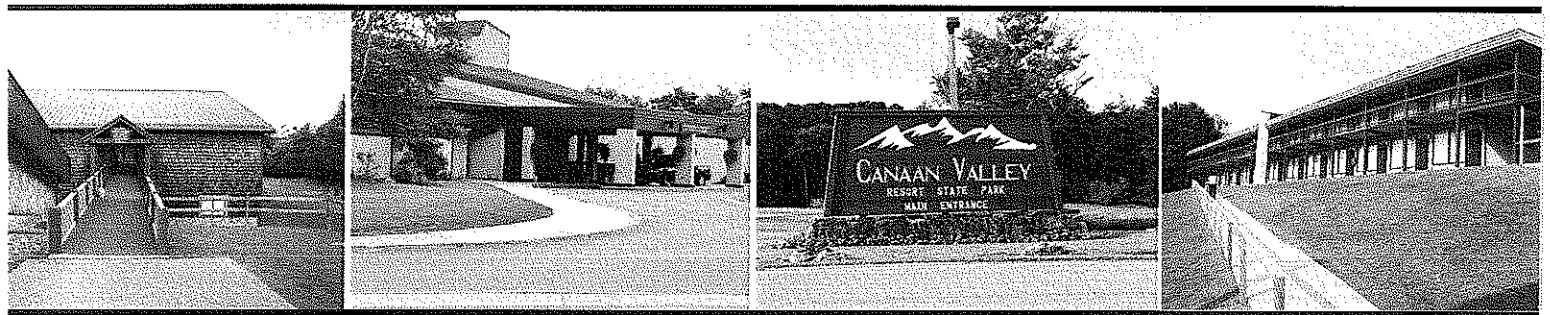


Expression of Interest
for:
Canaan Valley Resort State Park
RFQ#DNRB11006



31 - August - 2010

RECEIVED

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PURCHASING DIVISION
STATE OF WV



ARCHITECTS & ENGINEERS

August 30, 2010

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

**Subject: Canaan Valley Resort State Park, WV Division of Natural Resources
Sleeping Unit Replacements and Other Improvements
Requisition DNR#211006**

Dear Mr. Whittaker:

ZMM is pleased to submit the attached information to demonstrate both our experience and our capability to provide professional architectural and engineering services for the Canaan Valley Resort Improvements for the West Virginia Division of Natural Resources Parks & Recreation Section. **ZMM** has been providing design services at Canaan Valley State Park since 1968, when the firm was selected to design site improvements, a new lodge, park cabins, a golf clubhouse, a ski base facility, and the park headquarters building. While many of the improvements and new facilities were constructed and remain operational, the lodge designed by **ZMM** was never constructed. We are confident that our experience working at Canaan, our commitment to creating innovative and award winning facilities, and our efforts to implement sustainable design and construction principles will make **ZMM** a great partner for the WV Division of Natural Resources as you work to improve the facilities at Canaan Valley Resort State Park.

Please note that **ZMM** will collaborate with EL Robinson Engineering for site, landscape, and civil design on this project, including increasing the potable water supply, repairs to various parking lots, construction of a shooting range, as well as installation of a conveyor type lift to the lower ski lift area. EL Robinson is a locally owned, service oriented, multi-disciplined engineering/planning firm located in Charleston. EL Robinson's effort will be led by Mr. Jeff Nelsen, RLA. Projects demonstrating EL Robinson Engineering's experience with the WV Division of Natural Resources are included in the attached information.



Mr. Frank Whittaker, Senior Buyer

August 30, 2010

Page 2 of 2

Since 1959, **ZMM** has been consistently recognized as one of the largest, fully integrated, architecture and engineering firms in the State of West Virginia, and the quality of our design work has been recognized with both state and national design awards. We are an organization of creative professionals with the common interest of working with our clients to design and engineer innovative and cost effective buildings. Our commitment to providing high quality, budget conscious design solutions for our clients has been demonstrated on past projects for the West Virginia Division of Natural Resources, including work at Canaan Valley, Blackwater Falls, Cacapon, Twin Falls, Beech Fork, Pipestem, and Hawks Nest State Parks.

Thank you for taking the time to review the attached brochure that outlines detailed information regarding the history, services, personnel, experience, and qualifications of **ZMM**. Additionally, please visit our website at www.zmm.com to see the full range of projects that we have designed, 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 Canaan Valley Resort State Park improvements in more detail.

Respectfully submitted,

ZMM, Inc.



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

Canaan Valley Resort State Park - Sleeping Unit Replacement / Improvements
Architectural and Engineering Services
RFQ# DNRB11006

Table of Contents

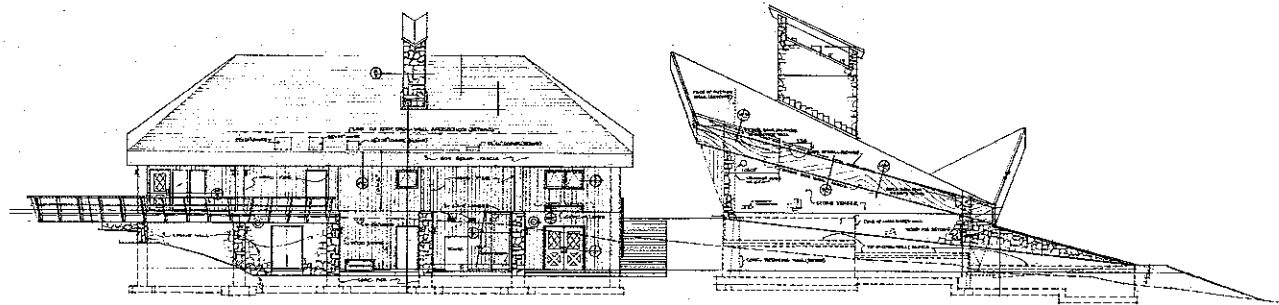
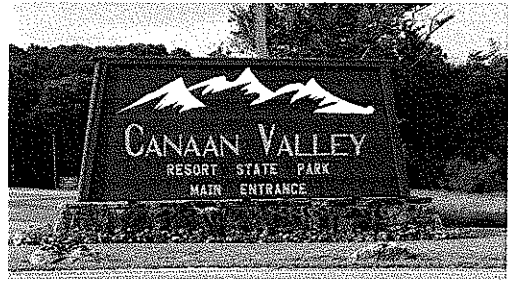
- **Section #1: Project Approach**
Statement of Project Understanding
- **Section #2: History**
ZMM Firm Profile
E.L. Robinson Firm Profile
Professional Services
- **Section #3: Experience**
Relevant Projects
- **Section #4: Your Team**
Resumes
- **Section #5: Sustainability**
LEED Accredited Personnel
Current LEED Projects
- **Section #6: Award Winning Design**
Honors and Awards



Canaan Valley Resort State Park Sleeping Unit Replacement and Other Improvements

Statement of Project Understanding

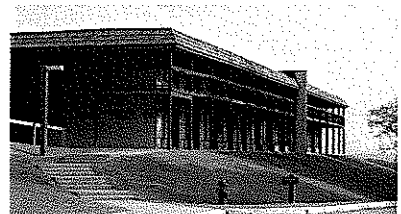
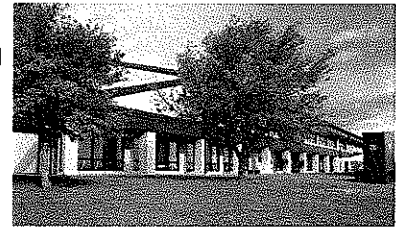
ZMM has a long history of providing design services at Canaan Valley State Park. In 1968, the firm was selected to provide design services for site improvements, a new lodge, park cabins, a golf clubhouse, a ski base facility, and the park headquarters building. While many of the improvements and new facilities were constructed and remain operational, the lodge designed by **ZMM** was never constructed. The original lodge concept developed by **ZMM** included 60 guest rooms, a convention facility capable of



seating 300, a kitchen and dining area, as well as an indoor pool.

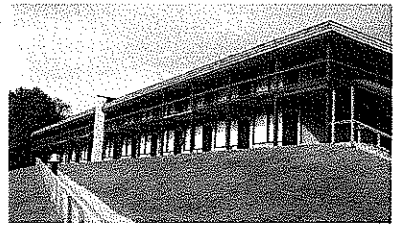
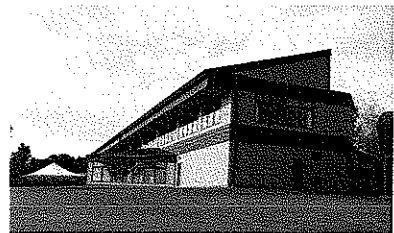
While the original design was not implemented, a main lodge with five satellite sleeping facilities was constructed in the mid-1970's. The current facilities are called the Canaan Main Lodge, the Raven Lodge, the Wild Goose Lodge, the Deer Lodge, the Woodcock Lodge, and the Beaver Lodge. **ZMM** recently visited the facility to assess the condition, and to consider various approaches for the current sleeping unit replacement project. Additionally, **ZMM** has reviewed the January 2010 report prepared by CAS Structural Engineering, which notes that:

- The sleeping units are prefabricated, with a conventional footing and block foundation walls; however the foundation walls appear to be unreinforced.
- Structural steel with a poured concrete deck was used to construct the second level balconies, many of which are experience structural failures. The foundations for the steel frames are not located below the frost line. Some of the steel columns are being used as downspouts, and are filled with standing water.
- Mold/algae growth was observed in the crawlspaces.
- The firewall is unreinforced, and shows signs of movement and deterioration.
- Suggested improvements for the Raven and Wild Goose Lodges are estimated to cost approximately \$730K, and include foundation reinforcement, reconstruction of the second floor balcony, and the elimination of the exposed portion of the firewall.
- Based upon our review of the CAS investigation, as well as our assessment during our visit to the site, all five of the lodging facilities, as well as the main lodge and the covered walkways require significant improvement. As noted in the RFQ, the goal of the lodge improvement is to construct 100 new rooms, and renovate 50 existing rooms (one existing lodge). The final result will be a reduction in the total capacity of the lodge from 250 to 150 rooms.



Several challenges exist in the development of the new facilities. The first challenge is the topography, and access to the existing lodges. Additionally, if the new guest rooms are connected to the main lodge, the location of the existing kitchen and dining area, as well as the service entry to the building are also a potential constraint. Since the Canaan Main Lodge is remaining intact, the design of the new guest rooms must also be designed to blend seamlessly with the existing construction.

- If selected to provide design services for the project, **ZMM** would recommend investigating the following options for the lodges:
- Evaluate the economy of scale of constructing 150 new guest rooms as opposed to constructing 100 new rooms and renovating 50 rooms. It is possible that the overall project cost would be similar for both scenarios.
- If any of the existing lodges are renovated, consider renovating the existing lodges into suites by combining rooms.
- Consider connecting all new rooms to the existing lodge to improve circulation and ease of guest access to the available amenities. This approach may require renovations to the existing lodge.
- Consider improvement to the entry/registration area. If a new lodge is developed for 100-150 rooms, the overall entry point to Canaan Valley may be relocated away from the existing Main Lodge to the new lodge. Relocating the registration into the new construction could drastically improve the presence of Canaan Valley Lodge, and improve access to the guest rooms.
- Consider various phasing options to ensure that Canaan Valley Lodge remains accessible to guests throughout the construction process.



In addition to the lodge improvements, the proposed project also includes several major site improvements, including: construction of a "Magic Carpet" type surface conveyor to move skiers to the lower ski lift area; construction of a Wobble Clay shooting range; construction of an additional water well; and repairs to several parking lots.



