



Needs Assessment of the 55 County Courthouses for:
The West Virginia Courthouse Facilities Improvement Authority

MICHAEL CIOULIS
HISTORIC PRESERVATION CONSULTANT, INC.

ZMM
 ARCHITECTS & ENGINEERS

RFQ#CFA10061
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ARCHITECTS & ENGINEERS

November 15, 2011

Mr. Frank Whittaker, Buyer
Purchasing Division
2019 Washington Street, East
PO Box 50130
Charleston, West Virginia 25305-0130

**Subject: Needs Assessment of the 55 County Courthouses for
The West Virginia Courthouse Facilities Improvement Authority
Requisition #CFA100611**

Dear Mr. Whittaker:

ZMM Architects and Engineers is pleased to submit the attached information to demonstrate our experience and our qualifications to provide professional architectural and engineering services to complete facility needs assessments for the 55 county courthouses throughout the State of West Virginia. Our long term relationship assisting the Courthouse Facilities Improvement Authority (CFIA) has provided **ZMM** with unique insight into the CFIA's priorities, funding application, and operation. In addition to our experience working with the CFIA, **ZMM** is uniquely qualified to undertake the courthouse assessment project for the following reasons:

1. The depth and quality of ZMM's West Virginia courthouse design experience.

Our team has recent experience working on courthouse projects in Wood County, Tucker County, McDowell County, Mercer County, Kanawha County, Jackson County, and Marshall County. This experience has included new courthouse annexes and justice centers, as well as courthouse renovations and historic window replacements. Our team also includes a former county commissioner (Rick Modesitt) who will provide additional guidance regarding the business/service offerings of a courthouse. Our previous experience working on West Virginia courthouses has allowed us to develop a strategy for the courthouse assessments (included in Section 1) that will ensure the quality of the project for the CFIA.

2. Our recent facility assessment experience.

Our recent facility assessment experience includes an investigation of State Office Buildings 5, 6, & 7 on the West Virginia Capitol Complex for the State of WV General Services Division. The **ZMM** assessment commenced with a building assessment conducted by a team of architects and engineers. The team developed as-built plans of the 550,000 SF facilities, and produced a report that documented existing conditions, and also recommended phased improvements that were coordinated with both the owner and the state fire marshal. The culmination of the project included building improvements (new windows, new electrical service and courtyard, and new roofing), as well as the renovation of the 10th Floor of Building #5 for the Office of Technology – a project that was recognized by the WVAIA with a Merit Award in 2011.

3. ZMM is a fully integrated architecture and engineering firm.

Our firm is unique because we have all of the architects and engineers required to conduct the assessment located in our office in Charleston. Services that **ZMM** provides include site and civil



ARCHITECTS & ENGINEERS

engineering, architecture, interior design, structural engineering, mechanical and electrical engineering, as well as lighting, data, and security design. Our ability to provide comprehensive services from one central location will help ensure the overall quality and delivery of the project. On this project, **ZMM's** in-house team will be supplemented with the specialty expertise of Mike Gioulis (Historic Preservation Consultant), as well as Hays Landscape Architects (Historic Landscape Consultants).

4. Our unique approach for the courthouse assessment.

We have developed a unique approach to implement the assessments, which is contained in Section 1 of this expression of interest. The approach includes a WV Courthouse Facility Assessment Instrument that was developed specifically for this project, which has been formatted to address the ten priorities established by the CFIA's Board of Directors. This instrument will help maintain the consistency and quality of the assessment, providing the CFIA with a document that will help define the Authority's long-term strategy.

Thank you for taking the time to review the attached brochure that has been formatted to meet your requirements, and outlines detailed information regarding the history, services, personnel, experience, and qualifications of **ZMM**. Additionally, please visit our website at www.zmm.com to see the full range of our projects, and to learn about working with **ZMM** from a client's perspective. We look forward to meeting with you in the near future to review our qualifications, and to discuss the West Virginia County Courthouse Needs Assessment project in more detail. We appreciate your consideration for this important endeavor.

Respectfully submitted,
ZMM, Inc.

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

Table of Contents

Cover Letter
Table of Contents

Section 1 Concept

- Facility Needs Assessment Approach

Section 2 Firm/Team Qualifications

- Firm Contact
- Team Members
- Additional Team Qualifications
- Project Schedule

Section 3 Project Organization

- Firm Profiles
- Key Resumes
- Organization Chart

Section 4 Demonstrated Experience

- Project Experience
- References

Section 5 Award Winning Design

- Awards and Honors

West Virginia County Courthouse Needs Assessment – Project Understanding and Approach

Background

ZMM Architects and Engineers has a history of working with the Courthouse Facilities Improvement Authority (CFIA). This experience has included providing assistance with the development and scoring of the funding applications by Mr. Adam R. Krason, AIA, an architect and principal of the firm. In 2011, ZMM assisted the Authority with an update to the funding application, and attended several informational sessions throughout the State with both the CFIA and the State Historic Preservation Office (SHPO). This experience, as well as the design experience that our team has provided to eight counties throughout the State, provides ZMM unique insight into the current project, and our knowledge of county courthouses throughout West Virginia will help ensure the quality and delivery of the project.



ZMM understands that the current assessments are being undertaken to create a tool to quantify the need for funding to improve county courthouses throughout the State, and also to establish a benchmark against which future funding applications will be scored. The assessment needs to be professional, accurate, and consistent. An outcome of the assessment will be a prioritized list for improvements to each county courthouse, including budget and phasing information. The priorities for the assessment will match the funding priorities established by the CFIA Board of Directors, and the Board will be provided regular updates of the progress of the assessments.

The efficiency of the delivery of the assessment is also critical as limited funding is available. The limited funding may necessitate that the assessment are spread out over two fiscal years; however, ideally the assessments will be completed and a final document presented to the CFIA Board of Directors by the end of 2012. To assist in the efficient delivery of the project, ZMM Architects and Engineers has developed a customized WV County Courthouse Assessment Instrument to be utilized as a baseline or guide for the assessments.

Facility Needs Assessment and WV Courthouse Design Experience

Assessment projects require a unique approach, and ZMM has a history of providing high quality facility needs assessments throughout the State of West Virginia. ZMM has completed the following recent facility needs assessments:

- State Office Buildings 5, 6, 7 at the Capitol Complex
- Nicholas, Fayette, Lincoln, Logan, Cabell, and Wayne County Schools
- The School of the Deaf and Blind (Romney – Current)
- Bridgemont CTC Davis Hall (Montgomery)
- Building 770 at the West Virginia Regional Technology Park
- WVU-P Downtown Center (Parkersburg, Previously the historical WT Grant Department Store)
- Historic Cammack School in Cabell County

In addition to our experience conducting facility needs assessment in West Virginia, our team also has recent experience working on courthouse projects in Wood County, Tucker County, McDowell County, Mercer County, Kanawha County, Jackson County, and Marshall County. This experience has included new courthouse annexes and justice centers, as well as courthouse renovations and historic window replacements.

County Courthouse Facility Needs Assessment Project Approach

Due to the number of county courthouses that will be assessed as part of the project, it is important to develop an efficient process to maximize the CFIA's investment in the study. As a full service, centrally located, architecture and



engineering firm, ZMM is uniquely qualified to provide efficient, high quality assessments. ZMM would recommend the following approach for each county:

- The CFIA will establish contact with all counties to identify the purpose and scope of the current assessment.
- The ZMM team will review documentation regarding the main courthouse facility contained in the original assessment.
- The ZMM team will contact the County to request copies of any existing assessments, architectural and engineering reports, fire marshal reports, health department reports, and/or insurance reports related to the courthouse.
- The ZMM team will schedule a meeting with County officials to discuss their courthouse and their perceived needs. SHPO and the State Fire Marshal will be invited to attend the meeting.
- On the same day, the ZMM team will conduct an assessment of the courthouse with a team of design professionals, including (at a minimum), an architect, a structural engineer, a mechanical/electrical engineer, and an architectural historian. The team will conduct the assessment utilizing the West Virginia Courthouse Facility Assessment Outline that is attached, and was developed based upon the ten priorities identified by the CFIA Board of Directors.
- The ZMM team will document the findings of their preliminary assessment. Once the assessment is complete, it will be submitted to both the County and CFIA for preliminary review.
- Once the assessment is complete, the ZMM team will develop a list of proposed improvements with a budget for the proposed improvements.
- The ZMM team will visit with the County to confirm and prioritize the list of improvements and to discuss the preliminary assessment.
- The final assessment will be completed, submitted to the County, and presented to the CFIA Board of Directors.
- When all the reports are completed, a final assessment with an overall summary will be presented to the CFIA for final approval.

West Virginia Courthouse Facility Assessment Outline

Developed by ZMM Architects and Engineers for:

The West Virginia Courthouse Facilities Improvement Authority (WVCFIA)

November 2011

Tab 1: Building Identification and Description

- County:
- Courthouse Location
- General Description
- # of Floors
- Area per Floor
- Overall Area
- Year Constructed
- Historical Significance (note if the Courthouse is listed in the National Register or in a National Register Historic District)
- Date/Time of Assessment
- Weather Conditions During Assessment
- Name of Personnel Performing the Assessment
- County Contact Information
- List utility companies that service the facility (Gas, Water, Electric, Sanitary and Storm)

Tab 2: Executive Summary (Including a budget and prioritized list of proposed improvements)

Tab 3: Courthouse Site

- Describe any Environmental Concerns
- Note Direction of the Main Entrance
- List any Flood Plain/Storm water Issues
- Describe the Site Utilities, Facility Utility Service
- Describe Any Security Concerns (Setbacks, Bollards, etc.)
- Identify Non-Secured Parking and Approximate Distance from the Courthouse
- Describe the Availability and Condition of the Parking
- Describe the Condition of the Pedestrian Circulation/Sidewalks
- Describe the Condition of any Public Areas
- Are there any site accessibility issues?
- Describe the historic/cultural landscape components.
- Describe the landscape condition (for example, a courthouse square with a lot of Ash trees will be facing a large removal bill in the coming years).
- Describe the condition and arrangement of monuments, statuary and other associated site ornament.
- Describe the condition of site improvements such as retaining walls, pools, etc.

Required Site Improvements:

Site Budget:

Tab 4: Courthouse Structure

- Describe the Overall Structural System
- Describe the Foundation System
- Describe the Wall Construction (or frame construction)
- Describe the Floor Construction and Loading
- Describe the Roof Structure Condition
- List any Structural Deficiencies
- Is the building in a seismic zone? Is the structure designed to accommodate seismic loads?

Required Structural Improvements:

Structural Budget:

Tab 5: Courthouse Building Envelope

- Describe the Exterior Architectural Style (i.e. Victorian, Richardson Romanesque, Federalist, Flemish)
- Describe the Building Veneer (Skin)
- List the Number and Type of Exterior Doors and their Overall Condition
- List the Number of Exterior 'Bays' on Each Elevation
- Are the conditions of the doors a security hazard?
- List the Number and Type of Windows and their Overall Condition
- Are the windows original?
- List the Material of the Windows
- Does the condition of the windows create a security hazard or a hazard to records stored at the facility?
- Describe the Roofing System (Type, Age, etc.)
- Describe any Additional Exterior Construction and Deficiencies (Stairs, Canopies, Railings, etc.)
- Describe Architectural Details such as Gargoyles, Brackets, Sculpture, etc.

Required Courthouse Building Envelope Improvements:

Courthouse Building Envelope Budget:

Tab 6: Courthouse Life Safety

- Does the Courthouse contain a fire alarm? If yes, describe the Fire Alarm System
- Does the fire alarm system transmit to a central monitoring station of fire department?
- Describe the Adequacy of the Exit Signage and Exiting

- Does the building have elevators? If yes, when were they last inspected, and do they contain the required emergency lighting, call box, and recall? Do they access all areas of the building? Do the elevators have emergency power?
- Does the facility have an automatic fire suppression system? If yes, when was it last tested? List the sprinkler valve manufacturer.
- Do any specialty fire suppression systems exist in areas utilized for record storage?
- Describe any Concerns with the Building Configuration and/or Construction (Dead-End Corridors, Exit/Stairway Construction, Atriums, Open Monumental Stairs, etc.)
- Describe the Adequacy of the Interior Emergency Lighting.
- Does the facility have exterior path of egress emergency lighting?
- Does the facility contain any systems that require redundant power supply? Describe any Back-Up Power Supplies/Generators. Does the back-up power system have excess capacity?
- Attach any Reports from the Fire Marshal.

