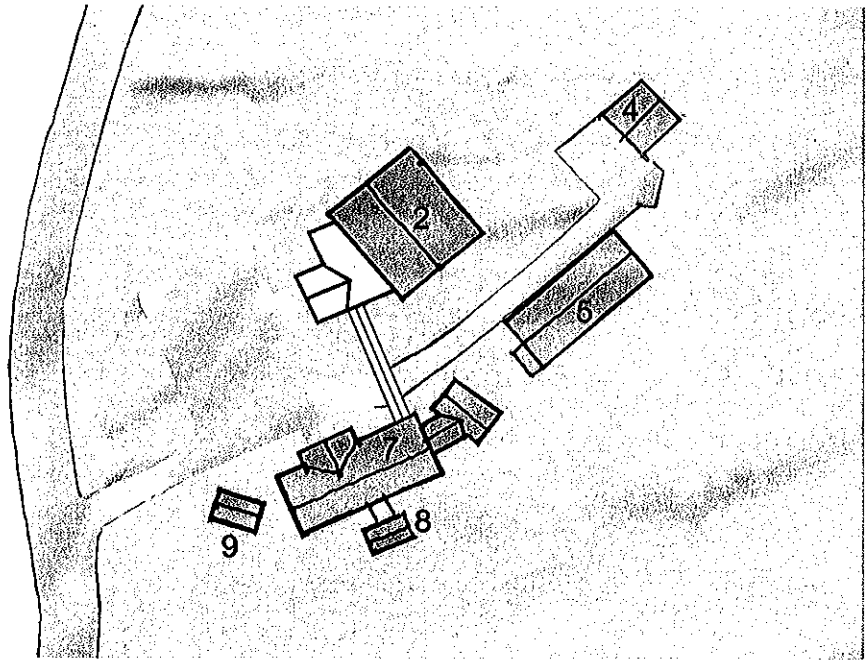
advantage of this option is that the size of the addition can be slightly reduced, however the overall campus would have a less planned and formal layout if the addition is not removed to improve the connection between the existing and proposed structure.



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Davis Center Option '3'

The third option for the Davis Center is to salvage both the existing education facility and the existing gymnasium. A small addition to the gymnasium would be required to accommodate the program, even if half of the gymnasium was repurposed for the new residential unit. A covered walkway would connect the facilities. The metal trades and vocational building could remain if the scenario is developed.

One concern with this option is that it will not create the cohesive campus that is desired for the new center. Additionally, as noted previously, there is some concern that the selective demolition required in an around the gymnasium would not be the most cost effective solution.

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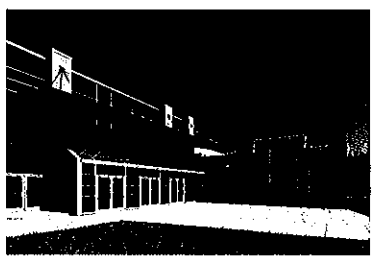
Cost Control

Recently, several **ZMM** employees had the opportunity to participate in a meeting of the Governor's Commission on Prison Overcrowding. One of the goals of the conference was to develop cost effective strategies for providing new correctional space. 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 renovations to the Davis Center. The following three trends, which focus on normative design, adaptive reuse, and reduced energy consumption reflect a design strategy that will help the Division of Juvenile Services meet the need for additional capacity while attempting to minimize construction and operational expenses:

1. **Normative Design**
   Ken Ricci, FAIA noted that modern jail interiors are being designed "with a belief that normative environments for most, not all, inmates will produce normal behavior." **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 juvenile center 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. Repurposing a portion of the Davis Center is a cost-effective decision to provide a new facility for 24 juvenile females.



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 "Daylighting is the first area where correctional facility planning has embraced the precepts of sustainability." Daylighting, like many sustainable design principles, has the dual advantages of an improved interior environment, coupled with reduced energy consumption. **Employing sustainable design principles will help reduce the operational cost by reducing energy consumption.** While the initial capital investment in a new juvenile facility is significant, it is only a small fraction of the long-term cost of the facility. **Improving the operational efficiency of any facility will yield significantly more savings than reducing the quality of the initial construction.**

U.S. GREEN BUILDING COUNCIL MEMBER

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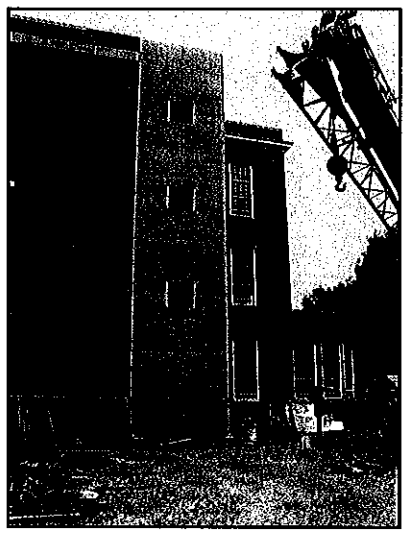
The Division of Juvenile Services has already taken the first step by choosing to renovate the vacant Davis Center. If selected to participate in the renovation/additions to the facilities, **ZMM** would work closely with the Division of Juvenile Services to ensure that the security level of the design 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.

Renovation Project Approach



Renovation projects require a unique approach. The first step in a successful renovation project involves conducting a thorough 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. This comprehensive plan will ensure that all 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 help expedite this process.

In addition to the analysis noted above, determining the vision and expectations of the Division of Juvenile Services 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. 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. **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, phasing plans (if required), 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 complete architectural and engineering design services in-house will help ensure the quality of the final design for the Division of Juvenile Services.

Davis Center Renovation//Addition

24 Capacity Multi-Custody Level Facility for Girls

10-May-10

Proposed Program

Administration	#	SF/#	SF
Unit Manager	1	150	150
Case manager	1	120	120
OA/Support	2	80	160
Counselor (Corr. 1)	1	120	120
Shift Manager	1	120	120
Drug Counselor	1	120	120
Storage	1	200	200
Staff Toilets/Lockers	2	200	400
DJS Group Rooms	2	400	800
Breakroom	1	200	200

Education	#	SF/#	SF
Classroom (12-14)	2	400	800
Classroom (8-12)	2	300	600
Principal	1	120	120
Education Secretary	1	80	80
Soft Vocational Room	1	300	300
Storage	1	100	100
Toilets	2	80	160

Sub-Total (Educ + Admin)	4,550

Circulation, Mech, Elec (35%)	1,593

Total (Educ + Admin)	6,143

Unit	#	SF/#	SF
Intake/Processing	1	120	120
Secure Cells, Wet	4	70	280
Medium Beds	19	70	1,330 *
Transitional Beds	6	70	420
Toilets/Showers	1	300	300

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Misc.	#	SF/#	SF
Indoor Recreation	1	1600	1,600
Visitation (Non-Contact)	1	120	120
Dining	1	600	600
Warming Kitchen	1	150	150
Medical Unit	1	120	120
Laundry	1	200	200
Building Maintenance	1	120	120

Sub-Total (Unit + Other)	5,360

Circulation , Mech, Elec (35%)	1,876

Total (Unit + Misc.)	7,236

Recommendations:

Renovate the existing educational facility to accommodate the education and administration component. Therefore, 7,000 SF of the existing educational building will be renovated.

