



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

State of West Virginia
Centralized Expression of Interest
Architect/Engr

Proc Folder: 2083351			Reason for Modification:
Doc Description: A&E - Shooting Range Upgrades			
Proc Type: Central Contract - Fixed Amt			
Date Issued	Solicitation Closes	Solicitation No	Version
2026-10-07	2026-10-22 13:30	CEOI 0310 DNR2700000001	1

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

RECEIVED

2026 OCT 22 PM 1:00

VENDOR

Vendor Customer Code:

Vendor Name : ZMM Architects and Engineers

Address : 222 Lee Street West

Street :

City : Charleston

State : WV **Country :** **Zip :** 25302

Principal Contact : Adam Krason

Vendor Contact Phone: 304.342.0159 **Extension:** 234

FOR INFORMATION CONTACT THE BUYER

Joseph (Josh) E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor
Signature X

FEIN# 550676608

DATE 10.22.26

All offers subject to all terms and conditions contained in this solicitation

A photograph of a wooden shooting range shelter. A wooden sign is mounted on a post, listing rules for the range. Below the sign is a wooden bench. The background shows a wooded area.

WMA SHOOTING RANGE RULES

- Clay and paper targets only
- Targets must be placed in front of dirt berms
- Shooting permitted only from target line
- Stand and trap shooting is not permitted
- Hunting not permitted within buffer zone boundary of shooting range
- Do not litter. You are responsible for removing your litter
- Open daily from sunrise to sunset



EXPRESSION OF INTEREST

To Provide Professional
Architecture/Engineering Services

SHOOTING RANGE UPDATES

DNR2700000001
October 22, 2026

ZMM.COM

October 22, 2026

Mr. Joseph E. Hager III
Department of Administration
Purchasing Division
2019 Washington Street, East
Charleston, West Virginia 25305



an Aeterna Group™ Company

Subject: Plum Orchard Lake and Kanawha State Forest Shooting Range Upgrades (CEOI 0310 DNR2700000001)

Mr. Hager and the Selection Committee:

ZMM Architects and Engineers is pleased to submit our Expression of Interest to provide professional architectural and engineering services for the West Virginia Division of Natural Resources' shooting range upgrades at Plum Orchard Lake Wildlife Management Area in Fayette County and Kanawha State Forest in Kanawha County.

Established in 1959, ZMM is a West Virginia-based, full-service architectural and engineering firm with extensive experience serving state agencies and delivering projects that balance operational requirements, environmental stewardship, long-term durability, and responsible use of public funds. Kanawha and Fayette counties are communities where we have established relationships, firsthand knowledge of local conditions, and a strong record of project experience. Our established relationship with WVDNR includes projects at wildlife management areas, state parks, and forest facilities throughout the state. We understand the importance of providing safe, functional recreational facilities that serve the public while respecting the natural environments in which they are located.

Particularly relevant experience to your project is our efforts in designing the Kanawha County Sheriff's Department Training Center which includes indoor and outdoor firearms ranges, ballistic earthen berms, site development, drainage improvements, utility infrastructure, and environmental permitting. Working directly with the Sheriff, whose specialized shooting range knowledge informed the design, ZMM successfully coordinated the project's technical and operational requirements. This experience will help us work collaboratively with WVDNR personnel to evaluate existing conditions, identify practical improvements, and develop solutions responsive to the needs of each location. Where additional specialized expertise is warranted, we can coordinate with qualified consultants or WVDNR-preferred providers based on the final project scope.

With more than 75 professionals, ZMM provides comprehensive architectural and engineering services in-house, including civil, structural, mechanical, and electrical engineering, along with construction administration. As part of Aeterna Group, we also have access to a broader network of professionals, expertise, and resources that can supplement our local team as project needs warrant. This combination of local knowledge, established relationships, and expanded capabilities supports efficient coordination from initial site assessments and feasibility analysis through permitting, construction documentation, bidding, and construction administration. Throughout the process, we will emphasize clear communication, cost-conscious design decisions, environmental responsibility, and quality control to help WVDNR achieve durable, maintainable facilities that meet its objectives.

We appreciate the opportunity to continue serving the West Virginia Division of Natural Resources and would welcome the opportunity to assist with these important improvements. Thank you for your consideration.

Respectfully submitted,
ZMM Architects and Engineers

A handwritten signature in blue ink, appearing to read 'AK RK', is written over a horizontal line.

Adam Krason, AIA, LEED AP, ALEP
Principal
ark@zmm.com
304.342.0159

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FIRM PROFILE



ABOUT ZMM ARCHITECTS AND ENGINEERS

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), landscape architecture, interior design, and construction administration with our in-house team. Our integrated design approach makes ZMM unique among architecture/engineering firms, and helps to ensure the quality of our design solutions by providing more thoroughly coordinated construction documents.



ZMM has maintained a diverse portfolio since the founding of the firm. Early commissions included higher education projects for West Virginia University and Concord College, WV State Capitol Complex Buildings 5, 6, & 7, and armories for the West Virginia Army National Guard.

Maintaining a diverse practice for more than 65 years has provided ZMM with extensive experience in a variety of building types, including educational facilities, governmental facilities (military, justice, correctional), healthcare facilities, recreation facilities, commercial office space, light industrial facilities, and multi-unit residential buildings.

The original partners transferred ownership of the firm to Robert Doeffinger, PE and Steve Branner in 1986. Mr. Doeffinger and Mr. Branner helped guide and expand the firm to 35 staff. David Ferguson, AIA, and Adam Krason, AIA, LEED-AP joined in ownership of the firm 20 years ago. Randy Jones joined the firm in a leadership role when ZMM acquired Blacksburg-based OWPR Architects & Engineers in 2020 to create a regional design firm that employs more than 70 highly-skilled professionals.