Required Life Safety Improvements:

Life Safety Budget:

Tab 7: Courthouse Plumbing/Sanitary Systems

- Describe the Condition of the Plumbing and Sanitary Piping
- Is there a backflow preventer on domestic water service?
- Do water heaters have expansion tanks?
- Type of Water Closets (Tank or Flush Valve, Wall Hung or Floor Mounted)? If flush valve, list the brand of flush valve.
- Do water closets meet ADA requirements?
- Describe the Condition of the Plumbing Fixtures (# of toilets/condition, # of lavs/Condition, etc.)
- Describe the Condition of the Plumbing Vent Stacks
- Do adequate Clean-Outs Exist?
- Does the building contain any plastic non-plenum piping in return air ceiling plenums?
- List Number of Toilets and Breakdown (M/F). Does the fixture count meet the code?
- Does the facility have any water fountains?
- Do adequate janitor closets with mop sinks exist?
- Attach any reports from the health department.

Required Plumbing/ Sanitary Improvements:

Plumbing/Sanitary Budget:

Tab 8: Heating, Ventilation, and Air Conditioning

- Describe the HVAC System
- Describe the Efficiency of the HVAC System

- Is ductwork lined or wrapped?
- Is the building under a maintenance contract? If yes, please provide information.
- Do occupants receive adequate fresh air/ventilation?
- Is the system zoned and controllable? Do occupants have concerns about comfort?
- Does the system utilize a return air plenum? If yes, are cables and piping in the plenum rated?
- Does the facility utilize smoke and/or fire dampers where required?
- Are penetrations for the HVAC system fire stopped?
- Are there any window AC units?
- Where are the outdoor units of any split unit systems located?

Required HVAC Improvements:

HVAC Budget:

Tab 9A: Courthouse Electrical Power Systems

- Describe the Electrical Service and Power Distribution and Condition
- Is the electrical service overhead or underground?
- Is the service adequate?
- Is the distribution adequate?
- Is the electrical power shutdown adequate?
- Does the building require lightning protection? If yes, is lightning protection provided?
- Does the building contain non-plenum rated wiring in return air ceiling plenums.
- If the building is over two stories above the lowest exit level, does it contain non-metallic cabling (Romex)?
- Are exposed surface mounted raceways and conduit utilized in finished spaces?
- Are electrical extension cords utilized regularly in the Courthouse?

Required Electrical Power Improvements:

Electrical Power Budget:

Tab 9B: Courthouse Electrical Lighting Systems

- Describe the General Condition of the Exterior Lighting
- Describe the General Condition of the Interior Lighting
- Is the facility lighting adequate? (Does it meet IES recommended practice?)
- Is the facility lighting energy efficient?
- Does the facility have a lighting control system or occupancy sensors? If yes, please describe?
- Does the facility utilize outdated lamp technologies (i.e. T-12 and incandescent)?
- Is the facility wired with modular wiring? If yes, list the manufacturer.

Required Electrical Lighting Improvements:

Electrical Lighting Budget:

Tab 9C: Courthouse Data/Communications Systems

- Describe the Data System
- Describe the Telephone System, is it VOIP?
- Does adequate space exist for the data and data distribution system?
- Are the data spaces adequately ventilated or air conditioned?
- Describe the Data Cabling Category and Distribution
- Are data closets used for other purposes (i.e. storage, break areas, etc.)?
- Have all data/com cabling penetrations been fire stopped?
- Is the data/com cabling plenum rated in return air ceiling plenums?
- Are data/com outlets labeled?
- Describe the Number and Location of Antennae, Dishes, Etc.

Required Data/Communication Improvements:

Data/Communication Budget:

Tab 10: Courthouse Security

- Does the building contain a mass notification system?
- Does the building have an adequate secured perimeter and setbacks?
- Is the Courthouse roof secure?
- Are occupants screened when entering court facilities? What methods are utilized?
- Does a separate, secure path of circulation exist for Court Employees? Direct to secure parking?
- Are there separate entrances into the courtroom for judges, in-custody defendants and spectators?
- Are weapons or ammunition securely stored in the courthouse? Do officers check their weapons before entering a courtroom?
- Does the building utilize a card access system to secure employee areas? Do cards have ID photos?
- Does the building utilize a CCTV system? How and where is it monitored?
- Is there a secure vehicle sally port and a holding area for the Magistrate and Circuit Courts? Are secure travel routes also provided?
- Do any grade level offices employ ballistic grade glazing?
- Are the interior of the benches lined with a ballistic grade material?
- Do the Judges have adequate egress from the Courtroom(s) in an emergency?
- Do employees have access to a duress alarm? Who monitors the duress alarms?
- Does the facility have a security alarm system? If yes, does the alarm system transmit to a central monitoring station, 911 Center, or Sherriff's Department?
- Are courtroom and judicial office windows ballistic rated?
- Is the CCTV and security system plenum rated in return air ceiling plenums?

Required Security Improvements:

Security Budget:

Tab 11: Courthouse Interiors

- Describe the Interior Condition of the Facility
- Describe the Flooring (Types/SF)
- Describe the Ceiling Systems (Types/SF)
- Describe the Wall Finishes
- Describe the Trim, Doors, and other Major Historical Features
- Is the courtroom accessible for the jury, witness, spectators and judge?
- Are acoustics adequate in the courtrooms?
- Describe any built-in millwork.
- Has the building been modified from the original construction? Do the improvements keep with the historical nature of the facility?
- ADA: Is the interior environment accessible (toilets, door pulls, elevators, etc.)?
- Does the Courthouse have an ADA Title II (public) transition plan on file describing all deficiencies and how to come into compliance?
- Are building system improvements (data cabling, fire suppression system) exposed?

Required Interior Improvements:

Interior Budget:

Tab 12: Courthouse Environmental Concerns

- Has a hazardous material assessment been completed for the facility? If yes, attach.
- Describe any suspect hazardous materials (Lead paint, Asbestos, Mold, etc.).
- Are fluorescent ballasts suspected of containing PCB's?
- Do electrical service transformers contain PCB's?
- Are existing fluorescent lamps "eco friendly" low mercury lamps?
- Do building occupants get fresh air through the mechanical system or operable windows?
- Were any fuel tanks or vehicle maintenance facilities previously located on the property?

Required Environmental Improvements:

Environmental Budget:

Tab 13: Courthouse Adequacy (Space)

- Are any offices or record rooms contained within the building undersized for the required use?
- Are security issues created due to the current configuration of the facility?
- Does adequate space exist for the Circuit Court, Magistrate Court, and Family Court facilities?
- Has overflow deed research related to oil and natural gas impacted space requirements?

Required Additional Space:

Budget:

Tab 14: Courthouse Replacement

- If the building is not an original courthouse or historically significant, should building replacement be considered?

Proposed Size of Replacement Facility:

Budget:

Appendix #1: Summary of Proposed and Prioritized Courthouse Improvements

Appendix #2: Budget for Proposed Courthouse Improvements

Appendix #3: Documentation of Coordination with SHPO/State Fire Marshal

Appendix #4: Copies of Previous Reports



Firm/Team Qualifications

A. Firm Contact: Adam R. Krason, AIA, NCARB, LEED-AP

Principal
ZMM, Inc.
222 Lee Street, West
Charleston, WV 25302
304.342.0159
ark@zmm.com

Signature

B. Team Member Organization

Name	Role
Adam R. Krason, AIA	Principal, Project Manager
Rick Modesitt	Courthouse Operations Consultant
Michael Gioulis	Historical Preservation Consultant
Bob Doeffinger, PE	Engineering Manager
Brian Estep, AIA	Project Architect
Nathan Spencer, AIA	Project Architect
Steve Hedrick, PE	Structural Engineer
Scot Casdorff, PE	Electrical Engineer
John Pruett, PE	Mechanical Engineer
Mike Abernethy, IESNA	Electrical and Lighting Design
Mary Jo Cleland, PE	Civil Engineer
Gabriel Hays, ASLA	Site Design/Accessibility
Jill Watkins, NCIDQ	Interior Design

- C. The design team will include expert Michael Gioulis, a Historical Preservation Consultant, and Rick Modesitt, a Courthouse Operations Specialist. ZMM's team includes multiple architects, engineers, and an interior designer. Hays Landscape Architecture will provide site and accessibility assessment services.
- D. ZMM, along with consultants Michael Gioulis, Historical Preservation Consultant, and Hays Landscape Architecture Studio are uniquely qualified to provide architectural and engineering services to produce a needs assessment that will target 55 County Courthouses. Please note that examples of our experience providing design services on similar projects can be found in Section 4. Our team is capable of providing the design services for this project for the Courthouse Facilities Improvement Authority.
- E. ZMM understands and agrees that any and all work produced as a result of the contract becomes the property of the Courthouse Facilities Improvement Authority and can be used or shared as deemed appropriate by the Owner.
- F. ZMM has been providing design services in the State of West Virginia for more than fifty years. During this time our work has regularly conformed to all local, State, and Federal regulations. Additionally, we regularly coordinates our work during the design phase with the State of West Virginia Fire Marshal to help ensure compliance with NFPA 101 and Title 87. Our team also has experience coordinating with the West Virginia State Historical Preservation Office, and experience renovating significant historical structures meeting the secretary of the interiors standards for Historic Preservation.
- G. ZMM is not involved with any litigation or arbitration proceedings with the State of West Virginia or any State Agency related to the firm's delivery of design or assessment services.

Firm Profile



LOCATION:
222 Lee Street, West
Charleston, WV

CONTACT:
Phone 304.342.0159
Fax 304.345.8144
ww.zmm.com

History

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



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

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

Services

Pre-Design

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

Post-Design

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

Design

Architectural Design
Sustainable Design
Interior Design
Landscape Architecture
Structural Engineering
Mechanical Engineering
Electrical Engineering
Civil Engineering
Lighting Design
Energy Consumption Analysis

Professional Services



ZMM has been dedicated to the integrated approach to building design which is unique to architectural firms of our size. Our past successful experience demonstrates that providing multi-disciplined services within one organization results in a fully coordinated project. ZMM has the qualified professionals available to provide services throughout the duration of a project from the initial planning phases through post-occupancy evaluations and beyond.

Advantages of an integrated Design Approach:

- The Owner has a Single Point of Design Responsibility
- Improved Design Schedule
- Improved Coordination of Documents
- Improved Construction Phase Services
- Well Coordinated Documents Lead to Better Bids for the Owner

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

ZMM has maintained an average of forty (40) employees over the last five years. Our team has the expertise to provide the services below:

Pre-Design

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

Post Design

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

Design

Architectural Design
Sustainable Design
Interior Design
Landscape Architecture
Structural Engineering
Mechanical Engineering
Electrical Engineering
Civil Engineering
Lighting Design
Energy Consumption Analysis



LOCATION:
614 Main Street
Sutton, WV 26601

CONTACT:
Phone 304.765.5716
Fax 304.765.5464
www.michaelgioulis.com

History

The firm of Michael Gioulis specializes in the preservation of historic structures and the preservation and interpretation of historic sites. Mr. Gioulis has been a historic preservation professional since 1977. Since 1984, he has been practicing as a private Historic Preservation Consultant dedicated to enhancing awareness of historic preservation through historically accurate restorations and rehabilitations of many prominent buildings in West Virginia and surrounding areas.

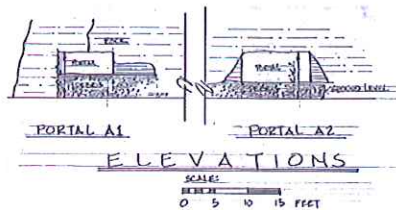
Since 1988, Mr. Gioulis has held a contract with the State of West Virginia as their Main Street West Virginia Design Contractor. Revitalization of commercial downtown buildings is the focus of the program emphasizing the preservation of historic integrity.

In conjunction with his work in historic preservation, Mr. Gioulis also offers services in the following areas: HABS/HAERS Reports, 106 Reviews, Feasibility Studies, Design Guidelines, Historic Preservation Certification Applications for tax credits, National Register Nominations, Historic Resource Surveys, and CAP Assessments.

Consulting with architects and property owners, Mr. Gioulis is also involved in several rehabilitation projects involving residential and commercial buildings. Preservation of historic fabric and character-defining elements of these extant buildings are the ingredients providing for their efficient, contemporary use within the community.

Services

Preservation
Planning
Reports
Rehabilitation





HAYS

LANDSCAPE ARCHITECTURE STUDIO, LTD.