Develop an addition to the educational facility to accommodate the proposed 24 person unit (29 beds). The new construction will include the intake and housing portion of the facility, and will be developed adjacent to the exsiting education facility.

All other structures would be demolished, with the exception of the metal trades building that would be maintained for a future vocational facility, and/or outside storage.

ZMM Correctional Experience 1993 - Present

"Gene Spadaro" Juvenile Center
Lakin Minimum Security Dormitory
Lakin Correctional Industries
"Robert Shell" JUvenile Center
Alderson Federal Prison Camp
-New Housing Unit

N.R.J. & C.F. Prison Industries
& Vocational Educational Building

Central Regional Jail
Huttonsville Correctional Center
South Central Regional Jail

Alderson Federal Prison
SouthWestern Regional Jail

Lakin Correctional Center

Tygart Valley Regional Jail
Judge Black Courthouse Annex

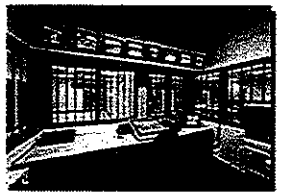
Roof Upgrades/ HVAC Control Systems:
Central Regional Jail
South Central Regional Jail
Southern Regional Jail
Norhtern Regional Jail

1993 1994 1995 1999 2000 2001 2002 2003 2004 2005 2008 2009 2010

SouthWestern Regional Jail

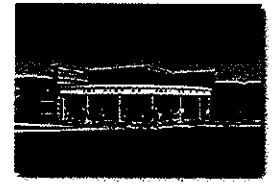
Eastern Regional Jail
North Central Regional Jail

Southern Regional Jail
Northern Regional Jail
& Correctional Facility



Western Regional Jail
Buckbee Juvenile Center
Hazelton Federal Prison Camp
"Tiger" Morton Juvenile Center

Regional Jail Renovations:
Central Regional Jail
Southern Regional Jail
South Central Regional Jail



Wood County Justice Center

Kitchen/Shower Facilities Renovations:
Central Regional Jail
South Central Regional Jail
Southern Regional Jail

West Virginia Division of Juvenile Services

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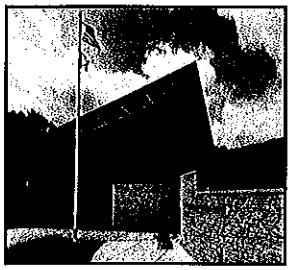

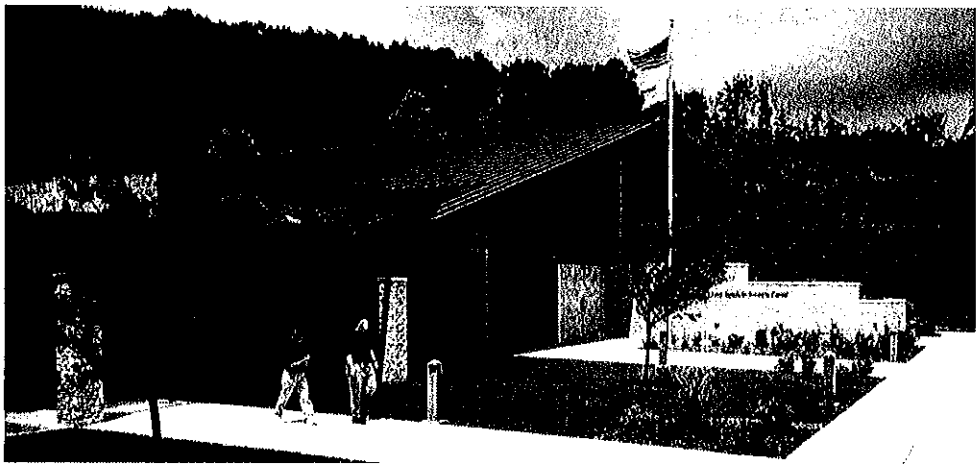

The **Gene Spadaro Juvenile Center**, located in Mount Hope, Fayette County, proved that the prototype concept can be flexible enough to accommodate a dramatic variation in programming. The "softer" approach to this minimum-security facility anticipates program funding through federal IV-E regulations,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

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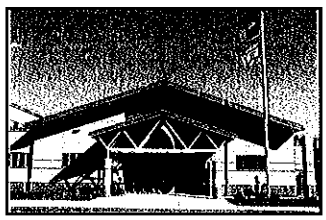

Following a very successful program of regional jail construction based on ZMM/CRA's prototype design, the West Virginia Regional Jail & Correctional Facility Authority awarded ZMM a contract to design a new prototype for juvenile detention facilities. The original prototype has undergone several transformations,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

The **Robert L. Shell Juvenile Center** located in Barboursville, WV. This Juvenile Center used the same prototype design as the standard center. Other than adding it to the different size, located adjacent to the Western Regional Jail, it is an exact duplicate of the Fayette County Facility and was completed in 2004.

West Virginia Division of Juvenile Services

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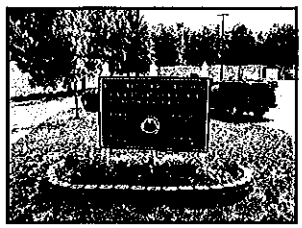
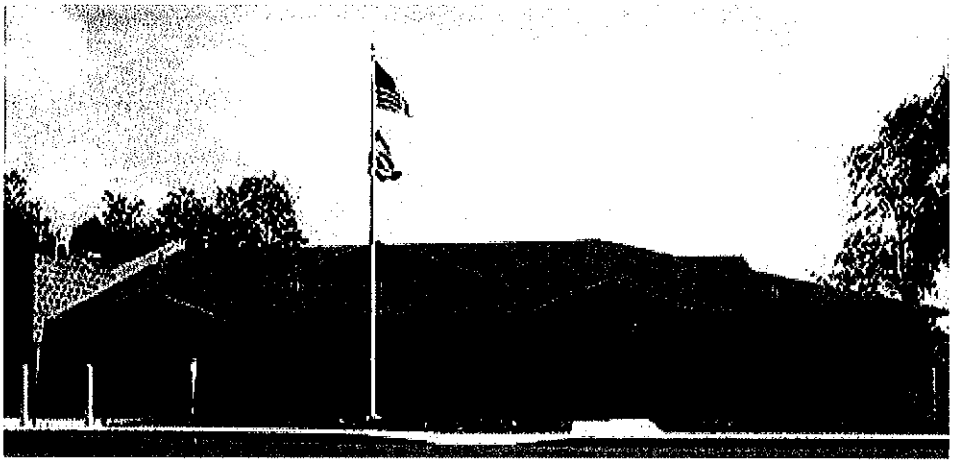
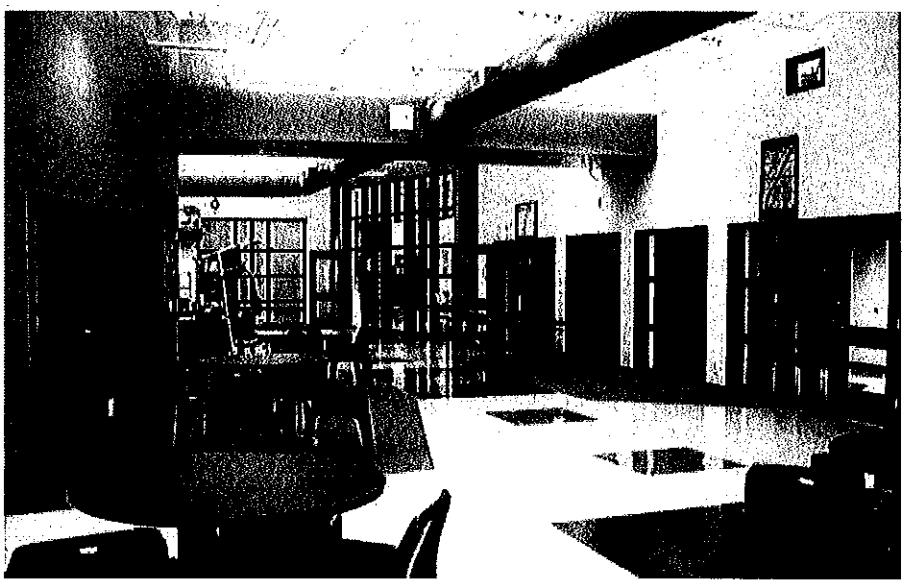