HISTORY AND PHILOSOPHY of ZMM



LOCATION:

222 Lee Street, West
Charleston, WV

CONTACT:

Phone 304.342.0159
Fax 304.345.8144
www.zmm.com

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

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

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



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

HISTORY AND PHILOSOPHY of ZMM

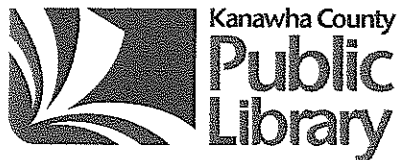


As ZMM enters our second half-century providing professional design services in West Virginia, we remain committed to the ideal of providing high quality, client focused, design solutions that meet budget and schedule requirements. This commitment to quality has been recognized through both State and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

COMMUNITY SUPPORT

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

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



FIRM PROFILE

E.L.ROBINSON

the Challenge. the Choice. ..

LOCATION:

5088 Washington St.,
West
Charleston, WV 25313

CONTACT:

Phone 304.776.7473
Fax 304.776.7473
www.elrobinson.com
1.800.856.6485

E.L. Robinson is a multi-disciplined engineering /planning firm with a staff of over 100 full-time professionals and support personnel located in six offices throughout West Virginia (Charleston, Beckley and Chapmanville), Kentucky, and Ohio. Over the last 30 years, E.L. Robinson has grown to one of the largest firms in the region, offering a diverse scope of services. Since 1978, E.L. Robinson has provided a full range of quality engineering services, from planning and analysis to design and implementation

Named for its founder and president, Edward L. Robinson, P.E., P.S., the firm has based its success on a commitment to quality projects with superior client service. Finding new and creative ways to say yes to challenges has brought the firm's vision of excellence into reality. Along with this "yes, we can do it" attitude, the firm has grown to understand the ingredients of a professional service firm include not only brick and mortar, but also leading edge technology and a talented, motivated staff that is continually growing and advancing their skills.

The use of technology has allowed the firm to expand engineering capabilities and make use of new resources such as satellite imagery and digital mapping. In addition to the use of technology, E.L. Robinson also continues to strive to invent new and more effective ways to serve our clients. One of these ways is to provide a thorough pre-analysis of every project, saving the client time, money, and legal exposure. When the client is educated on every phase of the job and every challenge, the reputation of the firm grows stronger and attracts business from a larger marketplace.

E.L. Robinson has been providing its clients with quality products and superior service since 1978. Our staff combines state-of-the-art technology, experienced professionals, and innovative methods to help our clients meet their challenges.

- **Transportation**
- **Infrastructure**
- **Bridge Design**
- **Structural Engineering**
- **Geotechnical Engineering**
- **Environmental Engineering**
- **Site Development**
- **Right-of-Way Services**
- **Construction Administration/Observation**
- **Surveying/Global Positioning**
- **Landscape Architecture**

PROFESSIONAL SERVICES



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

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

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

PRE-DESIGN

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

Executive Summary		Index (Pages)
National Guard Bureau	Area (GSF)	
Existing	10,414	
Sub Total (GSF)	10,414	
Department of Energy	Area (GSF)	
Existing	1,700	
Expansion	15,411	
Administration Building	1,500	
Analysis	300	
Current Building	1,800	
Sub Total (GSF)	27,721	
AFRC	Area (GSF)	
Existing	13,100	
Expansion	1,000	
New Training	1,000	
Current Building	1,000	
Sub Total (GSF)	16,100	
Joint Interservice Training Center / East	Area (GSF)	
Existing	1,700	
Expansion	1,000	
Current Building	1,000	
Sub Total (GSF)	3,700	
Blending	Area (GSF)	
Existing	1,000	
Sub Total (GSF)	1,000	
Total Building Area	Area (GSF)	
National Guard Bureau	10,414	
Department of Energy	27,721	
AFRC	16,100	
Joint Interservice Training Center	3,700	
Blending	1,000	
Total (GSF)	59,935	



PROFESSIONAL SERVICES



DESIGN

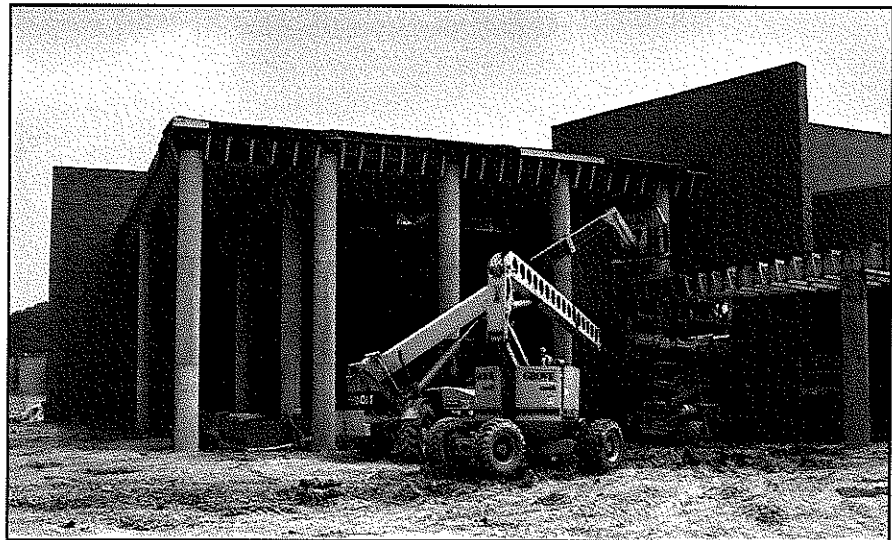
Architectural Design
Sustainable Design
Interior Design
Landscape Architecture
Structural Engineering
Mechanical Engineering

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

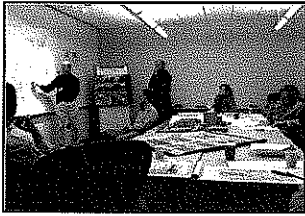


POST DESIGN

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



QUALITY ASSURANCE



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

1. Selecting the Project Team

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

2. Identifying Project Requirements

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

3. Identifying Client Expectations

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

4. Ongoing Project Reviews

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

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

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

5. Post Project Review

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

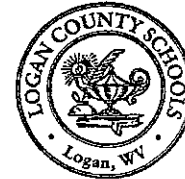
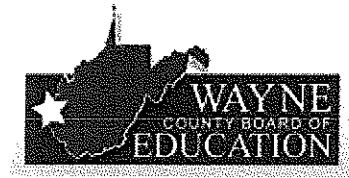
6. Staff Training, Assessment and Enhancement

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

QUALITY ASSURANCE



The quality of our work is key to our continued success and repeat client base.



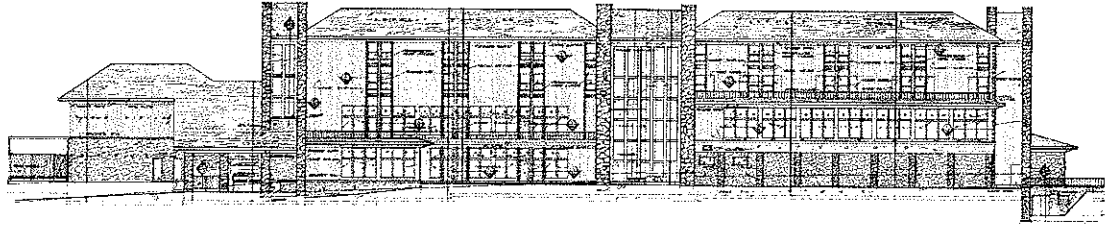
Canaan Valley State Park, State Park Lodge

WV Department of Natural Resources



LOCATION:
Davis, West Virginia

COMPLETION:
Un-Built Project



In 1968 ZMM was selected to provide design services for a variety of facilities at Canaan Valley State Park. Many of the facilities remain actively utilized. A description of the various components can be found below.

Lodge Facility

An original design for a four-story lodge and convention facility containing 60 guest rooms, dining, and kitchen facilities, a conference facility seating 300, an indoor pool and support space, was not constructed. Funding restraints required the construction of a lodge of reduced scope.

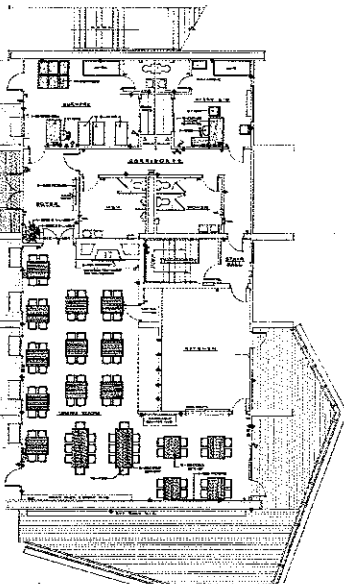
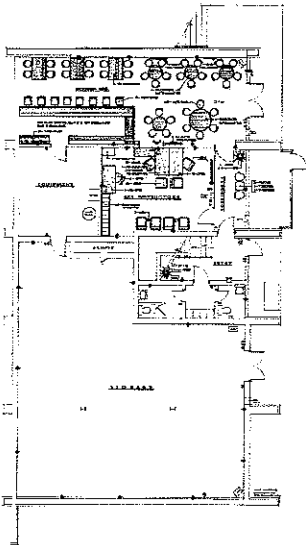
The original design concept utilized masonry bearing walls and a precast floor system with exterior materials of stone and wood to reflect the natural environment and concept of the park. Each guest room was designed to contain two double beds, bath, and toilets facilities.

Other Facilities

- New Park Cabins
- Golf Club House
- Ski Base Facility
- Park Headquarters Building

These one and two-story buildings were designed to withstand the harsh winter climate of Canaan Valley and are of wood frame and stone masonry construction. Exposed laminated wood beams are used in selected areas for aesthetic and structural purposes. Native materials, both for interior and exterior applications, have been used to help the buildings blend in with their surroundings.

Each building has its own, energy efficient, heating and cooling system, which on concert with the well insulated walls and roof keep overall energy costs to a minimum. The buildings were, each, situated on their respective sites to create a minimum of site disruption.



Joint Interagency Training & Education Center

WVARNG - Billeting (Hotel)



LOCATION:
Kingwood, West Virginia

SIZE:
285,000 SF

COMPLETION:
Est. 2012

COST:
\$110 Million

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



ZMM, in association with AECOM, is providing architectural and engineering design services for the Joint Interagency Training and Education Center (JITEC), an Army National Guard campus-style facility for training and operational mission support. Sited on 30 acres at the northern end of Camp Dawson between the Cheat River and the foot of Brier Mountain, this 283,000-SF project includes the design of a new operations building; expansion of the billeting facility; renovation of the training facility; creation of a new base entry checkpoint and visitor center; and design for walkway connectors between all the facilities.

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

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

The new facilities are designed to meet all anti-terrorism/force protection criteria and are slated for LEED-NC silver certification from the U.S. Green Building Council. The new 82,000-SF operations building is prominently sited as the main focal point upon entering Camp Dawson through the secure access control point and visitor's center, also designed by AECOM. The building's exterior complements its West Virginia setting. The entire building front, composed of glass and pre-cast concrete walls, is open and inviting with glazing that reflects the surrounding trees and hills. Security requirements for the command center influenced the design of the attached, copper-clad "black box" that is an homage to the native rock stratification seen throughout the state.

The building consists of four distinct areas: the Joint Operations Center; a suite of secure training rooms; base headquarters and JITEC administrative offices; and a 6,000-SF server and telecommunications room.