Firm Profile

LOCATION:

145 East Main Street
St. Clairsville, OH
43950

CONTACT:

Phone 740.695.6505
Fax 740.695.6516
www.hayslas.com

History

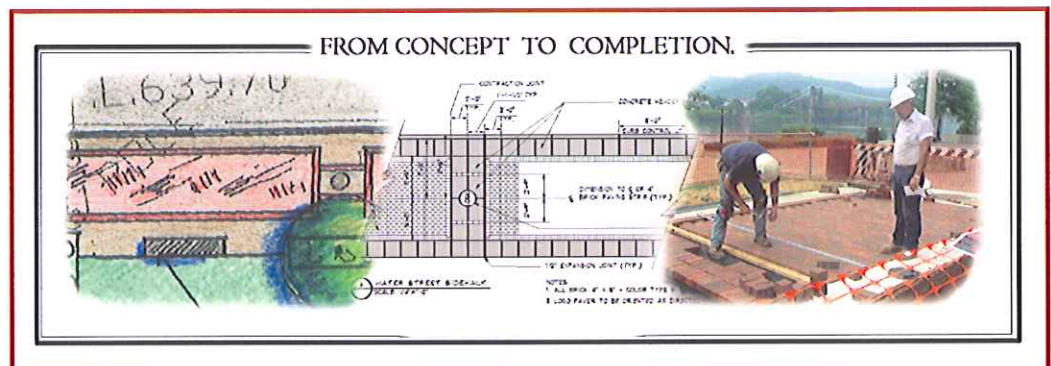
Our mission is to provide professional land planning and design consulting services for our clients and the users of our built and natural environment in order to create an enhanced quality of life through projects that reflect our core values. Principal Gabe Hays founded the firm in 1997 in his home town of St. Clairsville, Ohio. The quaint town, Main Street appeal

and ability to serve the tri-state area led the Hays LAS firm to working within a niche market of rural and small community of clients with unique needs. Services ranging from project conceptualization to construction documentation grew the firm's client base. Today, Hays LAS accommodates a diverse capacity of work from master planning to construction documents for multi-million dollar projects across the country. Founding principles of responsiveness, communication and teamwork provide a framework for Hays' success. The studio's atmosphere and the premier professional relationships augment the high quality achieved on projects.



Services

- Educational institution master planning & design
- Public/private garden planning
- Downtown revitalization
- Interpretive venue design
- Scenic byway
- Corridor management planning
- Streetscapes
- Site construction documentation
- Cultural/historical planning
- Site evaluation and selection
- Graphic design and illustrative drawings
- Site lighting, way finding
- Bidding documentation





HAYS

LANDSCAPE ARCHITECTURE STUDIO, LTD.

LOCATION:

145 East Main Street
St. Clairsville, OH
43950

CONTACT:

Phone 740.695.6505
Fax 740.695.6516
www.hayslas.com

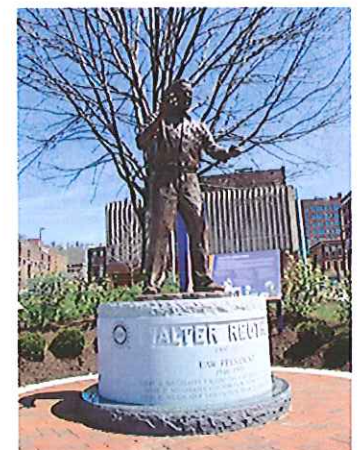
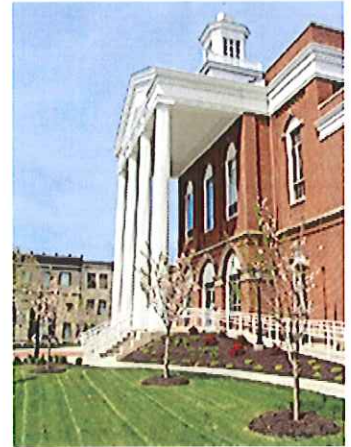
Historical and Memorial Projects

Hays Landscape Architecture Studio, Ltd. works to revitalize, re-invigorate, and re-establish the preservation of our nation's cultural resources, including historical places, parks, and Main Streets. As stewards, we provide a holistic approach for healthy recreation, environmental resources, and financial management. Stewardship is the idea that every person must act responsibly to shield cultural and environmental heritage. In an organizational context, it refers to management's responsibility to properly utilize and develop its resources, including people, property, natural, and financial assets.

Hays LAS has had the opportunity to work with several projects that involve the development, placement and interpretation of historical and memorial parks, landmarks, and sculptures.

Providing places for reflection of the past and homage to the departed can be powerful symbols that promote community pride and personal healing. Accessibility to these areas is critical to their success. Visitors range from all ages and all levels of mobility. Promoting clear and well marked pathways throughout a historic and memorial site can be challenging without taking away from the integrity of the land, but through careful planning and assessment, most sites can be developed to accommodate both.

Firm Profile





Adam Krason, AIA
Principal, Project Manager



Rick Modesitt
Courthouse Operations
Consultant

Historical

Michael Gioulis
Historical Preservation
Consultant



Architecture

Brian Estep, AIA
Architect



Nathan Spencer, AIA
Architect



Jill Watkins, NCIDQ
Interior Designer



Site

Gabriel Hays, ASLA
Site Design/Accessibility



Mary Jo Cleland, PE
Civil Engineer



Engineering

Bob Doeffinger, PE
Engineering Manager



Steve Hedrick, PE
Structural Engineer



Scot Casdorff, PE
Electrical Engineer



John Pruett, PE
Mechanical Engineer



Mike Abernethy, IESNA
Lighting Designer





Role

Principal, Project Manager

Professional Registrations

Registered Architect (WV, OH, KY, VA)

LEED Accredited Professional

NCARB (55,984)

Construction Specifications Institute (CSI)

Construction Documents Technician (CDT)

Mr. Krason has served in the capacity of Architect and Project Manager for a variety of projects at ZMM. This experience includes Military, Educational (K-12 and Higher Education), Office, Justice (Courthouses, Correctional, Justice Centers), and Multi-Unit Residential projects. Mr. Krason's responsibilities include programming, design, documentation, coordination of the architectural and engineering team, as well as construction administration. Mr. Krason began his career in 1998, working on a variety of educational, commercial office, and correctional projects throughout Ohio, West Virginia, and North Carolina.

Mr. Krason has been an advocate of sustainable design in West Virginia, participating in a variety of sustainable design seminars throughout the State, and serving on the West Virginia School Building Authority Green Schools Sub-Committee. Recently, Mr. Krason helped coordinate the "Making the Business Case for Sustainability" conference at the University of Charleston that included speakers from Armstrong Industries, American Electric Power, CB Richard Ellis, and Interface Raise. Mr. Krason also assisted Habitat for Humanity Kanawha and Putnam County develop a commercial recycling program to fill a void in the sustainable design infrastructure in West Virginia. Mr. Krason has noted that, "I became a LEED Accredited Professional because I believe that good design has value, and the ability to impact our daily lives. Sustainable design showcases the value of design through demonstrated improvements in the performance of the students and employees who occupy our buildings."

In addition to his design and project management responsibilities, Mr. Krason serves on the Board of Directors and is responsible for business development at ZMM.

Project Experience

Judge Black Courthouse Annex, Wood County Commission, Parkersburg, WV. Mr. Krason was

responsible for the programming and design of the adaptive reuse of a former commercial space and movie theaters into a modern courthouse annex. The Judge Black Annex included two

Education

Bachelor of Architecture, The Catholic University of America, 1998

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

Employment History

2007 - Present, Vice President, ZMM

2007 - Present, Board of Directors, ZMM

2003 - Present, Architect, Project Manager, ZMM

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

Civic Affiliations

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

independent circulation paths – a secure entry and lobby for access to the Family Court and Prosecuting Attorney, and public access to the Assessor and Sheriff's Tax Department. The facility also houses several large public meeting rooms.

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

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

West Virginia Army National Guard, Joint Interagency Education and Training Center, Camp Dawson, WV. Mr. Krason was responsible for the preliminary programming, and participated in the schematic design of the 180,000 SF addition to the Regional Training Institute at Camp Dawson. Mr. Krason was also responsible for managing the production effort for the billeting (hotel) expansion, which increased the total billeting capacity at the JITEC to 600 rooms. The project is aiming for LEED Silver Certification.

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

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

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

Awards and Acknowledgements:

AIA Honor Award (2011): WVARNG Joint Interagency Training and Education Center (JITEC)

AIA Honor Award (2011): State Office Building #5, 10th Floor Renovation

AIA Merit Award (2009): WVARNG Construction and Facilities Management Office

Organizer: Making the Business Case for Sustainability Conference, University of Charleston (2010)

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

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

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

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



Role

Historic Preservation Consultant

Professional Registrations

Certified Architectural Historian

Mr. Gioulis has been a historic preservation professional since 1977. After beginning his West Virginia career working for the State Historic Preservation Office, Mike became the Assistant Director. He served as Historical Architect for the West Virginia Department of Culture and History and as Assistant Director of the Historic Preservation Unit. While there he was involved in a number of programs, including: Survey and Planning grants; historic resource surveys; review of construction grant projects; and tax certification applications. He is familiar with all aspects of interpreting standards for rehabilitation of existing and historic buildings. Mike meets the Secretary of Interior Professional Qualifications for Architectural Historian as outlined in 36 CFR 61 through the West Virginia Division of Culture and History, State Historic Preservation Office (SHPO). This certification assures that the Gioulis firm is qualified and has a background in the performance of historic preservation according to specified standards.

Since 1984, he has been practicing as a private Historic Preservation Consultant and has held a contract with the state as its Main Street West Virginia Design Contractor since 1988. In private practice since 1984, he has been involved in rehabilitation projects and design assistance programs for downtown structures. This includes services to the West Virginia Main Street Office, resulting in over 1000 individual design projects, as well as workshops, resource team visits and technical assistance responses. Resource teams involve intensive site visits in a charrette environment reviewing community resources and developing strategies for revitalization. He has participated in over 50 teams. In addition, Michael has written a Maintenance Manual for downtown property owners. He has completed a number of successful tax certification applications and has participated in individual rehabilitation and restoration projects including the restoration of 20 building facades in downtown Matewan, WV.

Mr. Gioulis has successfully nominated numerous individual resources and historic districts to the National Register of Historic Places within West Virginia as well as in Ohio. Many of these projects were a continuance of an overall identification and

Education

B. Arch., City University of New York, City College, 1977

B.S., City University of New York, City College, 1975

Continuing Education

Des Moines, IA, 2011

Online Mapping System Training Workshop, Ohio Historic Preservation Office, Columbus, OH, July 2010

Section 106 References Workshop, Ohio Historic Preservation Office, Columbus, OH, August 2010

Preservation Trades Network, Preservation Alliance of West Virginia, Fairmont, WV, 2010

Employment History

1984 - Present, Self Employed: Historical Preservation Consultant; Design; Construction supervision and management. Design Consultant to Main Street West Virginia since 1988

1979 -1984, State of WV Department of Culture and History, Historical Preservation Unit: Coordinate State, Local, Federal Programs; review construction and other projects for compliance with standards; administer grant, survey, and tax incentive programs; public addresses

protection strategy for the respective historic landmarks commissions and individual property owners. Recently, he has been involved with several ARRA projects, including the Huntington Federal Building, Huntington Courthouse and Mt. Hope Federal Building. For these he completed the Section 106 review process and participated in the planning and design of various projects including window replacement, window repair, HVAC and other work. All work followed the Secretary of the Interior's Standards for Historic Preservation projects. He consulted with the State Historic Preservation Office to facilitate the 106 process.

Mike's experience with courthouse projects spans many years and types of projects. He provided assistance and commentary for the Courthouses of West Virginia video. The video project documented many of West Virginia's historic courthouses. A companion book is being developed which will include all 55 of West Virginia's county courthouses. It will also include chapters on rehabilitating and restoring courthouses. Mr. Gioulis is co-authoring this book. He was involved with the roof restoration, masonry facade restoration, and ADA toilet rehabilitation of the Kanawha County Courthouse, Charleston, WV; the design for ADA compliance for the Jackson County Courthouse, Ripley, WV; the master planning/historic resource analysis and rehabilitation recommendations for the McDowell County Courthouse, Welch, WV; and the window energy efficiency project for the Mercer County Courthouse, Princeton, WV.

Project Experience

Marion County - conducted an analysis of the roof and associated detail elements to develop a restoration program for the cast iron roof design elements

Braxton County Courtroom Renovations - advice to the county commission on restoration of the cupola

Preston County - planning for a courthouse square renovation project and ADA accessibility

Nicholas County - National Register nomination and research

Pocahontas County - planning for ADA accessibility; advice on continued upgrading of utility entrance as it pertains to the historic impact on the building; National Register nomination and research

Clay County - master plan and feasibility study for the rehabilitation of the old Clay County Courthouse

Webster County - advice for the access to the courtroom.

Mason County - adaptive reuse of the former jail cells into family court and judge's chambers

Monongalia County - study for the courthouse square rehabilitation

Upshur County - advice to the courthouse on the stabilization of the masonry chimneys

Barbour County - initial inspection and advice for courtroom restoration and restoration of ceiling and stained glass

Wetzel County - advice for masonry stabilization

Accomplishments

Guest Lecturer, Faculty Training , Art Institute, Pittsburgh, PA, 2011.