ZMM has become a leader in sustainable / energy-efficient design, and a trusted resource on complex renovation projects.



About ZMM Architects and Engineers (continued)

ZMM's unique renovation project approach and ability to provide comprehensive design services has also led the firm to be selected to improve landmark buildings, including the Charleston Coliseum & Convention Center, the Clay Center for the Arts and Sciences, the West Virginia Culture Center, and the West Virginia State Capitol Building. Additional significant projects designed by the firm include the Explorer Academy (Cabell County Schools), the Logan-Mingo Readiness Center, the Manassas Park Community Center and Natatorium, the design of the Fourth High School (Frederick County Public Schools), the new Harrington Waddell Elementary School (Lexington City Schools), the new Ranson Elementary School and Shepherdstown Elementary School (Jefferson County Schools) both include geothermal systems, CAMC Teays Valley ICU, and Ridgeview Elementary School (Raleigh County Schools). ZMM has also provided design services on more than 300 school projects throughout the region.

ZMM's building-related design services include the following.

Pre-Design

Educational Facility Planning
Existing Building Evaluation
Space Planning
Master Planning

Programming
Feasibility Studies
Site Evaluation, Analysis, + Planning
Construction Cost Estimating

Design

Architectural Design
Interior Design
Lighting Design

Sustainable Design
Landscape Architecture

Engineering

Civil Engineering
Mechanical Engineering
Energy Consumption Analysis

Structural Engineering
Electrical Engineering
Net-Zero Buildings

Post-Design

Construction Administration
Life Cycle Cost Analysis

Value Engineering
Post-Occupancy Evaluation

Today, as a member of Aeterna Group, we continue to be our clients' trusted, regional partner, backed by the expanded expertise and resources of a national network of brands. We remain committed to delivering innovative, high-quality design solutions that meet budget and schedule needs while building lasting client relationships. At ZMM, it's about more than architecture. It's about building your legacy.



AWARD WINNING DESIGN

ZMM's commitment to quality has been recognized through both state and national design awards, as well as through long-term client relationships that we have developed. Our unique approach and integrated design services have led the firm to earn 29 design awards since 2005 – an unprecedented achievement.

2026

AIA Citation, West Virginia Chapter

Citation for Achievement in Architecture

Cedar Grove Elementary School - Cedar Grove, WV

AIA Community Impact Award, West Virginia Chapter

Woody Williams Center for Advanced Learning and Careers

Barboursville, WV



2025

AIA Honor Award, West Virginia Chapter

Excellence in Architecture

Coopers Rock Stargazing Cabins - Bruceton Mills, WV

AIA Honor Award, West Virginia Chapter

Excellence in Craftsmanship

Coopers Rock Stargazing Cabins - Bruceton Mills, WV

AIA Merit Award, West Virginia Chapter

Clendenin Elementary School - Clendenin, WV



2020

AIA Merit Award, West Virginia Chapter

Achievement in Architecture for New Construction

Mountain Valley Elementary School - Bluefield, WV

AIA Merit Award, West Virginia Chapter

Achievement in Architecture in Sustainable Design

Ridgeview Elementary School - Sophia, WV



2019

AIA Honor Award, West Virginia Chapter

Excellence in Architecture for New Construction and Renovation

Charleston Coliseum & Convention Center - Charleston, WV

AIA Citation, West Virginia Chapter

Citation for Achievement in Architecture in Interior Renovation

Charleston Coliseum & Convention Center - Charleston, WV

AIA People's Choice Award, West Virginia Chapter

Charleston Coliseum & Convention Center - Charleston, WV



RELEVANT DESIGN EXPERIENCE

2





JOINT INTERAGENCY TRAINING AND EDUCATION CENTER (JITEC)

LEED
GOLD

LOCATION KINGWOOD, WV	SIZE 283,000 SF	COMPLETION 2013	COST \$100M	AWARDS 2011 AIA WV HONOR AWARD
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ZMM, in association with AECOM, provided architectural and engineering design services for JITEC, an Army National Guard campus-style facility for training and operational mission support.

Sited on 30 acres near Camp Dawson, this project included the design of a new operations building, expansion of the billeting facility, renovation of the training facility, and creation of a new base access control point (ACP) and visitor's center. The vision behind the site design and updated master plan is that of a college campus atmosphere. The facility is designed to meet all anti-terrorism/force protection criteria and has achieved LEED Gold Certification. The operations building is prominently sited as the main focal point upon entering Camp Dawson and consists of four distinct areas: the Joint Operations Center (JOC), a suite of secure training rooms, base headquarters and JITEC administrative offices, and a server and telecommunications room.

Built to SCIF standards, the JOC contains a state-of-the-art command center, housing 48 permanent work stations in a theater-style configuration, facing a large video wall, flanked by conference rooms and offices for both officers and support staff. The billeting (hotel) expansion's lobby design provides a hotel atmosphere, underscored by the Liberty Lounge, an upscale bar and restaurant area, with wood finishes salvaged from the gymnasium floor of the former Preston County Armory.





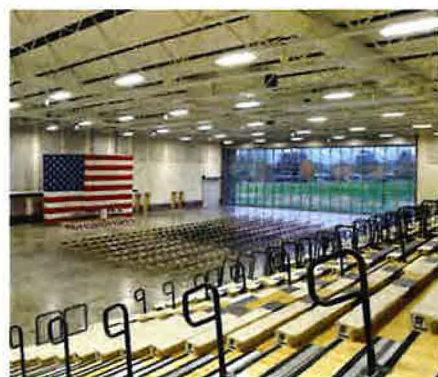
JACKSON COUNTY ARMED FORCES RESERVE CENTER

LOCATION MILLWOOD, WV	SIZE 75,000 SF	COMPLETION 2011	COST \$20M
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The building design was inspired by the adjacent Georgian-style Order of the Eastern Star facility.