The Vicki V. Douglas Juvenile Center is a 23 bed co-ed, staff secure, juvenile detention center located in Martinsburg, West Virginia. The original Juvenile Center was enlarged and completely renovated by ZMM to provide a secure facility with addition capacity and services to meet the growing needs of the area. The original Juvenile Facility was quadrupled in size while leaving the original façade intact on two sides with the new addition wrapping around the remaining two sides.

ZMM provided multiple class rooms, recreation and common areas for educational, behavioral, training, counseling and life skills activities in the enlarged facility. These activities are able to be observed and monitored by staff from a central control area. The construction of the new addition and renovation of the existing was phased to provide minimal interruptions with operation of the original facility.



CORRECTIONAL FACILITIES

WEST VIRGINIA REGIONAL JAILS

ZMM

CONTACT:
Chilton Lilly,
Project Manager

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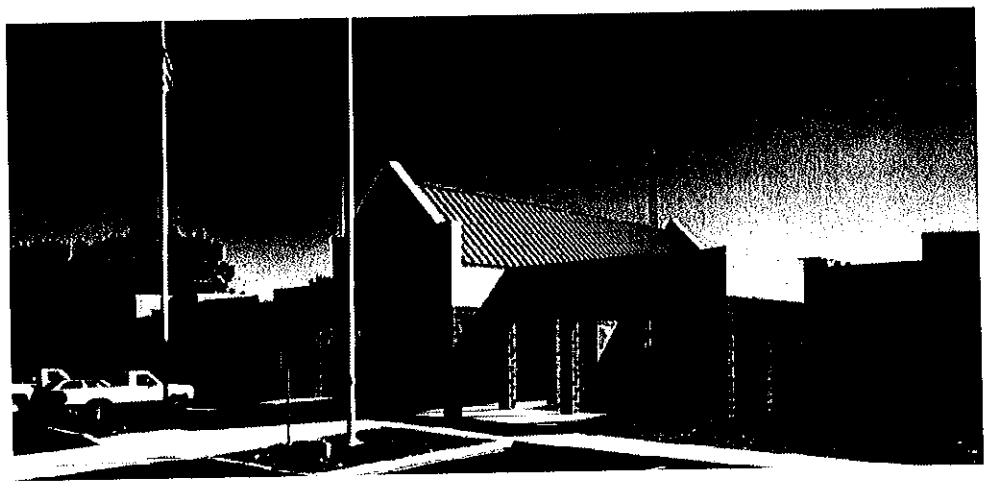
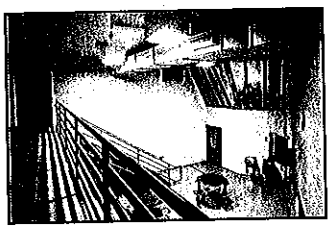
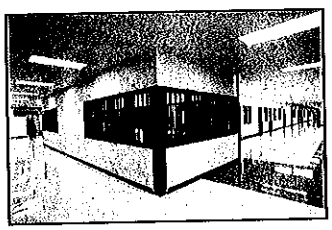
1325 Virginia Street, E
Charleston, WV 25301
304.561.6450







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.

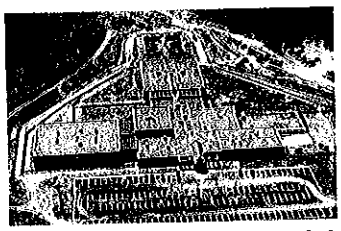
CORRECTIONAL FACILITIES

WEST VIRGINIA REGIONAL JAILS

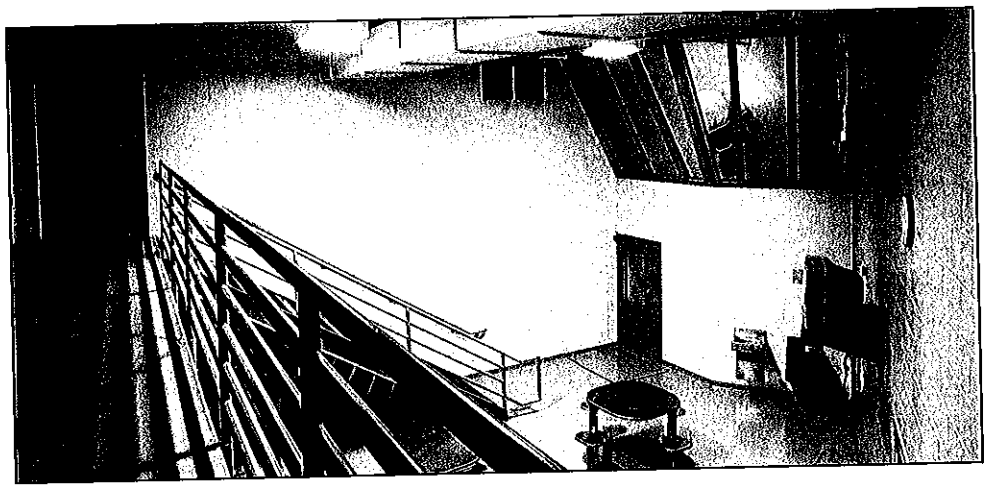
ZMM

CONTACT:
Chilton Lilly,
Project Manager

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



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.

