

Expression of Interest for  
Hawks Nest and Twin Falls State Park  
Structural Repairs  
DNR1500000019



**Chapman  
Technical  
Group**

a division of  
GRW

PO Box 469  
Alum Creek, WV 25003-0469

05/18/15 11:33:07  
WV Purchasing Division

May 18, 2015

Ms. Laura Hooper, Buyer  
Department of Administration  
Purchasing Division  
2019 Washington Street, East  
Charleston, West Virginia 25305-0130



Re: Expression of Interest for Architectural/Engineering Services for Structural Repairs at Hawks Nest and Twin Falls State Parks  
DNR1500000019

To the Selection Committee:

With over 25 years of experience, **CAS Structural Engineering** provides professional structural engineering services for a variety of building projects, ranging from new construction to additions and renovations, to repairs and historic preservation. **Carol A. Stevens, PE**, is the firm president and will be the engineer of responsible charge for this project. Ms. Stevens has over 25 years of experience with building structures in West Virginia, Pennsylvania and Ohio. CAS Structural Engineering is a small, local, West Virginia Certified Disadvantaged Business Enterprise that will give you personal attention.



**CAS Structural Engineering** has been involved with numerous building structure repairs, including a current project at McKeever Lodge at Pipestem State Park and repairs to the Governor's Mansion, Main Capitol Building, Twin Falls State Park Lodge, Hawks Nest State Park Lodge, State of West Virginia Building 3 Canopy, Farrell Law Offices in Huntington, First Presbyterian Church in Charleston, among others. **Our team has also prepared the Construction Documents for this project at Hawks Nest and Twin Falls State Parks.** Additionally, we have an accounting system that allows us to track hours and expenses on every project.



Located in Alum Creek, **CAS Structural Engineering** will serve as the prime consultant on this important project. The sub-consultants that we have teamed with are as follows: **Chapman Technical Group, Ltd.** (St. Albans, WV) for architectural issues, **Miller Engineering Inc.** (Morgantown, WV) for mechanical and electrical engineering issues, and **David L. Morris, DLM Decisions, LLC** (Walton, WV), for consulting on construction related issues and estimating. This team has an extensive working relationship, having worked on a number of projects together over the last 17 years. The



PO Box 469 • Alum Creek, WV 25003-0469 PHONE 304-756-2564 FAX 304-756-2565 WWW [www.casstruceng.com](http://www.casstruceng.com)

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following information should serve to introduce and qualify the various members of the team that we propose to complete the tasks outlined in the scope of the request for proposal.

**Chapman Technical Group** provides the professional design services for a diverse range of projects including architecture, interior design and space planning, landscape architecture and civil engineering. Chapman Technical Group has been providing these services for more than 28 years and has designed many projects for West Virginia State Parks. **Tom Cloer III, AIA** will be the architect of record for this project. Tom has extensive experience in renovation projects including work that was recently completed at Twin Falls State Park and the repairs to Stair Tower #4 at Hawks Nest State Park. Tom was also the architect of record for the preparation of the construction documents for these repairs at Hawks Nest and Twin Falls State Parks.

**Miller Engineering Inc** will join the team to assist with any of the existing mechanical, electrical, and plumbing systems that may be affected by the repair of the structures. Craig Miller, as President of his firm, has more than 20 years' experience in the design, specification, and construction/project management of mechanical, electrical, and plumbing systems and 13 years experience in facilities operations, maintenance, and management. He specializes in retrofits and upgrades to existing systems and what he terms "operational engineering" or implementing changes to, while maintaining the operational requirements of, a facility or system. He has worked extensively in the educational/ institutional environment including spending several years as a systems mechanic performing various trades work prior to obtaining his engineering education. His trades work gives him a distinctive "hands on" approach to engineering application and design. Craig was the mechanical/electrical engineer of record for the work proposed for the plaza enclosure at Twin Falls State Park Lodge.

**David Morris of DLM Decisions** will assist the team with his years of expertise in the construction industry. Much of Mr. Morris's experience is directly related to the work associated with this project. He has worked with the CAS Team on several repair and restoration type projects, providing construction cost estimates. This skill, in addition to his general construction knowledge in addition, will be an added benefit to the team.

As you review the following information, it will become evident that as a team we bring extensive building restoration and renovation experience to your project. **CAS Structural Engineering** invites an opportunity to present our design team for your evaluation and we are available to work on your project immediately. If you have any questions or require any additional information, please contact us. Thank you for considering our team for your project.