The primary user for the WVARNG will be DET 1 821st Engineering Company, supported by a FSC of the 1092nd. USAR occupants include PLT AMMO 261 OD and PLT 1 (Postal) and PLT 6 (Postal) of the 44th Personnel Company. An expanded drill hall serves as a convention and meeting space. The relationship between the structures became crucial to the site layout. Once the aesthetic of the building was established, the massing of the facility was defined by breaking down the facility into smaller mass elements. The larger programmatic elements, such as the drill hall and the storage areas, employ an aesthetic that more closely implies their function.

The layout of the facility includes a main entry with the recruiting, family support, and administrative areas located on separate sides. A transverse wing houses all functions that have the potential for public use, while all primary military spaces developed along a similar perpendicular wing. This allows for separate entries to be developed for public functions, while the remainder of the facility can be secured. The layout also creates a large central courtyard, or parade field, that would be located at lower grade to define the edge facing the river. This edge is defined by a canopy that connects storage and locker areas to the expanded drill hall.



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JACKSON COUNTY SHERIFF'S OFFICE

LOCATION RIPLEY, WV	SIZE 5,500 SF	COMPLETION 2015	COST \$1.6M
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The Jackson County Sheriff's Office was outgrowing their current facility, so a vacant lot was acquired adjacent to their existing building, which is located on the courthouse square in Ripley, WV.

The one-story sheriff's office is approximately 5,500 SF. The building functions as a full sheriff's office, as well as containing all home-confinement reporting necessities for the county.

An improved booking area contains two holding cells, a sally port garage space, an interview room, and all crucial processing equipment. The sheriff's office includes a conference room, advanced evidence storage, a work area for the deputies with room to grow, and personal offices for the sheriff, chief, captain, lieutenants, sergeants, and detectives. The public will enter through secured vestibules, while staff will have keycard access at entryways. This state-of-the-art building supports the Jackson County Sheriff's Department to serve the public more efficiently and effectively.





CLAUDIA L. WORKMAN FISH & WILDLIFE EDUCATION CENTER

LOCATION ALUM CREEK, WV	SIZE 7,000 SF	COMPLETION 2021	COST \$5M
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ZMM provided design services for the Education Center, which includes exhibits about West Virginia's native wildlife, including conservation, game management, forestry, stream restoration, and how to identify native plants and animals.

The center is located on 102 acres of land, along with the WVDNR District 5 Headquarters. ZMM's services included the development of the site and facility, as well as coordination with civil/environmental, exhibit design, and marketing team members. The facility, nestled in the beautiful landscape, concentrates on visitor and user experience, while creating a dynamic space to celebrate West Virginia's greatest natural treasures. One of the key concepts is to represent our wild and wonderful state by incorporating natural materials such as stone, a variety of woods, and natural finishes.

A central axis frames an inspiring view and sets the tone for the visitor with heavy timber, vaulted ceilings, and natural light. The northwest quadrant is dedicated to administration and classroom functions, while the southwest quadrant is composed of utilitarian spaces. The eastern half of the building is devoted to exhibit space. The angled walls and exterior glass create a vibrant exhibit space, as the outdoors become part of the exhibit, as a large, elevated deck spans across the landscape, creating the ultimate viewing platform for the breathtaking views of the Forks of Coal State Natural Area.





TUCKER COUNTY CONVENTION AND VISITOR CENTER

LOCATION
DAVIS, WV

SIZE
3,790 SF

COMPLETION
EST. 2026

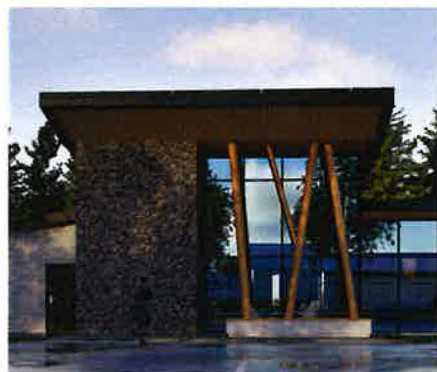
COST
\$2.3M

The New Tucker County Visitor Center serves as a welcoming gateway to the region, providing both visitors and locals with a space that reflects the spirit and landscape of Tucker County.

The Visitor Center includes a community gathering area, administrative offices, a large conference room, a business center, restroom facilities, and areas dedicated to travel information, local merchandise, and regional goods. The center also features an interactive exhibit that educates visitors about the county's rich natural and cultural heritage.

The architectural design draws direct inspiration from the surrounding environment. The building incorporates natural timber elements reminiscent of the native forests, complemented by dark stone veneer and warm wood ceilings that extend from the canopy into the interior. These materials create a seamless transition between the built environment and the natural landscape.

Expansive glass openings are strategically positioned to frame the site's scenic views while allowing ample natural light to flood the interior spaces. The resulting design fosters a strong connection between occupants and the outdoors, celebrating the beauty, texture, and character of Tucker County's natural environment.





BEECH FORK STATE PARK LODGE

LOCATION LAVALETTE, WV	COMPLETION TBD	COST \$28.49M
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The goal of the lodge study was to help determine the feasibility for a new lodge at Beech Fork.

This objective was achieved through the development of a concept for a 75-room lodge, located on the banks of Beech Fork Lake in Wayne County, WV, which is designed to benefit a variety of visitors. The form of the building was influenced by the site configuration, as well as the functions contained within it.

The floor plan is arranged in a way to separate the guestrooms and other guest-only facilities from the more public functions of the building, such as the restaurant, pub, gift shop, and meeting room. This allows visitors who may not be staying at the lodge to use these areas, without encroaching on the privacy of lodge guests. All of the guestrooms are arranged to have access to views of the lake. Those views are also shared by the restaurant, meeting room, and the recreation areas.