Joint Interagency Training & Education Center

WVARNG - Billeting (Hotel)



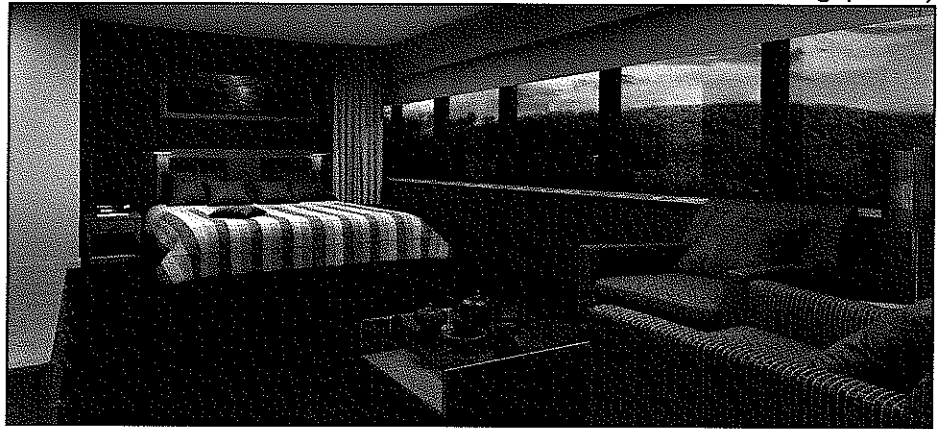
LOCATION:
Kingwood, West Virginia

SIZE:
285,000 SF

COMPLETION:
Est. 2012

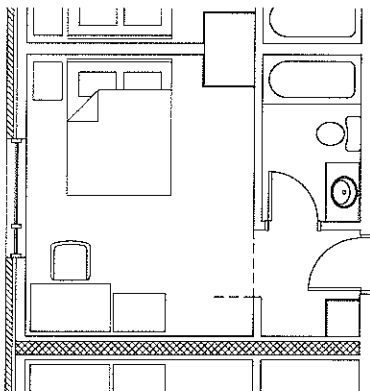
COST:
\$110 Million

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



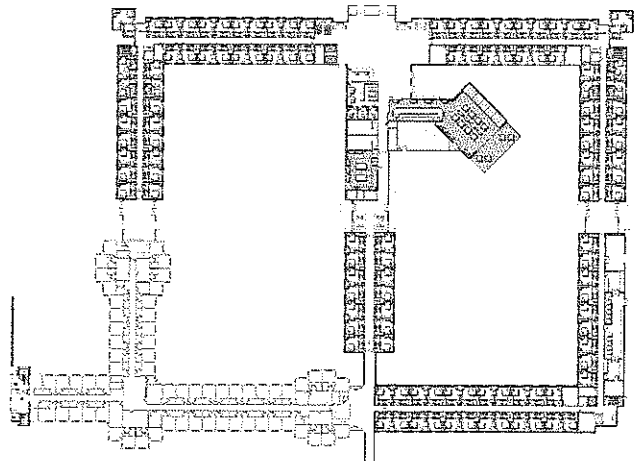
Entry to the Joint Operations Center (JOC) is provided by a secure mantrap adjacent to a dedicated security office. Built to SCIF standards, the JOC contains a state of the art command center housing 48 permanent work stations in a theater-style configuration facing a large video wall, flanked by conference rooms and offices for both officers and support staff. Within the JOC is a secure area consisting of workstations, offices, and two divisible conference rooms with secure video conferencing capabilities. The secure area construction dictates a windowless environment, requiring proper lighting and creative use of materials to create an agreeable work atmosphere.

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



The 180,000-SF billeting (hotel) expansion more than triples the facility size and increases the total capacity from 189 guest rooms to 600 guest rooms and suites. Designed to relate to the existing architecture with similar scale, materials, textures, and massing, the addition also brings in new elements, such as

iconic glazed building corner elements, to integrate the design of the new operations building. A new dedicated lobby with terrazzo tile flooring leads to a monumental stair with terrazzo treads, open risers, and a glass/stainless steel railing for access to the open lounge areas on the second and third floors.



The lobby's design provides a hotel atmosphere, underscored by the new Liberty Lounge, an upscale bar and restaurant area, with wood finishes salvaged from the gymnasium floor in the existing headquarters building. The new six "executive suites", are designed to the full amenities of corporate hotels.

Stonewall Jackson Lake

US Army Corps of Engineers

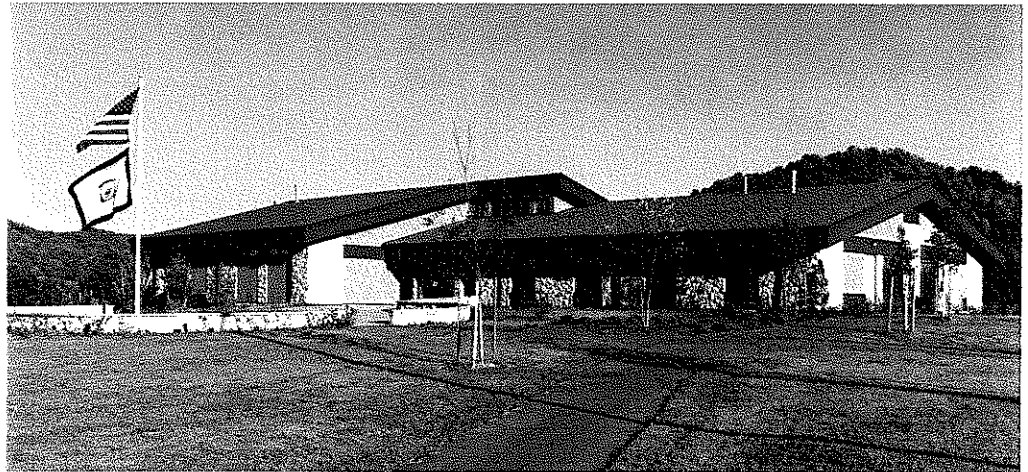


LOCATION:
Lewis, West Virginia

COMPLETION:
1986

COST:
\$15M

CONTACT:
Mr. McDonald Smith
940 Resort Drive
Roanoke, WV 26447
304.637.0300



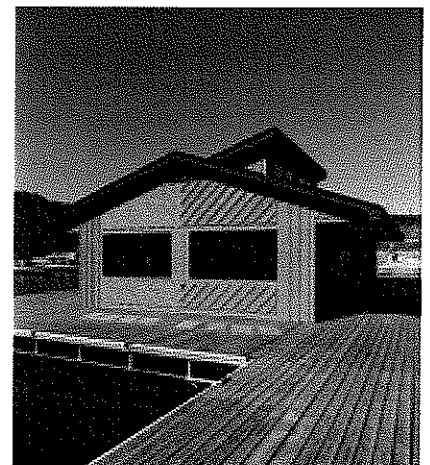
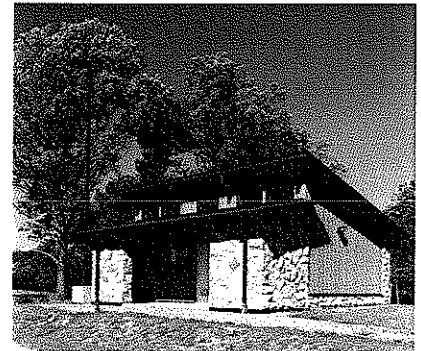
The project included site development of approximately 200 acres of land adjacent to Stonewall Jackson Lake in Lewis County, West Virginia. ZMM, Inc. provided all of the site development design including the roadway systems, parking, electrical power distribution to all facilities, sewage treatment plant and sewage lines serving all facilities, as well as a water treatment plant and water distribution system to the various buildings on the site.

Additionally ZMM Designed an 8,000 SF Visitors Center which includes an auditorium, display museum area and administrative space.

An 11,000 SF Multi-Purpose Building which includes seminar and meeting rooms, and space for various indoor gatherings, recreational and sporting activities.

A bath house that serves the campground area, rest rooms that serve the general park population, camp sites and a picnic shelter.

All structures at the park are single story buildings, constructed of stone and wood exterior facing materials. Laminated wood timber framing is featured for the structural systems, and zoned heating and cooling systems provide for environmental control.



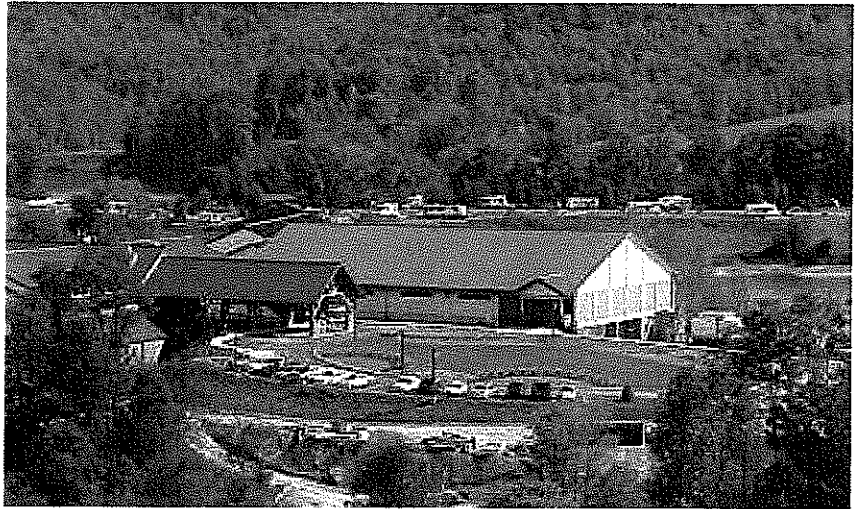
Stonewall Jackson Lake Resort

E.L. ROBINSON

the Challenge. the Choice.

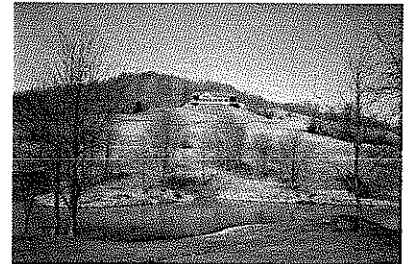
LOCATION:
Weston, West Virginia

CLIENT:
McCabe-Henley Properties for West Virginia State Parks



Stonewall Jackson Lake State Park represents a new beginning for state supported recreation development in West Virginia. The 35 million dollar Resort planned by E.L. Robinson's landscape architects as part of the developer's team, was the first public/private partnership formed in the state for the development of facilities at a state park. The developer was responsible for coordinating all design and construction activity, while the state assisted in the financing package.

ELR landscape architects were responsible for master planning and site construction design for the 2,000 acre resort, including a 180-room lodge, an 18-hole signature golf course by Palmer Course Design Co., a 100-unit campground, cabins, day use improvements, a swimming pool, trails, access and parking. The firm was also responsible for permit coordination with the various state and federal agencies for wetlands, riparian corridors, utilities, stormwater and erosion controls. An extensive tree preservation and relocation program was planned and was coordinated by the firm.



Stonewall Jackson Lake Resort

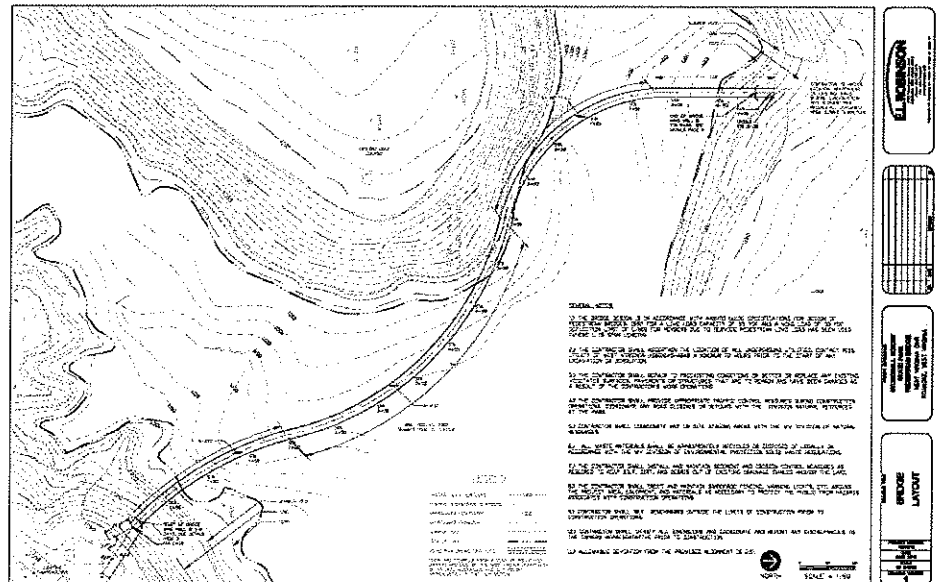
Pedestrian Bridge



the Challenge. the Choice.