Guest Lecturer, Faculty Training , Art Institute, Pittsburgh, PA, 2010.

Guest Lecturer, Environmental Biology Department, City University of New York, Hunter, 2010.

Speaker, National Main Street Conference, Chicago, IL, March 2009.

Speaker, Create WV Conference, Snowshoe, WV, 2008.

State Designers Representative on the National Executive Committee of Main Street Coordinators, 2008 to present.

Publications

ADA Information Website Q&A and Pamphlet, National Trust for Historic Preservation, 2010 to present.

Courthouses of West Virginia Documentary, 2010-2011.

Mt. Dechantal Video, 2010.

Articles on Architects and Materials, West Virginia Encyclopedia & E-Encyclopedia, 2008-2009.

Home Grown Video, 2005.

Tax Credits for Historic Properties, West Virginia Development Office, 1996.



Rick W. Modesitt



Role

Courthouse Operations Consultant

Experience

Mr. Modesitt was appointed to the Wood County Commission in December 2000 to serve out former County Commissioner, the late Dave Couch's term until the next regularly scheduled election, which was November 2002. At that time, Modesitt ran for and was elected to serve out the two remaining years of Couch's term of office. Then in November 2004 Modesitt ran and was elected to serve a full six-year term in office, which concludes Dec. 31, 2010.

Mr. Modesitt has given more than 38 years of public service, he was a Parkersburg police officer from 1975-1997, serving as chief of police from 1994-1997. He is president of Rick Modesitt and Associates Inc. and a licensed realtor with Metro Realty. He was elected to the House of Delegates, serving in the 74th and 75th Legislatures. He left his last legislative post to become county commissioner.

In April of 2011, he was named the 2011 Citizen of the Year.

Wood County Projects - As Commissioner, Modesitt Assisted ZMM with the Following Projects:

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

Wood County Justice Center, Parkersburg, WV. - The building is an adaptive reuse of an existing 32,000 SF building creating new Magistrate Courts and Sheriff's Department. The project is targeting LEED Certification.

Employment History

2000 - 2010, Wood County

Commissioner

1994 - 1997, Chief of Police, Parkersburg Police Department

1975 - 1997, Retired Parkersburg Police Department

1979, Self Employed Realtor, Metro Realty

1985, Self Employed, Rick Modesitt & Associates Inc.

Civic Affiliations

- Board Member WV Courthouse Facilities Improvement Authority, 2009 - 2010
- Member of WV House of Delegates, Elected to the 74th and 75th Legislature



Role

Engineering Principal

Professional Registrations

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

As, Mr. Doeffinger is in charge of the engineering disciplines, it is his responsibility to ensure that the mechanical and electrical engineering components of ZMM's design are coordinated and integrated into the final product.

After graduate school in Architectural Engineering, Mr. Doeffinger joined ZMM. He has 35 years design experience in mechanical and electrical systems for buildings. He has a broad range of engineering experience in education, industrial and manufacturing facilities, large retail, correctional and jails, office buildings, and military facilities.

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

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

Project Experience

Judge Black Courthouse Annex, Wood County Commission, Parkersburg, WV. Mr. Doeffinger was responsible for the mechanical engineering for The Judge Black Annex included two independent circulation paths – a secure entry and lobby for access to the Family Court and Prosecuting Attorney, and public access to the Assessor and Sheriff's Tax Department. The facility also houses several large public meeting rooms.

Bridgemont Community and Technical College Davis Hall Renovation, Montgomery, WV. Mr. Doeffinger led an architectural and engineering investigation into the condition

Education

Master of Science Architectural Engineering, Pennsylvania State University, 1976

Bachelor of Science Mechanical Engineering, West Virginia University, 1973

Employment History

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

Civic Affiliations

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

of Davis Hall to help Bridgemont Community and Technical College to develop a scope for the current renovation project, as well as a plan to undertake deferred maintenance at the facility. The project scope included remedying several life safety deficiencies, as well as improvements to the building envelope.

West Virginia Army National Guard, Joint Interagency Education and Training Center, Camp Dawson, WV. Mr. Doeffinger was responsible for the mechanical engineering design of the 600 room billeting expansion to the Regional Training Institute at Camp Dawson. The project is aiming for LEED Silver Certification. The project is served by a 4 - pipe hot and chilled water system with an energy recovery ventilation system.

The Plaza at King of Prussia, Pittsburgh, PA. One of the largest retail centers in the east. Mr. Doeffinger has performed engineering services for the past 20 years. The project consists of a 5,000 -ton chilled water plant and 1,500,000 cfm variable volume system for tenants and constant volume air system for common areas and an engineered smoke control system. The most recent project is a 2011, 100,000 square foot expansion of tenant spaces, a renovation of the food court, and a 1,250-ton chiller addition to the central chilled water plant.

West Virginia Research, Education, and Technology – Building 704, South Charleston WV. Mr. Doeffinger is the engineering principal-in-charge of preparing a life safety analysis of the building as well as design services to improve the exterior façade of Building 704 at the WV Research, Education, and Technology Park. Building 704 had previously been utilized as a campus maintenance facility by Union Carbide and DOW Chemical. Bridgemont began utilizing the facilities for instruction in the Spring of 2011.

NGK Oxygen Sensor and Spark Plug Plant, Sissonville, WV. Mr. Doeffinger was in charge of engineering design of the 250,000 SF NGK facility. The most recent 130,000 SF expansion moved NGK's spark plug production for the west coast to West Virginia. For both the oxygen sensor plant and spark plug plant Mr. Doeffinger designed a cycle water system for the manufacturing equipment.

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



Role

Project Architect

Professional Registrations

Registered Architect (WV)

Mr. Estep has worked as an Architect and Project Manager on many different project types such as Commercial Office, Educational (K-12 and Higher Education) and Judicial. His responsibilities include programming, design, document production and coordination of architectural and engineering disciplines.

Mr. Estep is one of ZMM's lead architectural designers, and has demonstrated the ability to deliver designs with a strong visual presence while maintain the clients budget.

Project Experience

Wood County Justice Center: Mr. Estep was responsible for design and managing the project team for an adaptive reuse of an existing 32,000 SF building creating new Magistrate Courts and Sheriff's Department. The project is targeting LEED Certification.

Southern West Virginia Community College: Mr. Estep was responsible for design and managing the project team for this new 22,000 SF Applied Technology Center. The building featured large, flexible teaching areas that can adapt as the curriculum changes for each program. The project is targeting LEED Silver Certification.

Erma Byrd Center for Public Higher Education: Mr. Estep was responsible for programming, design and managing the project team for a new 33,000 SF building consisting of offices and classrooms used by 6 different colleges and universities. Designed to be used as a teaching tool, the building features daylighting and sensors that monitor mechanical and electrical systems to allow students to see how the building reacts to changes in the environment.

West Side Elementary School: Mr. Estep was responsible for design and managing the project team for a new 66,500 SF school for 380 students. In addition to typical instructional spaces, the school, located on an urban site, features a full dental clinic, a community health clinic and community office and meeting space.

Education

Bachelor of Architecture;
University of Tennessee; 1992

Employment History

2003 - Present, Architect, Project Manager, ZMM

2001 - 2003, Architect, Director of Design, WV Architecture Firm

1997 - 2001, Project Architect, Associate, FL Architecture Firm

1992 - 1997, Architect, ZMM

Civic Affiliations

- American Institute of Architects, Member

Bradshaw Elementary School: Mr. Estep was responsible for design and managing the project team for a new 44,500 SF school for 370 students. Extensive sitework (including road relocation) was required to create a site for this and the adjacent high school. This consolidated school replaced other flood-prone schools in the county.

Milton Middle School: Mr. Estep was responsible for design and managing the project team for this new 96,000 SF school for 700 students. The design featured "wings" for each grade level and daylighting in all instructional spaces.

Riverview High School: Mr. Estep was responsible for design and managing the project team for a new 138,000 SF school for 750 students. Extensive sitework (including road relocation) was required to create a site for this and the adjacent elementary school. This consolidated school replaced other flood-prone schools in the county.

West Virginia Housing Development Fund Offices: Mr. Estep was responsible for programming, design and managing the project team for a new 37,000 SF office building. The 2-story building, located on a former industrial site, features a widely flexible office/furniture layout and daylighting for the interior.

Kanawha County Public Library: Mr. Estep is responsible for design and managing the project team for the new 118,000 SF main branch in downtown Charleston. Once completed, the new library will nearly triple the size of the existing facility allowing for collection expansion and other growth opportunities. The project features a day-lit atrium that will serve as a greeting, gathering and display space that provides access to all areas of the library. Other features include meeting space, a café and a roof-top reading garden.

Previous Experience:

North Dale Mabry Branch, Republic Bank. Responsibilities included design, preparation of construction documents and coordinating with consulting engineers for an extensive addition and renovation project for new 2,500 square foot stand-alone branch in Tampa, Florida.

WUFT-TV/FM - University of Florida. Responsibilities included design, preparation of construction documents and coordinating with consulting engineers for an addition to existing television and radio facility consisting of new office and radio studio space in Gainesville, Florida.

WUSF-TV - University of South Florida. Responsibilities included design, preparation of construction documents and coordinating with consulting engineers for a new 25,000 square foot on-campus public television station in Tampa, Florida.

Awards and Acknowledgements:

Honor Award for Excellence in Architecture, AIA West Virginia (2008), Erma Byrd Center for Public Higher Education

Design Award, AIA Tampa Bay, (1999), WUSF-TV



Role

Architect

Professional Registrations

Registered Architect (WV)

Mr. Spencer is responsible for coordinating the efforts of the design team in preparing thorough and clear design documents. He has experience in all phases of design working on a wide range of building types including; military, educational, office, justice, and residential.

He has worked on several projects that are currently pursuing LEED certification. In addition to production, Mr. Spencer, is also experienced in 3d modeling. He has worked on several preliminary concept study models as well as high quality renderings and 3d models later in the design process. Mr. Spencer is also experienced in high quality physical models.

Mr. Spencer began his career in architecture with ZMM in 2003, working as a summer intern. After graduating in 2003, he began working at ZMM full time.

Project Experience

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

Tucker County Courthouse Annex, Parsons, WV.

Mr. Spencer is the Project Architect for the Courthouse Annex renovation project. The Annex is a 4-story, 21,000 Square Foot building that is adjacent to the Tucker County Courthouse. The annex will house spaces for the Circuit Court, Circuit Clerk, Family Court, Magistrate Court, Prosecuting Attorney, County Commission, County Clerk, Community Corrections, and Probation Office.

Education

Bachelor of Architecture, University of Tennessee, 2007

Employment History

2009 - Present, Architect, ZMM

2007 - 2009, Intern Architect, ZMM

2003 - 2007, Summer Intern, ZMM

Civic Affiliations

- American Institute of Architects, Member

West Virginia Army National Guard, Joint Interagency Education and Training Center, Camp Dawson, WV. Participated in the schematic design of the 180,000 SF addition to the Regional Training Institute at Camp Dawson. Mr. Spencer was also responsible for coordinating the production effort for the billeting (hotel) expansion, which increased the total billeting capacity at the JITEC to 600 rooms. The project is aiming for LEED Silver Certification.

Jackson County Armed Forces Reserve Center, Ripley, WV. Mr. Spencer participated in the schematic design of the 76,000 SF Reserve Center in Jackson County, West Virginia. Mr. Spencer was also responsible for coordinating the production effort for the project. Mr. Spencer also produced several 3d models throughout the design process. The project is aiming for LEED Silver Certification.

Morgantown Readiness Center, Morgantown, WV.

Mr. Spencer was a member of the production team for the 58,000 SF project, which housed the Army Band and associated performance spaces. Mr. Spencer also produced several 3d models throughout the design process. He also participated on all production work through all phases. The project is aiming for LEED Silver Certification.

New Kanawha County Elementary School, Charleston, WV. Mr. Spencer is currently participating on a design team that is developing the new Kanawha County Elementary School on Charleston's West Side. The school is being designed as a 21st Century Learning Environment, with a focus on integrating technology into the delivery of the curriculum. Instructional areas will be located off of an open 'exploratorium' that is being designed to function like a children's museum, providing a variety of learning opportunities, and flexible educational spaces. The school will also visibly integrate sustainable design principles to serve as a teaching tool for the students. A dental and health clinic is also on site for all enrolled students in the Kanawha County School District.

Highland Medical Facility, Charleston, WV. Mr. Spencer was responsible for coordinating the production effort for the 60,000+ SF mental health facility. Mr. Spencer also produced several 3-D models throughout the design process.



Role

Civil Engineer

Professional Registrations

Professional Engineer (WV)

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

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

Project Experience

Wood County Justice Center: Ms. Cleland was responsible for site design for this adaptive reuse project in Parkersburg WV. The existing 32,000 SF building will create a new Magistrate Court and a Sheriff's Department. The project is targeting a LEED Certification.