The exterior of the building is designed to simulate the craftsman style to evoke a more relaxed, comfortable, and informal feel for guests and visitors. The brick, stone, siding, and roof materials are common to the area and offer low-maintenance and durability to provide a long-lasting, attractive structure.





COOPERS ROCK STARGAZING CABINS

LOCATION
BRUCETON MILLS, WV

SIZE
800 SF EACH

COMPLETION
2025

AWARDS
2025 AIA WV HONOR AND CRAFTSMANSHIP AWARD

Coopers Rock State Forest's stargazing cabins offer a unique blend of modern comfort and immersive celestial experiences, featuring A-frame architecture, telescopes, and a prime location in one of the darkest sky regions on the East Coast, further positioning West Virginia as a premier destination for outdoor adventure and astrophotography.

Coopers Rock State Forest is revolutionizing outdoor lodging with West Virginia's first stargazing cabins, designed to provide an immersive celestial experience in one of the darkest sky regions on the East Coast. Strategically located along the main ridge between Raven Rock and the park's renowned overlook, these five A-frame cabins merge rustic charm with modern comfort, offering guests unparalleled views of the night sky. A direct result of the state's \$200 million investment in state park improvements, this project aligns with West Virginia's broader commitment to enhancing outdoor tourism, preserving natural landscapes, and supporting the state's growing reputation as a premier stargazing destination.

The A-frame architectural design harmonizes with the surrounding forest, featuring large, floor-to-ceiling windows and retractable skylights for an uninterrupted view of the cosmos. Each cabin is equipped with



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Stargazing Cabins (continued)

high-powered telescopes, spa-like amenities, and an energy-efficient design that ensures both comfort and sustainability. The strategic location of these cabins minimizes light pollution, enhancing visibility and tying into the state's larger "Dark Sky" initiative. The Coopers Rock Stargazing Cabins redefine outdoor adventure by blending modern innovation with nature's breathtaking beauty.

We are sure that guests will be excited to snap photos during their relaxing stay to share with friends, who undoubtedly will wish that they joined you on the trip!



ADDITIONAL EXPERIENCE

WVDNR Chief Logan Recreation Center - Metal Building Gymnasium addition - Logan, WV

Coonskin Park Maintenance Building - Charleston, WV

Marshall County Commission Elections/Storage Building - Moundsville, WV

WVARNG Camp Dawson STF Building - Kingwood, WV

WVDNR Hawks Nest State Park Miscellaneous Projects - Ansted, WV

WVDNR Twin Falls State Park - Lodge and Convention Expansion and Master Plan - Mullens, WV

WVDNR District V Headquarters Renovation - Alum Creek, WV

WVDNR Beech Fork Cabins - Lavalette, WV

WVDNR Tomblin Wildlife Management Area Shop, Elk Viewing Platform, and Visitor Center - Alum Creek, WV



PROJECT APPROACH

3



PROJECT UNDERSTANDING AND PROJECT APPROACH

PROJECT UNDERSTANDING

The West Virginia Division of Natural Resources (WVDNR) seeks professional engineering and architectural services to evaluate, design, specify, and provide construction administration for shooting range upgrades at Plum Orchard Lake Wildlife Management Area in Fayette County and Kanawha State Forest in Kanawha County. The goal is to provide safe, enjoyable, and versatile shooting facilities while minimizing environmental impacts, ecological disturbance, and project costs.

ZMM Architects and Engineers understands that successful delivery will require a coordinated approach to evaluating existing site conditions, identifying feasible improvements, navigating applicable permitting requirements, and developing complete construction documents that align with WVDNR's operational needs and project budget.

Our experience designing the Kanawha County Sheriff's Department Training Center, which includes indoor and outdoor firearms ranges, ballistic earthen berms, site development, drainage improvements, utilities, and environmental permitting, provides a strong foundation for understanding the technical and operational considerations associated with shooting range projects. On this project, ZMM worked directly with the Sheriff, whose specialized shooting range knowledge informed the range requirements and design. For the WVDNR projects, we will take a similarly collaborative approach, working closely with Agency personnel to understand operational needs and range-specific requirements. If additional specialized expertise is needed, we can supplement our team with qualified shooting range consultants based on the project's scope and WVDNR's preferences.

PROJECT APPROACH

2.1 Goal/Objective 1: Review Site Conditions and Evaluate Feasibility

Review site conditions and evaluate feasibility while communicating effectively with the owner to determine a plan that can be implemented in a manner that will minimize cost and ecological disturbance disruption and meet all objectives.

Project Initiation and Coordination

ZMM will begin with a project kickoff meeting with WVDNR representatives to confirm project objectives, operational requirements, desired improvements, budget expectations, schedule, and deliverables for both shooting range locations. We will establish clear communication procedures and work with the client to identify the appropriate WVDNR staff and stakeholders to participate in project reviews and decision-making.

During this phase, we will gather available site information, existing plans, maintenance records, previous studies, utility information, and other documentation relevant to the planned improvements. Early coordination will allow our team to identify outstanding information needs, establish priorities, and develop an efficient process for evaluating both sites.

Existing Conditions Assessment

Our team will conduct site visits to Plum Orchard Lake Wildlife Management Area and Kanawha State Forest to document existing conditions, understand current operations, and identify opportunities and constraints affecting the proposed improvements. The assessments will consider existing range configurations, access and circulation, parking, terrain, drainage patterns, utilities, surrounding land uses, vegetation, and other site features that may influence design.

