

Expression of Interest

WV Division of Natural Resources

Hawks Nest CCC Museum and Pavilion

Restoration Project

SHAKES-14" TO WEATHER
BUILDING PAPER
1" SHEATHING

CEMENT WASH

STONE

SIDING

6" LOG RAFTERS-18" O.C.

2"X4" STUDS
BOARDED
OVER

HEWN
LOGS

CIG. OUTLET
SEE DETAIL

TRUSS-
SEE DETAIL

2"X4" STUDS
16" O.C.

PLASTER
MEDALLION

WOOD
SHELF

WOOD
BRACKETS

CASE

STRUT AT
EACH TRUSS

WOOD STEPS

WOOD FLOOR - ELEVATION 88.5

1"X3" CROSS BRIDGING

2"X10" JOISTS-16" O.C
8"X10" GIRDER
ELEV. 83.7

VENT-IRON

GRADE E
83.3

ELEV. 82.

FLAGSTONE FLOOR - ELEVATION 79.0

79.7

ELEV. 8

VISIONS



E GUTTER

ELEV. 79.0

A.R.C.H.I.T.E.C.T. CROSS SECT

SCALE: 1/4" = 1'-0"



DLM DECISIONS *Inc*

ELEV. 75.2





A · R · C · H · I · T · E · C · T · S

July 19, 2018

Division of Natural Resources
Property & Procurement Office
324 4th Ave.
South Charleston, WV 25303-1228

**Re: *Expression of Interest DNR 180000007
Architectural/Engineering Services for
Hawks Nest CCC Museum and Pavilion Restoration***

Dear Selection Committee:

N Visions Architects is pleased to submit our qualifications for the Hawks Nest project. We have assembled our expert Team with the experience to design and manage the renovation and preservation of this historic CCC building. All the members of our Team have experience in a wide range of projects, both large and small, simple and complex.

N Visions Architects will be responsible for this project with George Soltis, AIA, as the Principal and project Manager. George has a varied background in historic architecture meeting NPS 36CFR61.9WV.

Structural Engineering analysis and design will be provided by CAS Structural Engineering. Carol Stevens, PE, will be the structural engineer for the project. Carol has extensive experience with historic structural issues and solutions.

Mechanical-Electrical-Plumbing analysis and design will be provided by Miller Engineering. Craig Miller, PE, will be the MEP Principal for the project. Miller Engineering's experience covers a wide variety of project types including systems for historic properties.

Cost Estimating/Budget Control will be provided by DLM Decisions. David Morris will be the cost estimator and budget watchdog for the project from design through completion. David has the construction and management knowledge necessary to determine probable cost and make sure the project scope meets the Owner's budget.

Communications are important to our Team and to delivery of a successful project. Correspondence between the Owner, the Owner's representative and the Design Team and eventually the Contractor are crucial. George Soltis will be the point of contact for communications, design solutions, project issues and solutions. Information will be shared with all parties through a variety of electronic and paper means. Documentation will be maintained all through the project.

Budget Control is very important to our Project Team. We all have an excellent record of completing projects within Owner's budget and providing the owner with options, if needed, to keep the project within budget while meeting the Owner's needs. DLM Decisions will help keep us all on track.

Schedule Control for both design documentation, bidding and construction is important. A project schedule will be developed early in the process with the Owner and updated as required. Delivery of Architectural/Engineering documents will be established and reviewed, and bidding dates selected. Upon receiving a successful bid for the Work, a Contractor's schedule will be established and approved and every effort will be made to make certain the schedule is adhered to. Clarification, unforeseen conditions and other items that may impact the schedule will be resolved quickly and documented so the effect on the Schedule will be minimal. All parties will be kept current with the progress of the work.

Experience on this type of project is what our Team excels in. George Soltis has varied, unique experience as a Historic Architect meeting NPS 36CFR61.9WV. His experience in planning small and large projects and logistical experience will make the Hawks Nest Project a success. Carol Stevens and Craig Miller have extensive engineering expertise in working with historic projects in West Virginia. David Morris's background in construction management and estimating will round out the Team, keeping the budget and schedule foremost in everyone's mind. Let us not forget the Owner, whose vision and input makes the project scope possible.

I believe N Visions Architects and Consultants are ideally suited to design and deliver this project at Hawks Nest within budget.