Sincerely,

**CAS Structural Engineering, Inc.**

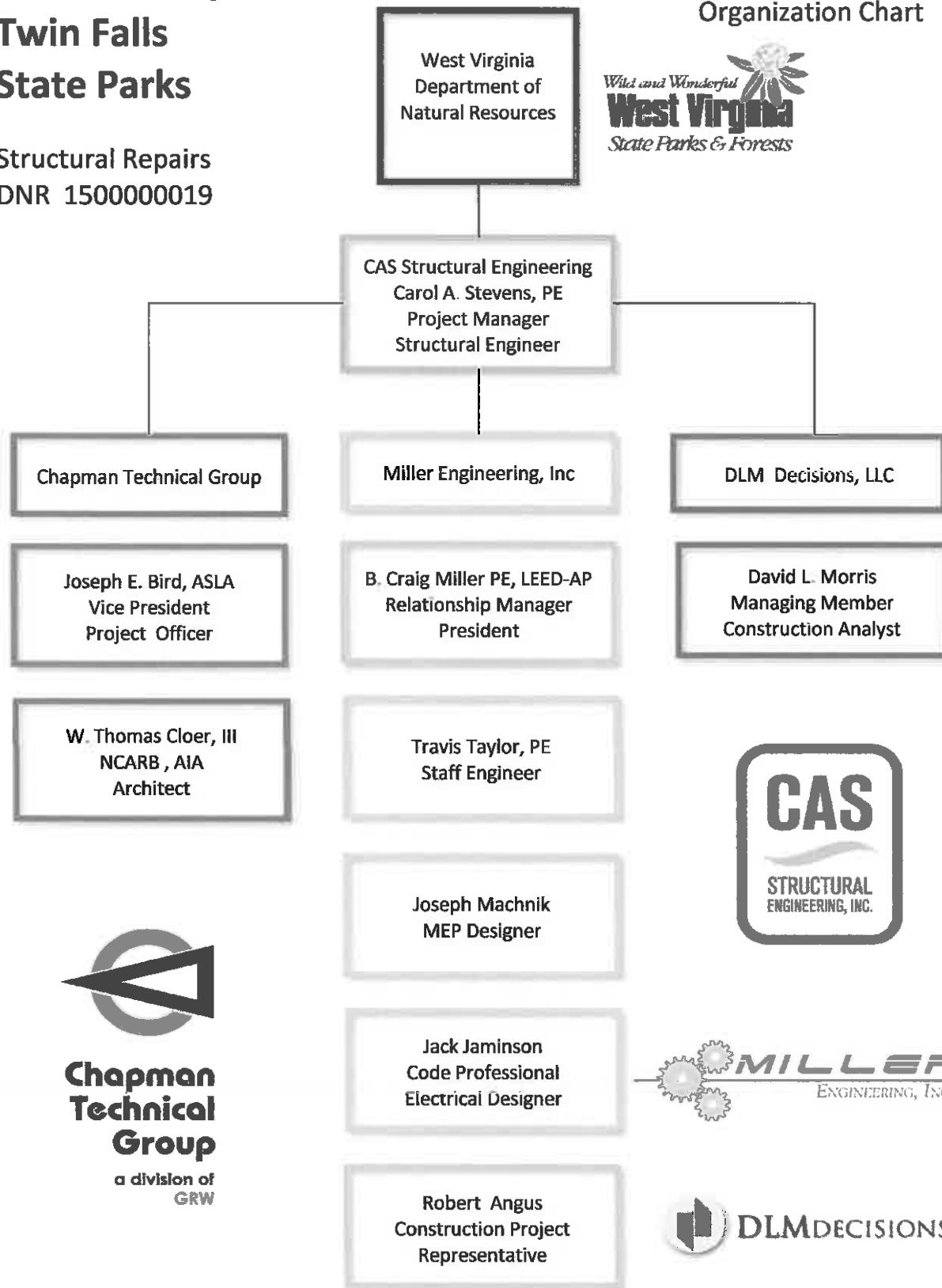


Carol A. Stevens, P.E.  
President

# Hawks Nest / Twin Falls State Parks

Structural Repairs  
DNR 1500000019

## CAS Project Team Organization Chart



**Chapman  
Technical  
Group**  
a division of  
GRW





**Chapman  
Technical  
Group**  
a division of  
GRW



|   |  |
|---|--|
| 1 | Project Approach<br>References<br>Required Forms |
| 2 | CAS Structural Engineering, Inc.                 |
| 3 | Chapman Technical Group                          |
| 4 | Miller Engineering, Inc.                         |
| 5 | DLM Decisions LLC                                |



## Project Approach

### **Review of Existing Plans and Conditions:**

The CAS Team, which developed the existing Plans and Specifications, will review and compare them to the current building codes. After concluding this review, several CAS representatives will conduct a thorough site visit to analyze the current conditions as they relate to the documents. The code has changed since the plans were completed and the team will make the subsequent revisions to the plans and specifications as required. Additionally, during this phase, a comprehensive revision to the cost estimate for both projects is scheduled.

During meetings conducted at both park facilities, the CAS Team and the Owner will determine the best method to construct the Work with the least disruption to the park, staff, guests and facilities. Any revisions in work phasing will be reflected in the Construction Documents prior to the Bidding Phase.

### **Bidding:**

The CAS Team will attend the Pre-Bid meeting at both project sites. During this phase, we will answer any questions that pertain to the construction documents and assist the Owner with the bid evaluation after the receipt of pricing.

### **Construction Administration:**

During the construction phase of the project, we will participate in periodic progress meetings as needed at the site during to evaluate the progress and report to the Owner. Additionally, CAS will review all pay applications, the CAS Team will review shop drawings, product submittals, and the remediation systems. Foremost, the CAS Team can evaluate and answer contractor questions, create solutions and adjust the work to overcome the "found" conditions, which are inevitable in repair and renovation project. The same individuals that were key in developing the construction documents will perform the construction administration functions.



## References

1. **Mr. William "Willie" Parker**  
County Administrator  
Upshur County Commission  
38 Main Street, Room 302  
Buckhannon, WV 26201  
(304) 472-0535
2. **Mr. Timothy Lee**  
Director, Plant Operations and Security  
Thomas Memorial Hospital  
4605 MacCorkle Ave SW  
South Charleston, WV 25309  
(304) 766-3684
3. **Mr. Robert Krause, AIA, PE**  
Director, Architectural and Engineering Services  
Capitol Complex Building 1, Room MB-60  
1900 Kanawha Blvd E  
Charleston, WV 25305  
(304) 558-2317

**ADDENDUM ACKNOWLEDGEMENT FORM**

**SOLICITATION NO.: DNR1500000019**

**Instructions:** Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

**Acknowledgment:** I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

**Addendum Numbers Received:**

(Check the box next to each addendum received)

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  |
| <input checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3            | <input type="checkbox"/> Addendum No. 8  |
| <input type="checkbox"/> Addendum No. 4            | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5            | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

CAS Structural Engineering, Inc.  
Company

Carola Stevens  
Authorized Signature

5/18/15  
Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

Revised 6/8/2012



**CERTIFICATION AND SIGNATURE PAGE**

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

CAS Structural Engineering, Inc.  
(Company)

Carol Stevens Carol A Stevens, PE, President  
(Authorized Signature) (Representative Name, Title)

(304) 756-2564 / (304) 756-2565 / 5/18/15  
(Phone Number) (Fax Number) (Date)

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**MANDATE:** Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

**EXCEPTION:** The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. 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.

**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.

**"Employer default"** means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

**"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.

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: CAS Structural Engineering, Inc

Authorized Signature: Carole Stevens Date: 5/18/15

State of WV

County of Kenawha, to-wit:

Taken, subscribed, and sworn to before me this 18 day of May, 2015.

My Commission expires Aug 19 2018, 2018.

**AFFIX SEAL HERE**

**NOTARY PUBLIC**

Jackie Washburn  
Purchasing Affidavit (Revised 01/01/2012)



# Carol A. Stevens, PE, F.ASCE

## Structural Engineer



### EDUCATION

West Virginia University, BSCE, 1984  
Chi Epsilon National Civil Engineering Honorary  
The Pennsylvania State University, ME Eng Sci, 1989

### PROFESSIONAL REGISTRATION

|      |      |               |
|------|------|---------------|
| P.E. | 1990 | Pennsylvania  |
| P.E. | 1991 | West Virginia |
| P.E. | 1994 | Maryland      |
| P.E. | 2008 | Ohio          |
| P.E. | 2010 | Kentucky      |
| P.E. | 2013 | Virginia      |

### BACKGROUND SUMMARY

|                |   |
|----------------|---|
| 2001 – Present | President, Structural Engineer<br>CAS Structural Engineering, Inc.                        |
| 1999 – 2001    | Structural Engineer<br>Clingenpeel/McBrayer & Assoc, Inc.                                 |
| 1996 – 1999    | Transportation Department Manager<br>Structural Engineer<br>Chapman Technical Group, Inc. |
| 1995 – 1996    | Structural Engineer<br>Alpha Associates, Inc.   |
| 1988 – 1995    | Structural Department Manager<br>Structural Engineer<br>NuTec Design Associates, Inc.     |
| 1982 – 1988    | Engineer<br>AAI Corporation, Inc.   |

### PROFESSIONAL ASSOCIATIONS

American Society of Civil Engineers  
National Society of Professional Engineers  
American Concrete Institute  
American Institute of Steel Construction  
West Virginia University Department of Civil and  
Environmental Engineering Advisory Committee  
West Virginia University Institute of Technology  
Department of Civil Engineering Advisory Committee

### EXPERIENCE

**West Virginia, State Capitol Complex, Holly Grove Mansion:** Structural evaluation report for preliminary condition assessment of building structure. Building is on the National Register of Historic Places and was constructed in 1815.