Working with WVDNR personnel, we will evaluate existing facilities and identify deficiencies, maintenance needs, safety concerns, and opportunities to improve the functionality and versatility of each range. Our team will also assess the relationship between potential improvements and the surrounding natural environment, with particular attention to grading requirements, stormwater management, erosion potential, and opportunities to minimize disturbance to existing vegetation and natural resources.

Project Approach and Understanding (continued)

ZMM will work closely with WVDNR personnel to understand current range operations, user needs, safety considerations, and desired improvements. We recognize the value of the Agency's firsthand knowledge of its facilities and will incorporate that expertise into our assessment and recommendations. Where additional specialized shooting range expertise is needed, ZMM can engage a qualified consultant in coordination with WVDNR to address specific technical requirements.

Feasibility Analysis and Recommended Improvements

Following the site assessments, ZMM will evaluate potential improvement strategies for each location. We will work with WVDNR to compare alternatives based on safety, functionality, constructability, environmental considerations, long-term maintenance, and anticipated construction costs.

Our recommendations will prioritize practical, durable solutions that address immediate needs while allowing the facilities to accommodate a range of users and activities. We will identify potential permitting requirements and other regulatory considerations early in the process to reduce the risk of delays or costly design revisions.

Where additional technical expertise is needed to evaluate site-specific conditions or requirements, ZMM can engage qualified specialty consultants or coordinate with WVDNR-preferred providers. This flexible approach will allow the project team to obtain the necessary expertise while maintaining coordination, controlling costs, and avoiding unnecessary services.

The findings will be reviewed with WVDNR to confirm priorities and agree upon a preferred direction for each site. This collaborative process will establish a clear basis for design and help ensure that the final improvements reflect the Agency's objectives and available resources.

Goal/Objective 2: Design and Permit the Facilities

As a portion of this process outlined in Objective 1, provide all necessary services to design and permit the facilities described in this EOI in a manner that is consistent with The Division of Natural Resources needs, objectives, current law, and current code; while following the plan to design and execute the project within the project budget.

Design Development and Technical Coordination

Following approval of the recommended improvements, ZMM will advance the design for each shooting range through coordinated design development and construction documentation. Our in-house civil engineering, architectural, structural, electrical, and other applicable disciplines will work together to address the complete scope of site and facility improvements.

Design considerations will include grading and earthwork, access and circulation, parking, drainage and stormwater management, erosion and sediment control, utility coordination, and any associated structures or site amenities required by the approved program. Range-specific requirements will be developed in coordination with WVDNR personnel, drawing on their operational knowledge and experience with the facilities. If the approved scope requires additional specialized shooting range design expertise, ZMM can coordinate with a qualified consultant to address applicable range layout, ballistic containment, safety, and equipment requirements.

We will coordinate these elements to produce a cohesive design that emphasizes user safety, durability, ease of maintenance, and efficient construction. Materials and systems will be selected with consideration for outdoor exposure, routine use, long-term performance, and the operational demands of public shooting facilities.

Environmental Stewardship and Permitting

Environmental responsibility will be integrated throughout the design process. ZMM will evaluate site conditions and the potential effects of proposed improvements on existing vegetation, soils, drainage patterns, and other natural resources. Our approach will seek to limit unnecessary clearing and grading, control erosion, manage stormwater runoff, and minimize disturbance beyond the areas necessary to complete the work.

Based on the final scope and site conditions, ZMM will identify applicable regulatory requirements and coordinate the preparation of necessary permit applications and supporting documentation. Where specialized environmental assessments, investigations, or permitting services are required, we can engage qualified consultants or coordinate

Project Approach and Understanding (continued)

with WVDNR-preferred vendors to provide the necessary expertise. This approach allows the project team to address site-specific requirements efficiently while maintaining coordination among all parties and avoiding unnecessary services or costs.

ZMM will work closely with WVDNR and applicable regulatory agencies to incorporate relevant environmental and permitting requirements into the design and construction documents. Identifying these considerations early will help reduce the potential for delays, minimize environmental impacts, and support an efficient transition from design to construction.

Budget and Schedule Management

ZMM will maintain ongoing communication with WVDNR to ensure that design decisions remain aligned with project priorities and budget expectations. We will develop and update construction cost opinions as the design progresses, allowing the Agency to evaluate proposed improvements and make informed decisions before documents are finalized.



At key design milestones, our team will review the documents for completeness, coordination, constructability, and consistency with the approved scope. We will also evaluate opportunities to simplify construction, reduce unnecessary site disturbance, and select durable, maintainable solutions that support long-term value.

If cost estimates identify potential budget concerns, we will work with WVDNR to evaluate alternatives and refine the design while preserving the essential safety, functional, and environmental objectives of the project.

Goal/Objective 3: Construction Documents and Administration

Provide Construction Contract documents and Administration Services with competent professionals that ensure the project is constructed and functions as designed.

Construction Documents and Specifications

ZMM will prepare coordinated construction drawings and technical specifications for the approved improvements at both shooting range locations. The documents will define the required site work, facilities, materials, equipment, construction methods, and applicable performance requirements necessary for contractors to understand and execute the work.

Our team will coordinate the civil, architectural, structural, electrical, and other applicable design components with the shooting range consultant to ensure that range-specific requirements are integrated into the overall construction package. The documents will incorporate applicable codes, regulatory requirements, permitting conditions, and project-specific safety considerations.

Project Approach and Understanding (continued)

Bidding Assistance

ZMM will assist WVDNR during the bidding process by responding to technical questions, preparing addenda as necessary, and clarifying design intent to support a clear understanding of the construction requirements. We will work with the Agency to resolve questions that arise during procurement and help ensure that the bidding documents accurately communicate the intended scope of work.



Construction Administration and Project Closeout

During construction, ZMM will provide construction administration services to help verify that the work is progressing in general accordance with the approved construction documents. Our team will coordinate with WVDNR and the contractor to maintain timely communication, address technical questions, and resolve issues that arise during construction.