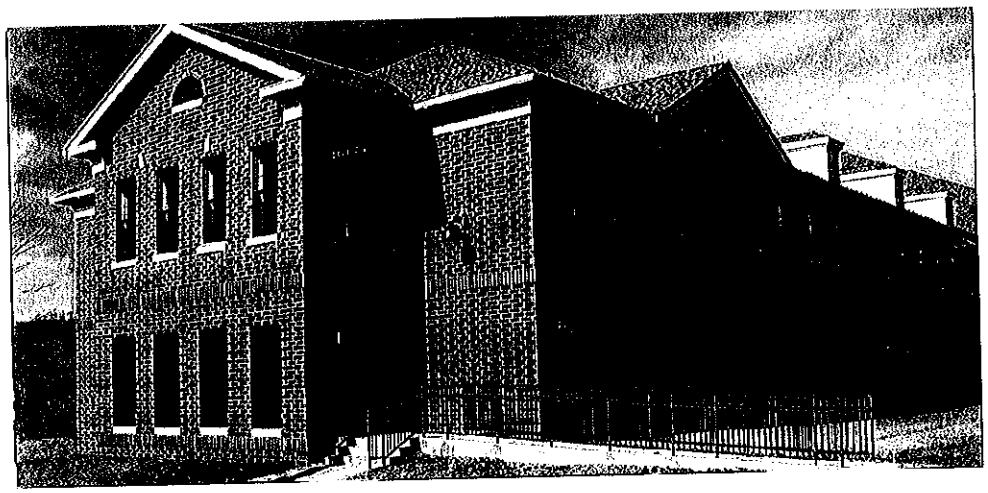
CORRECTIONAL FACILITIES

Correctional Facilities

ZMM

CONTACT:
Chilton Lilly,
Project Manager

WV Regional Jail &
Correctional Facility
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.

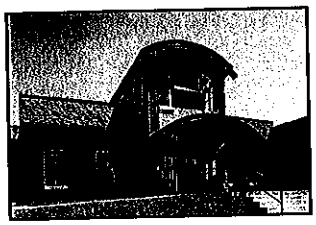
Denmar Correctional Facility - This project consisted of renovations to an existing 4-story hospital's toilet/shower system to accommodate a medium security facility for the West Virginia Department of Corrections.

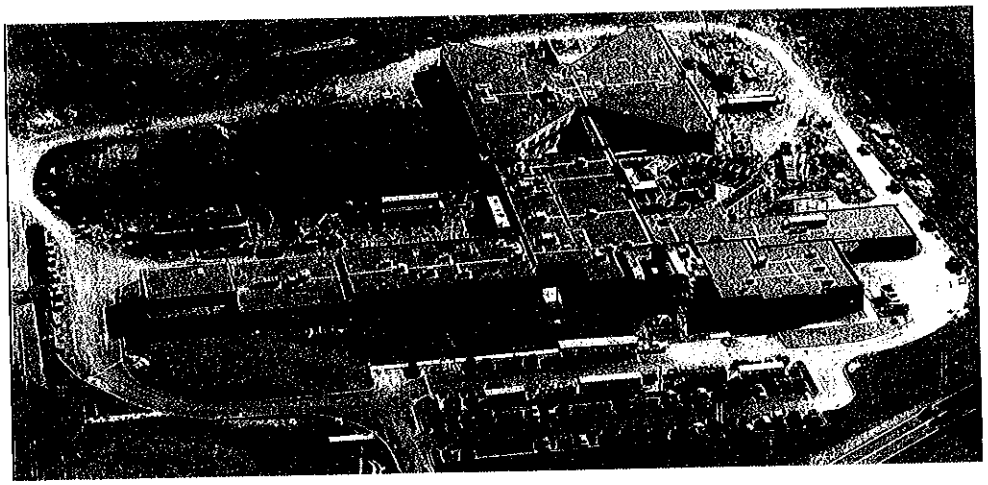
Huttonsville Correctional Facility/100 Bed Dormitory - The 15,000 SF dormitory was designed as a minimum/medium security facility and was completed on schedule and within the Owner's budget.

CORRECTIONAL FACILITIES

Prison and Correctional Centers

ZMM





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.