**West Virginia, State Capitol Complex, Main Capitol Building Parapet:** Exploratory investigation of limestone/brick parapet/balustrade of Main Capitol Building to determine cause of movement/cracking/ leaks. Construction contract for repairs has been completed. Building is on the National Register of Historic Places and was constructed in the 1920's and 1930's.

**West Virginia, Job's Temple:** Structural repairs to 1860's log structure. Building is on the National Register of Historic Places.

**West Virginia, Collett House Structural Repairs:** Structural renovations of 1770's log and framed structure to stabilize foundation and make repairs to log wall and floor. Building is on the National Register of Historic Places.

**West Virginia, First Presbyterian Church Restoration:** Structural renovations of steel in lantern level and terra cotta cornice, overview of repairs to limestone and terra cotta façade of 1920's structure.

**West Virginia, Hawks Nest State Park Lodge:** Repairs to spandrel beams at roof level and analysis and repairs of structural cracks in stairtower.

**West Virginia, State Capitol Complex, Governor's Mansion:** Structural analysis and design in addition to evaluation report for modifications and renovations to several areas of mansion. Building is on the National Register of Historic Places and was constructed in the 1920's.

**West Virginia, Twin Falls Resort State Park Addition:** Structural design for new addition to existing facility.

**West Virginia, State Capitol Complex, Main Capitol Building Dome:** Exploratory investigation of structural steel components of Lantern Level of dome and development of contract documents for repairs. Building is on the National Register of Historic Places and was constructed in the 1930's. Received a NYAIA Merit Award for Design Excellence.

**West Virginia, Twin Falls Resort State Park:** Structural evaluation of existing recreation building.

**West Virginia, Pipestem Resort State Park:** Structural evaluation of existing recreation building.

**West Virginia, Historic Putnam-Houser House (Parkersburg):** Designed system for stabilization and upgrades to floor framing of building that was constructed in the 1700's.

**West Virginia, Upshur County Courthouse:** Developed construction documents for structural repairs to main entrance, dome and monumental sandstone columns of 1899 structure. Work was recently completed and received a WVAIA Honor Award for Design Excellence.

**Ohio, Mahoning County Courthouse:** Completed preliminary structural observation report of exterior façade conditions to recommended phased repairs for terra cotta and granite façade. Building is on the National Register of Historic Places and was constructed in the early 1900's.

**West Virginia, State Capitol Complex, Building 5:** Structural design and analysis for support of new boilers and other mechanical equipment to be placed in mechanical penthouse.

**West Virginia, State Capitol Complex, Building 7:** Investigation and development of Construction Documents for new elevators.

**West Virginia, State Capitol Complex, Building 3:** Structural design and construction administration of repairs to limestone canopy. Building is eligible to be placed on National Register of Historic Places and was constructed in the 1950's.

**West Virginia, State of West Virginia Office Building #21, Fairmont, WV:** Preliminary structural observation report for condition assessment of building structure.

## **PREVIOUS EXPERIENCE**

**West Virginia, State Capitol Building, North Portico Steps:** Designed structural system to replace deteriorated reinforced concrete slab at landing on north side of Capitol steps. Building is on the National Register of Historic Places and was constructed in the 1930's.

**West Virginia, Beech Fork State Park Pool, Bathhouse and Cabins:** Designed structure for new bathhouse, swimming pool and cabins.

**West Virginia, Moncove Lake State Park Pool:** Designed structure for new swimming pool.

**West Virginia, Upshur County Courthouse Annex:** Performed structural evaluation and design for repairs to existing multi-story Annex addition.

**West Virginia, Farrell Law Building:** Performed analysis of existing deteriorated structural sidewalk over parking area. Recommended repair solutions for reinforced concrete and aged terra cotta façade of 1920's building.

**West Virginia, Canaan Valley Resort and Conference Center:** Structural feasibility study to upgrade lodging units.

**West Virginia, West Virginia University Masterplan:** Investigated structural floor load capacity of several university buildings as a consultant to a large national architectural firm for masterplan.

**West Virginia, Morgantown High School Additions:** Designed steel framing and foundations for science classroom, cafeteria and gymnasium additions to existing education complex.

**West Virginia, Grafton High School Addition:** Designed steel framing and foundations for new science classroom addition to existing high school.

**Pennsylvania, York County Government Center:** Structural analysis and design of 1898 former department store converted to county government offices. Interior renovations included adding floor framing at mezzanine level, analyzing and redesigning deficient floor framing, and adding new elevators. Exterior renovations included complete façade rework to recreate original appearance.

**Pennsylvania, Metropolitan Edison Company, Headquarters:** Structural design for new 80,000 SF two-story office addition to existing complex.



## Firm Profile

**CAS Structural Engineering, Inc.** – CAS Structural Engineering, Inc. is a West Virginia Certified Disadvantaged Business Enterprise structural engineering firm located in the Charleston, West Virginia area.

Providing structural engineering design and/or analysis on a variety of projects throughout the state of West Virginia, CAS Structural Engineering has experience in excess of 25 years on the following types of building and parking structures:

- Governmental Facilities (including Institutional and Educational Facilities)
- Industrial Facilities
- Commercial Facilities

Projects range from new design and construction, additions, renovation, adaptive reuse, repairs and historic preservation (including use of The Secretary of the Interior's Standards for Rehabilitation) to evaluation studies/reports and analysis.

CAS Structural Engineering utilizes AutoCAD for drawing production and Enercalc and RISA 2D and 3D engineering software programs for design and analysis. Structural systems designed and analyzed have included reinforced concrete, masonry, precast concrete, structural steel, light gauge steel and timber.

Carol A. Stevens, PE is the firm President and will be the individual responsible for, as well as reviewing, the structural engineering design work on every project. Carol has over 25 years of experience in the building structures field, working both here in West Virginia and in the York, Pennsylvania vicinity. Carol is also certified by the Structural Engineering Certification Board for experience in the field of structural engineering.