Services will include reviewing contractor submittals and shop drawings, responding to requests for information, evaluating proposed changes, attending construction progress meetings, and conducting site visits to observe progress and document relevant findings. We will coordinate with the specialized shooting range consultant as needed to address range-specific construction questions and review applicable safety and technical requirements.

At the conclusion of construction, ZMM will assist with punch-list preparation, substantial and final completion inspections, and project closeout. Our objective will be to help WVDNR achieve facilities that meet the approved design intent, satisfy the project requirements, and provide safe, durable, and maintainable shooting range environments for public use.

Quality Assurance and Quality Control

Quality assurance and quality control will be incorporated throughout the project rather than reserved for the final document review. ZMM will establish project requirements and design criteria at the outset, maintain regular coordination among disciplines, and conduct formal reviews at key design milestones.

Our reviews will evaluate technical accuracy, interdisciplinary coordination, applicable code and regulatory requirements, constructability, cost considerations, and consistency with WVDNR's approved objectives. The shooting range consultant will participate in reviews of the specialized range design elements to help ensure that safety, ballistic containment, and operational requirements are appropriately addressed.

During construction, our team will maintain organized communication and documentation procedures to track submittals, requests for information, design clarifications, and other project matters. This process will support timely decision-making, help minimize avoidable construction issues, and maintain continuity from initial planning through final completion. intent, satisfy the project requirements, and provide safe, durable, and maintainable shooting range environments for public use.

Project Approach and Understanding (continued)

Summary

ZMM Architects and Engineers offers WVDNR an integrated team with extensive experience serving state agencies and designing complex public safety, recreation, and site development projects throughout West Virginia. Our work on the Kanawha County Sheriff's Department Training Center provides directly relevant experience with firearms ranges, ballistic earthen berms, drainage, utilities, environmental permitting, and specialized range coordination. Combined with our established relationship with WVDNR and our ability to provide comprehensive architectural and engineering services in-house, this experience positions ZMM to deliver a coordinated, practical, and cost-conscious approach to the Plum Orchard Lake and Kanawha State Forest shooting range improvements.



Our commitment is to work collaboratively with WVDNR to develop safe, versatile facilities that respond to the needs of users, respect the surrounding environment, and provide lasting value through thoughtful design, complete construction documents, and responsive construction administration.

TEAM QUALIFICATIONS

4





ADAM KRASON

AIA, LEED AP, ALEP

Principal

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 and energy efficiency and has participated and presented at sustainable design seminars throughout the region. Mr. Krason is responsible for firm management, business development, and corporate philanthropy at ZMM. In addition to his role at ZMM, Mr. Krason is actively engaged in the community, serving on a variety of statewide and local civic and non-profit boards.

EDUCATION

Bachelor of Architecture
The Catholic University of America, 1998

Bachelor of Civil Engineering
The Catholic University of America, 1997

LICENSURE

Virginia, West Virginia, Ohio, Kentucky,
Maryland, New Jersey, North Carolina,
Louisiana

AFFILIATIONS

Association for Learning Environments (A4LE)
WV Board of Architects, President (2019 - Current)
American Institute of Architects,
Strategic Council (2033/23)
Charleston Area Alliance, Board Chair
Goodwill Industries of the Summit,
Past Board Chair
Clay Center, Board of Directors
WV Symphony Orchestra, Board of Directors
Charleston Urban Works, Board of Directors
Charleston Municipal Planning Commission
Charleston Historic Landmarks Commission
Education Alliance, Board Chair (2022/23)

PROJECT EXPERIENCE

WV State Laboratory - So. Charleston, WV

WV Department of Agriculture Laboratory Evaluations - Guthrie, WV

Capital Sports Center - Charleston, WV

Shawnee Sports Complex - Institute, WV

The Clay Center for the Arts and Sciences (Multiple Projects) - Charleston, WV

State Office Building #5, 10th Floor Renovation - Charleston, WV

Charleston Coliseum and Convention Center - Charleston, WV

Claudia L. Workman Fish and Wildlife Education Center - Alum Creek, WV

Wood County Justice Center - Parkersburg, WV

Wood County Resiliency Center - Parkersburg, WV

Construction and Facilities Management Office (WVARNG) - Charleston, WV

Joint Interagency Training and Education Center (WVARNG) - Kingwood, WV

Girl Scouts of Black Diamond Council - Charleston, WV

Goodwill Prosperity Center - Charleston, WV

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DAVID GILMORE

PLA, MBA

Director of Landscape Architecture and Site Development, Project Manager

David Gilmore brings more than 36 years of experience in land development and site civil design. David has extensive expertise in planning, design, management, and client development across public and private sector projects. He received his BSLA from West Virginia University and an MBA from Point Park University. David is a licensed landscape architect and is the past president of the WV Chapter of the American Society of Landscape Architects (WVASLA).

He has been recognized for his work by a variety of professional organizations including WVASLA and the American Institute of Architects - WV Chapter (AIA WV), has published articles and case studies, and has been a guest lecturer at his alma mater (WVU) and other professional conferences and events.