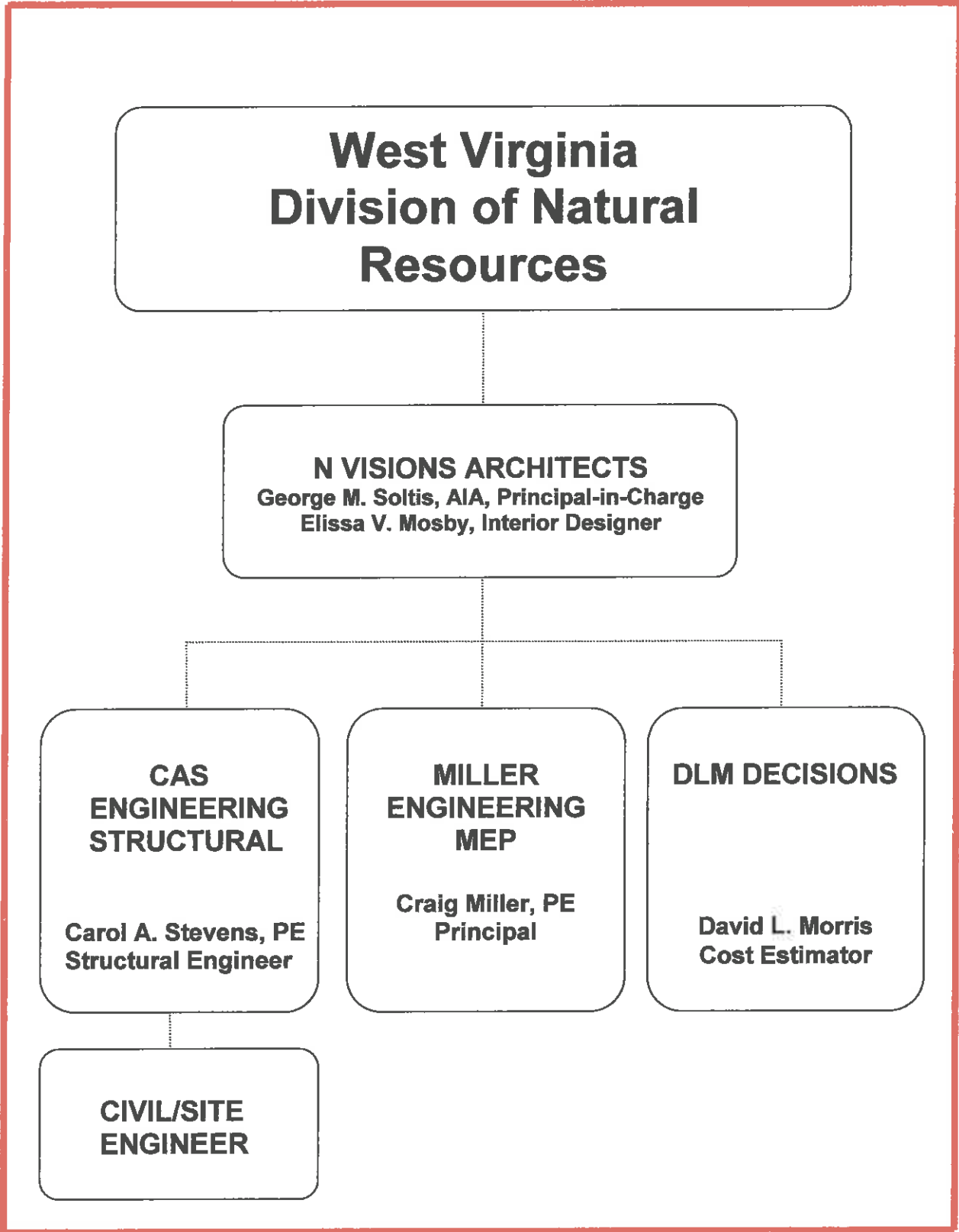
My first experience with Hawks Nest came when my parents took me there when I was less than four years old. Over the past six decades, I have visited Hawks Nest almost yearly; it is a special place. During the course of those visits, over those years, I have noticed what I feel was a slow decline in the property but with some noticeable improvements in places. I welcome the opportunity for our Design Team to be part of the Owner's vision to re-imagine and restore this wonderful place so that more visitors will have the opportunity in the future to seek an adventure, create a memory, discover new things, appreciate the architecture and craftsmanship with the natural beauty of Hawks Nest.

We look forward to meeting with the Committee to present our qualification in greater detail and discuss the vision for the project.

Very truly yours,



George M. Soltis, AIA, NCARB
Architect
GMS:ps



Hawks Nest CCC Museum and Pavilion Restoration Project Table of contents

- 1 Project Approach
References
Required Forms**
- 2 N Visions Architects**
- 3 CAS Structural Engineering**
- 4 Miller Engineering**
- 5 DLM Decisions**

Hawks Nest CCC Museum and Pavilion Restoration Project Project Approach Concept

Develop scope of work with Owner
Determine budget constraints
Develop schedule with milestones for review
Communicate with all parties

On site project investigation and evaluation
Research existing plans and specifications
Determine impact of existing conditions and scope of work on budget
Refine scope of work, begin design, review budget, review schedule
Document the design process, suggestions and changes

Design reviews with the Owner and Others (State Fire Marshall, State
Historic Preservation Office, National Park Service, etc.)
Determine how review/approval dates affect schedule
Budget update, schedule update

Prepare construction documents within budget constraints, review schedule
Reviews of construction documents at 30%, 70%, 100% with Owner
Final budget review, estimate of probable cost.
Finalize schedule concept

Assist in advertisement for bids
Attend pre bid meeting, publish meeting minutes
Attend bid opening
Review bids with Owner
Review successful Contractor's schedule
Prepare Contract for construction

Contract Administration
Shop drawing review
Bi monthly site visits, additional visits as required
Monthly formal project meetings on site, publish meeting minutes
Provide solutions for unforeseen conditions and Owner changes
Resolve conflicts
Review and approve applications for payment
Budget and cost review and control, monitor schedule
Final walk thru and project closeout