CAS Structural Engineering, Inc. maintains a professional liability insurance policy.

## Project Experience



### **CAPITOL PARAPET WALL REPAIRS**

Charleston, West Virginia

This project included an exploratory investigation and preparation of construction documents for repairs to the limestone and brick parapet wall and balustrade at the top of the Capitol Building.

### **CAPITOL DOME RESTORATION**

Charleston, West Virginia

This project included an exploratory investigation and preparation of construction documents for repairs to the structural steel in Capitol Dome.



## Project Experience



### **BUILDING 3 CANOPY REPAIRS**

Charleston, West Virginia

Structural design of repairs to existing limestone canopy and supporting structural elements. Discovered that as-built conditions differed from original design documentation



### **GEORGE WASHINGTON HIGH SCHOOL**

Charleston, West Virginia

Structural design of additions to include new 3-story classroom addition, new entrance/commons addition, and new gymnasium addition for Kanawha County Schools.



### **COVENANT HOUSE**

Charleston, West Virginia

This 3-story structure utilized a structural steel frame and light-gauge steel roof trusses for the structural system. The 13,700 SF building was designed to appear as a residential structure, with vinyl siding, asphalt shingles, dormers and gingerbread accents.

## Project Experience



### **JOHNSON AVENUE PROFESSIONAL BUILDING**

Bridgeport, West Virginia

Structural design of new 9,400 SF steel framed office building.



### **YORK COUNTY GOVERNMENT CENTER**

York, Pennsylvania

Structural analysis and design of 1898 former department store converted to county government offices. Interior renovations included adding floor framing at mezzanine level, analyzing and redesigning deficient floor framing, and adding new elevators. Exterior renovations included complete façade rework to recreate original appearance.



### **METROPOLITAN EDISON**

Reading, Pennsylvania

The two-story, 5000 SF lobby replaced an outdated 1200 SF lobby and business office. The lobby addition, which serves as a focal piece for the Headquarters Complex, contains several conference rooms and a second floor bridge spanning the width of the lobby. The lobby addition consisted of structural steel framing. An 80,000 SF office addition was constructed during the second phase of this project. A semi-circular cafeteria addition was located at the rear of the complex.





# STRUCTURAL INVESTIGATION HAWKS NEST STATE PARK LODGE

Ansted, West Virginia

Project includes investigation into causes of structural cracking in existing lodge facility and providing solution to the problem.



Currently completing a report for the Owner with photo documentation of conditions found and recommendations for repairs and associated construction cost estimates.



Part of the investigation included having a contractor perform probes to observe the condition of the structural elements and connections.



## STAIR TOWER #4 STRUCTURAL REPAIRS HAWKS NEST STATE PARK LODGE

Ansted, West Virginia



Project included structural repairs to masonry wall . An expansion joint was placed in the roof but never in the wall, resulting in a crack in the wall below the joint in the roof.



An expansion joint was cut completely through the exterior wall, an angle was installed in the corners of the stair tower and reinforcing steel and grout were installed to reinforce the walls.



# STRUCTURAL INVESTIGATION

## TWIN FALLS STATE PARK RECREATION BUILDING & LODGE

Mullens, West Virginia



Project includes investigation into causes of structural cracking in existing lodge and recreation buildings and preparation of a construction cost estimate for repairs.

Steel pipe columns have been installed in many locations due to the excessive amount of deterioration that is present at



The structural steel beam within the concrete beam has rusted due to water infiltration through the wall system. Additionally, the steel beam was not designed for current code-related deflection requirements.



## TWIN FALLS STATE PARK LODGE ADDITION

Mullens, West Virginia



Performed structural design for new 28,000 SF addition to existing lodge facility. Addition includes new lobby and conference areas, sleeping rooms, indoor pool facility and all support spaces.

Construction materials consisted of timber, concrete, masonry, precast plank and structural steel.



Project Owner: West Virginia Division of Natural Resources

Contact Person: Brad Leslie, PE

Contact Phone: (304) 558-2764

Professional Services End Date: December 2009

Construction Completion Date: Winter 2010

Construction Cost: \$7.3M

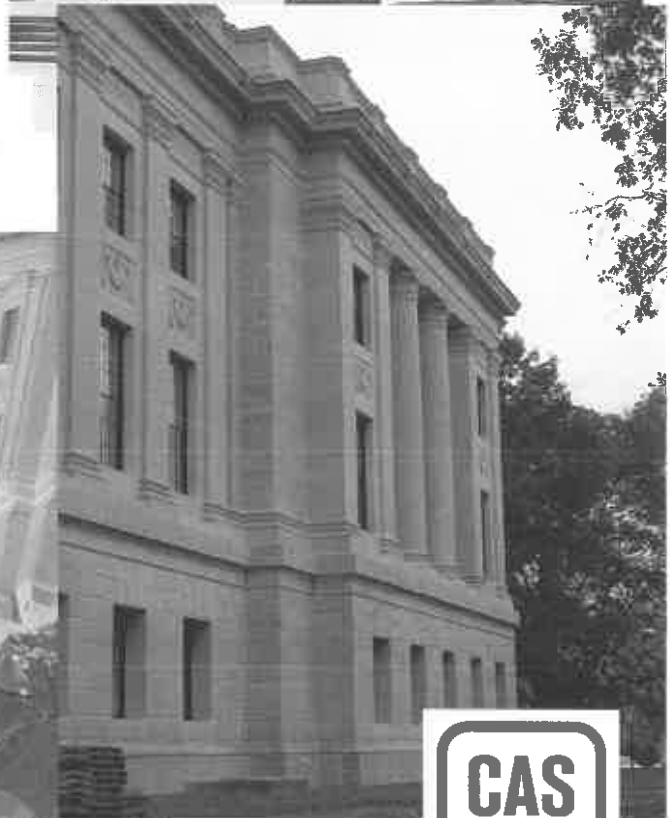


# EXTERIOR FAÇADE RESTORATION MAIN CAPITOL BUILDING

Charleston, West Virginia

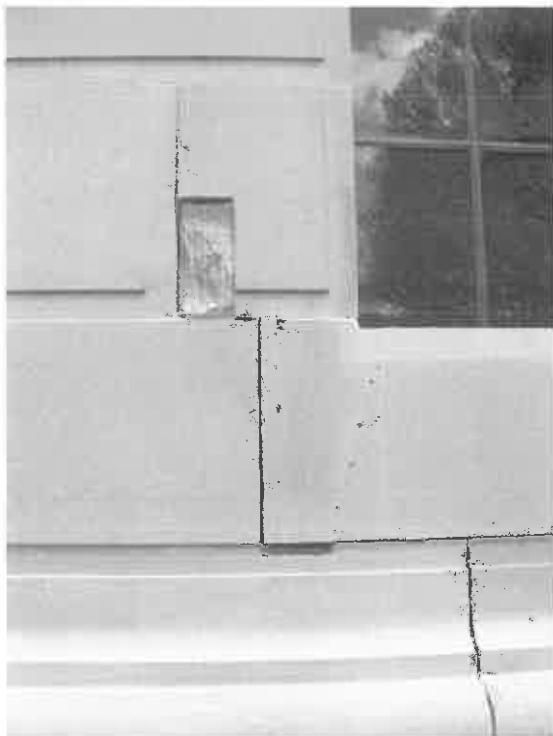


Exterior façade restoration included cleaning, pointing, and repairs to the limestone and terra cotta components, windows and doors.