Highland Medical Facility:

Ms. Cleland was responsible for the site development including utility extensions and relocations, stormwater drainage design, site pedestrian and traffic circulation, and parking area layout. Ms. Cleland also coordinated with the City Engineer to meet local requirements for stormwater management, zoning ordinances, and driveway layout. In addition to coordinating with the City, Ms. Cleland was responsible for permitting required by state agencies for site development.

Harts PK-8 School: Ms. Cleland was responsible for site design and permitting. The site was constrained by the Guyandotte

Education

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

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

Employment History

2009 - Present, Civil Engineer, ZMM

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

1993 - 1997, Aerospace Engineer, United
States Air Force

Civic Affiliations

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

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

Family Readiness Center (WVARNG): Ms. Cleland was responsible for site design for a two story building located on a hillside. Due to the existing slopes, Ms. Cleland performed several analyses to determine the optimal finished floor elevations of the building. The building was set into the hillside to allow for on-grade access to both entrances. The access road was design with handicap parking at both entrances. The client wanted the building to have the least impact as practical for the site development. A large segmental block wall was utilized to limit disturbance of cut slopes.

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

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

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



Role

Structural Engineer

Professional Registrations

Professional Engineer (WV)

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

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

Project Experience

Wood County Justice Center: Mr. Hedrick was responsible for the structural design for this adaptive reuse project in Parkersburg WV. The existing 32,000 SF building will create a new Magistrate Court and a Sheriff's Department. The project is targeting a LEED Certification.

Tucker County Courthouse Annex: Mr. Hedrick was responsible for the structural design and oversaw some of the structural elements for the courthouse annex addition in Parsons, WV. The Annex is a 4-story, 21,000 Square Foot building that is adjacent to the Tucker County Courthouse. The annex will house spaces for the Circuit Court, Circuit Clerk, Family Court, Magistrate Court, Prosecuting Attorney, County Commission, County Clerk, Community Corrections, and Probation Office.

Southern West Virginia Community College: Mr. Hedrick is responsible for the structural design of the new 22,000 SF

Education

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

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

Employment History

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

Civic Affiliations

- American Institute of Steel
Construction, Member

Applied Technology Center. The building featured large, flexible teaching areas that can adapt as the curriculum changes for each program. The project is targeting LEED Silver Certification.

Bridgemont Community and Technical College (Davis Hall, Building 704), Montgomery, WV. Mr. Hedrick is responsible for the structural design for a design team that is currently preparing construction documents for the renovation to an existing 7-story, 77,000 SF educational building. The project scope includes remedying several engineering and life safety deficiencies, as well as architectural improvements to the building envelope.

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

Jackson County AFRC, Ripley, WV. Mr. Hedrick was responsible for the overall structural design of the single story armory type structure. The project included the design of light weight metal trusses and long-span steel joists in the drill hall.

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

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

Edgewood Elementary School, Charleston, WV. Mr. Hedrick is involved with structural design on the new Kanawha County Elementary School on Charleston's West Side. The school is being designed as a 21st Century Learning Environment, with a focus on integrating technology into the delivery of the curriculum. Instructional areas will be located off of an open 'exploratorium' that is being designed to function like a children's museum, providing a variety of learning opportunities, and flexible educational spaces. The school will also visibly integrate sustainable design principles to serve as a teaching tool for the students.

Other Firm Experience:

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



Role

Mechanical Engineer

Professional Registrations

Professional Engineer (WV, IN)
LEED Accredited Professional

Mr. Pruett is responsible for overseeing the design of the HVAC systems, ensuring that the HVAC systems not only meet the program requirements, but meet the long-term needs of the owner. He performs heating and cooling load calculations and recommends the type of systems to be incorporated into the building. He coordinates with the other disciplines in order to integrate the HVAC systems into the building. Mr. Pruett has participated on several LEED registered projects; one of his key contributions to these projects is conducting energy analyses and recommending energy use reduction alternatives.

Mr. Pruett began his career in engineering with a manufacturing company in 1994. In 1998, he made a career change and joined an engineering consulting firm as an HVAC design engineer. He has a broad range of experience in HVAC systems design, including K-12 schools, higher education facilities, office buildings, libraries, hotels, restaurants, a convention center and several natatoriums. Having served in the Marines for 14 years, Mr. Pruett also led a design team for a "virtual memorial" for the birthplace of the U.S. Marine Corps.

Project Experience

Wood County Justice Center, Parkersburg, WV. Mr. Pruett was responsible for the HVAC systems design for the LEED-registered project comprised of the judicial courts, Sheriff's department and holding cell area. The project utilizes high-efficiency custom air handling units, including an energy recovery unit for the holding cell area, which has helped reduce energy consumption on the project by 18% compared to a baseline analysis.

Tucker County Courthouse Annex, Parsons, WV.

Mr. Pruett is the Mechanical Engineer for the Courthouse Annex renovation project and responsible for the HVAC systems. The Annex is a 4-story, 21,000 Square Foot building that is adjacent to the Tucker County Courthouse. The annex will house spaces for the Circuit Court, Circuit Clerk, Family Court, Magistrate Court, Prosecuting Attorney, County Commission, County Clerk,

Education

Bachelor of Science, Purdue
University, West Lafayette, IN, 1993

Employment History

2010 - Present, Project Engineer, ZMM
2007 - 2009, Sr. Mechanical Engineer, IN
2003 - 2007, Mechanical Engineer, IN
1999-2003, Project Engineer, Fort
Lauderdale, FL

Civic Affiliations

- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Member
- United States Marine Corps – 14 Years

Community Corrections, and Probation Office.

Huntington East Middle School, Huntington, WV. Mr. Pruett was responsible for the HVAC systems design for the LEED-registered school. This school features numerous sustainable features, including an air monitoring system for verifiable indoor air quality, variable refrigerant flow (VRF) systems for portions of the school that will operate year-round, preheating of the domestic hot water with the heating hot water return. Mr. Pruett also conducted an extensive energy analysis of the building and all of its systems to maximize the effect of each component, resulting in a projected reduction in energy consumption of 32% compared to a baseline analysis.

Edgewood Elementary School, Charleston, WV. Mr. Pruett is the mechanical engineer on the new Kanawha County Elementary School on Charleston's West Side and responsible for the HVAC systems design. The school is being designed as a 21st Century Learning Environment, with a focus on integrating technology into the delivery of the curriculum. Instructional areas will be located off of an open 'exploratorium' that is being designed to function like a children's museum, providing a variety of learning opportunities, and flexible educational spaces. The school will also visibly integrate sustainable design principles to serve as a teaching tool for the students.

Project Experience with other firms:

Southern Indiana Career and Technical Center (SICTC), Evansville, IN. Mr. Pruett was responsible for the HVAC systems design for the 262,000 square foot facility. The project features a complex air system necessitated by the diversity of the educational programs featured in the facility: welding, auto shop, building trades, electronics, radio/TV communications, culinary arts, etc. The main mechanical room was also designed to be an educational space, utilizing color-coded piping, a corresponding color-coded equipment schematic and an accessible controls workstation to aid the students in learning about building systems.



Role

Electrical Engineer

Professional Registrations

Professional Engineer (WV)

Mr. Casdorph serves as an Electrical Engineer with ZMM providing electrical design services for a vast number of projects consisting of commercial, educational, correctional, institutional, and military facilities.

Mr. Casdorph is responsible for many facets of the project pertaining to electrical design such as interior and exterior lighting, power distribution, data system design, security, fire alarm, low voltage control systems, equipment specifications and performs electrical assessments during construction prior to the project's substantial completion date. Mr. Casdorph has participated on several LEED registered projects using energy conserving methods and utilizing lighting control systems and other means to meet or exceed ASHRAE 90.1, LEED, and energy code requirements.

Project Experience

West Virginia Research, Education, and Technology – Building 704 WV. Mr. Casdorph is the electrical engineer for building 704 and responsible for electrical power and lighting distribution. Building 704 had previously been utilized as a campus maintenance facility by Union Carbide and DOW Chemical. Bridgemont began utilizing the facilities for instruction in the Spring of 2011.

Southern WV Community & Technical College, Williamson WV. Mr. Casdorph was responsible for the electrical power and lighting distribution design of this 22,000 SF higher education facility. This project is being designed to meet the USGBC LEED Silver.

Lincoln County Comprehensive High School, Hamlin, WV. Mr. Casdorph was responsible for the electrical power distribution throughout the 216,000 SF facility containing high school classes, vocational education, technical community college classes and a community health clinic. The project was a 2007 AIA Honor Award Winner.

Education

Bachelor of Science, West Virginia
Institute of Technology, 1995

Employment History

2000 - Present, Electrical Engineer, ZMM
1995 - 2000 Electrical Controls Systems
Manager, WV Engineering Firm

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

West Virginia Army National Guard, Joint Interagency Education and Training Center, Camp Dawson, WV. Mr. Casdorph was responsible for the electrical design of the 180,000 SF 3-story billeting/hotel expansion for the Army National Guard campus style facility for training and operational mission support. The expansion more than triples the facility size and increases the total capacity from 189 guest rooms to 600 guest rooms and suites. The project is targeted for LEED Silver Certification.

Jackson County AFRC, Ripley, WV. Mr. Casdorph was responsible for the electrical design of the 76,000 SF single story military reserve center which serves both the West Virginia Army National Guard and the United States Army Reserves (USAR) units. The multi-use facility provides educational spaces for classrooms, distance learning, physical training and a weapons simulation center. The project is targeted for LEED Silver Certification.

Glen Jean Armed Forces Reserve Center, Glen Jean, WV. Mr. Casdorph was responsible for the electrical design of the 102,000 SF military training facility which houses the Armed Forces Reserve Center (AFRC), Military Entrance Processing Station (MEPS), and an Organizational Maintenance Shop (OMS). The AFRC contains the administrative and training space for the 77th Brigade Troop Command, the 1863rd Transportation Company, and the 150th Armored Regiment Company. The MEPS houses their administrative, medical, headquarters, testing and storage functions at the facility. A comprehensive 8,500 SF OMS vehicle maintenance shop provides space for six large service workbays for maintaining the military fleet.

West Virginia Housing Development Fund Office, Charleston, WV. Mr. Casdorph was responsible for the electrical design of the 37,000 SF office building which provides natural daylighting into its interior spaces coupled with an automatic dimming system and motorized shade controls. This 2-story administrative facility houses approximately 95 to 100 employees with a flexible open office floorplan utilizing modular underfloor wiring to accommodate any future modifications of the workspace with minimal disruption to the employees. The project is targeted for LEED Silver Certification.

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

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

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



Role

Lighting Designer and Electrical Technician

Professional Registrations

Master Electrician – WV License #M02891

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

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

Mr. Abernethy began his career in engineering with ZMM in 1968. From 1970 through 1971 he was a construction drafting specialist and model maker in the US Army and after his honorable discharge in 1972 he became a staff engineering designer for FMC Inorganic Chemicals Corporation. In 1973 Mr. Abernethy returned to ZMM. He has a broad range of experience in the design and construction of commercial lighting and electrical systems, including K-12 schools, higher education facilities, industrial, manufacturing, military, commercial offices, malls and large retail facilities. Mr. Abernethy also has five years of experience as the office manager, estimator and purchasing agent for a highway lighting and traffic signal construction company.

Project Experience

Wood County Justice Center, Parkersburg, WV.

Mr. Abernethy is responsible for the lighting design electrical work for the Wood County chose an existing building in downtown Parkersburg to renovate for its Magistrate Courts, Sheriff's Department and Holding Center.

Judge Black Courthouse Annex, Wood County

Commission, Parkersburg, WV. Mr. Abernethy was responsible for lighting designs and electrical work on this annex renovation. The Judge Black Annex included two independent circulation paths – a secure entry and lobby for access to the

Education

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

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

Employment History

1992 - Present, Lighting Designer and Electrical Technician, ZMM

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

1973 - 1988, Lighting and Electrical Designer, ZMM

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

Civic Affiliations

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

Family Court and Prosecuting Attorney, and public access to the Assessor and Sheriff's Tax Department. The facility also houses several large public meeting rooms

Tucker County Courthouse Annex, Parsons, WV.

Mr. Abernethy is responsible for electrical and lighting designs for the Courthouse Annex renovation project and responsible for the HVAC systems. The Annex is a 4-story, 21,000 Square Foot building that is adjacent to the Tucker County Courthouse. The annex will house spaces for the Circuit Court, Circuit Clerk, Family Court, Magistrate Court, Prosecuting Attorney, County Commission, County Clerk, Community Corrections, and Probation Office.

Bridgemont Community and Technical College Davis Hall Renovation, Montgomery, WV.