REFERENCES

Chuck Wilson, Director of Facilities, Kanawha County Board of Education
3300 Pennsylvania Avenue, Charleston, WV 25302, 304-348-6148

Sissonville High Commons Addition/Renovations, Sissonville, WV
Nitro High School Commons Addition/Renovations, Nitro, WV
East Bank Middle School Renovation, East Bank, WV
New Sissonville Middle School, Sissonville, WV
South Charleston Middle School Elevator, Windows, Toilet Renovation
Montrose Elementary HVAC and Window Replacement
Nitro High School HVAC and Toilets Renovation
Herbert Hoover High School Addition and Renovation
Elkview Middle School Addition and Renovation
South Charleston High School Addition and Renovation
George Washington High School Addition and Renovation
Auxiliary Gyms – Four County high schools
Piedmont Elementary Addition and Renovation

Brooks McCabe, McCabe • Henley
P. O. Box 11108, Charleston, WV 25339, 304-342-4415

Summers Square, Summers and Quarrier streets, Charleston, WV
Capitol City Building, Capitol and Quarrier streets, Charleston, WV
One Kenton Drive, Northgate Office Park, Charleston, WV
KB & T Building, Capitol Street, Charleston, WV
The Strand, Hale Street, Charleston, WV

Rick Atkinson, City Manager
City of South Charleston, 401 D Street, South Charleston, WV 25303
304-744-5301
Yeager Airport Parking Facility
Yeager Airport, John D. Rockefeller IV Terminal
Passenger Access Control and ADA Accessibility

STATE OF WEST VIRGINIA
Purchasing Division
PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: 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: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, 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: N Visions, Inc.

Authorized Signature: [Signature] Date: 7/27/18

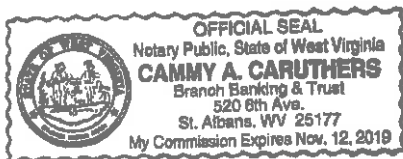
State of WV

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 27 day of July, 2018.

My Commission expires NOV 12, 2019

AFFIX SEAL HERE



NOTARY PUBLIC

[Signature]

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.:

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 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.

N Visions, Inc.

Company

Authorized Signature

Date

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

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

George M. Soltis, Principal/Architect

(Name, Title)

GEORGE M. SOLTIS PRINCIPAL/ARCHITECT

(Printed Name and Title)

83 Olde Main Plaza, St. Albans, WV 25177

(Address)

Ph. (304)744-3654 Fax (304)201-1209

(Phone Number) / (Fax Number)

nvisions@n-visions.com

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated 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.

N Visions, Inc.

(Company)



George M. Soltis, Principal/Architect

(Authorized Signature) (Representative Name, Title)

GEORGE M. SOLTIS PRINCIPAL/ARCHITECT

(Printed Name and Title of Authorized Representative)

7/26/18

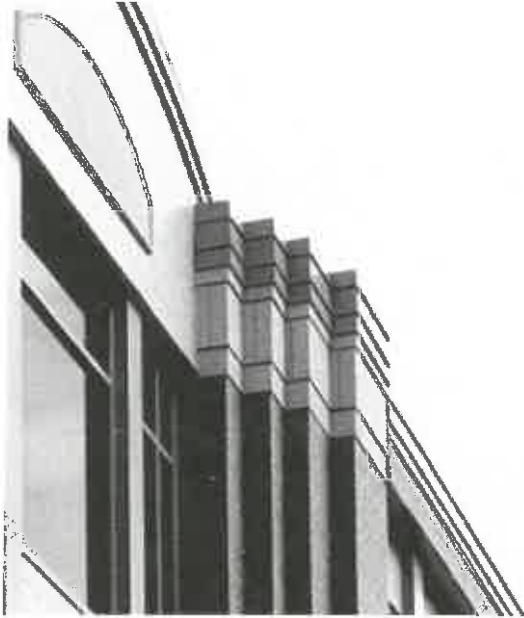
(Date)

Ph. (304)744-3654 Fax (304)201-1209

(Phone Number) (Fax Number)

**Hawks Nest CCC Museum and Pavilion
Restoration Project
Architecture
Planning**





N Visions has designed and administered the construction of over 200 million dollars of projects in West Virginia since 1985.

N Visions has experience in a wide range of architectural projects including educational, institutional, healthcare, housing, public and private facilities for developers and non-profits, historic preservation, and residential properties.

Design is the heart of a successful project. It is important to provide the proper aesthetics, functional relationships, space planning, and to be a good neighbor in the community and meet the project budget. N Visions will make certain that your project is successful for both the owner and the community.

FACILITIES PLANNING AND PROGRAMMING

Determining the actual needs of the client and how to adapt them to the available environment is essential for a successful project. N Visions will assist in defining the needs and desires of the client/user prior to the design of the project.

SITE EVALUATION

N Visions Architects can provide studies of potential project sites for evaluation by the Owner. Geotechnical, utility, environmental, and property utilization will be evaluated, to allow the Owner to make a site selection decision.