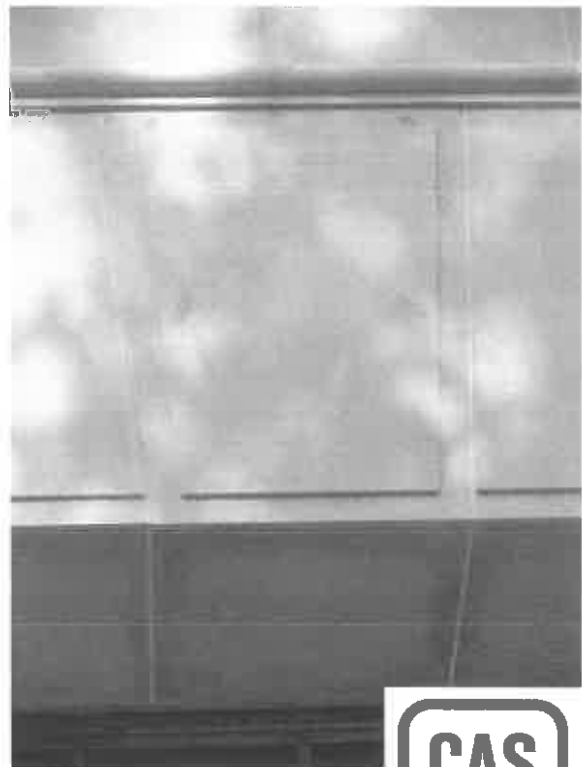




Portions of the limestone cornice were damaged to the point that they fell when work was being conducted and had to be pinned back in place.



Other repairs included various spall repairs, pinning and epoxy injection of larger cracks and lifting and pinning keystones over windows.



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# Joseph E. Bird, ASLA

Vice President  
Project Officer



**Years of Experience:** 37  
**Years with Chapman:** 30

## Education

B.S., Landscape Architecture,  
1981, West Virginia University

## Registration

Landscape Architect: WV, KY

## Affiliations

WV Chapter, American Society of  
Landscape Architects

## Awards

Honor Award, WV ASLA  
Shrewsbury Street Development Plan

## Projects Include

St. Albans Streetscape Improvements  
(St. Albans, WV)

Robert C. Byrd Federal Courthouse  
Site Design (Beckley, WV)

VA Medical Center Healing Garden  
and Site Design (Huntington, WV)

Canaan Valley State Park Ski Facility  
Improvements (Canaan Valley, WV)

Lewisburg L & R Recreation Trail  
(Greenbrier County, WV)

Smith Street Streetscape Improvements  
(Charleston, WV)

Sixth Street Streetscape Improvements  
(Covington, KY)

## Qualifications

### Site Development

Site planning and project management for numerous projects throughout West Virginia ranging from small campus sites to large sites for commercial, government, industrial, and institutional development. Projects include military complexes, campuses, public housing developments and other public facilities.

### Parks and Recreation

Projects include swimming pools, bathhouses, cabins and support facilities for the West Virginia Division of Natural Resources and similar facilities for county and municipal park systems. Also involved in the design of facilities such as softball fields, fishing access facilities, recreation facilities for prisons, as well as passive recreation areas for public and private clients.

### Miscellaneous

Other project experience includes the urban planning and development, streetscape design, roadway and storm drainage projects, as well as the project management of numerous major architectural projects throughout West Virginia. His recent relevant project experience includes the design and/or management of major recreation projects including the Beech Fork State Park Campground Improvements; the Beech Fork State Park Cabin Project; the Beech Fork State Park Swimming Pool and Bathhouse; the Blackwater Falls Cabin Projects; the Canaan Valley Golf Course Drainage Improvements Project, and the Canaan Valley Ski Area Improvements Project.

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# W. Thomas Cloer, III, NCARB, AIA

## Project Architect



**Years of Experience:** 14  
**Years with Chapman:** 9

### Education

B.S., Architecture, 2001  
University of Tennessee

### Registration

Architect: WV, VA

### Affiliations

National Council of Architectural  
Registration Boards  
WV Chapter,  
American Institute of Architects  
St. Albans Property and Maintenance  
Board Member  
St. Albans Historic District  
Committee Member

## Qualifications

### Architectural Design

Experience ranges from drafting, detailing and design through project management and construction administration of building projects throughout West Virginia and Virginia.

### Experience Includes

- Public School Facilities
- Government Facilities
- Office Buildings
- Medical Office Facilities
- Single Family Housing
- Multi-Family Housing
- Recreational Facilities
- ADA Assessments
- Site Planning

### Projects Include

Smithville Elementary School Renovation/Addition  
(Ritchie County, WV)

Man K-8 School Addition  
(Logan County, WV)

Jane Lew Elementary School Addition  
(Lewis County, WV)

New Blackwater Falls State Park Cabins  
(Davis, WV)

New Canaan Valley State Park Ski Lodge  
(Canaan Valley, WV)