LOCATION:
Weston, West Virginia

CLIENT:
WV Division of Natural
Resources



West Virginia DNR received grant to build a pedestrian bridge approximately 900 feet across the lake from the lodge to the campground. An initial concept plan was developed for the bridge in 2008 which serves as the basis of the final design which EL Robinson was retained to develop.

It will be a 10' wide timber pile bridge with appropriate wooden decking and handrail. The accessible approach on the lodge side is complete and the contractor will be required to connect the bridge to that existing approach. At the campground end of the bridge an alignment will be shown on the plans that will allow for the Resort to build that accessible approach separate from the bridge construction.



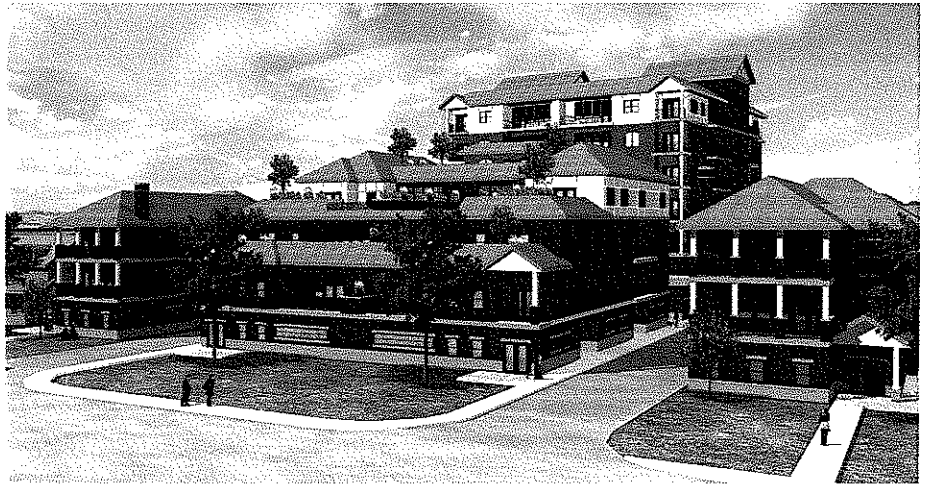
The Boulevard at 2412

Multi-Unit Housing

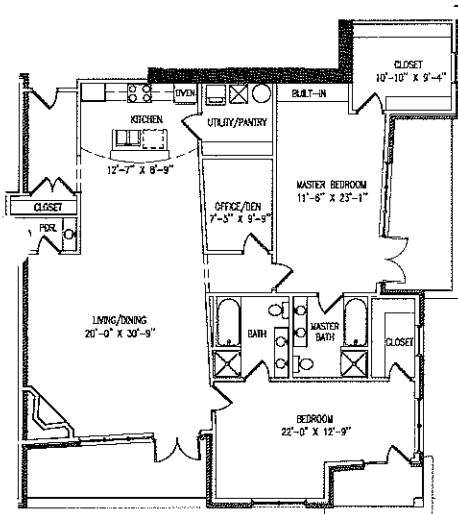


LOCATION:
Charleston, West Virginia

CONTACT:
2412 Kanawha Blvd, East
Charleston, WV 25311
304.343.2412



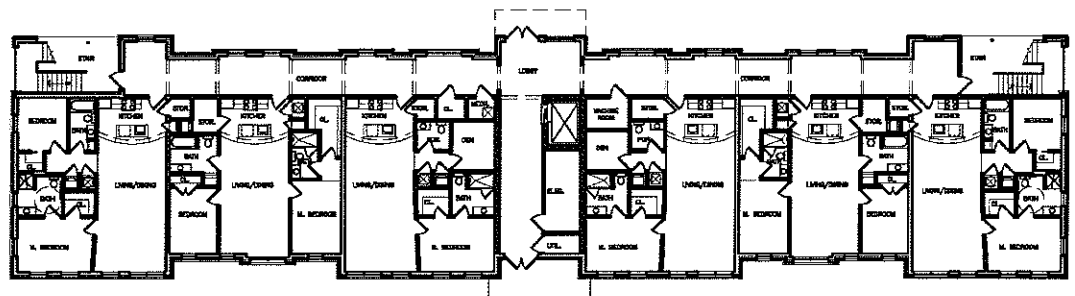
The Boulevard @ 2412 is a proposed mixed-use development on Kanawha Boulevard located in Charleston's East End. When completed, the development will include the construction of sixty new residential units and professional office space.



The scope of the development encompasses nearly one-half of the city block between Chesapeake Avenue, East Avenue, Kanawha Boulevard, and Washington Street East. Four of the twenty lots targeted for development fall within the East End Historic District.

The following features have been included in the conceptual design to integrate the development into the East End Historic District:

- The building massing has been broken down into a series of smaller volumes, making the overall plan more compatible with existing structures in the neighborhood. The design was developed with a goal of maintaining a residential scale along Kanawha Boulevard.
- Off street parking has been developed primarily to the rear of new



The Boulevard at 2412

Multi-Unit Housing



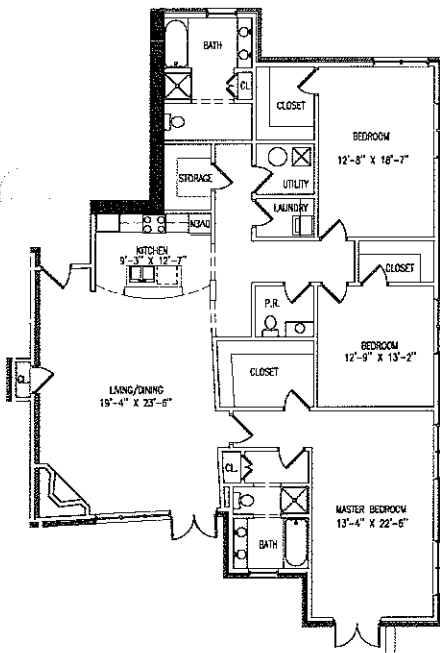
LOCATION:
Charleston, West Virginia

CONTACT:
2412 Kanawha Blvd, East
Charleston, WV 25311
304.343.2412



- The architectural aesthetic of the new buildings is being developed in a way that reflects existing buildings (i.e. similar materials, geometries, setbacks, etc.). Additionally, the character of the overall elevation along Kanawha Boulevard will be improved as the new development completes existing "gaps" in the streetscape.

- The massing of the new development has been designed in a way that responds to and respects the massing of the adjacent residential properties. By using the existing adjacent properties to inform the aesthetic and material choices for the new project, the characteristics of the East End Historic District are incorporated throughout the new development. Architectural salvage will be undertaken at the site of the family home (2412) to preserve the distinctive framing members and terra-cotta roof tile. Where possible, these elements will be incorporated into the new development.



The New Retreat at Glade Springs Resort

Multi-Unit Housing



LOCATION:
Daniels, West Virginia

COMPLETION:
TBD

COST:
\$249,000 - \$269,000
(per unit cost)

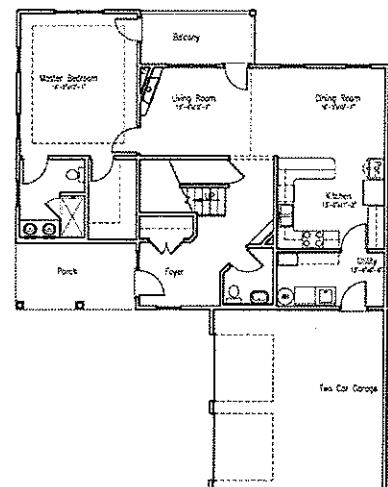
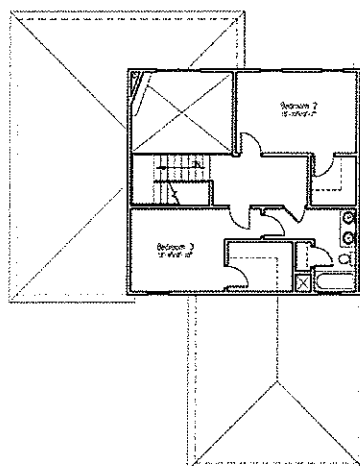
CONTACT:
Mr. Doug Pauley
Encore Management Co.
1591 Washington Street, E
Charleston, WV 25311
304.343.3535



The New Retreat at Glade Springs is a gated community located in a wooded area near the 3rd hole of the Stonehaven Golf Course. Several townhouses had already been constructed on the site by a previous developer. Due to the wooded hillside site the new 2 and 3 bedroom units were designed to resemble a mountain lodge, while also blending with the existing townhouses.

The material palette was selected to help define the lodge aesthetic and for ease of maintenance, and includes a stone veneer, prefinished composite siding and trim, as well as natural wood doors. The layout of the units was developed to provide end unit master suites with no second level, and a core that includes an open floor plan with a two story living room. Additional bedrooms and loft space are located on the upper level. Each unit has a distinct and well defined entry, while the overall grouping of townhomes resembles a mountain lodge.

ZMM's services included the preparation of a preliminary site design, as well as full architectural, engineering, and interior and lighting design services for a variety of units that could be configured in various manners to fit the site conditions. ZMM also assisted the client in determining a base finish, plumbing, lighting fixture, and appliance package for the units. Construction of Phase I of the townhouse development is scheduled to commence in late 2010.



Cacapon Resort State Park

WV Department of Natural Resources



LOCATION:
Berkeley Springs, West
Virginia

SIZE:
7,600 SF New
8,100 SF Renovated

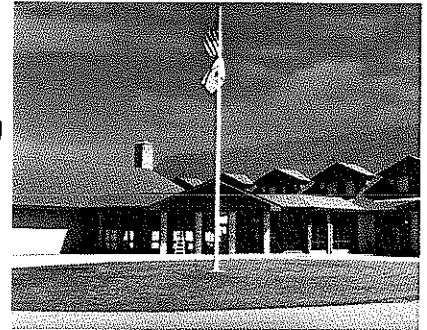
COMPLETION:
1998

COST:
\$3,200,000

CONTACT:
Tom Ambrose
Assistant Superintendent
818 Cacapon Lodge Drive
Berkeley Springs, WV
25411
304.258.1022

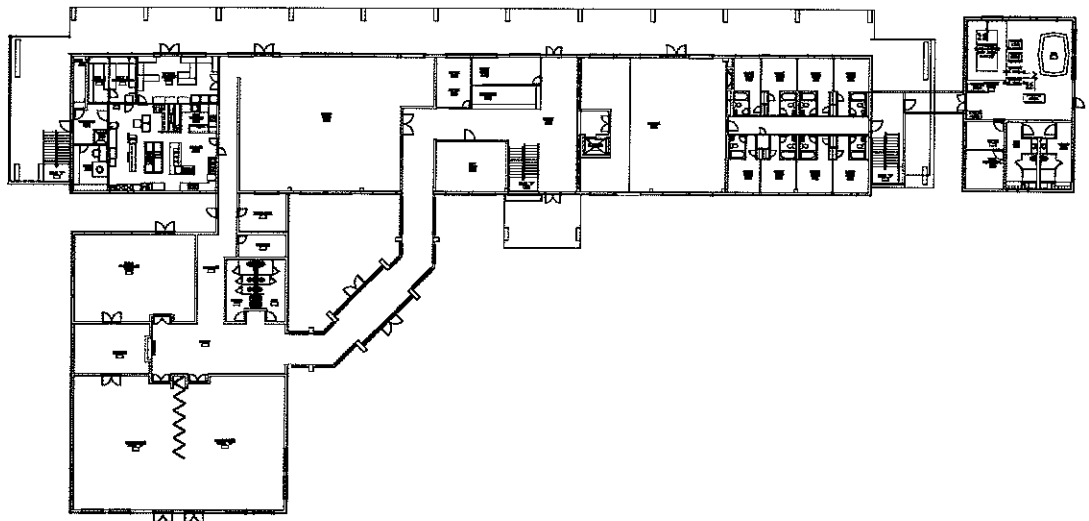


In 1998 ZMM completed an addition and renovation project to Cacapon State Park Lodge Building. This project included a new 7,600 SF conference center, providing a large 3,000 SF dividable conference room, a smaller 1,000SF conference room with connecting entrance lobby, toilets and storage facilities.