Joint Interagency Training & Education Center

WVARNG

ZMM

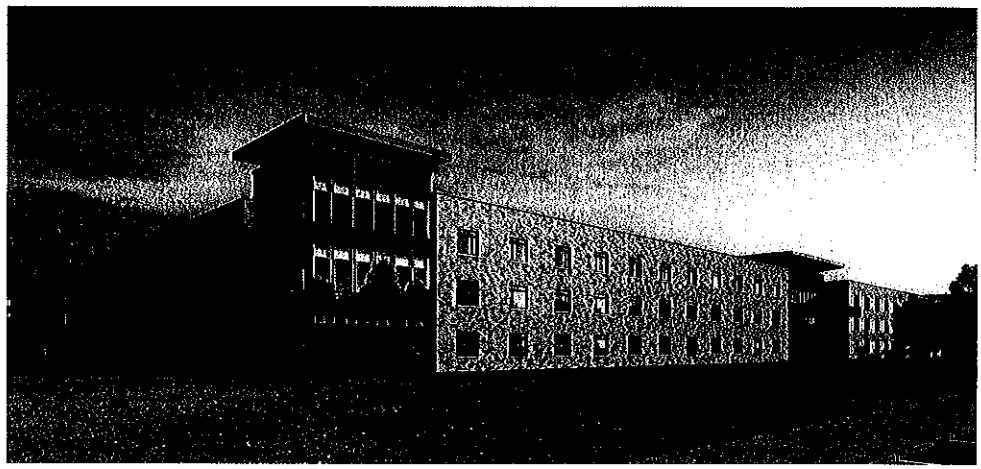
LOCATION:
Kingwood, West Virginia

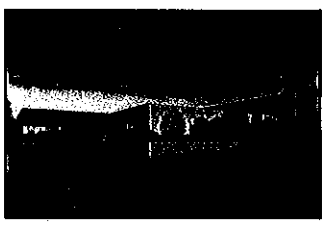
SIZE:
285,000 SF

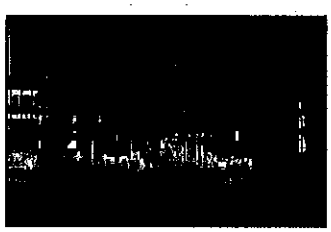
COMPLETION:
Est. 2012

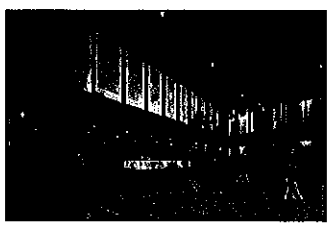
COST:
$110 Million

CONTACT:
Brigadier 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

ZMM

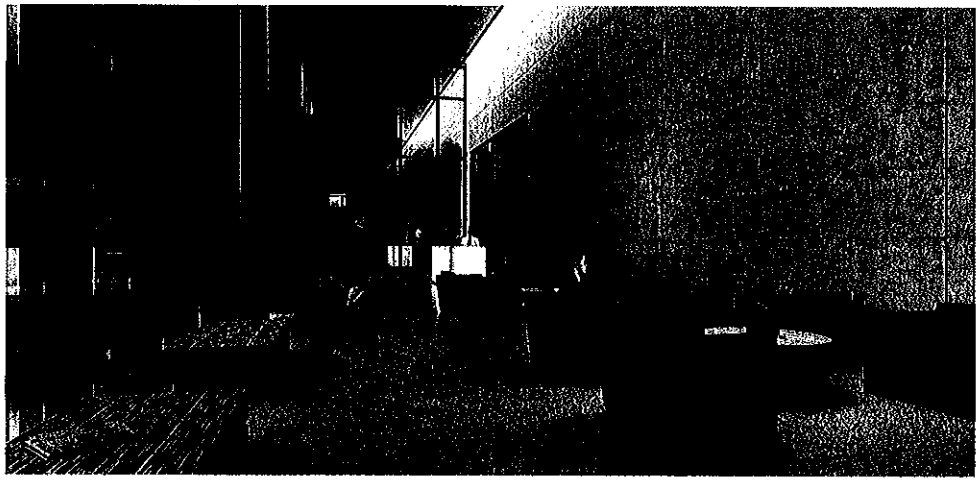
LOCATION:
Kingwood, West Virginia

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.

State Office Building #5, 10th Floor

Office of Technology

ZMM

LOCATION:
Charleston, WV

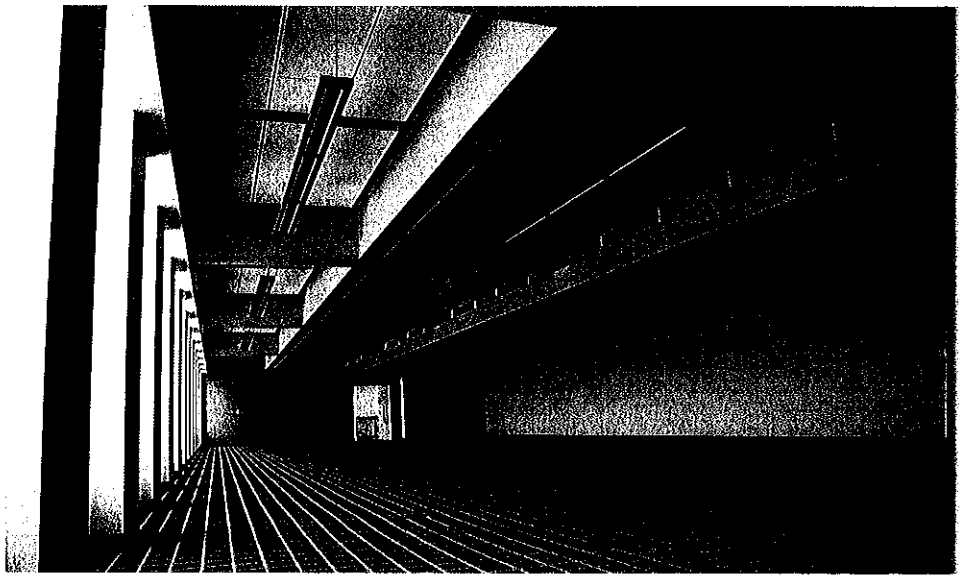
SIZE:
22,000SF

COST:
$3.7M

COMPLETION:
2010

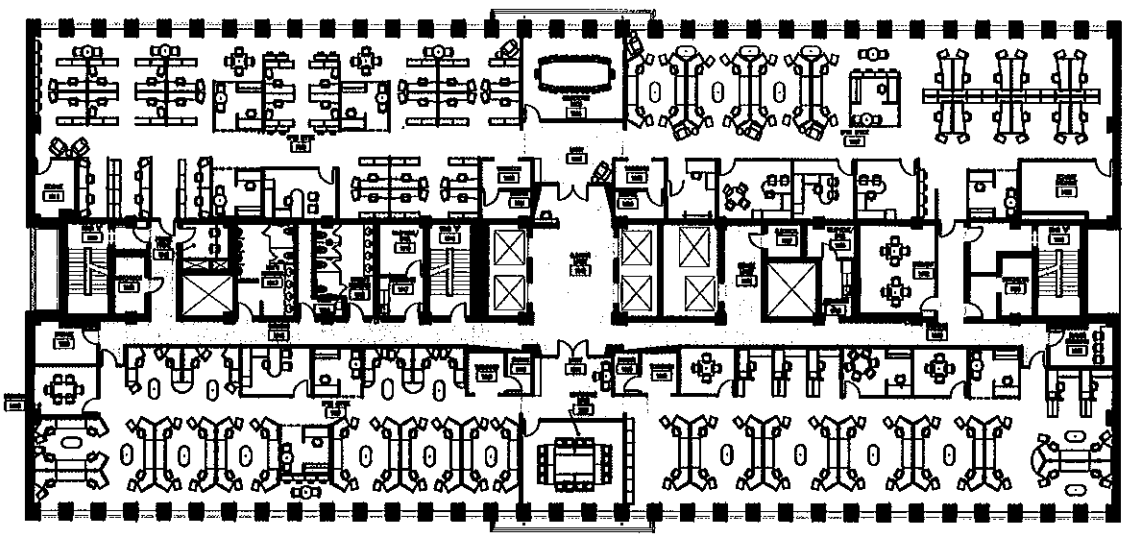
CONTACTS:
Mr. David Oliverio
Director
General Services Division
1900 Kanawha Blvd. E
Charleston, WV 25305
304.558.3517

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



The renovation of the tenth floor of State Office Building #5 on the State of West Virginia Capitol Campus was recently completed for the Office of Technology. The renovation was designed to meet the United States Green Building Council's LEED for Commercial Interiors standard. To commence the project, ZMM conducted a detailed investigation of State Office Buildings 5, 6, & 7, which included recommendations for improvement of the facilities. The renovation of the 10th floor of Building #5 was the first major interior renovation project that responded to the recommendations. The renovation was technically intensive, and included demolition of the existing construction back to the building structure, as well as significant hazardous material abatement.

ZMM, working with the State of West Virginia General Services Division, the Real Estate Division, and the Office of Technology developed a strategy to renovate 22,000 SF of space to accommodate 137 employees. The design includes a mix of private and open office space, and responds to current workplace trends. The renovations include a low profile cable management system which maximizes the flexibility of the space. ZMM also developed the interior, furniture, fixture, and equipment design with significant coordination with the Office of Technology.