EXISTING FACILITIES EVALUATION

Use of existing facilities requires an educated understanding of potential opportunities and risks that may be encountered. N Visions will assist the Owner in determining how to best enhance the use and reduce the risks to reach a solution.

CODE COMPLIANCE

The State Fire Marshal, School Building Authority, U.S. Army Corps of Engineers, State Historic Preservation Office, Health Department, and other agencies have specific requirements that must be addressed in all building projects. N Visions has worked with these agencies, and others, on numerous projects, and is familiar with their personnel and regulations. N Visions has a positive working relationship with these agencies, and in many cases involves them early in the design process, which translates into benefits to the Owner.



GEORGE M. SOLTIS, AIA, NCARB
Principal/ President

Academic Experience

Bachelor of Architecture with Distinction
University of Kentucky – 1977
Conservation USA – 2007

Registration

N. C. A. R. B. No. 55,660
Active: West Virginia, Virginia, Kentucky
Inactive: Tennessee

Professional Associations

AIA/WV West Virginia
AIA American Institute of Architects

Civic Organizations

Boy Scouts of America
Buckskin Council Executive Board
Troop 195 Committee Member

Boy Scouts of America, Order of the Arrow,
Central Region C4B,
Area Four Summit Chairman

Responsibility

Principal-in-Charge, Administration/Design
Principal and Owner of N Visions

Project Experience

Historic Architecture

Historic Architect,
Meeting NPS 36CFR61.9 WV

Restoration of West Virginia
Governor's Mansion Porch

Criel Mound Park Master Plan
Restoration/Renovation of
Criel Mound

Locomotive Shelter,
Chief Logan State Park
Gates Building, Charleston, WV
Renaissance Tower, Charleston, WV
USPS Point Pleasant, WV
USPS Bluefield, WV





Commercial

Ream Interests Office Building
Tri-State Racetrack & Gaming Center
Summers Square Office Building –
One Kenton Drive/Northgate Office Building
Capitol City Building/Renovation/Restoration

Health Care

- Over 38 years Health Care Experience

Boone Memorial Hospital – Madison, WV
Thomas Memorial Hospital –
South Charleston, WV
St. Francis Hospital – Charleston, WV
IRC Rehabilitation Clinic – South Charleston, WV
Stickler Medical Office Building – Charleston, WV
St. Mary's Hospital – Huntington, WV
Montgomery General Hospital –
Montgomery, WV
St. Joseph's Hospital – Buckhannon, WV



Public/Government

New United States Postal Facilities—
Hurricane, WV
Martinsburg, WV
Bluefield, WV
Princeton, WV
Beckley, WV

Educational

Nitro High School Commons
Sissonville High School Commons
New Sissonville Middle School
East Bank Middle School
Herbert Hoover High School
Addition/Renovations
Sissonville Branch, Kanawha County Library
George Washington High School
Addition/Renovations
South Charleston High School
Additions/Renovations
Elkview Middle School Additions/Renovations
South Charleston Public Library
Addition/Renovation
Kanawha County Schools Football Fields
Bleachers and Renovations
Kanawha County Schools Four Auxiliary Gyms





ELISSA VECELLIO MOSBY
Interior Designer

Academic Experience
Bachelor of Fine Arts in Interior Design
Layton School of Art - 1970
Milwaukee, Wisconsin

Professional Associations

AIA Associate Member

Ms. Mosby has design experience with architectural firms covering a wide scope of projects, with a strong emphasis on education, government, and health care related facilities. As the lead interior designer and space planner she matches client requirements with creative and functional solutions, to develop pleasing interior environments, which incorporate the client's long-range planning and maintenance requirements. Ms. Mosby's experience includes the following:

Institutional

Kanawha-Charleston Animal Shelter
WV School of Osteopathic Medicine:
Admissions Building, Renovation of
Administrative and Academic Offices
Complex, Ronald Sharp Alumni Center –
Lewisburg, WV

Educational

Sissonville High School Commons
Nitro High School Commons
New Sissonville Middle School
East Bank Middle School
Kanawha County Library Main Branch
Piedmont Elementary School
South Charleston Public Library
Sissonville Branch,
Kanawha County Library
George Washington High School
Addition/Renovations
South Charleston High School
Addition/Renovation
Greenbrier County Library – Lewisburg, WV
WV School of Osteopathic
Medicine Technology Building –
Lewisburg, WV



PROJECT TEAM



Commercial

Bayer Heritage FCU – Proctor, WV
A.G. Edwards Offices – Charleston, WV
Ream Interests Office Building –
Lewisburg, WV
Tri-State Gaming Center Addition – Nitro, WV
McCabe Henley Properties – Charleston, WV

Health Care

- Over 30 years Health Care Experience

Cabell Huntington Hospital – Huntington, WV
Thomas Memorial Hospital; Office Pavilion, Out
Patient Clinic, Patient Tower –
South Charleston, WV
Robert C. Byrd Clinic – Lewisburg, WV
St. Francis Hospital – Charleston, WV



Public/Government

Robert C. Byrd Federal Courthouse –
Charleston, WV
Veterans Administration Medical Center –
Huntington, WV



GOVERNOR'S MANSION



**West Virginia Governor's Mansion
Exterior Restoration
Terrace Reconstruction
Charleston, WV**

Portico column bases were replaced, all wood finishes stripped, repaired, repainted. Tile terrace repaired and original terrace/porch limestone baluster designed and installed. Light fixtures restored.