EDUCATION

Master of Business Administration
Emphasis in Management
Point Park University, 2015

Bachelor of Science in Landscape Architecture
West Virginia University, 1988

LICENSURE

Professional Landscape Architect - WV

AFFILIATIONS

American Society of Landscape Architects
(ASLA)

Council of Landscape Architectural Review
Board (CLARB)

Past WVASLA State Licensing Board Member

Past President, WVASLA

PROJECT EXPERIENCE

Haddad Riverfront Park - Charleston, WV *

John Slack Green Plaza - Charleston, WV *

Brawley Walkway Master Plan - Charleston, WV *

Haddad Riverfront Park - Charleston, WV *

Charleston Coliseum and Convention Center - Charleston, WV *

Hurricane Bridge Park Master Plan - Hurricane, WV *

Kanawha Boulevard Bikeway Greenway Master Plan - Charleston, WV *

Valley Park Master Plan - Hurricane, WV *

Putnam County Parks, Recreation, and Open Space Plan - Putnam County, WV *

Elk River Riverfront Park and Bike Trail - Charleston, WV *

Berry Hills Country Club Master Plan - Charleston, WV *

East End Community Park - Charleston, WV *

Upper Kanawha Valley Trail System - Kanawha County, WV *

Shoenbaum Performance Stage - Charleston, WV *

Herbert and Gloria Jones Recreational Trail - Charleston, WV *

CAMC General Employee Park - Charleston, WV *

* previous employment



NATHAN SPENCER

AIA

Senior Architect

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.

Nate 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.

PROJECT EXPERIENCE

Clay County Judicial Annex - Clay, WV

Kenova AFRC SCIF Building - Kenova, WV

Parkersburg Readiness Center (not built) - Parkersburg, WV

Logan-Mingo Readiness Center - Holden, WV

Buckhannon Readiness Center - Buckhannon, WV

Marshall Readiness Center - Moundsville, WV

AASF #1 and #2 Hangar Additions - Wheeling, WV

Mountaineer Challenge Academy South - Montgomery, WV

Morgantown Readiness Center - Morgantown, WV

Jackson County AFRC - Millwood, WV

Joint Interagency Training and Education Center (JITEC) - Kingwood, WV

Highland Hospital - Charleston, WV

Charleston Coliseum & Convention Center - Charleston, WV

Shawnee Sports Complex - Institute, WV

Tucker County Courthouse Annex - Parsons, WV

Judge Black Courthouse Annex - Parkersburg, WV

Intuit Prosperity Hub - Bluefield, WV

EDUCATION

Bachelor of Architecture
University of Tennessee, 2007

LICENSURE

West Virginia

AFFILIATIONS

WV Chapter, American Institute of Architects,
Member



CARLIE RAY

NCIDQ

Senior Interior Designer

Carlie serves as the Senior Interior Designer at ZMM. Carlie is a detail-oriented and creative professional with extensive knowledge in interior architecture. Carlie's goal with every project is to create a beautiful and functional environment that suits the client's needs. As an interior designer, her background includes commercial properties, education, healthcare, historic adaptive reuse, residential properties, existing building renovations, and hospitality design.

Carlie has experience managing a variety of project elements including interior space planning, finish and fixture selection, creating concept presentations, rendering 3D models, and producing construction documents to ensure that each project seamlessly transitions from concept to reality.

EDUCATION

Bachelor of Science in Interior Design
West Virginia University, 2017

AFFILIATIONS

NCIDQ Certification ID#35513

West Virginia University - Interior
Architecture Advisory Board Member

PROJECT EXPERIENCE

Tucker County Convention and Visitors Center - Davis, WV

WVDNR Coopers Rock Stargazing Cabins - Bruceton Mills, WV

WVDNR Beech Fork State Park Cabins - Lavalette, WV

Williamson Health and Wellness Renovation - Williamson, WV

New River Health - Oak Hill, WV

WVSOM Community Health Center - Lewisburg, WV

Capital Sports Center - Charleston, WV

National Weather Service Building - Charleston, WV

Coonskin Park Clubhouse Renovations - Charleston, WV

KRT New Laidley Transit Ticket Booth - Charleston, WV

Wood County Resiliency Center - Parkersburg, WV

WVARNG Buckhannon Readiness Center Addition - Buckhannon, WV

Goodwill Industries - Parkersburg, WV

Salvation Army - Beckley, WV

Steptoe & Johnson Law Office Renovation - Charleston, WV

WV Schools for the Deaf and the Blind - Romney, WV

Woody Williams Center for Advanced Learning and Careers -
Barboursville, WV



JOHN PRUETT

PE, LEED AP

Director of Engineering

Mr. Pruett is responsible for overseeing the design of the HVAC systems, ensuring that the HVAC systems meet the program requirements, and 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. Mr. Pruett coordinates with other disciplines 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 engineering career with a manufacturing company in 1994. In 1998, he made a career change and joined an engineering consulting firm. He has a broad range of experience in HVAC systems design, including government, education, office buildings, 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.

EDUCATION

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

LICENSURE

West Virginia, Virginia, Indiana, Maryland,
Louisiana

LEED Accredited Professional

AFFILIATIONS

American Society of Heating, Refrigerating
and Air-Conditioning Engineers (ASHRAE),
Member

United States Marine Corps - 14 Years

PROJECT EXPERIENCE

WVDNR District 5 Headquarters - Alum Creek, WV

WV State Police Headquarters - South Charleston, WV

Wood County Resiliency Center - Parkersburg, WV

WV State Capitol Renovations - Charleston, WV

General Services Division Surplus Property - Dunbar, WV

WV Housing Development Fund Office Building - Charleston, WV

Tucker County Courthouse Renovations - Parsons, WV

Gilmer County Courthouse Renovations - Glenville, WV

St. Margaret's Judicial Center 3rd Floor Renovations - Martinsburg, WV

Jackson County Maintenance and Transportation - Ripley, WV

Jackson County EMS Building - Ripley, WV

WV Army National Guard

- Camp Dawson Building 245
- Camp Dawson Building 246
- Camp Dawson Building 301
- Camp Dawson Mail Facility
- Marshall County Readiness
- Camp Dawson Job Challenge Academy



FRANKIE KANTSIOS

PE

Electrical Engineer

As an electrical engineer, Mr. Kantsios is consistently motivated to adapt to the team's needs in assessing and finalizing the project on time. He is an experienced professional with a proven record of managing projects from concept to completion while supporting the unique needs for the specific project at hand. By carrying out engineering and design services for a diverse field of projects since 2013, Mr. Kantsios has expanded his knowledge and understanding of the industry. He has been actively involved in the design of a wide array of new structures and renovations to include K-12 educational buildings, higher education buildings, healthcare facilities, office buildings, banks, restaurants, hotels, automotive dealerships and service centers, apartment complexes and dorms, industrial facilities and warehouses, and athletic facilities. Mr. Kantsios excels at creating effective solutions and developing opportunities that further establish organizational goals.