State Office Building #5, 10th Floor

Office of Technology

ZMM

LOCATION:
Charleston, WV

SIZE:
22,000SF

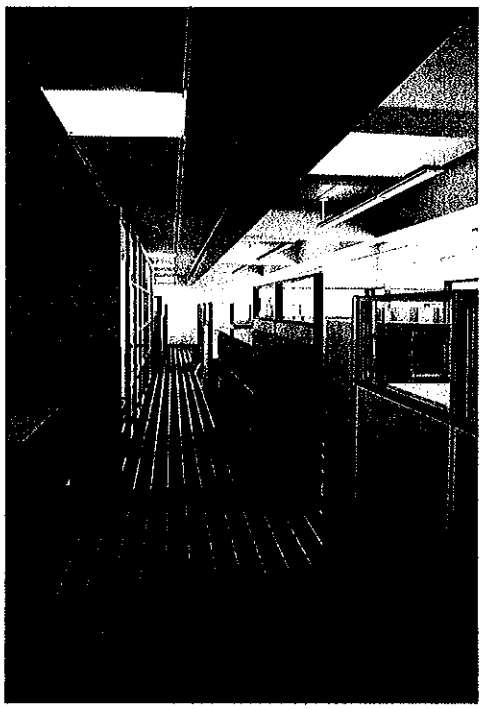
COST:
$3.7M

COMPLETION:
2010

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

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

To improve the opportunity for daylighting, office spaces have been "pulled-in" to the core of the building. This decision will allow for daylight to be introduced deep into the interior work areas, and will allow access to the daylight and views for all employees. The perimeter structural bays of the open office areas have a "coffered" ceiling. Ductwork for mechanical distribution is terminated at a bulkhead at the interior edge of the perimeter structural bay, allowing for more open volume and a more contemporary aesthetic.



The design of the 10th floor renovation also provided the opportunity to introduce a standard "transverse" core will be developed throughout State Office Buildings 5 & 6. The transverse core includes all of the major entry, meeting, and workroom functions. In addition to the office areas, the elevator lobby has been updated to create a consistent look and level of finish at the entry point to the Office of Technology.

Construction & Facilities Management Office

WVARNG

ZMM

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.

St. Albans High School

Kanawha County Schools

ZMM

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.

Wood County Justice Center

ZMM

LOCATION:
Parkersburg, West Virginia

SIZE:
32,000 SF

COMPLETION:
TBD

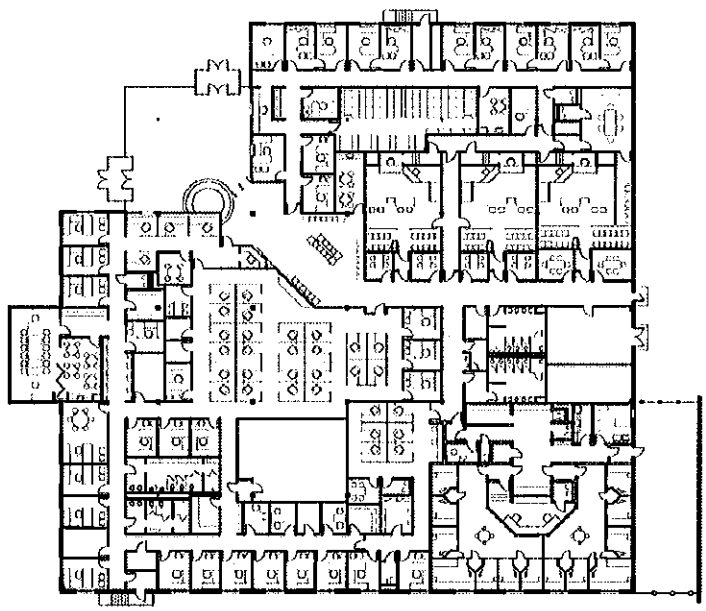
CONTACT:
Mr. Rick Modesitt
Commissioner
No. 1 Court Square, Suite 203
Parkersburg WV 26101
304.424.1984

This project was an extensive renovation of a 15 year old, 32,000 square foot, single story office building purchased by the Wood County Commission in order to bring together 3 government functions that were housed in 3 separate buildings.

The program consists of offices for the county's Magistrate Court system, 3 court rooms, and offices for the Sheriff's Department, Home Confinement officers as well as a 12-hour Inmate Holding Center.

The building's main entrance was relocated and redesigned to provide a new, more prominent identity to the building and to align with the new parking area created by the demolition of the existing magistrate court building.

Skylights were located in open office areas and public waiting areas to provide more natural light inside the building and reduce electricity use.



The project was designed around the U.S. Green Building Council's New Construction and Major Renovation Guidelines with a target of becoming LEED Certified.

Judge Black Courthouse Annex

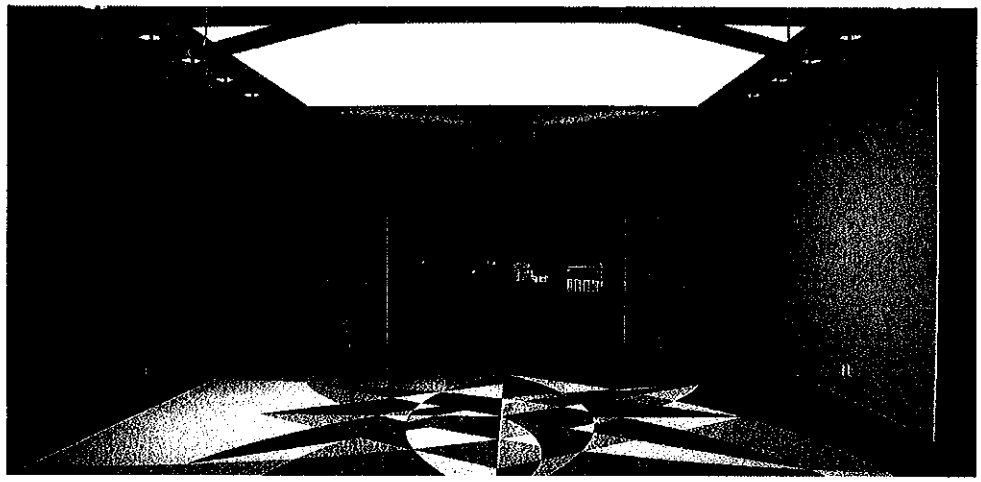
ZMM

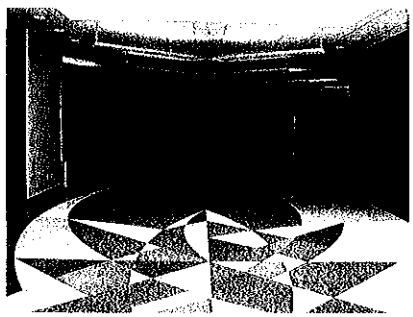
LOCATION:
Parkersburg, West Virginia

SIZE:
36,828 SF

COMPLETION:
2005

CONTACT:
Mr. Rick Modesitt
Commissioner
No. 1 Court Square, Suite 203
Parkersburg WV 26101
304.424.1984

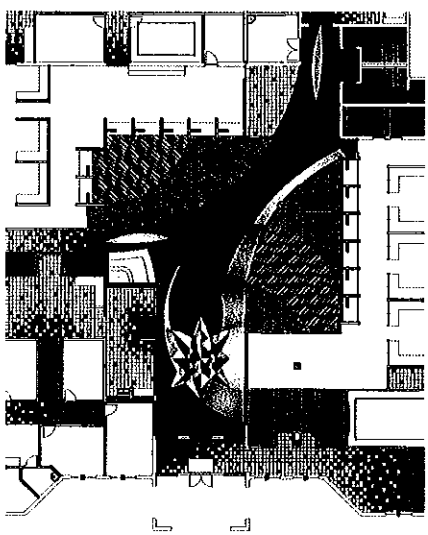




This project involved renovating an existing food service area in the WV Capitol Building. The new renovations include a full service kitchen, self serve area and seating for 300 people. ZMM worked with a kitchen consultant and provided demolition drawings, base architectural, mechanical and electrical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

The project included design of the first phase of a wet pipe sprinkler system that will serve the entire Capitol. In addition, ZMM also provided the documents to replace the Capitol medium voltage transformers located in the basement vault.