Completion

2000

C & O TRAIN STATION

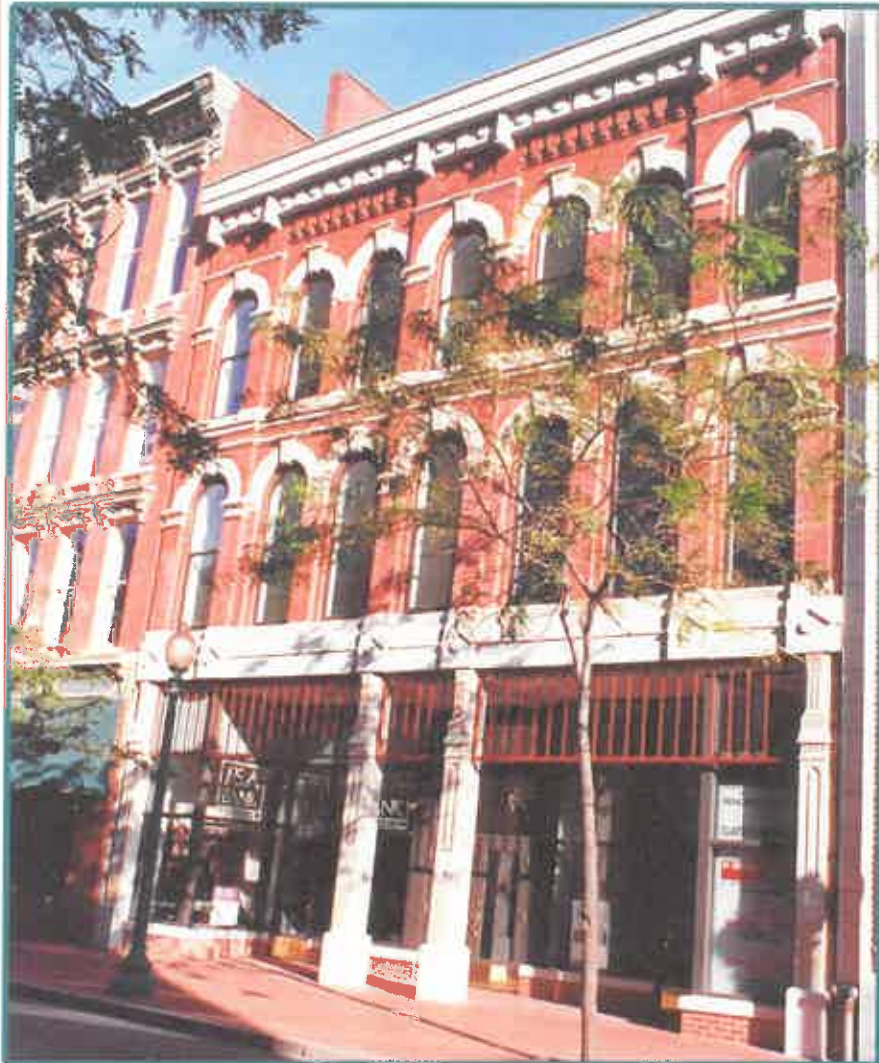


**C & O Train Station
Restoration/Renovation
Charleston, WV**

**Multiple use
redevelopment including
Amtrak Station
Commercial Office Space
Restaurant**

Completion 1990

THE GATES BUILDING



The Gates Building
108 1/2 Capitol Street
Charleston, West Virginia

Historic Replacement Windows
Renovation and restoration of a
Dilapidated 19th century retail
and office building

Cost: \$ 550,000

Completion: 1993



Native American Mounds in the Kanawha valley circa 1884.
Criel Mound, one of three remaining is in red

**Criel Mound
South Charleston, WV**

**Restoration/Rehabilitation
Native American Conical Burial
Mound restored to original shape.
Period appropriate grasses
planted, historic additions and
intrusion were removed.
Surrounding park developed with
walkways, lighting, benches,
archaeological investigation
included, ISTE A project.**

Completion

1996

KB&T RENAISSANCE TOWER



**KB&T Renaissance Tower
Charleston, WV**

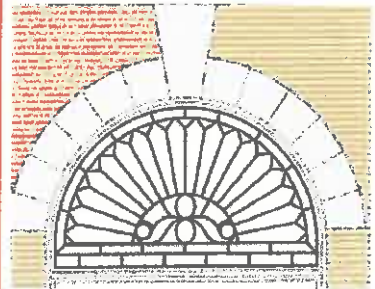
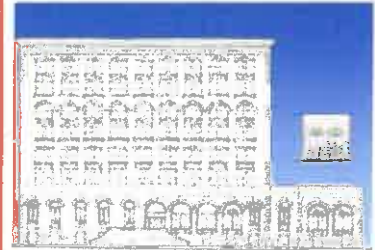
**Historic Replacement Windows
Masonry Restoration**

Existing eleven story landmark bank and office building restored and converted into Class A office space and condominiums. Restoration/renovation designed to make the tower completely ADA accessible.