The existing kitchen facility was enlarged and renovated to provide banquet capabilities. An elevator was added to improve access to upstairs bedrooms and downstairs multi-use areas. The downstairs multi-use and meeting area were renovated along with the reception and office area.

Bid documents were prepared for a 2,500 SF health spa addition to the lodge building, but this portion of the project was not constructed. Other ZMM projects completed at Cacapon State Park include life safety compliance renovations to the WPA Old Inn building and a 4 bedroom cabin that is ADA accessible.



Blackwater Falls State Park

WV Department of Natural Resources



LOCATION:
Davis, West Virginia

COMPLETION:
1998

COST:
\$2,600,000

SIZE:
10,400 SF Addition

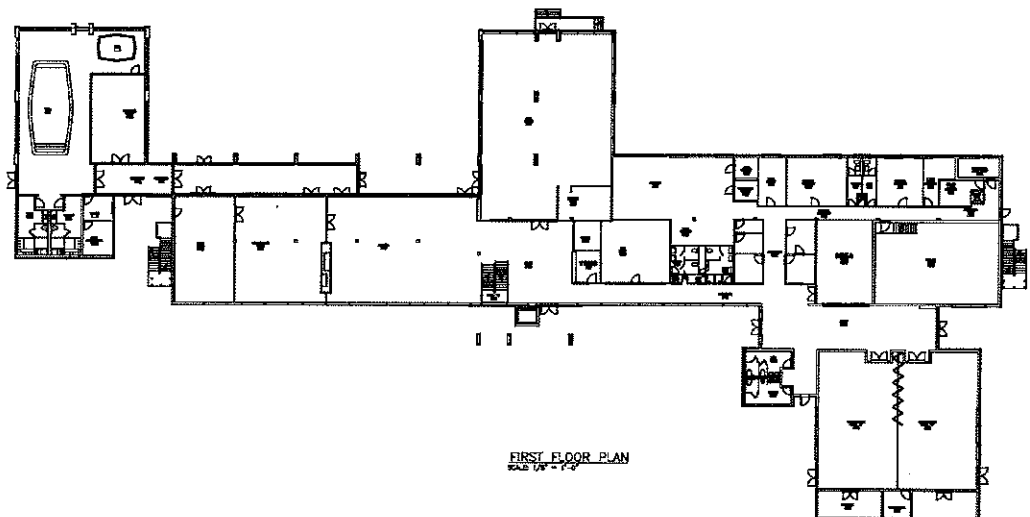
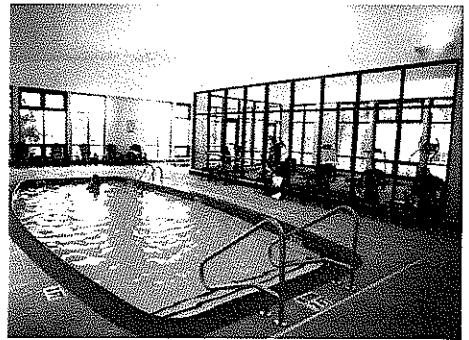
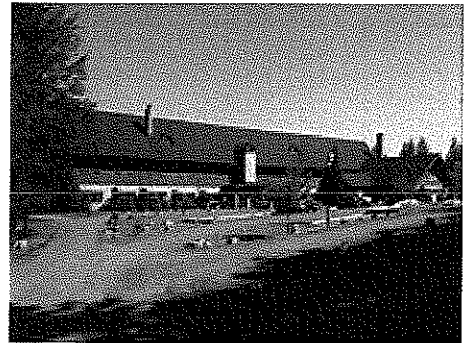
CONTACT:
Robert Gilligan
Park Superintendent
P.O. Drawer 490
Davis, WV 26260
304.259.5216



ZMM completed an addition and renovation to the historic Blackwater Falls State Park lodge building. This project included a 5,400 SF conference center addition providing a large 3,000 SF dividable conference room, entrance, lobby, toilets, and storage facilities.

Existing building roof lines and materials were used for the building addition to the original lodge design.

A 5,000 SF spa addition was added to the North Western end of the building provide a swimming pool, large Jacuzzi and a glass walled exercise area with locker rooms/showers. Interior office areas were also renovated with upgrades to mechanical, electrical, and fire alarm systems.



Additional West Virginia State Park Experience

WV Department of Natural Resources



Lodge / Convention Center

Beech Fork State Park (Un-Built)

Miscellaneous Services:

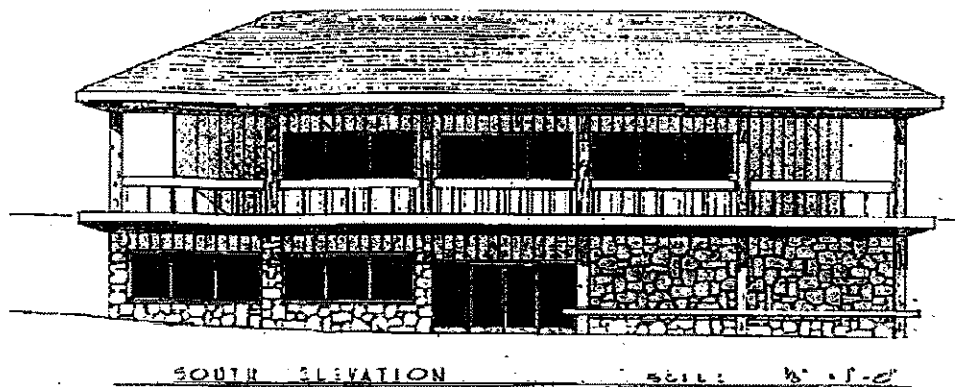
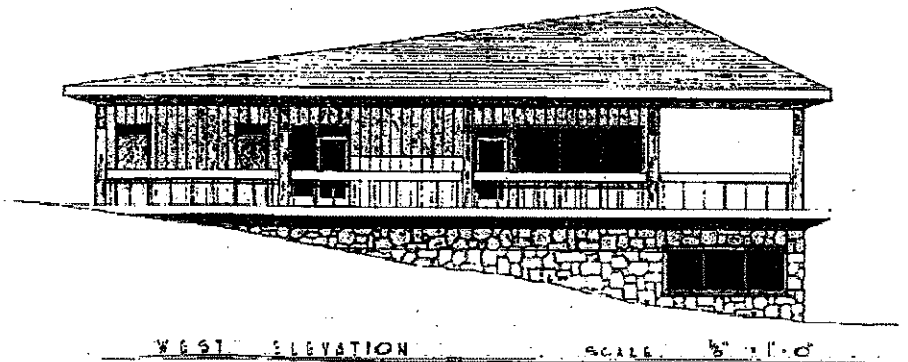
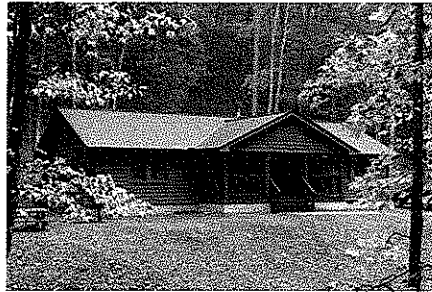
Pipestem State Park

Hawks Nest State Park

Twin Falls State Park

Lodge and Convention Facility
Expansion Master Plan

- 25,000 SF Increasing Room Capacity from 20 to 50 Rooms
- The Expansion Increases the Dining, Kitchen, and Meeting Space for up to 200 People



Charleston Job Corps Center

Education - Student Housing



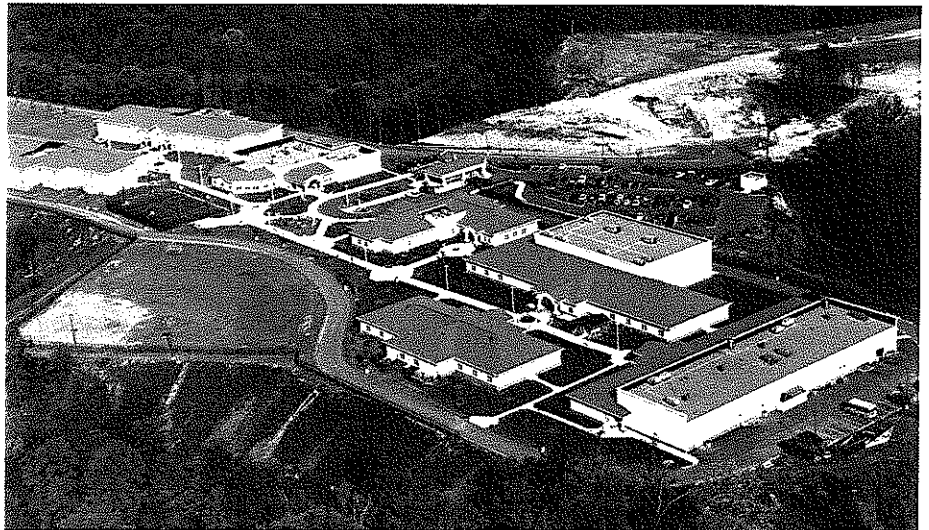
LOCATION:
Charleston, West Virginia

CLIENT:
United States Department
of Labor, Washington D.C.

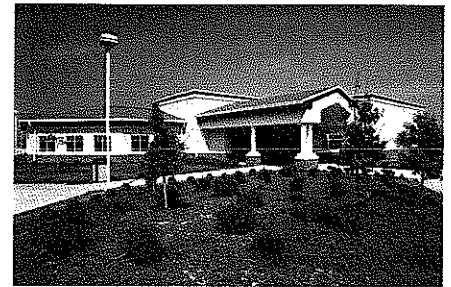
SIZE:
186,000 SF

COST:
\$17.2M

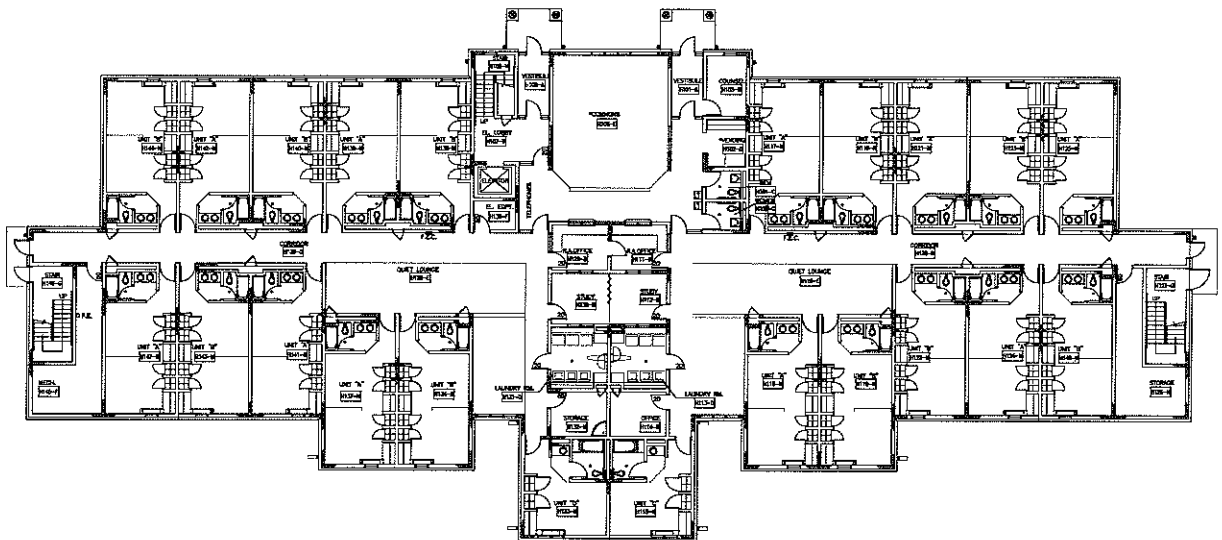
COMPLETION:
1997



The Charleston Job Corps Center provides educational and living space for 350 resident students. The mission of the Job Corps Center is to provide disadvantaged youth with marketable skills for entering the workplace.