Mr. Abernethy was in charge for the interior lighting design on the Davis Hall building renovations. The project scope included remedying several life safety deficiencies, as well as improvements to the building envelope.

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

Mr. Abernethy was responsible for the interior and exterior lighting design of both the billeting expansion and the operations training center. The project utilizes less than 0.8 watts/SF for interior lighting, which has helped reduce energy consumption on the project by 40% compared to a baseline analysis.

WV State Capitol Buildings #5, 6, & 7 - Electrical Switchgear up-grades, Charleston, WV. Mr. Abernethy was the project manager, designer and field investigator for a large medium and low voltage electrical switchgear emergency replacement which was accomplished over a long 2009 New Year's weekend.

Edgewood Elementary School, Charleston, WV. Mr. Abernethy is responsible for the electrical and lighting design for this new school. The school is being designed as a 21st Century Learning Environment, with a focus on integrating technology into the delivery of the curriculum. Instructional areas will be located off of an open 'exploratorium' that is being designed to function like a children's museum, providing a variety of learning opportunities, and flexible educational spaces. The school will also visibly integrate sustainable design principles to serve as a teaching tool for the students.

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

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

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

**HAYS**

LANDSCAPE ARCHITECTURE STUDIO, LTD.

WM. Gabriel Hays, ASLA



Role

Site Design / Accessibility

Professional Registrations

Registered Professional Landscape Architect (WV, OH, PA)

Gabe Hays has accumulated a broad, diverse range of professional experiences in landscape architecture. Project involvement in over twelve states has included a variety of planning and design experiences at some of the finest botanical gardens, arboretums, and private estates in the nation.

In addition, he has been involved in the planning and design for scenic byways, streetscapes, historical sites, campuses, community parks, military family housing, and various residential projects. Furthermore, experiences at Redwood National Park, The Ohio State University Horticulture Department, and The Ohio State University Engineer's Office have also added to his diverse background.

Hays earned top honors in the academic realm. After completion of his undergraduate program, he participated in studies abroad. Hays also served as an adjunct faculty member at Belmont Technical College's Building Preservation and Restoration Program teaching a landscape history/preservation class and architectural drafting.

Awards & Honors

Project B.E.S.T. Award for Wheeling Heritage Port Phase III – December 6, 2006.

Project B.E.S.T. Award for Marshall County Commission & Grand Vue Aquatic Center— December, 2010

Community Service Award: "For outstanding dedication to the community of The City of St. Clairsville...An innovative and beautiful design for the Memorial Park Playground that provides a place for all our community's children to play." October, 10 2007

Publications

Site Recycling for Public Enjoyment," in Discover Downtown: Ohio's Reference Guide to Downtown Revitalization, 2002

Speaking Engagements

Mother Earth News Green Home at Seven Springs Project Overview," Seven Springs 1st Annual Mother Earth News Fair, September, 2010

Education

Bachelor of Science in Landscape Architecture, The Ohio State University, 1994

Continuing Education

101 Green Roof Design: Introductory Training

201 Green Roof Design: Infrastructure Design and Instruction

301 Green Wall Design

Civic Affiliations

- American Society of Landscape Architects (ASLA), 1992 - Present
- Heritage Ohio Member/Downtown Ohio, 1998 - Present
- Ohio Public Works, District 18 Natural Resources Assistance Council, Secretary, 2001 - Present
- St. Clairsville Revitalization Task Force Member, 2005 - Present
- Wheeling Symphony, Board of Directors, 2006 - Present

"Landscape Architecture of the Country Place Era Estates, 1890-1933" Stan Hewett Symposium, October, 2008.
"Landscape Architecture of the Country Place Era Estates, 1890-1933" Oglebay Institute's Seven Sundays to Remember, May, 2008.

"Comparison of English and French Landscape Design Styles 1600-1900," Flushing Garden Club 75th Anniversary, Flushing Ohio, April, 2007

"Board Development & Revenue Master Planning," Mountwood Park Board Retreat, Waiverly, WV, March, 2007

"History of Landscape Architecture in the Ohio Valley" WVLY AM Radio, February, 2007

"Point Marion, PA Community Design Team Visit" sponsored by West Virginia University, March 24 and 25, 2006.

**Role**

Interior Designer/Sustainability Coordinator

Professional Registrations

NCIDQ Certification

LEED Accredited Professional, Building Design & Construction

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

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

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

Targeted for LEED for New Construction v2.2 Certification. Wood County chose an existing building in downtown Parkersburg to renovate for its Magistrate Courts, Sheriff's Department and Holding Center, and Ms. Watkins was responsible for programming, space planning, coordination with consultants, researching multiple standards and codes, interior finish selections, reflected ceiling plans and furniture selections.

Tucker County Courthouse Annex, Parsons, WV.

Ms. Watkins is responsible for the interior design and finishes for the Courthouse Annex renovation project and responsible for the HVAC systems. The Annex is a 4-story, 21,000 Square Foot building that is adjacent to the Tucker County Courthouse. The annex will house spaces for the Circuit Court, Circuit Clerk,

Education

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

Employment History

2008 - Present, Interior
Designer/Sustainability Coordinator, ZMM
2005 - 2007, Project Designer, Boston
Architecture/Engineering Firm
1995 - 2005, Interior Designer, Various
Cleveland Architecture/Engineering Firms

Civic Affiliations

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

Family Court, Magistrate Court, Prosecuting Attorney, County Commission, County Clerk, Community Corrections, and Probation Office.

Bridgemont Community and Technical College Davis Hall Renovation, Montgomery, WV. Ms. Watkins is responsible for the interior design efforts to the Davis Hall renovations. She is also responsible for interior finishes and furniture selections.

West Virginia Army National Guard, Joint Interagency Education and Training Center, Camp Dawson, WV. Targeted for LEED for New Construction v2.2 Silver Certification.

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

Jackson County AFRC, Ripley, WV.

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

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

Morgantown Readiness Center, Morgantown, WV.

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

Jill worked alongside ZMM architects and engineers to fully develop the interiors for this multi-functional building that houses offices and performance facilities for the band, as well as traditional readiness center functions. Design of the main gallery space was foremost, where coordination of durable interior finishes, lighting, and ceiling design was important. In the Drill Hall and Auditorium, Jill coordinated the interior acoustic requirements with finishes and architectural elements to create a stage area, performance space, and drill hall that will seamlessly function in a variety of ways. Jill is LEED Administrator for the project.

Huntington East Middle School, Huntington, WV.

Targeted for LEED for Schools 2009 Silver Certification.

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

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

Other Firm Experience:

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

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

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

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

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

Beachwood Middle School, Beachwood, OH

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

Awards and Acknowledgements:

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

Courthouse Facilities Improvement Authority - County Courthouse Facility Needs Assessment (55 Counties)
Proposed Project Schedule

Activity	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18
Review Proposed Assessment Tool																		
CFIA Contact Counties with project Information																		
Coordinate with SHPO and Fire Marshal																		
Commence Assessments																		
Develop Preliminary Assessments																		
Develop Proposed Improvements and Budgets																		
Present Preliminary Assessment																		
Update CFIA Board of Directors																		
Review Preliminary Assessments with Counties and CFIA																		
Complete Final Assessment																		
Present Final Assessment to CFIA for Approval																		

Denotes Action Item

Please note that many activities will overlap as the team will be coordinating different phases with various Counties. Please see Section 1 for a detailed approach for each County.

Judge Donald F. Black Courthouse Annex

Wood County



LOCATION:
Parkersburg,
West Virginia

SIZE:
36,828 SF

COST:
\$3.5M

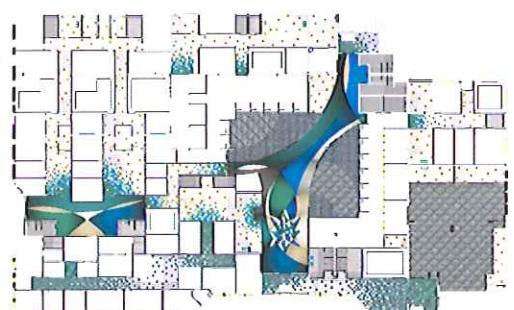
COMPLETION:
2005

CONTACT:
Mr. Rick Modesitt
Former Commissioner
No. 1 Court Square
Suite 205
Parkersburg WV 26101
304.481.4035



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.



Wood County Justice Center



LOCATION:
Parkersburg,
West Virginia

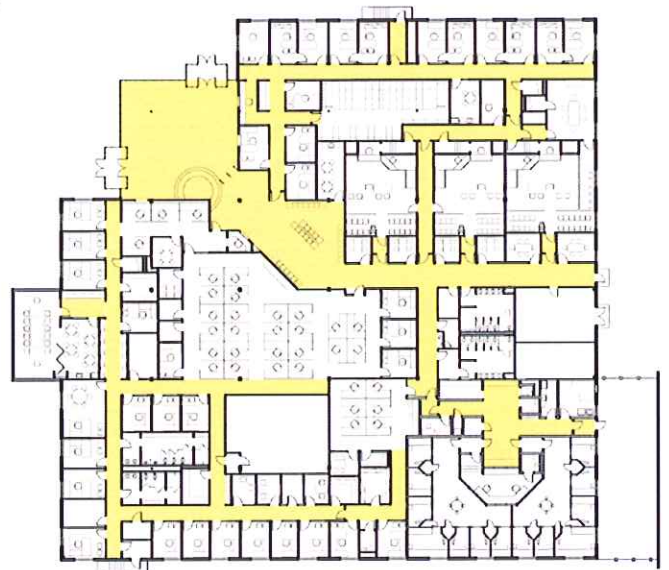
SIZE:
32,000 SF

COMPLETION:
Under Construction

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 located in downtown Parkersburg, West Virginia. The building was purchased by the Wood County commission with the purpose of bringing together 3 government functions that had outgrown the 3 separate buildings that they occupied.



The renovated building consists of offices and 3 Courtrooms for the County's Magistrate Court system, public service windows for document pick-up and payment of fines, offices for the Sheriff's Department and Home Confinement and a 12-hour Inmate Holding Center.

Due to the building's new use, the interior was completely demolished leaving only the shell. 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 adjacent existing magistrate court building. The old HVAC system was removed and replaced with a more energy efficient system and new, energy efficient lighting was installed. 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.



Tucker County Courthouse Annex



LOCATION:
Parsons, West Virginia

SIZE:
21,000 SF

COST:
Est. \$4M

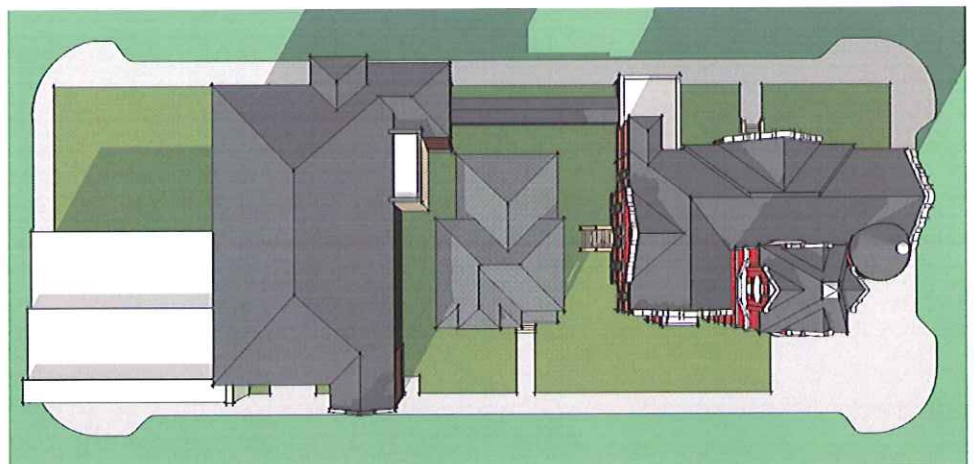
COMPLETION:
Est. 2012

CONTACT:
Mr. Tom Carr,
Commissioner
213 1st Street
Parsons, WV 26287
304.478.2866



The Tucker County Courthouse Annex is 4-story, 21,000 square foot building located adjacent to the Tucker County Courthouse in Parsons, WV. The annex sits on the same lot as the courthouse with the original jailor's residence between the two. The location of the existing jailor's residence, which is listed on the National Register, created a challenging planning dilemma. ZMM explored three options for developing the Courthouse Annex. The first option, the original concept proposed by Tucker County, anticipated connecting the Annex at multiple levels via a connector.

The problem with this approach was that the jailor's residence appeared like a building stuck within a larger complex, as well as the cost of the connector structure. ZMM also explored the option of relocating the jailor's residence, an approach that proved not feasible as the location of the facility justifies its historical quality. The final solution that was examined, and is currently being implemented, involved adding a separate elevator to the existing Tucker County Courthouse, and connecting the entry to the two facilities with an enclosed single level connector. This approach is the most efficient use of the County's resources, and also the best approach for the overall Courthouse site. Continued...