Completion

1999-2009

KANAWHA HOTEL

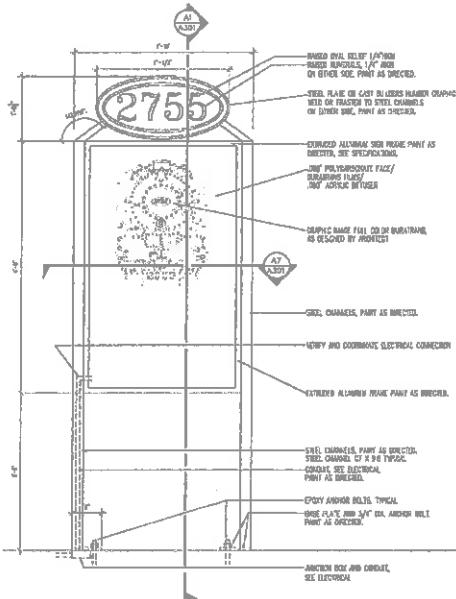
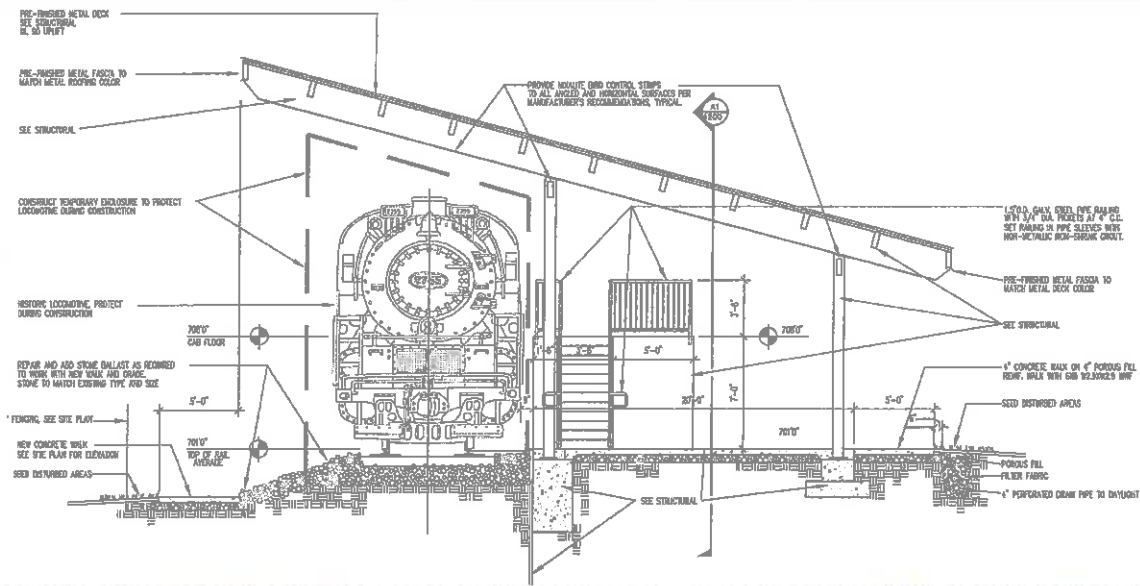