EDUCATION

Bachelor of Science
Old Dominion University, 2019

Associate of Applied Science
New River Community College, 2016

LICENSURE

Virginia, West Virginia, Ohio

PROJECT EXPERIENCE

WV Regional Technology Park - Charleston, WV

- Street Lighting Replacement

West Side/Elk City Street Lighting Replacement - Charleston, WV

WV General Services - Charleston, WV

- Building 31 Parking Garage Lighting and Security Replacement
- Building 35 Lightning Protection Replacement
- Building 37 HVAC Replacement and Energy Improvements

Remington (TC Energy) Office Building - Charleston, WV

Goodwill Industries of Kanawha Valley - Charleston, WV

HOPE Community Center - Charleston, WV

Trace Fork Soccer Complex Improvements - Charleston, WV

Nicholas County Schools - Nicholas County, WV

- Glade Creek Elementary School

Raleigh County Schools - Raleigh County, WV

- Shady Spring Elementary School Access Road

Mineral County Schools - Mineral County, WV

- New Frankfort PK-4 School Site Design

Jefferson County Schools - Jefferson County, WV

- New Ranson Elementary School
- New Shepherdstown Elementary School



KARSEN SHANNON

Electrical Designer (EIT)

Mr. Shannon is a certified Engineer-in-Training (EIT) with experience as a commercial electrical designer, delivering innovative, efficient, and cost-effective solutions for diverse projects. Specializing in schools and technical career centers, Mr. Shannon excels in collaborating with multidisciplinary teams, including HVAC, plumbing, architectural, civil, and interior designers, effectively communicating with designers inside and outside the firm. Known for optimism, punctuality, and adaptability, Mr. Shannon ensures seamless integration of electrical systems to meet project demands and enhance functionality, while training under an experienced, licensed electrical professional engineer (PE).

EDUCATION

Bachelor of Science in Electrical Engineering
West Virginia University Institute of
Technology, 2023

AFFILIATIONS

The Tech Golden Bear Alumni Association
Tau Beta Pi - Engineering Honor Society

PROJECT EXPERIENCE

Capital Sports Center - Charleston, WV

Remington (TC Energy) Office Building - Charleston, WV

Edgewood Country Club - Charleston, WV

WV Consolidated Laboratory - Charleston, WV

Wood County 911 Center Fence Area - Parkersburg, WV

WVDNR Cooper's Rock Residence and Linens Building - Bruceton Mills, WV

Woody Williams Center for Advanced Learning and Careers -
Barboursville, WV

Calhoun-Gilmer Career Center - Grantsville, WV

Marshall University Multiple Projects - Huntington, WV

West Virginia State University - Institute, WV
- Hamblin Hall Elevators
- Sullivan Hall Elevators

WV School of Osteopathic Medicine - Lewisburg, WV

Roane-Jackson Technical Center - Leroy, WV
- HVAC
- Electrical Lab Building

Hurricane High School HVAC - Hurricane, WV

Mountwest CTC Deferred Maintenance - Huntington, WV



JEFFREY BRUNS

SE, LEED AP

Structural Engineer

Mr. Bruns has a distinct understanding of built structures that enables him to develop and incorporate his designs with our comprehensive team of architects and engineers. He has worked on a wide range of project types from structural design to failure analysis of the building.

EDUCATION

Colorado State University, Fort Collins,
Bachelor of Civil Engineering

University of Illinois at Urbana-Champaign,
Master of Civil Engineering

LICENSURE

Structural Engineer - Multiple States

Structural Engineering Certification Board

LEED Accredited Professional

AFFILIATIONS

American Society of Civil Engineers

Structural Engineers Association of Illinois

American Concrete Institute

PROJECT EXPERIENCE

Oswego Community Unit School District 308 - Oswego, IL
- Southbury Elementary School and Early Childhood Center
- Bednarcik Junior High School
- Karl Plank Junior High School
- Hunt Club Elementary School
- Thompson Junior High School Addition and Renovation
- Traugher Junior high School Addition and Renovation
- Oswego East High School Expansions
- Oswego High School Addition and Renovation

Davinci Academy - Elgin, IL
- Classroom and Front Entry Renovation

Elgin Area School District - Elgin, IL
- Bartlett High School
- Multiple Elementary School Additions
- Multiple New Elementary Schools
- Multiple Middle Schools

Elgin Community College - Elgin, IL
- Health and Life Sciences Center (LEED Silver Certified)
- Health and Business Technology Center
- Health and Business Technology Chemistry Labs Addition
- Health and Business Technology Greenhouse Addition
- Student Resource Center Addition and Renovation

CLIENT REFERENCES

5



CLIENT REFERENCES

Robert Kilpatrick, Director

General Services Division of WV
103 Michigan Ave
Charleston, WV 25311
304.352.5491 office

Todd Reynolds, Deputy Branch Chief

WVARNG
1707 Coonskin Drive
Charleston, WV 25311
304.380.7226 cell

Ben Salango, Commission President

Kanawha County Commission
409 Virginia Street East
Charleston, WV 25301
304-357-0109 office



Thank You

FOR REVIEWING THIS MATERIAL.

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