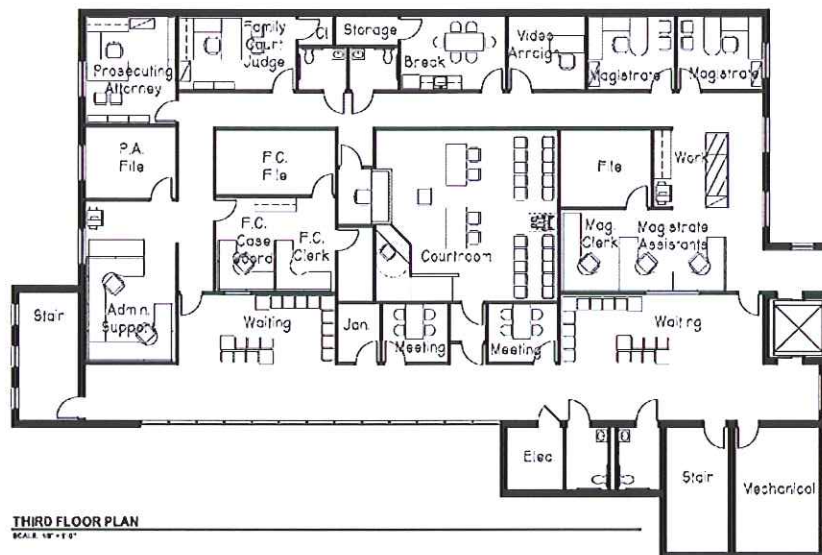
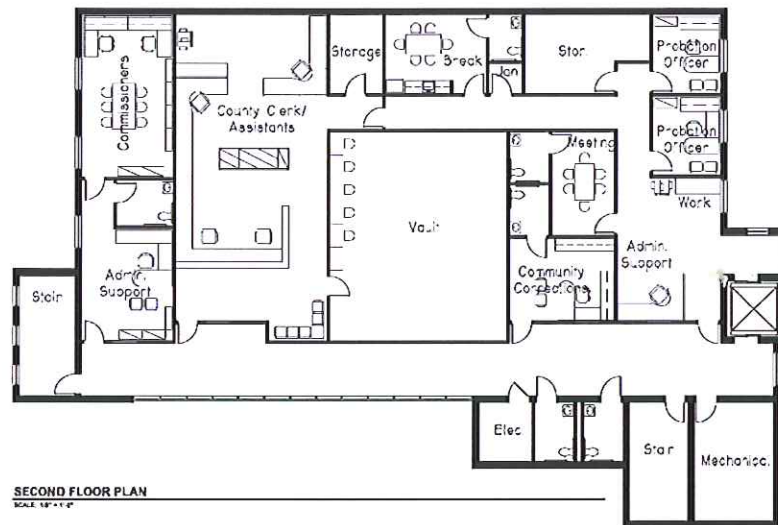


Tucker County Courthouse Annex



The annex will house spaces for the Circuit Court, Circuit Clerk, Family Court, Magistrate Court, Prosecuting Attorney, County Commission, County Clerk, Community Corrections, and Probation Office. The Tucker County Sheriff, currently housed in leased space, will occupy the space that is being vacated in the original Courthouse. The office and courtroom spaces occupy the upper three floors, with enclosed parking on the ground floor. The enclosed parking on the ground level will ensure that all occupied spaces are located outside of the floodplain.

The architecture of the annex is meant to complement the existing Romanesque and Flemish styles of the Courthouse and jailor's residence. The red brick, stone base, brick banding, arched openings, and sloped rooflines help to create a unified feel, while the wall of glass adjacent to the public corridor that overlooks the courthouse brings a touch of modernity to the campus and provides natural light to the interior of the building.



Kanawha County Courthouse

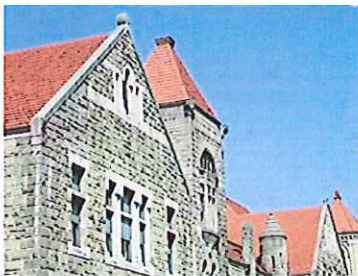
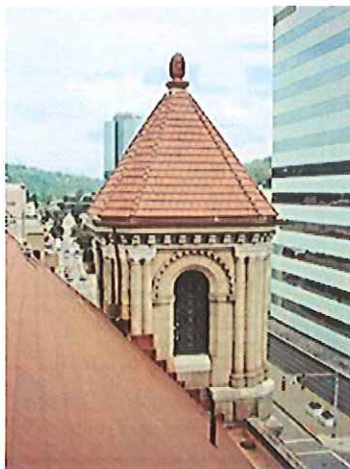
Roof Restoration and Masonry Façade Restoration



LOCATION:
Charleston, West Virginia

COMPLETION:
1999-2005

CONTACT:
Ms. Jerie Whitehead,
Purchasing Director
Kanawha County Commission
407 Virginia St, East
Third Floor, Room 229
Charleston, WV 25301
304.357.0115



The Kanawha County Courthouse is a three-story rusticated stone building built in three sections: the central courthouse building was built in 1892 and has a three-story medieval tower with a pyramidal roof; the second portion was built in 1917 and faces Kanawha Street; the final and largest section of the building was built in 1924 and has twin towers with pyramidal roofs connected by a five-arched loggia. The team was hired in October 1999 to oversee the roof repairs, Phase I, and the second phase, which was to clean the masonry on the building.

Phase I was the replacement and repair of the original terra cotta clay tile roof, and all roof flashing was replaced at the same time. The team also subcontracted a historic roofing consultant, Lee Forbes, to assist in the project. The project was completed ahead of schedule in October 2002 and came in about \$300,000 under budget. The original budget was anticipated to be about 1 million dollars. According to Mr. Forbes, roofing consultant, the flashing should be maintenance free for up to 75 years, and the Ludowici clay tiles used in the project have a life expectancy of 300-400 years, an American standard.

Phase II of the project consisted of pointing, cleaning, repairing and replacing damaged portions of the masonry façade. The products used for the cleaning were appropriate chemicals specifically formulated for historic buildings, and the mortar used in pointing matched the original in color, composition, strength and joint profile. Replacement stone was quarried in Ohio to match the original, and the tooling, configuration and profiles matched all original circumstances. This phase of the project was begun in summer 2004 and completed in summer 2005, on time. The contract amount was for \$429,000, again under budget.

McDowell County Courthouse

Courthouse Annex and Rehabilitation



LOCATION:
Welch, West Virginia

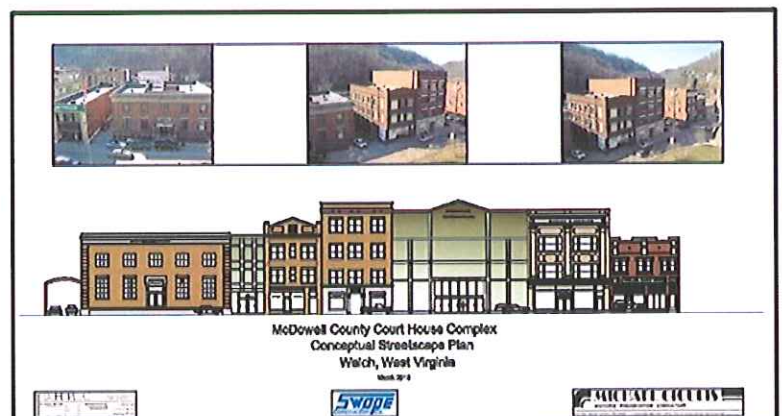
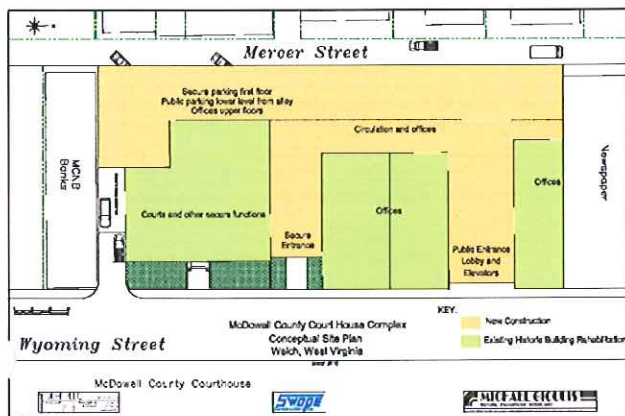
COMPLETION:
2010

CONTACT:
Mr. Clif Moore,
County Manager
McDowell County Commission
109 Wyoming Street
Welch, WV 24801
304.436.8549



The McDowell County Courthouse is a three-story stone building designed by architect Frank Pierce Milburn. The Romanesque style courthouse was constructed in 1893, with a later sections added in 1917 and 1923. The original central courthouse has a three-story medieval tower with a pyramidal roof; the second portion faces Kanawha Street; and the final and largest section of the building has twin towers with pyramidal roofs connected by a five-arched loggia.

Following a master planning/historic resource analysis & rehabilitation recommendations project, the courthouse determined that an annex was required. Soliciting proposals for design build concepts, Mike Gioulis was part of the team responding to that request. As part of the team's analysis and preliminary recommendations, the team prepared a presentation which showed examples of other completed expansions to historic buildings, included conceptual drawings of the proposed McDowell County Courthouse Complex, and suggested possible sources of funding. The project has not yet been funded.



Marshall County Courthouse

Master Plan

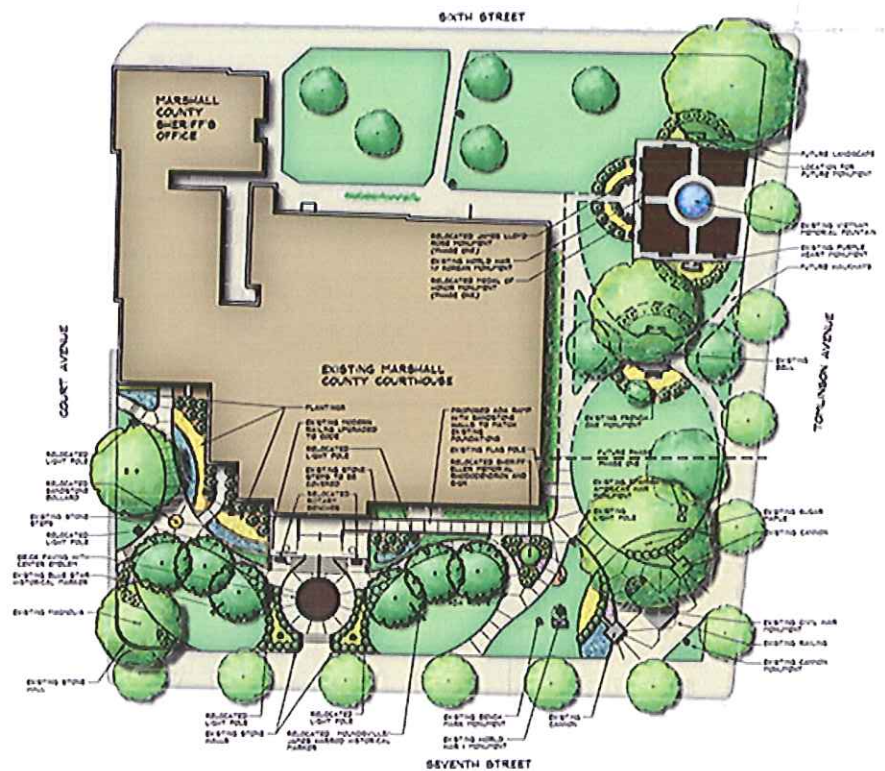
LOCATION:
Moundsville, West Virginia

SIZE:
.36 Acres

COMPLETION:
2009

COST:
\$176,140

CONTACT:
Ms. Betsy Frohnaphel,
Administrator
Marshall County Commission
P.O. Box Drawer B
Moundsville, WV 26041
304.845.0482



The Marshall County Commission selected Hays LAS to design and develop a master plan for the area surrounding the Marshall County Courthouse. Plans for the courthouse include an emphasis on **ADA accessibility, organization of memorials, rehabilitation of the memorial fountain (phase two), and landscape overall character.**

The design focused on maintaining the historical value of the courthouse and surrounding area while also integrating the current regulations and standards. The project was completed in 2009 by JD&E Construction Company.