ZMM met stringent timeline for a critical construction completion date.



HISTORY AND PHILOSOPHY of ZMM

ZMM

LOCATION:
222 Lee Street, West
Charleston, WV

CONTACT:
Phone 304.342.0159
Fax 304.345.8144
www.zmm.com

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

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

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

Over the last decade, ZMM has become a leader in sustainable or 'green' design in West Virginia. In addition to participating in sustainable design and construction seminars throughout the State (Beckley, Fayette County, Morgantown, Charleston, and Parkersburg), ZMM designed one of the first sustainable educational facilities in West Virginia (Lincoln County High School). ZMM also employs a sustainability coordinator who assists our clients in determining appropriate sustainable design strategies for their projects. ZMM's unique design approach has proven invaluable on projects that employ sustainable design principles, which often require a more integrated approach to building design.

HISTORY AND PHILOSOPHY of ZMM

ZMM

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

COMMUNITY SUPPORT

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

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

Kanawha County Public Library

WEST VIRGINIA PUBLIC BROADCASTING

ZMM ARCHITECTS & ENGINEERS POPS SERIES

West Virginia Symphony Orchestra

ZMM

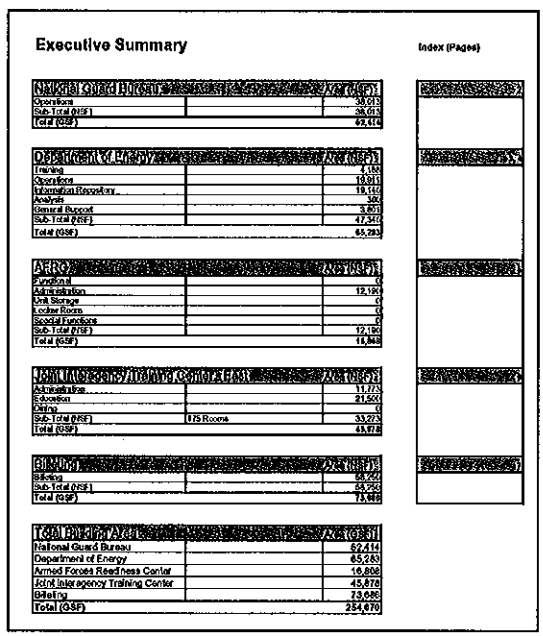
Since its inception, ZMM has been dedicated to the integrated approach to building design (providing full architectural and engineering services in-house) which is unique to architectural firms of our size. Our past successful experience demonstrates that providing multi-disciplined services within one 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)

Operations		38,013
Sub-Total (NSF)		38,013
Total (GSF)		62,414

Training		4,184
Operations		10,913
Information Repository		19,114
Analysis		300
General Support		3,801
Sub-Total (NSF)		47,312
Total (GSF)		65,283

Functional		0
Administration		12,180
Unit Storage		0
Locker Room		0
Social Functions		0
Sub-Total (NSF)		12,180
Total (GSF)		16,808

Administrative		11,773
Education		21,500
Dining		0
Sub-Total (NSF)	175 Rooms	33,273
Total (GSF)		45,878

Billeting		58,200
Sub-Total (NSF)		58,200
Total (GSF)		73,686

National Guard Bureau		62,414
Department of Energy		65,283
Armed Forces Readiness Center		16,808
Joint Interagency Training Center		45,878
Billeting		73,686
Total (GSF)		264,070

PROFESSIONAL SERVICES

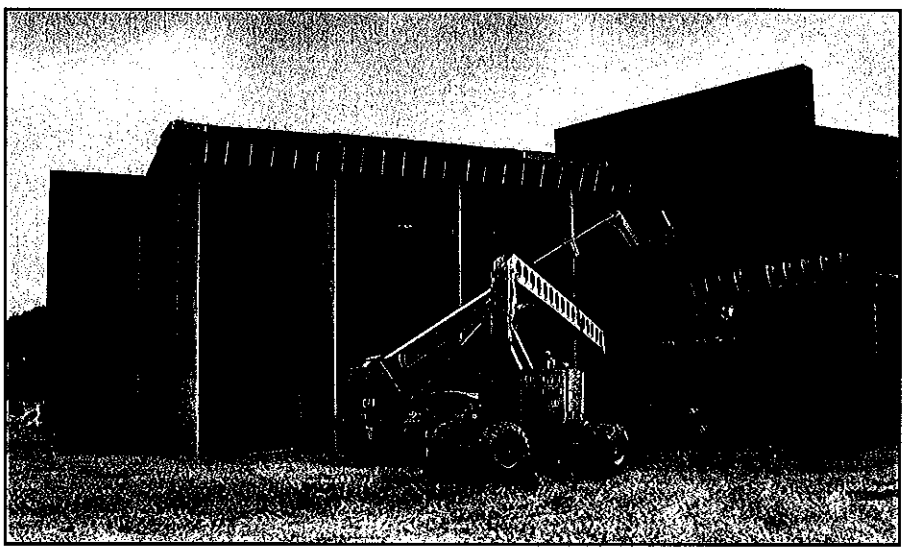
ZMM

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



QUALITY ASSURANCE

ZMM

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

1. Selecting the Project Team

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

2. Identifying Project Requirements

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

3. Identifying Client Expectations

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

4. Ongoing Project Reviews

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

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

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

5. Post Project Review

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

6. Staff Training, Assessment and Enhancement

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

ADAM R. KRASON

AIA, NCARB, LEED AP

ZMM

Position
Architect, Principal

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

Employment History
2008 - Present, Vice President
2003 - 2008, Project Architect
1998 - 2003, Project Architect, Charleston Area Architectural Firm
1998, Consultant, Anderson Consulting

Professional Credentials
Registered Architect: West Virginia and Ohio
LEED Accredited Professional
Construction Specifications Institute – CDT
Member of American Institute of Architect
NCARB Certification

Civic Affiliations
West Virginia Vision Shared-Sustainable Economic Development Team
West Side Main Street Design Committee, Charleston, West Virginia
West Virginia Qualifications Based Selection Council
Development Council, St. Agnes School, Charleston, West Virginia

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

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

Other Project Experience
Sam Purdue Juvenile Center
Lorrie Yeager Juvenile Center

Project Experience
State of West Virginia Division of Juvenile Services
Joint Interagency Training and Educational Center (JITEC)
Wood County Justice Center
West Virginia University - Parkersburg
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

STEVEN BRANNER
AIA

ZMM

Position
Principal
Corporate Management
Architectural Programming
Architectural Design and Production

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

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

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

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

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

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

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

STEVEN L. COOK
PE

ZMM

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 Division of Juvenile Services
West Virginia Regional Jail & Correctional Facility Authority
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

Nathan Spencer, AIA

ZMM

Position
Architect, ZMM, Inc.