**Kanawha Hotel
Renaissance Tower
Condominiums
Virginia Street
Charleston, West Virginia**

**Restoration Reconstruction
New construction of an existing
1903 Hotel into a full service
upscale hotel**

**Size: 145 Rooms, 100,000 s.f.
Estimated Cost: \$20,000,000**

CHIEF LOGAN LOCOMOTIVE SHELTER



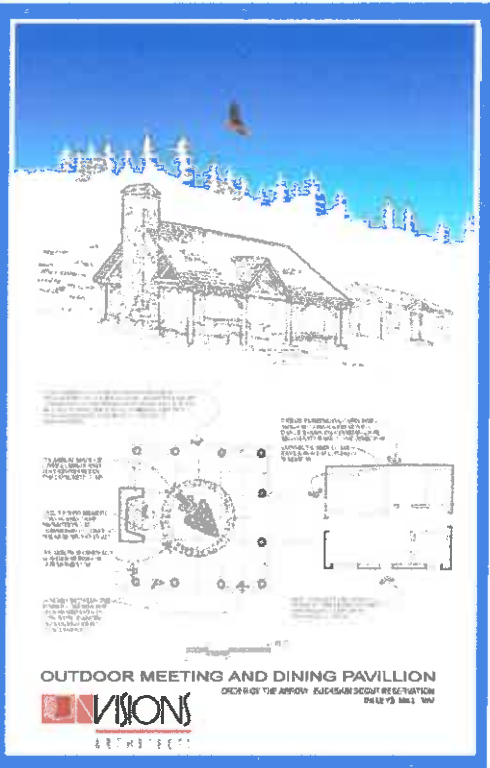
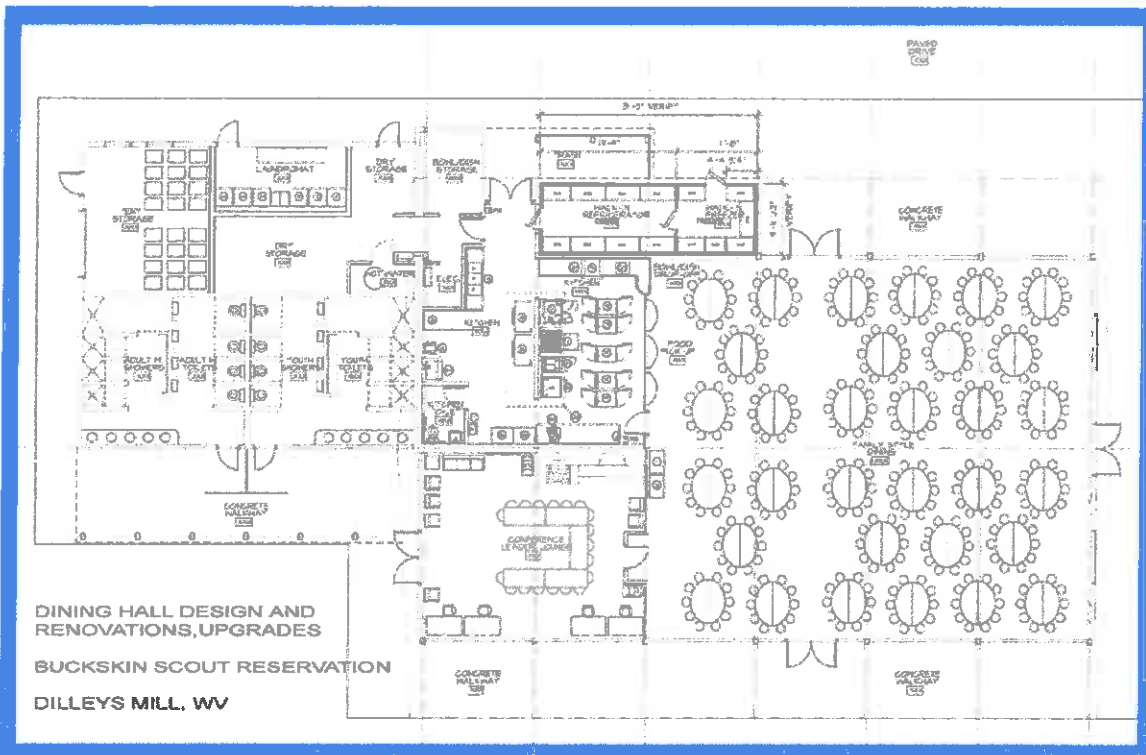
Chief Logan State Park
C & O Locomotive 2755
Locomotive Shed and Displays

An outdoor protected railroad themed shed to protect the recently restored 2755 Locomotive, ADA accessible with interpretive historical display and information kiosks.

Completion:

Pending

BOY SCOUT CAMP DINING HALL



Dining Hall Design, Renovation Buckskin Scout Reservation Dilley's Mill, West Virginia

Complete redesign and renovation of 1960 dining facility. Features include new kitchen, food prep and food storage, accessible dining and toilets, storage space, adult leader lounge and conference area.

Size: 7500sf
Cost: \$ 750,000
Completion: Phase One: 2006

Outdoor Meeting/Dining Pavilion

Rustic outdoor pavilion for meeting and dining activities.

Size: 3600sf
Cost: \$ 250,000
Completion: Pending Funding

BOY SCOUT SERVICE CENTER



BUCKSKIN COUNCIL SERVICE CENTER EXPANSION - KANAWHA BOULEVARD ELEVATION



AERIAL VIEW KANAWHA RIVER ELEVATION



FIRST FLOOR PLAN



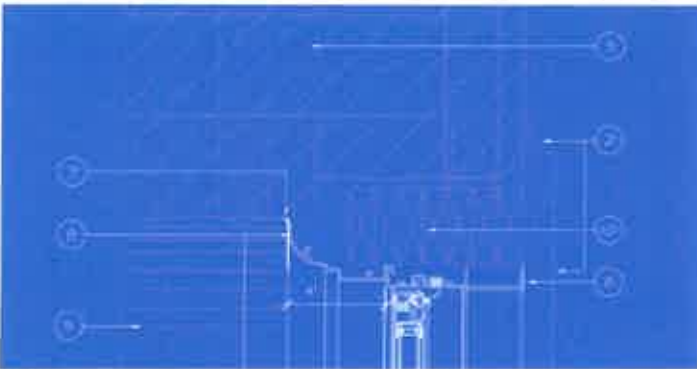
KANAWHA RIVER ELEVATION

**Buckskin Council BSA
Service Center Expansion**

Expansion and renovation of the existing Service Center with administration office, retail sales, and conference center.

Cost: Pending Funding

BLUEFIELD, VIRGINIA POST OFFICE



United States Post Office
Bluefield, Virginia

Replacement Windows,

Historical Building
Original Post Office

Completion: 2009

USPS KENOVA, WEST VIRGINIA



**Main Post Office
Kenova, West Virginia**

**Parking Lot and
ADA Accessibility**

**Cost: \$ 70,000
Completed: 2000**

POINT PLEASANT POST OFFICE



United States Post Office
Point Pleasant, WV

Replacement Windows,
Historical Building
Original Post Office

Completion: 2008

SISSONVILLE HIGH SCHOOL COMMONS



Sissonville High School
6100 Sissonville Drive
Sissonville, West Virginia

Renovation to existing interior
space and addition of new
Commons area and new
administrative offices.