This project includes 12 individual buildings in a campus setting which include classrooms, vocational shops, cafeteria and food service facilities, warehousing and central storage, gymnasium and recreation facilities, dormitories, pre-school and day care facilities, and administration and security facilities.



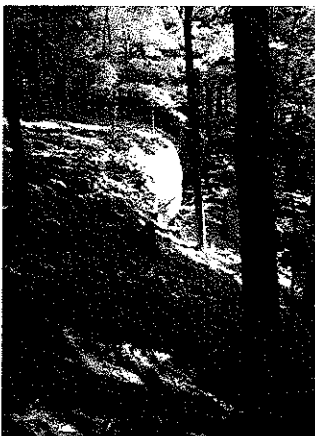
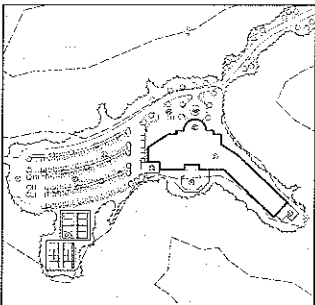
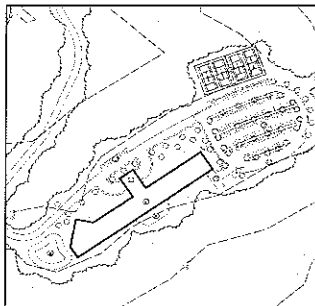
Beech Fork State Park Lodge

Feasibility Study



LOCATION:
Lavalette, West Virginia

CLIENT:
WV Division of Natural
Resources, WV Parks and
Recreation Section

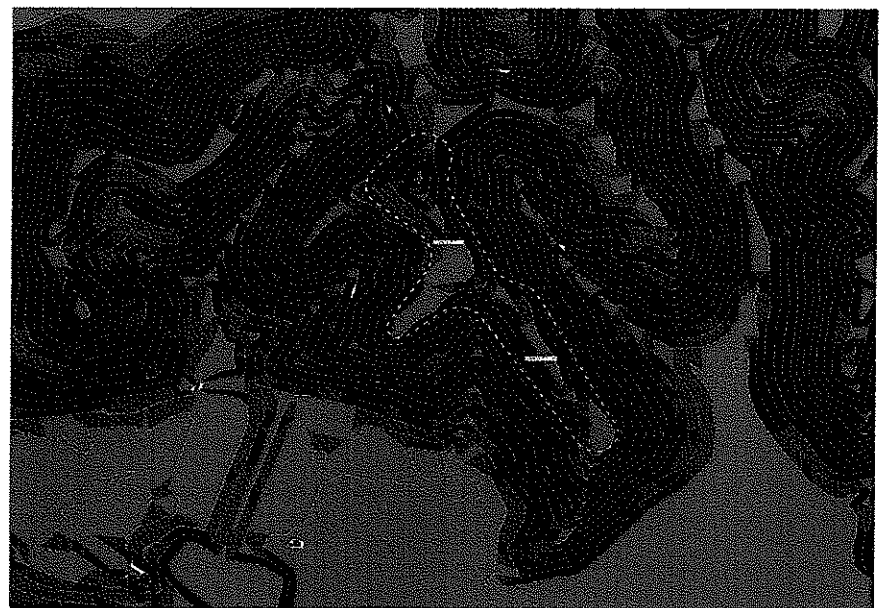


West Virginia Division of Natural Resources has considered a lodge for Beech Fork State Park since before it was opened in 1979. Several studies were completed in the past examining six possible sites for lodges ranging in size from 75 to 150 rooms. The last studies completed in 1995 recommended a 150 room lodge at Stowers Branch.

WVDNR retained E.L. Robinson's landscape architects to study a new site near the Beech Fork Lake dam and marina for the feasibility of building a 35, 50, or 75 room lodge.

This study found from earth work calculations, cost estimates, and slope analysis maps that the Stowers Branch site was still the most desirable based on costs, proximity to the lake, and visual impact on the park.

This project was completed by E.L. Robinson's landscape architects prior to their affiliation with the firm.



West Virginia State Park Experience



LOCATION:
Webster County, West
Virginia

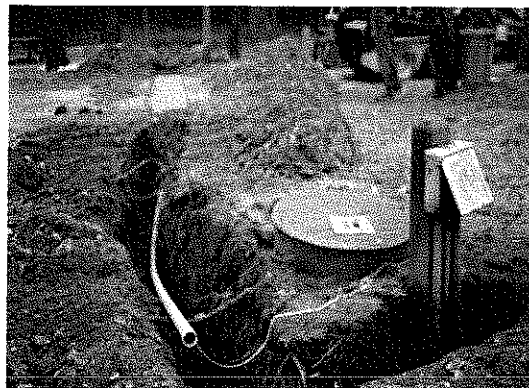
CLIENT:
WV Department of Natural
Resources Parks and
Recreation

Holly River State Park

Wastewater Treatment Plant

E.L. Robinson was retained by the West Virginia Division of Natural Resources, Parks, and Recreation to provide planning, design and construction administrative services for a new waste water treatment plant for Holly River State Park in Webster County, West Virginia

The goal of ELR's environmental engineers was to produce a design that would enable our client to provide a safe, dependable and economical treatment of sanitary sewage for the park, while preserving and protecting the scenic and recreational elements at the same time. Working closely with our client and the owner, WV Department of Natural Resources, Parks and Recreation, a practical solution that yields long-term benefits was produced, insuring a positive and successful project.



LOCATION:
Grafton, West Virginia

CLIENT:
WV Department of Natural
Resources Parks and
Recreation

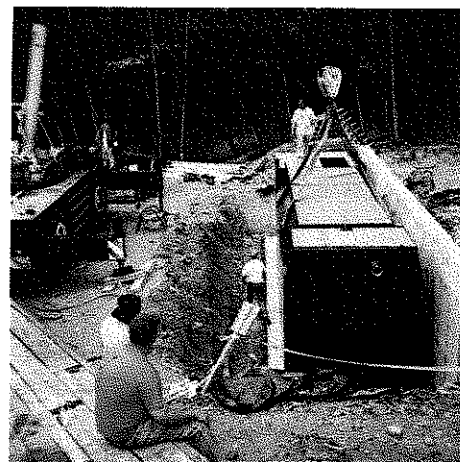
Tygart Lake State Park

Wastewater Treatment Plant

E.L. Robinson Engineering Co. was retained by the West Virginia Division of Natural Resources, Parks and Recreation, to provide planning, design and construction administration services for a new waste water treatment plant for Tygart Lake State Park near Grafton, West Virginia.

The goal of ELR's environmental engineers was to produce a design that would enable our client to provide a safe, dependable and economical treatment of sanitary sewage and recreational elements at the same time.

Working closely with our client and owner of the park, WV Department of Natural Resources, Parks, and Recreation, a practical solution that yields long-term benefits was produced, insuring a positive and successful project.



Davis Riverfront Park

E.L.ROBINSON

the Challenge. the Choice.

LOCATION:
Davis, West Virginia

CLIENT:
Davis Park Commission



E.L. Robinson's landscape architects were commissioned by the City of Davis to develop a master plan and report for upgrades to the Davis Riverfront Park, which is a five acre open space on the north shore of the Blackwater River extending from the bridge on WV route 32.

Wetlands are existent on a portion of the property, as well as concrete footings and pavements from the timber mill that preciously occupied the site during the late 1800's and early 1900's. At the time public access to the river was from WV route 32.

The Davis Park and Recreation Commission program recommendations for the park master plan were as follows:

- Create the park for foot traffic only with minimal vehicular intrusion for maintenance purposes only
- Further development of the herb garden and pond
- Interpret the industrial heritage of the site and the natural areas, i.e. wetlands
- Create improved access points to the park
- Develop a trail system for use by the town's populace for improved walking opportunities to maintain a healthy lifestyle
- Fishing opportunities along the Blackwater River
- Possible stage and/or amphitheater
- Picnic shelters

This project was completed by E.L. Robinson's landscape architects prior to their affiliation with the firm.



Greystone on the Cheat

Multi-Unit Housing



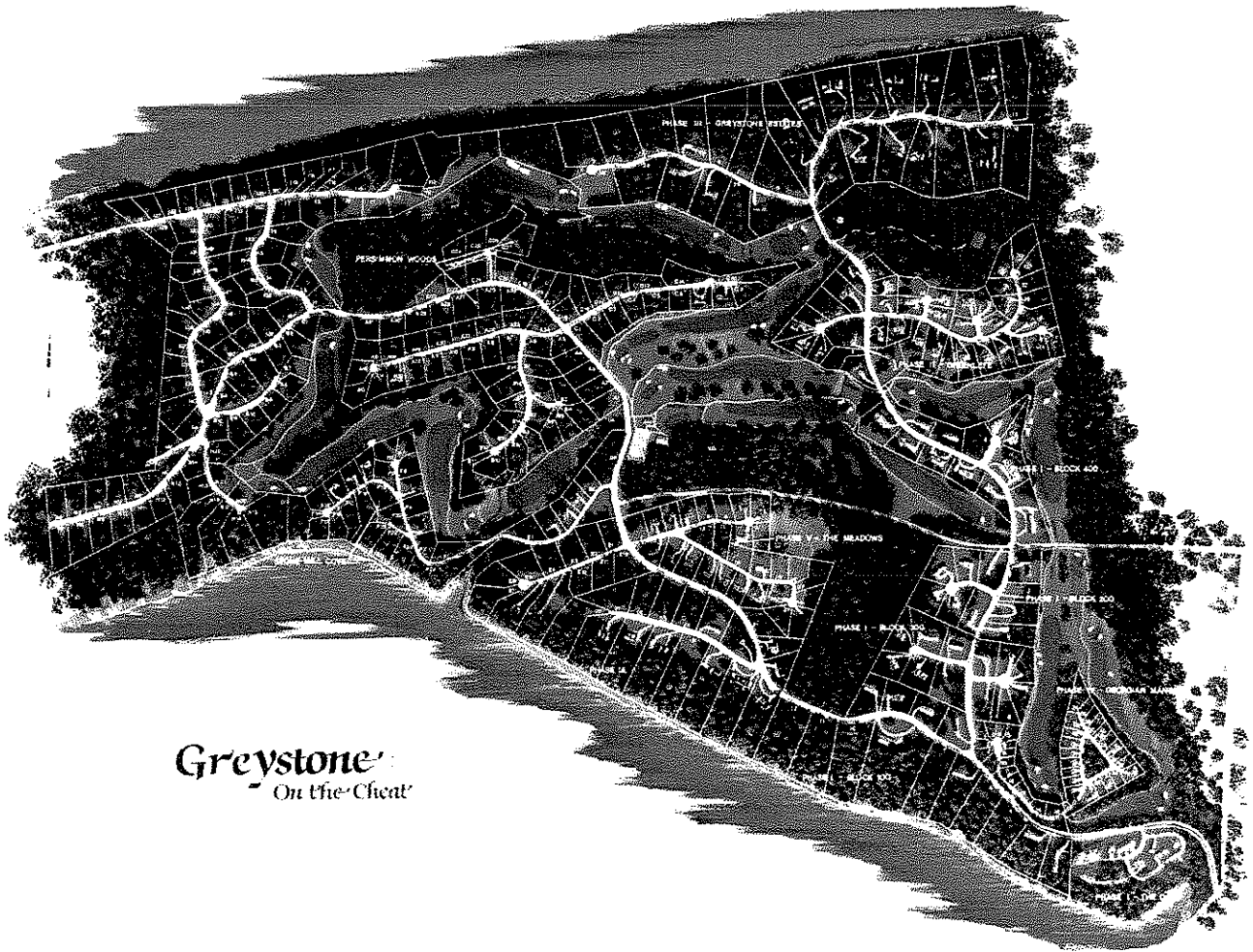
LOCATION:
Morgantown, West Virginia

CONTACT:
2420 Cranberry Street
Morgantown, WV 26508
304.594.3840

Greystone on the Cheat is a 400 lot housing development located on Cheat Lake and Lakeview golf course outside of Morgantown, WV.