# ARCHITECTURE



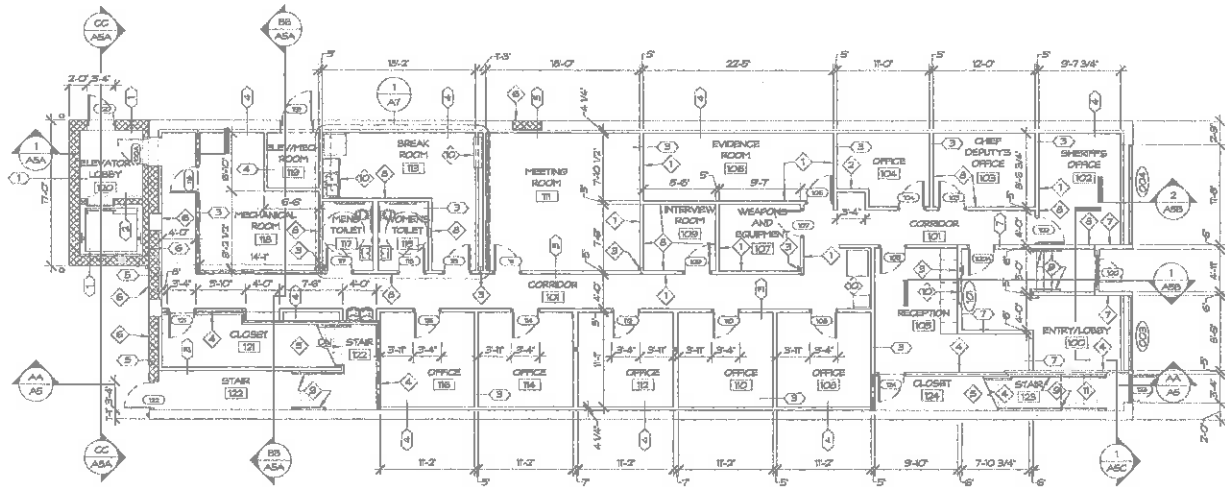
## WV Division of Natural Resources Canaan Valley Resort State Park - Tube Park Lodge Canaan Valley, West Virginia



Chapman Technical Group is leading a team of specialists in developing a wide range of improvements at the ski area of Canaan Valley Resort State Park. The upgrades include new facilities that will have a major impact on the resort's operations; others will be little-noticed but important improvements to the resort's infrastructure. A new tubing park will be developed and will feature a 12-lane tube run in excess of 800 feet long with a vertical drop of 90 feet. A new boardwalk conveyor will carry tubers back up the hill. A tubing lodge will feature a wood-burning fireplace, restrooms, and a concession stand for hot drinks, and an outdoor patio will include a wood-burning fire pit. A storage building will house tubes and snow grooming equipment. In the same area, a wobble clay shooting range will be developed as a seasonal activity. Another major improvement will be a new beginners slope and ski school area. This new slope will be easily accessible by beginning skiers and will include new snow guns

and lighting for night skiing. A boardwalk conveyor will carry skiers back to the head of the slope, enabling them to ski at their skill level as long as they want. The main ski lodge, the Bear Paw Lodge, is relatively new, but the older buildings at the base of the ski slopes will get a much-needed face lift. New wall and floor finishes, new furnishings, new lighting and upgrades to the heating and ventilation systems, will make the lodge buildings much more comfortable. The pub will likewise be upgraded with an expanded bar area. Outside, a new plaza with a fire pit will provide more options for outdoor seating. Important infrastructure improvements will include upgrades and major maintenance to the existing ski lifts; snow-making waterline repairs and upgrades; new snow guns; and major storm drainage improvements. A new waterline from the Canaan Valley golf course ponds will provide expanded snow-making capabilities.

# ARCHITECTURE



FIRST FLOOR PLAN  
SCALE 1/8" = 1'-0"

## Mason County Sheriff's Office Point Pleasant, WV

The Mason County Commission selected this existing building adjacent to the County Courthouse to be headquarters for the Mason County Sheriff's Department. The three story 11,500 square-foot facility remained basically unchanged on the exterior with the exception of minor facade repairs, new doors and windows. The first floor interior of the building was completely demolished and rebuilt to house the new Sheriff's Office while the second and third floor were renovated for Sheriff's office storage, voting machine storage and programming, and other County needs. Other additions and renovations included a new elevator at the rear of the building, a new sprinkler system throughout the building,



# ARCHITECTURE



## WV Division of Highways State Road Commission Building Renovation Charleston, WV

As part of the West Virginia Division of Highways District One Campus Renovation, the former State Road Commission Building was renovated to serve as an office building for various DOH personnel. The historical 40,000 square-foot facility retained many historical features, including many original doors and transoms, while providing energy-efficient and cost-effective systems throughout. In addition to a complete interior makeover that included a historic information center and radio studio, the building also received new exterior doors, windows, roofing and a new elevator. A skywalk connects the building to a new Headquarters Building being constructed beside the SRC Building, and a courtyard between the two will be provided for employee use.





## West Virginia Division of Natural Resources Canaan Valley Resort State Park - Ski Area Improvements Canaan Valley, West Virginia

Chapman Technical Group led a team of specialists in the development of a wide range of improvements at the ski area of Canaan Valley Resort State Park.

A new tubing park features a 10-lane tube run in excess of 800 feet long with a vertical drop of 90 feet. A new boardwalk conveyor carries tubers back up the hill and at the base, a tubing lodge includes a wood-burning fireplace, rest rooms, and a concession stand for hot drinks, and an outdoor patio. In the same area, a wobble clay shooting range will be used as a seasonal activity.

Another major improvement is the new beginners slope and ski school area. This new slope will be easily accessible by beginning skiers and includes snow guns and lighting for night skiing. A boardwalk conveyor



carries skiers back to the head of the slope.

The original ski lodge buildings received a much-needed face lift, including new wall and floor finishes, new furnishings, new lighting and upgrades to the heating and ventilation systems. Outside, a new plaza with a fire pit provides more options for outdoor seating. Important infrastructure improvements include upgrades and major maintenance to the existing ski lifts; snow-making waterline repairs and upgrades; new snow guns; and major storm drainage improvements. A new waterline from the Canaan Valley golf course ponds provides expanded snow-making capabilities.



## **B. Craig Miller, PE, President**

Craig founded Miller Engineering in 2003, and serves as President and Principal Engineer. He has more than 20 years experience in design, specification, operations and project management. During his employment with WVU, Craig was directly involved with approximately \$130 million in new capital construction. His experience with a wide range of projects including HVAC, electrical, plumbing, infrastructure upgrades, building automation, energy efficiency and maintenance/renovation, among others, allows him to serve in multiple capacities within a given project. Craig will serve as the "Relationship Manager" for Miller Engineering as the main communication interface between the Owner, the design team, contractors and end users.