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

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

Professional Credentials
American Institute of Architects (WV)

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

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

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

HANK WALKER

AIA, LEED AP

ZMM

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
State of West Virginia Division of Juvenile Services
Alderson Federal Prison Camp
Hazelton Federal Prison Camp
West Virginia Army National Guard Family Readiness Center
West Virginia State Office Buildings 5,6 & 7
Stonewall Jackson Lake State Park
Resort at Glade Springs
Braxton County Memorial Hospital
Greystone on The Cheat
Beverly Hills Middle School
Barboursville Middle School
Brookview Elementary School
Sissonville Library

SCOT CASDORPH

PE

ZMM

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. Casdorph 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
Southside Elementary and Huntington Middle School
Milton Middle School
Wayne Elementary School
Martha Elementary School
Iaeger Elementary School
Lincoln County High School
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

MARY JO CLELAND

PE

Position
Civil Engineer

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

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

Professional Credentials
Registered Engineer (WV)

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

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

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

STEPHEN E. HEDRICK II

PE

ZMM

Position
Structural Engineer, ZMM

Education
B.A., Civil Engineering, West Virginia University Institute of Technology, Montgomery, WV, 1996-2001
M.A., Civil Engineering - Structural, University of Tennessee Knoxville, TN, 2001-2003

Employment History
2007-Present, ZMM
2003-2007, Principal Engineer, McCall Engineering, LLC, Sarasota, FL
2001-2003, Teaching Assistant and Thesis Research, University of Tennessee, Knoxville, TN

Professional Credentials
Professional Engineer (PE), 2007
Certified Engineer in Training (EIT), 2001

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

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

Project Experience
Southside Elementary/Huntington Middle School
Highland Medical Facility
New River Elementary - Supplemental Support
Hacker Valley Elementary - Supplemental Support
Barboursville Middle School - Supplemental Support
Glen Jean Armed Forces Center - Joist Reinforcement
West Virginia Cultural Center

DAVID R. UNRUE

AAIA

ZMM

Position

Construction Administration, ZMM

Education

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, Construction Administrator, 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

State of West Virginia Division of Juvenile Services
West Virginia Regional Jail & Correctional Facility Authority
Job Corps Center, WV
Sears, Roebuck & Company, Retail Centers
Various Cabell County Schools, WV

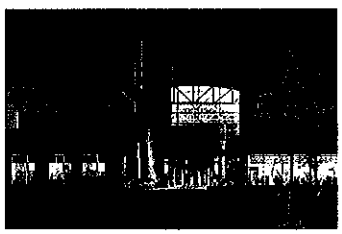
AWARD WINNING DESIGN

ZMM

2009

Construction & Facilities Management Office

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



2008

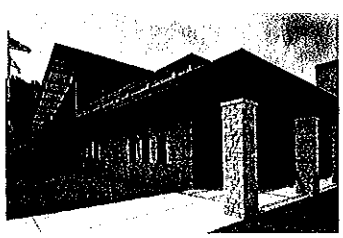
Erma Byrd Center

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

2007

Lincoln County High School

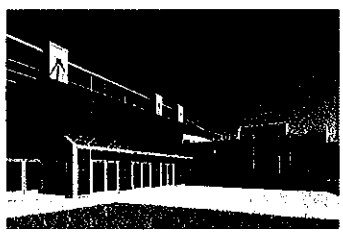
Hamlin, West Virginia
AIA HONOR AWARD West Virginia Chapter
Excellence in Architecture
EDUCATION DESIGN SHOWCASE
Project of Distinction award
AMERICAN SCHOOL & UNIVERSITY
Outstanding Building Design



2006

Gene Spadaro Juvenile Center

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



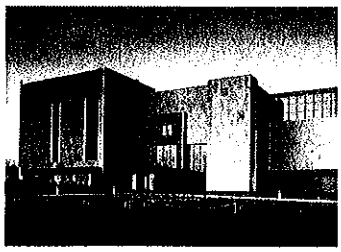
2004

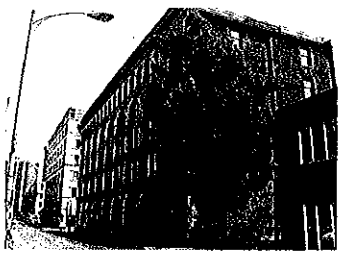
St. Albans High School

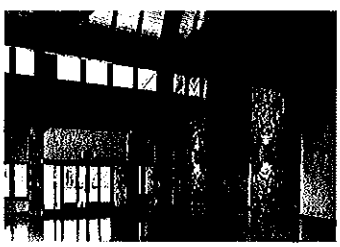
St. Albans, West Virginia
IMPACT ON LEARNING AWARD
Effective Transformation
EDUCATION DESIGN SHOWCASE
Outstanding Building Design
AMERICAN SCHOOL & UNIVERSITY
Outstanding Building Design

ADDITIONAL AWARD WINNING DESIGN

ZMM







West Virginia Society of Architects
Design Honor Awards

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

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

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

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

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

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

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

Client References

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

Steve Canterbury, Administrative Director
Administrative Office of the Courts
Capitol Complex
Building 1, Room E-100
Charleston, WV 25305
304.558.0145

The County Commission of Wood County

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

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

Robert K. Tebay, President

Rick Modesitt, Commissioner

David Blair Couch, Commissioner

WCC:ah

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 Higher Education Foundation

200 MAIN STREET, BECKLEY, WEST VIRGINIA 25801-4613

TELEPHONE 304 929-2010 FACSIMILE 304 929-2009 forwardswv@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,

Tom Acker

Thomas S. Acker, S. J.
Executive Director

TSA:llm

Lincoln County Schools

David L. Roach
SUPERINTENDENT

Jeff Huffman
ASSISTANT SUPERINTENDENT

January 22, 2008

To Whom It May Concern:

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

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

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

Sincerely,

David L. Roach

David L. Roach
Superintendent of Schools

10 Marland Avenue, Hamlin, WV 25523 • (304)824-3033 • Fax (304)824-7947

RFQ No. DJS 010291

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: ZMM, Inc.

Authorized Signature: [signature] Date: 11-MAY-2010

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 11th day of May, 2010.

My Commission expires 10-6-2018, 20___.

AFFIX SEAL HERE

NOTARY PUBLIC Lisa E. Bowles

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Lisa E. Bowles
ZMM, Inc.
222 Lee St., W.
Charleston, WV 25302
My Commission Expires October 6, 2018