Correctional Facilities

West Virginia Regional Jails



CONTACT:
Chilton Lilly,
Project Manager

WV Regional Jail &
Correctional Facility
Authority
1325 Virginia Street, E
Charleston, WV 25301
304.558.2110



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



CONTACT:
Chilton Lilly,
Project Manager

WV Regional Jail &
Correctional Facility
Authority
1325 Virginia Street, E
Charleston, WV 25301
304.558.2110



**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 Doddridge 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.

West Virginia Capitol Complex

Buildings# 5, 6, & 7



LOCATION:
Charleston, West Virginia

SIZE:
500,000 SF

COMPLETION:
TBA

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



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

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

ZMM also completed the following:

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



Bridgemont Community and Technical College

Davis Hall Renovation



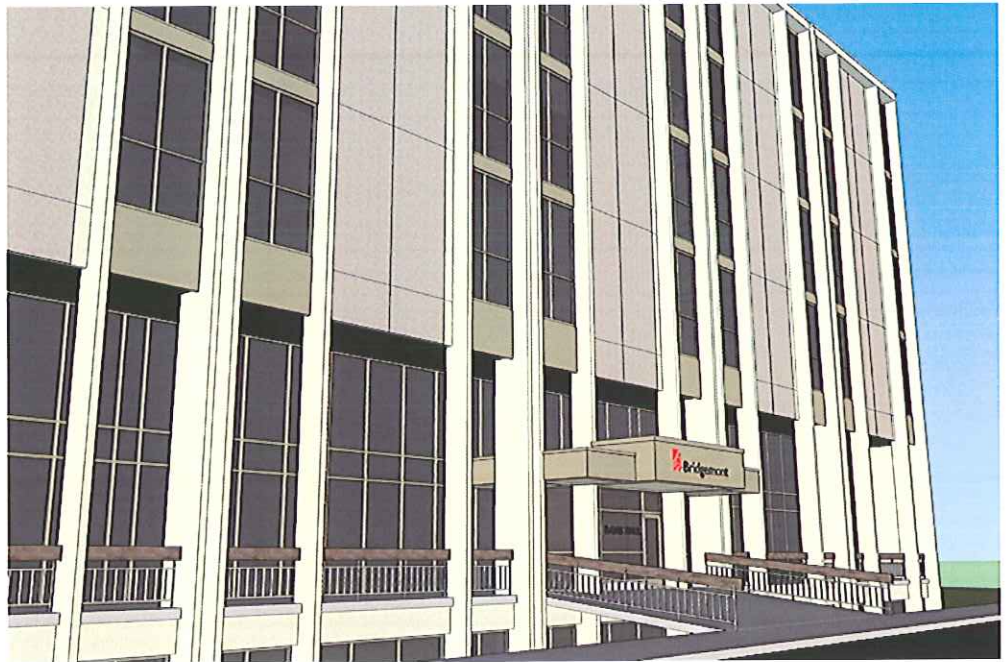
LOCATION:
Montgomery,
West Virginia

SIZE:
77,215 SF

COMPLETION:
Est. March 2012

COST:
\$4 Million

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



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



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

The scope of the current project includes life safety upgrades (replace non-plenum rated wiring, new fire alarm system), improvements to the building envelope (curtain wall replacement and re-roofing), hazardous material abatement, mechanical improvements (boiler and chiller replacement, outdoor air ventilation system replacement), and interior improvements (replace ceilings and lighting, upgrade furnishings). The budget for the proposed improvements is \$4M, and the design work is scheduled for completion in March of 2012.

Facility Assessment Experience:

West Virginia State Office Building #5, 6, & 7- ZMM 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.



Mr. David Oliverio, Director

WV General Services Division
1900 Kanawha Blvd. E
Charleston, WV 25305
304.558.3517

Bridgemont Community and Technical College (Davis Hall) - ZMM was selected by Bridgemont Community and Technical College and the West Virginia Community and Technical College System to provide professional architectural and engineering design services for the Renovation of Davis Hall in Montgomery. Davis Hall is a 77,215 SF classroom and laboratory facility that was constructed in 1970 for WVU-Tech. The exterior of the facility consists of architectural pre-cast concrete panels and a curtain wall system.



Dr. Jo Harris, President

619 2nd Avenue
Montgomery, WV 25136
304.734.6600

County Experience:

Tucker County Courthouse Annex - The Tucker County Courthouse Annex is 4-story, 21,000 square foot building located adjacent to the Tucker County Courthouse in Parsons, WV. The annex sits on the same lot as the courthouse with the original jailor's residence between the two. The location of the existing jailor's residence, which is listed on the National Register, created a challenging planning dilemma. ZMM explored three options for developing the Courthouse Annex. The first option, the original concept proposed by Tucker County, anticipated connecting the Annex at multiple levels via a connector.



Mr. Tom Carr, Commissioner

Tucker County Commission
213 First St.
Parsons, WV 26287
304.478.2866

Wood County Justice Center - This project was an extensive renovation of a 15 year old, 32,000 square foot, single story office building. 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. The project was designed around the U.S. Green Building Council's New Construction and Major Renovation Guidelines.



Mr. Blair Couch, Commissioner

Wood County Commission
3208 N. Avery Street
Parkersburg, WV 26104
304.424.1976

Marshall County Courthouse - The Marshall County Commission selected Hays LAS to design and develop a master plan for the area surrounding the Marshall County Courthouse. Plans for the courthouse include an emphasis on ADA accessibility, organization of memorials, rehabilitation of the memorial fountain (phase two), and landscape overall character. The design focused on maintaining the historical value of the courthouse and surrounding area while also integrating the current regulations and standards.



Ms. Betsy Frohnappfel, County Administrator

Marshall County Commission
Moundsville, WV 26041
304.845.0482





2011

Southside Elementary/
Huntington Middle School
2011 - Honor Award
"Historical Preservation"
AIA West Virginia Chapter



2011

Joint Interagency Education
& Training Center (JITEC)
2011 - Honor Award
"Excellence in Architecture"
AIA West Virginia Chapter



2011

State Office Building #5, 10th
Floor - Office of Technology
2011 - Merit Award
"Architecture in Interiors"
AIA West Virginia Chapter



2010

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



2009

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



2008

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



2007

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



2006

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



2004

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



Additional Award Winning Design



West Virginia Society of Architects Design Honor Awards

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

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



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

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



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

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



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



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER

CFA100611

PAGE

1

ADDRESS CORRESPONDENCE TO ATTENTION OF

FRANK WHITTAKER
304-558-2316

RFQ COPY

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COURTHOUSE FACILITIES
IMPROVEMENT AUTHORITY

550 EAGAN STREET, SUITE 208
CHARLESTON, WV

25301

304-558-5000

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/14/2011				

BID OPENING DATE:

11/21/2011

BID OPENING TIME

01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
***** ADDENDUM NO. 2 *****						
THIS ADDENDUM IS ISSUED TO:						
1) PROVIDE THE ATTACHED TECHNICAL QUESTIONS & ANSWERS.						
2) EXTEND THE BID OPENING DATE AND TIME.						
BID OPENING CHANGED TO 11/21/2011 AT 1:30 PM.						
***** END ADDENDUM NO. 2 *****						
THE ADDENDUM DOES NOT AFFECT OUR SUBMISSION.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	<i>Ad RY</i>	TELEPHONE	304.342.0159	DATE	16-Nov-2011
TITLE	Principal	FEIN	55-0676608	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
 2. The State may accept or reject in part, or in whole, any bid.
 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
 5. Payment may only be made after the delivery and acceptance of goods or services.
 6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
 7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
 10. The laws of the State of West Virginia and the **Legislative Rules** of the Purchasing Division shall govern the purchasing process.
 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
 12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
 13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.html and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
 14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
 15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
 16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.
- I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
CFA100611

PAGE
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ADDRESS CORRESPONDENCE TO ATTENTION OF
FRANK WHITTAKER
304-558-2316

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COURTHOUSE FACILITIES
IMPROVEMENT AUTHORITY

550 EAGAN STREET, SUITE 208
CHARLESTON, WV
25301 304-558-5000

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
10/27/2011				

BID OPENING DATE: 11/16/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
***** ADDENDUM NO. 1 *****						
THIS ADDENDUM IS ISSUED TO CORRECT THE INFORMATION PROVIDED IN SECTION 1.16 SCHEDULE OF EVENTS. SECTION 1.16 IS CHANGED AS FOLLOWS:						
1.16 SCHEDULE OF EVENTS:						
RELEASE OR EOI:				OCTOBER 18, 2011		
FIRMS WRITTEN QUESTIONS DEADLINE:				NOVEMBER 03, 2011		
ADDENDUM ISSUED:				TBD		
EXPRESSION OF INTEREST OPENING DATE:				NOVEMBER 16, 2011		
ESTIMATED DATE FOR INTERVIEWS: 2 WEEKS AFTER OPENING BID OPENING DATE.						
***** END ADDENDUM NO. 1 *****						
THE ADDENDUM DOES NOT AFFECT OVER-SUBMISSION.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Ad RK</i>	TELEPHONE 304.342.0159	DATE 16. Nov. 2011
TITLE <i>Principal</i>	FEIN 55-0676608	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

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IMPROVEMENT AUTHORITY

550 EAGAN STREET, SUITE 208
CHARLESTON, WV

25301

304-558-5000

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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS		
10/19/2011						
BID OPENING DATE: 11/16/2011		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL						
EXPRESSION OF INTEREST (EOI)						
THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA COURTHOUSE FACILITIES IMPROVEMENT AUTHORITY, IS SEEKING EXPRESSIONS OF INTEREST (EOI) FOR ARCHITECTURAL/ENGINEERING SERVICES TO PRODUCE A NEEDS ASSESSMENT TARGETING THE 55 COUNTY COURTHOUSE BUILDINGS PER THE ATTACHED SPECIFICATIONS.						
ALL TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WV PURCHASING DIVISION VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV OR VIA FAX AT 304-558-4115. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 11/03/2011 AT 4:00 PM. ALL TECHNICAL QUESTIONS WILL BE ADDRESSED BY ADDENDUM AFTER THE DEADLINE.						
EXHIBIT 1						
LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE <i>AG RK</i>		TELEPHONE 304.342.0159		DATE 16-Nov-2011		
TITLE PRINCIPAL		FEIN 55-0676608		ADDRESS CHANGES TO BE NOTED ABOVE		

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER

CFA100611

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ADDRESS CORRESPONDENCE TO ATTENTION OF:

FRANK WHITTAKER
304-558-2316

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COURTHOUSE FACILITIES
IMPROVEMENT AUTHORITY

550 EAGAN STREET, SUITE 208
CHARLESTON, WV
25301 304-558-5000

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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
10/19/2011				

BID OPENING DATE:

11/16/2011

BID OPENING TIME

01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT BY THE STATE OF WEST VIRGINIA, ITS AGENCIES, OR POLITICAL SUBDIVISIONS, THE TERMS, CONDITIONS AND PRICING SET FORTH HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) SUCCESSIVE ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICE SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK).</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER NOTICE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>AR K</i>	304.342.0159	16. NOV. 2011
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Principal	55-0676608	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER

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PAGE

3

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304-558-2316

RFQ COPY

TYPE NAME/ADDRESS HERE

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COURTHOUSE FACILITIES
IMPROVEMENT AUTHORITY

550 EAGAN STREET, SUITE 208
CHARLESTON, WV

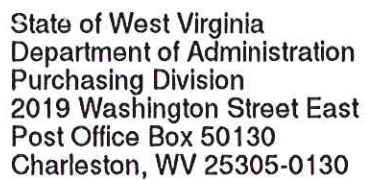
25301

304-558-5000

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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS		
10/19/2011						
BID OPENING DATE: 11/16/2011		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: 44</p> <p>RFQ. NO.: CFA100611</p> <p>BID OPENING DATE: 11/16/2011</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:</p> <p>304.345.8144</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):</p> <p>ADAM R. KRASON, AIA</p>						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE <u>Ad R K</u>		TELEPHONE <u>304.342.0159</u>		DATE <u>16. NOV. 2011</u>		
TITLE <u>Principal</u>		FEIN <u>55-0676608</u>		ADDRESS CHANGES TO BE NOTED ABOVE		

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



RFQ NUMBER
CFA100611

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER
304-558-2316

VENDOR

COURTHOUSE FACILITIES
IMPROVEMENT AUTHORITY

550 EAGAN STREET, SUITE 208
CHARLESTON, WV
25301 304-558-5000

BID OPENING DATE:	11/16/2011	BID OPENING TIME	01:30PM
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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
	***** THIS IS THE END OF RFQ CFA100611 ***** TOTAL:					

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <u>Ad R K</u>		TELEPHONE <u>304.342.0159</u>	DATE <u>16. Nov. 2011</u>
TITLE <u>Principal</u>	FEIN <u>55-0676608</u>	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

RFQ No. CFA100611STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT**

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATUREVendor's Name: ZMM, Inc.Authorized Signature: [Signature] Date: 15 NOVEMBER 2011State of West VirginiaCounty of Kanawha, to-wit:Taken, subscribed, and sworn to before me this 15th day of November, 2011My Commission expires 10-6, 2018

AFFIX SEAL HERE

NOTARY PUBLIC

[Signature]