ZMM was responsible for the design of various lots, roads, utilities, covenants, and construction of the various phases of the 400+ acre site. ZMM also provided oversight of the design of the individual houses in the development.

Greystone on the Cheat has become one of the premier residential communities on the State of West Virginia.



Greystone
On the Cheat

E.L.ROBINSON

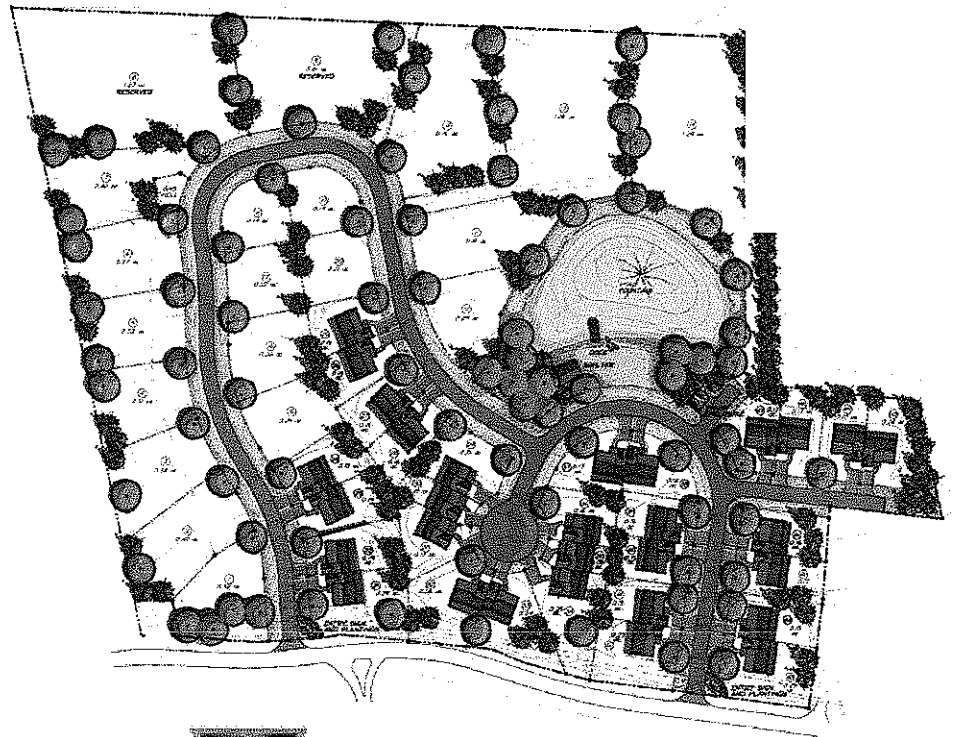
the Challenge. the Choice.

LOCATION:
Davis, West Virginia

CLIENT:
Aspen Development, LLC

Aspen Village

Multi - Unit Housing



E.L. Robinson's landscape architects provided master planning and managed site design, permitting and engineering for a new 50 lot subdivision near Timberline. The development involved grading layout for lots, roads, drives, utilities, pond enlargement, and site amenities.

Project entailed 30 duplex and triples units and 20 single family lots. Coordinated utility extensions with each respective company and assisted several of the property owners with site planning of their home sites. This project was completed by E.L. Robinson's landscape architects prior to their affiliation with the firm.

Poweridge Condominiums

Site Improvements

E.L.ROBINSON

the Challenge. the Choice.™

LOCATION:
Snowshoe, West Virginia

CLIENT:
Poweridge Homeowners
Association



This second home development at snowshoe has not undergone any significant site upgrades since its construction nearly 30 years ago. E.L. Robinson's landscape architects provided master planning and phased approach to upgrade the parking areas, slope access, storm drainage, and landscaping.

The first phase called for new drive entries into the parking area, a reduction of the paved surfaces for snow storage on a pervious surface, enlarged green spaces, new storm drainage, new wood storage buildings, service areas and additional landscaping consisting of primarily trees in this harsh winter environment.

This project was completed by E.L. Robinson's landscape architects prior to their affiliation with the firm.





John XXII Pastoral Center

Wheeling/Charleston Catholic Diocese

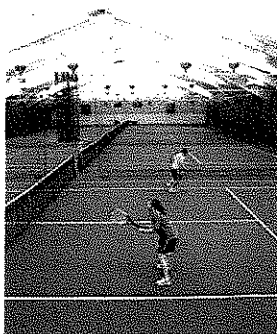
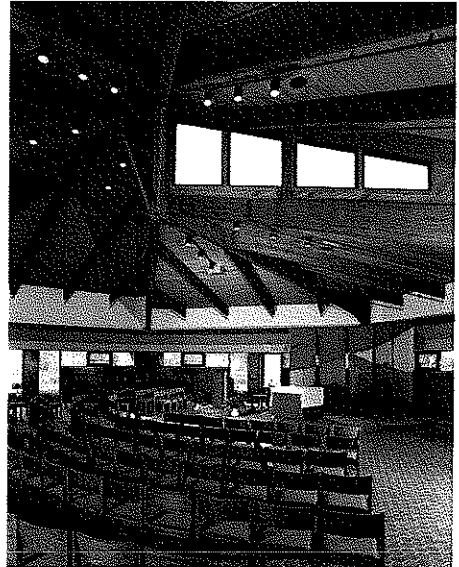
- 53,000 SF
- Dormitory Space for 60 Guests
- Food Service Facility
- Dining Room Seating for 300
- Meeting/seminar rooms and a chapel

Robert C. Byrd - Regional Training Center

- Indoor Swimming Pool
- Fitness Center
- Full Service Dining Hall & Snack Bar
- Auditorium
- Lodging
- "Break out" & Study Rooms

Charleston Family YMCA

- Indoor Tennis Courts
- Racquetball Courts
- Indoor Swimming Pool
- Exercise Rooms
- 130,000 SF - Two Story Facility



ADAM R. KRASON

AIA, NCARB, LEED AP



Position

Architect, Principal

Education

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

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

Employment History

2008 - Present, Vice President

2003 - 2008, Project Architect

1998 - 2003, Project Architect, Charleston Area Architectural Firm

1998, Consultant, Anderson Consulting

Professional Credentials

Registered Architect: West Virginia and Ohio

LEED Accredited Professional

Construction Specifications Institute – CDT

Member of American Institute of Architect

NCARB Certification

Civic Affiliations

West Virginia Vision Shared-Sustainable Economic Development Team

West Side Main Street Design Committee, Charleston, West Virginia

West Virginia Qualifications Based Selection Council

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

Professional Experience

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

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

Project Experience

West Virginia Army National Guard - Logan Readiness Center

West Virginia Army National Guard - Morgantown Readiness Center

West Virginia Army National Guard - CFMO Expansion Project

Joint Interagency Training and Educational Center (JITEC)

State of West Virginia Division of Juvenile Services

Wood County Justice Center

West Virginia University at Parkersburg, Downtown Facade

Parkersburg Catholic Schools

Mountaineer Middle School

Nicholas County High School Additions/Renovations

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



Position
Project Manager

Education

B.S., Landscape Architecture; West Virginia State University, West Virginia;
1976

Professional Credentials

Registered Landscape Architect (WV, IN, OH, MD, VA)
Affiliate Member West Virginia Chapter of American Institute of Architects

Professional Experience

Mr. Nelsen has practiced landscape architecture for over 30 years principally in West Virginia but also has completed projects in Ohio, Indiana and Pennsylvania. His professional experience has afforded him opportunities to assist clients with park and recreation planning and design, community and urban planning, streetscape design, campus planning for elementary, secondary and higher education facilities and site planning and design for residential, commercial and public places. He has been involved in environmental planning and restoration especially lands degraded from past mining practices.

He has managed site development on significant projects such as the Stonewall Jackson Resort and the Tamarack Art Center yet enjoys working with clients and communities assisting them visualize the improvements for their parcels and neighborhoods.

Experience Includes:

- Site Master Planning
- Site Preparation
- Recreational Planning and Design
- Streetscape Design
- Conceptual Planning
- Environmental Planning and Restoration
- Construction/Bidding Documents
- Cost Opinions
- Urban and Campus Planning

Project Experience

Aspen Village, Timberline Resort at Canaan Valley, WV
Stonewall Jackson Resort, WV
Clay Center for the Arts & Sciences, WV
Washington Street Streetscape, WV
Rich Mountain, Laurel Hill and Corricks Ford Civil War Battlefields -
Randolph, Barbour and Tucker County, WV
BOPARC Master Plan Update, WV
Tamarack Art Center, WV
West Side Community Renewal Plan, WV



Position

Principal
Corporate Management
Architectural Programming
Architectural Design and Production

Education

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

Employment History

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

Professional Credentials

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

Civic Affiliations

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

Professional Experience

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

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

Major clients overseen by Steve include:

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

ROBERT C. DOEFFINGER

PE



Position

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

Education

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

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

Employment History

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

1977-1982, Director of Engineering; ZMM

1976-1977, Mechanical and Architectural Engineer; ZMM

Professional Credentials

National Council of Examiners for Engineering and Surveying (NCEES)

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

Member; ASHRAE - Chairman, Technical Committee 4.1 - HVAC Load Cal-
culations

Civic Affiliations

Councilman; City of Point Pleasant, WV

Director; Mason County Development Authority

Director; Point Pleasant River Museum

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

Professional Experience

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

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

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

JOSEPH T. CARNEY

PE, PS



Position Engineer

Education

M.S., Civil Engineering; University of Missouri at Rolla, 1974
B.S., Aerospace Engineering; West Virginia University, 1969

Professional Credentials

Registered Engineer (WV)
Registered Professional Surveyor (WV)
National Society of Professional Engineers

Offices Held

State Director of West Virginia Society of Professional Engineers
Past President of Charleston Chapter of WV Society of Professional Engineers

Honors Awarded

1998 - Engineer of the Year, West Virginia Society of Professional Engineers

Professional Experience

Mr. Carney has extensive experience in design engineering, preparation of contract documents, construction supervision and contract administration. His wide experience in civil engineering projects includes water, wastewater, storm sewers, roads, earthwork, utility relocation and site development. He has worked with all the funding and regulatory agencies. He has worked in private industry and for several Consulting Engineering firms prior to joining ELR in 1982.

Mr. Carney has designed and administered the construction of numerous projects, including a \$3.4 million sanitary sewer system, 5 bridges, over \$6 million of utility relocations for highway projects, and many \$1 million waterline and sewer projects including sewage pump stations and water booster pump stations.

Project Experience

- 9 separate projects for the relocation of 27,000 L.F. of 8" to 24" sanitary sewer and 50,000 L.F. of 6", 8" and 12" waterline due to highway projects in Putnam County from 1997 to 2005. Projects also included two water booster pump stations (300 gpm and 400 gpm) and a 250 gpm sewage pump station. Funding for the \$6.4 million relocations was by the West Virginia Division of Highways.
- A new sanitary sewer system in Kanawha County, consisting of 56,200 L.F. of 6" to 14" gravity sewer and force main, and 5 sewage pump stations ranging from 25 gpm to 750 gpm. The construction cost was \$3.4M
- Waterline extensions consisting of 108,750 L.F. of 12", 8", 6" and 2" waterline to 13 separate areas in Kanawha County. Construction cost was \$2.8M



Position

Senior Mechanical and Electrical Engineer

Education

B.A., English, West Virginia University, 1972

2 Years toward B. S., Mechanical Engineering, WVIT, 1974-1975

M.A., Humanities, Marshall University Graduate College, 2004

Employment History

1989-Present, ZMM, Senior Mechanical Engineer

1976-1989, Charleston Area Engineering Firm, Project Manager

1972-1976, Charleston Area Engineering Firm, Designer

Professional Credentials

Registered Engineer (WV)

Member of ZMM's Board of Directors

Member of ASHRE

Professional Experience

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

Responsibilities Include:

Mechanical Design and Engineering.