### **Project Role: Relationship Manager – Primary Point of Contact**

- *Engineer in Responsible Charge*
- *Design and Project Management of Mechanical, Electrical, Plumbing Projects*
- *Concept and Construction Design*
- *Business Operations and Financial Management Oversight*
- *Quality Assurance and Control*

### **Professional Project Highlights**

- *WVU Recreation Center Indoor Pool – Owner’s Engineer*
- *WVU Life Sciences Building and Student Recreation Center – Owner’s Engineer*
- *Camp Virgil Tate*
- *Mapletown High School HVAC Replacement*
- *Advanced Surgical Hospital*
- *Holly River State Park Primary Electric Service Replacements Phase I & II*
- *Beech Fork State Park – MEP New Construction Design*
- *WVU Willowdale Walkway*

### **Professional History**

|               |                          |   |
|---------------|--------------------------|---|
| 2003- Present | Miller Engineering, Inc. | President, Relationship Manager           |
| 2002-2003     | Casto Technical Services | Existing Building Services Staff Engineer |
| 2001-2002     | Uniontown Hospital       | Supervisor of Engineering                 |
| 1995-2001     | West Virginia University | Staff Engineer                            |
| 1990-1995     | BOPARC                   | Caretaker – Krepps Park                   |
| 1983-1988     | University of Charleston | Electrician/HVAC Mechanic                 |

### **Education**

|      |                          |                            |
|------|--------------------------|----------------------------|
| 1995 | West Virginia University | BS- Mechanical Engineering |
| 1988 | University of Charleston | BA- Mass Communications    |

### **Licenses and Certifications**

- Professional Engineer (West Virginia, Pennsylvania, Maryland, and Ohio)
- Licensed Master Plumber
- LEED-AP Certified



## **Travis Taylor, PE**

Experience in project management facilitates Travis's ability to create and design constructible projects. Prior to joining the Miller Engineering team he was directly responsible for managing \$10 million in electrical construction budgets. His experiences encompass both new construction and renovation. Travis maintains professional competencies by attending seminars and continuing education classes. As lead engineer he provides HVAC, mechanical, plumbing and electrical design solutions and services for our clients. In addition, he is part of our team's complete assessment process in both planning and MEP design through construction administration.

### **Project Role: Lead MEP Engineer**

- *Design of Mechanical, Electrical, and Plumbing Systems*
- *Constructible Materials Evaluation*
- *Site Evaluation and Mechanical System Review*
- *Submittal and RFP Review*
- *RFI Coordination, Review, and Response*
- *Construction Observation*

### **Professional Project Highlights**

- *Krepps Park ADA Upgrades*
- *Holly River State Park Primary Electric Service Replacements Phase I & II*
- *Beech Fork State Park Lodge Design Development*
- *Pipestem Lodge McKeever Lodge HVAC Piping Replacement*
- *WV Veterans Memorial Restoration*
- *Bobtown Elementary School HVAC Upgrades*

### **Professional History**

|              |                          |                              |
|--------------|--------------------------|------------------------------|
| 2011-Present | Miller Engineering, Inc. | Staff Engineer               |
| 2006-2011    | Tri-County Electric, Co. | Project Manager              |
| 2006-2006    | Schlumberger             | Field Engineer Trainee - MWD |

### **Education**

2006 West Virginia University, BS – Mechanical Engineering

### **Licenses and Certifications**

- Professional Engineer - State of West Virginia
- OSHA 10-hour Course: Construction Safety & Health



## Jack Jamison

Jack brings 15 years as an electrical/building inspector and over 25 years of experience in the commercial electrical construction industry. His knowledge and experience are valuable resources to Miller's complete assessment process.

### **Project Role: Code and Construction Specialist**

- Facility Review, Code Research, and Project Evaluation
- Field Observations and Issue Resolutions

### **Professional Project Highlights**

- Board Member of the WV Code Officials
- Founder and Secretary of the West Virginia Division of the International Association of Electrical Inspectors
- IAEI Ohio Chapter – Membership Chair

### **Professional History**

|               |                                 |                                  |
|---------------|---------------------------------|----------------------------------|
| 2010- Present | Miller Engineering, Inc.        | Code and Construction Specialist |
| 1999-2010     | Megco Inspections               | Chief Inspector                  |
| 1972-1998     | Jamison Electrical Construction | Master Electrician               |

### **Education**

1971 Fairmont State College, BS-Engineering Technology-Electronics

### **Licenses and Certifications**

- Master Code Professional, IAEI Master Electrical Inspector, Class C Electrical Inspector – WV, PA, MD, & OH
- ICC Commercial Building, Building Plans, Commercial Plumbing, Residential Energy, and Accessibility Inspector/Examiner
- WV Master Electricians License
- NCPCCI-2B, 2C, 4B, 4C: Electrical & Mechanical General/Plan Review
- OSHA 30 Hour Course: General Industry
- NFPA Code Making Panel 14 – NEC 2014 Edition



## Joseph Machnik

Joe has experience with AutoCAD, MEP and Revit MEP. He provides design modeling, drafting and supervised design services and construction support for Miller Engineering.

### **Project Role: MEP Designer**

*Revit/CADD Coordination of New Construction and Renovation Designs*

### **Professional History**

2010 – Present Miller Engineering, Inc. MEP Designer

### **Education**

2008 Penn State – Fayette, AS - Building Engineering Systems Technology: *Building Environmental Systems Technology*  
 2007 Penn State – Fayette, AS - Building Engineering Systems Technology: *Architectural Engineering Technology*



### **Robert Angus**

*20 Years of maintenance, operations, and construction management precede Rob's engagement with Miller Engineering. Professional expertise of construction project management was gained as an owner of his own contracting company specializing in residential and commercial construction, electrical, plumbing, and HVAC projects.*

*Rob's hands-on approach, common sense and valuable work history knowledge enables him to interface with construction personnel seamlessly alongside engineers and architects. He is adept at preventing and handling issues. Rob is involved at the estimation phase to allow for continuity within the project's design and construction.*

#### **Project Role: Aquatic Construction Representative**

- Construction Project Representation and Management
- Project Cost Estimation
- Submittal Review
- RFI, RFPCO Review and Response

#### **Professional Project Highlights**

- 3<sup>RD</sup> Party Construction Observation – Canaan Valley Resort
- Advanced Surgical Hospital
- Cheat Lake Elementary HVAC Upgrade
- Suncrest Middle School Gym HVAC Upgrade
- North Elementary School Boiler/AC
- Mapletown Jr./Sr. High School HVAC/Boiler Upgrade
- WVU Research Building Office Renovation

#### **Professional History**

|               |                          |                                     |
|---------------|--------------------------|-------------------------------------|
| 2009- Present | Miller Engineering, Inc. | Aquatic Construction Representative |
| 2000-2009     | Angus Contracting, LLC   | Owner/Operator                      |
| 1991-2000     | BOPARC                   | Director of Maintenance             |

#### **Education**

|      |  |   |
|------|--|---|
| 2000 | Monongalia County Technical Education Center | Heating, Cooling, and Refrigeration Certification |
| 1996 | West Virginia University                     | Recreation and Parks Administration               |

#### **Licenses and Certifications**

- Licensed West Virginia General Contractor
- Licensed West Virginia HVAC Contractor
- Certified HVAC Mechanic Contractor
- Licensed West Virginia Journeyman Electrician
- Licensed West Virginia Master Plumber
- OSHA 10-Hour Construction Safety & Health



## Project Experience: HVAC Renovation

### Hawks Nest/Twin Falls

#### Services Provided:

- Mechanical
- Electrical
- Plumbing
- HVAC
- Engineering Design

**Estimated Budget: \$1.3M**

**Facility Area: 28,500 ft<sup>2</sup>**

**Owner: West Virginia Division  
of Natural Resources**



A building on the National Register of Historic Places, the Hawks Nest's HVAC replacement had to be accomplished with minimal impact on the building façade and structure. As an ARRA/WVDOE funded project, it had an extremely short design period and delivery requirement. The construction period was shortened by 20% by the owner after bidding, making our construction administration all the more critical in delivering the project. The funding agency commented that the project was initiated by the owner "much later" than many others but finished first and completely met the requirements of the funding agency.

**Project Contact:**  
*Bradley S. Leslie, PE, Assistant Chief*  
*State Parks Section*  
*Phone: (304) 558-2764*

## Project Experience: Construction Administration

### Canaan Valley Resort

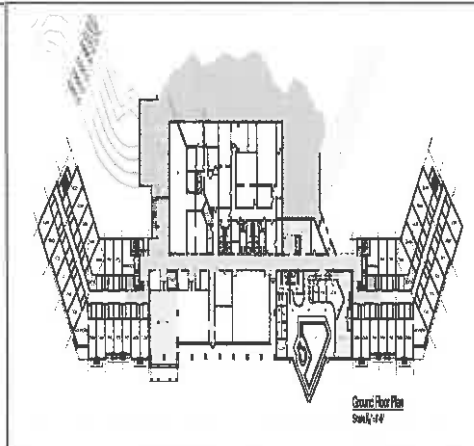
#### Services Provided:

- Mechanical
- Electrical
- Plumbing
- HVAC
- Hydronic Pipe

**Estimated Budget: \$30M**

**Facility Area: 68,000 ft<sup>2</sup>**

**Owner: West Virginia Division of Natural Resources**



Part of keeping a large project on schedule is the ability of Miller Engineering Inc.'s staff to provide rapid and complete response to any contractor questions. MEI was brought in by the owner to provide MEP construction administration to provide quality assurance and 3<sup>rd</sup> party MEP design review. MEI's staff was very involved in keeping the project on schedule and in accordance with the construction documents. Detailed construction observation helps to minimize downtime and change orders. MEI's construction administration provided technical support for problem resolution throughout the project, warranty and issue support and quality of work evaluation during construction.

Project Contact:  
*Bradley S. Leslie, PE, Assistant Chief*  
*State Parks Section*  
*Phone: (304) 558-2764*

## Project Experience: HVAC Upgrade

### **Blackwater Falls State Park**

#### **Services Provided:**

- Detailed Surveying
- Mechanical
- Air Conditioning
- HVAC

**Estimated Budget: \$185k**

**Facility Area: 3,000 ft<sup>2</sup>**

**Owner: West Virginia Division of  
Natural Resources**



The Lodge dining room was originally constructed with a heating only air system. As the facility has increased in popularity and the dining room begins to fill with visitors, the temperature and humidity levels became uncomfortable and air conditioning was needed. Miller Engineering (MEI) performed a detailed survey of the system, allowing them to make appropriate and relevant recommendations. MEI designed a replacement air system to include air conditioning. This was achieved by installing an air handling unit on the exterior and ducting it into the facility. To prevent the new equipment from becoming an eyesore and interfering with the views from the lodge, some of it is mounted remotely in a loading dock area. The equipment also serves as the makeup air to the kitchen. A reheat configuration was incorporated into the design to give better humidity control.

#### **Project Contact:**

*Bradley S. Leslie, PE, Assistant Chief  
State Parks Section  
(304) 558-2764 ext. 51826*

# David L. Morris



**DLMDECISIONS** LLC

PO Box 777  
Alum Creek, West Virginia 25003  
(304) 741-1623 mobile  
(304) 756-1209 office  
Email: dlm@dmlmdecisions.com

## CAREER HISTORY:

|                |                                     |   |
|----------------|-------------------------------------|---|
| 2012 – Present | DLM Decisions LLC                   | Managing Member                               |
| 2009 - 2010    | Pray Construction Company           | Project Manager                               |
| 2007 – 2014    | Q2 Builders LLC                     | Member  |
| 1997 – Present | Quantum Construction Services, Inc. | President                                     |
| 1994 - 1997    | Wiseman Construction Company        | Vice President                                |
| 1988 - 1994    | Pray Construction Company           | Chief Estimator / Project Manager / Estimator |
| 1983 - 1988    | State Farm and Prudential Insurance | Estimator in Property & Casualty Divisions    |

## CAREER PROJECT LIST – PARTIAL:

### Major Projects - Consulting - Current:

- Boone Memorial Hospital, New Building - Clerk of the Works – Madison, WV
- Pipestem Resort State Park, McKeever Lodge – Cost Analysis – Pipestem, WV
- Holly Grove Mansion – Probes / Estimating / Project Analysis – Charleston, WV

### Major Projects - Consulting - Completed:

- West Virginia Main Capitol Building, Exterior Dome / Exterior Stone – Probes – Charleston, WV
- Twin Falls Resort State Park, Pool – Cost Analysis – Mullens, WV
- Hawks Nest State Park, Stair Tower – Cost Analysis – Ansted, WV
- Pipestem Resort State Park, Pool – Cost Analysis – Pipestem, WV
- Twin Falls Resort State Park, Beam Repair – Construction Administration – Mullens, WV

### Major Projects Constructed:

- Star USA Credit Union Branch Office – New Buildings – Beckley, WV and St. Albans, WV
- West Virginia State University, Erickson Alumni Center – New Building – Institute, WV
- West Virginia State University, Plaza – New Construction – Institute, WV
- Clay Junior High School – 3 Story Instructional Wing Addition – Clay, WV
- West Virginia Radio Corporation, Complete Exterior/Partial Interior Renovation – Charleston, WV

### Major Historical Projects Constructed:

- West Virginia Main Capitol Building, Interior Dome – Renovation – Charleston, WV
- West Virginia Main Capitol Building, West Wing Senate Offices – Renovation – Charleston, WV
- Marshall University, Old Main Building – Masonry Restoration – Huntington, WV

### Major Projects Estimated (and received):

- NIOSH Building Addition – Morgantown, WV (approx. \$31,000,000.00)
- William R. Sharpe Hospital – Weston, WV (approx. \$28,000,000.00)
- Northern Regional Jail – Moundsville, WV (approx. \$11,000,000.00)

## EDUCATION:

Fairmont State College; Fairmont, West Virginia 26554  
Bachelor of Science Degree in Architectural Engineering Technology  
(May 1983)

## LICENSES:

WV General Contractors License - [REDACTED]  
WV Master Plumber - [REDACTED]