Serves as liaison between clients and utility companies.

Design of sanitary and gas site utilities, site utility specifications.

In-house review of plumbing, sprinkler system, fire pump, and domestic water booster pump designs.

Review of plumbing, fire protection specifications, and temperature control design.

Equipment selection - air handling units, pumps, and boilers, site visits, observation reports and punch lists.

Project Experience

State of West Virginia Division of Juvenile Services

West Virginia Regional Jail & Correctional Facility Authority

WV Army National Guard - Glen Jean Armed Forces Center

WV Army National Guard - Logan Readiness Center

WV Army National Guard - CFMO Expansion Project

Highland Hospital

Saint Albans High School

Lincoln County High school

HANK WALKER

AIA, LEED AP



Position

Project Architect, ZMM

Education

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

Employment History

1980-Present, Project Architect; ZMM

1977-1980, Architectural Draftsman and Designer; ZMM

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

Professional Credentials

Registered Architect (WV)

LEED Accredited Professional

Civic and Professional Affiliations

Professional Member; American Institute of Architects

Professional Member; West Virginia Society of Architects

Executive Board Member; Salvation Army Advisory Board

Professional Experience

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

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

Project Experience

Stonewall Jackson Lake State Park

Resort at Glade Springs

Greystone on The Cheat

Cacapon State Park

The new Retreat at Glade Springs Resort

West Virginia Army National Guard Family Readiness Center

State of West Virginia Division of Juvenile Services

Alderson Federal Prison Camp

Hazelton Federal Prison Camp

West Virginia State Office Buildings 5,6 & 7

Braxton County Memorial Hospital

Beverly Hills Middle School

Barboursville Middle School

Brookview Elementary School

Sissonville Library

MARY JO CLELAND

PE



Position
Civil Engineer

Education

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

Employment History

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

Professional Credentials

Registered Engineer (WV)

Professional Experience

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

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

Project Experience:

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



Position

Utilities and Transportation Design

Education

B.S., Civil Engineering; West Virginia State University, Institute, West Virginia; 1998

Professional Credentials

Registered Professional Engineer (WV, OH, FL)
American Society of Civil Engineers (ASCE)
American Water Works Association (AWWA)
WVDOH Certified Aggregate Sampling Inspector
WVDOT Certified Portland Cement Concrete Inspector

Professional Experience

Mr. Morton has over seven years of experience in many areas of civil engineering including roadway design projects, airport design projects, water distribution systems, sanitary sewer collection systems, storm water collection systems, site development projects and ADA accessible train and bus station improvements.

Prior to joining E.L. Robinson Engineering Co., Mr. Morton worked with the WV Division of Highways as an Engineering Co-op Technician. His responsibilities at E.L. Robinson Engineering Co. include project management, construction management, contract administration, and project engineering.

Project Experience

Highway Design - US Route 52, Corridor H, I-79, Bridge Replacements
Airport Design - AIP Projects in Lawrence County, Ohio
Utility Relocation - Various water and sewer relocation on I-79, Route 35/I-64 Interchange, and Route 34
Waterline Distribution (Cabell, Wayne, Kanawha, and Putnam County)
Site Development - CAMC 33rd Street Relocation, and Various other site design projects throughout West Virginia and Ohio



DANIEL R. AKERS
ASLA

Position
Land Planner

Education
B.S., Landscape Architecture; West Virginia State University, West Virginia;
2005

Professional Credentials
Currently Pursuing a Landscape Architect Registration
American Society of Landscape Architects

Professional Experience

Mr. Akers has a wide variety of experience in community design, amenity centers, sports and recreation complexes, commercial and retail centers, parks, and streetscape enhancement projects throughout the Appalachian region and the south east. He has served vital roles in numerous projects from inception to construction observation.

Mr. Akers provides each project with expertise in various computer programs that aid in conveying conceptual ideas, cost estimating, renderings, 3D models, animations and constructions documents.

Experience Includes:

- Amenity Design
- Streetscape Design
- Park and Recreation Design
- Capacity Studies
- Community Design
- Conceptual Planning
- Construction Documents
- Presentation Graphics
- Cost Estimation

Project Experience

Corricks Ford Battlefield, WV
Shamrock Condominiums, WV
Beech Fork State Park, WV
Wayne County Bike Path, WV
Washington Street West, Streetscape, WV
Crossroads Retail Center, SC
Holiday Inn Redevelopment, SC
Hampton Lake, Private Community & Amenities, SC
Reynolds Plantation Amenity Center, GA

STEPHEN E. HEDRICK II

PE



Position

Structural Engineer, ZMM

Education

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

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

Employment History

2007-Present, ZMM

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

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

Professional Credentials

Professional Engineer (PE), 2007

Certified Engineer in Training (EIT), 2001

Professional Experience

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

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

Project Experience

Southside Elementary/Huntington Middle School

Highland Medical Facility

New River Elementary - Supplemental Support

Hacker Valley Elementary - Supplemental Support

Barboursville Middle School - Supplemental Support

Glen Jean Armed Forces Center - Joist Reinforcement

West Virginia Cultural Center



Position

Electrical Engineer

Education

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

Employment History

2000 - Present, Electrical Engineer, ZMM, Charleston, WV

1995 - 1999, Electrical/Control Systems Designer, WV Engineering Firm

Professional Credentials

Professional Engineer (WV)

Professional Experience

Mr. Casdorph started his career in 1995 as an electrical/control systems designer. He is responsible for Electrical Design and Engineering on various ZMM projects.

Responsibilities Include:

Lighting Design (Interior & Exterior)

Electrical Power Distribution

Security System Design

Data System Design

Fire Alarm System Design

Sound System Design

Division 16 Specifications

Electrical Drafting & Design CAD

Project Experience

Southside Elementary and Huntington Middle School

Milton Middle School

Wayne Elementary School

Martha Elementary School

Jaeger Elementary School

Lincoln County High School

West Virginia Juvenile Detentions Centers

WV Army National Guard - Logan Readiness Center

WV Army National Guard - Morgantown Readiness Center

CFMO Expansion Project

WV Army National Guard - Glen Jean Armed Forces Center

JILL M. WATKINS

IIDA, LEED AP



Position

Sustainability Coordinator

Education

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

Employment History

2008 - Present, Interior Designer/Sustainability Coordinator, ZMM

2005 - 2008, Cubellis, Boston MA

2004 - 2005, Wolf Maison Limited, Cleveland, OH

2003 - 2004, Doty & Miller Architects, Bedford, OH

1999 - 2003, URS Corporation, Cleveland, OH

1998 - 1999, KA, Inc. Architects, Cleveland, OH

Professional Credentials

Professional Member IIDA

NCIDQ Certificate, October 1997

LEED Accredited Professional, April 2003

Professional Experience

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

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

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

ZMM Project Experience

Joint Interagency Training and Education Center (JITEC)

Highland Hospital

West Virginia Housing Development Fund

West Virginia State Office Buildings 5, 6, & 7

Wood County Justice Center

West Virginia Army National Guard - Ripley Armed Forces Reserve Center

Additional Project Experience

The University of Akron Arts & Sciences/Student Affairs Building

Cleveland State University - Recreation Center/Library Renovation

Notre Dame College of Ohio - Multiple Projects

Beachwood Middle School

Midwest Research

Procter & Gamble - Gillette Headquarters

GLENN R. SAVAGE

CSI-CDT, CSI-CCS



Position

Construction Administrator, ZMM

Education

B.S., Environmental Science; University of Charleston, Charleston, West Virginia; 1997

A.S., Mathematics; West Virginia State University, Institute, West Virginia; 1992

Employment History

1998-present, Construction Administrator; ZMM

997-1998, Environmental Project Manager; West Virginia Area Engineering Firm

1992-1997, Environmental and Construction Quality Control Manager; West Virginia Area Construction Company

1981-1992, Field and Laboratory Testing Manager; West Virginia Area Environmental Engineering Firm

Professional Credentials

CSI, Certified Construction Specifier (Construction Specification Institute)

CDT, Certified Construction Document Technologist

Professional Experience

Mr. Savage has performed construction administration services on a variety of building types including: Educational Facilities; Correctional Facilities; and Office/Light Industrial Facilities.

Mr. Savage's past experience in the construction testing and environmental fields is a benefit to clients during the site preparation and foundation installation.

Project Experience

Western Regional Jail

Alderson Federal Prison Camp

Jean Dean Safety/Law Enforcement Building

Highland Hospital

Mountaineer Middle School

Nicholas County High School

East Greenbrier High School

Gauley Bridge Elementary

Summersville Hospital Medical Building

Cacapon State Park

Blackwater Falls State Park

Ronceverte Elementary School

Mount View High School

LEED ACCREDITED PROFESSIONALS



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

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



"I became a LEED Accredited Professional in order to have a greater influence on sustainable design. I believe that a truly sustainable design requires the building systems to be integrated into the design of the building. Being a LEED AP has allowed me to become much more involved at earlier stages in our projects, greatly enhancing the integrated design process"

- John A. Pruett, PE, LEED AP



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

- Jill M. Watkins, IIDA, LEED AP



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

- Hank Walker, AIA, LEED AP



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

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



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

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

Sustainable design partnerships with and LEED presentations for:

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



Current LEED Registered projects:

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

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

Highlights include:

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

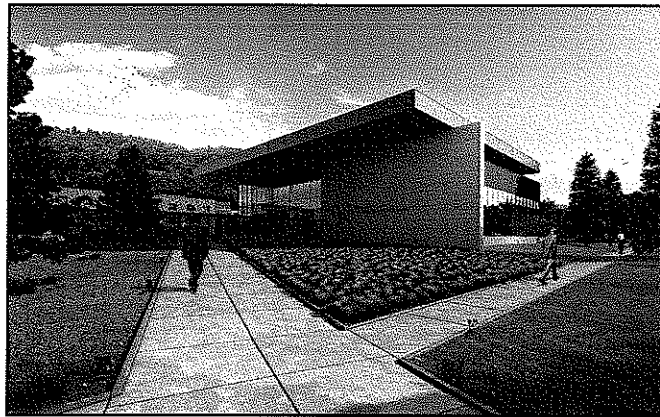




West Virginia Army National Guard Joint Interagency Training and Education Center

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

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



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

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

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



West Virginia Army National Guard Morgantown Readiness Center

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

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



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

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

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

Award Winning Design



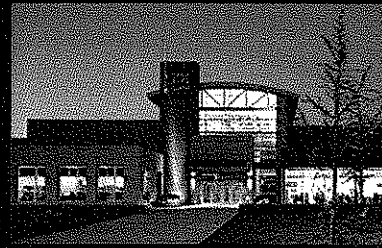
2010

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

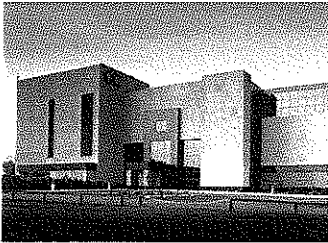
Gene Spadaro
Juvenile Center
Mount Hope, WV
2006 - Merit Award
"Achievement in Architecture"
AIA West Virginia Chapter



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
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 SIGNATURE

Vendor's Name: ZMM, INC.

Authorized Signature: *AD RK* Date: 30 AUG. 2010

State of West Virginia

County of Kenawha, to-wit:

Taken, subscribed, and sworn to before me this 30th day of August, 2010.

My Commission expires 10-6, 2018.

AFFIX SEAL HERE

NOTARY PUBLIC

Lisa E. Bowles