Size: 9,642 sf
Cost: \$ 2,800,000
Completion: 2016

SISSONVILLE MIDDLE SCHOOL



Sissonville Middle School
5950 Sissonville Road
Sissonville, West Virginia

New construction consisting
of classrooms, gymnasium,
commons/cafeteria, kitchen,
media center, administrative
offices, band/choir room,
toilets, and related site work

Size: 70,000 sf
Cost: \$ 17,000,000
Completion: 2007

AIA Award 2008

MARSHALL UNIVERSITY GRADUATE COLLEGE



**Marshall University
Graduate College
Administration Building
South Charleston, West Virginia**

**Size: 40,000 sf
Construction Cost: \$ 3,440,000
Completion: 1995**



GEORGE WASHINGTON HIGH SCHOOL



George Washington High School
1522 Tennis Club Drive
Charleston, West Virginia

New classroom wing with 15 classrooms, two gang toilets, additional commons area with a new entry, an auxiliary gym, and renovations to existing office area, lower level classrooms, library, and miscellaneous area for teacher offices.

Size: Addition /renovation	35,462 sf
	9,000 sf
Construction Cost:	\$ 3,400,000
Completion:	2002

VISIONS

A · R · C · H · I · T · E · C · T · S

CHARLESTON PARKING GARAGES



**Above
Shanklin Parking
Charleston, WV**

**Four elevated levels of precast
concrete, 525 spaces**

**Size: 121,000 sf
Construction Cost: \$ 3,964,000
Completion: 1995**



**Summers Street Parking
Charleston, WV**

**Seven elevated levels of precast
concrete, 708 spaces**

**Size: 204,000 sf
Construction Cost: \$ 2,000,000
Completion: 1995**

SUMMERS SQUARE



Summers Square Office Building Charleston, West Virginia

Class "A" office space completed in six months in a blighted area of Downtown Charleston. Three-story office building served to anchor further downtown redevelopment and revitalization; designed to complement adjacent downtown structures and facades, and to attract major national tenants like IBM and Merrill Lynch

Size:	40,000 sf
Cost:	\$ 1,250,000
Completion:	1994

REAM INTERESTS

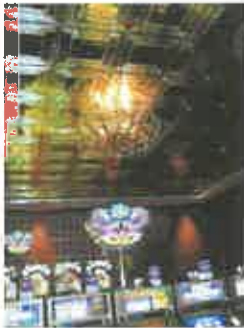


Ream Office Building
Lewisburg, West Virginia

Two-story, 5,000 sf office building and associated site development with 20 parking spaces, and formal entrance design for office and adjacent residential development.

Size: 5,000 sf
Construction Cost: \$ 1,036,000
Completion: 2005

TRI STATE RACETRACK AND GAMING CENTER



Tri State Racetrack and Gaming
#1 Greyhound Drive
Nitro, WV 25143

One-story gaming addition
adjoining the front entry of existing
racing facility

Size: 47,000 sf
Cost: \$ 11,000,000
Completion: 2003





WVSA Awards

Trans Allegheny Books, Charleston, WV

WVSA - Honorable Mention

McCabe-Henley Properties, Inc.
Charleston, WV

**AIA West Virginia 2008 Craftsmanship
Award for Excellence in Craftsmanship**
Sissonville Middle School



**Charleston Renaissance Corporation
Best Development**

Capitol City Building, Charleston, WV
Trans Allegheny Books, Charleston, WV
200 Hale Street, Charleston, WV
The Gates Building, Charleston, WV
210 Hale Street, Charleston, WV



**WV Home Building Association
Best Multi-Family Developer**

Governor's Court Apartments,
Charleston, WV
Woodbridge Condominiums,
Teays Valley, WV



**City of Charleston
Distinguished Design Development**
Summers Square, Charleston, WV



HUD – Project of the Year 2000
YWCA Transitional Housing
Charleston, WV

**Associate Builders and Contractors, Inc.
2005 Excellence in Construction**
YWCA Senior Housing
Charleston, WV

**Hawks Nest CCC Museum and Pavilion
Restoration Project
Structural Engineering**





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 30 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 30 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.

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 CAS Structural Engineering, Inc.
1999 – 2001	Structural Engineer Clingenpeel/McBrayer & Assoc, Inc.
1996 – 1999	Transportation Department Manager Structural Engineer Chapman Technical Group, Inc.
1995 – 1996	Structural Engineer Alpha Associates, Inc.
1988 – 1995	Structural Department Manager Structural Engineer NuTec Design Associates, Inc.
1982 – 1988	Engineer 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.

UPSHUR COUNTY COURTHOUSE STONE COLUMN RESTORATION

Buckhannon, West Virginia



The structural sandstone columns were coated with a cementitious coating that helped to deteriorate the natural stone by trapping moisture within the stone.



After the coating was removed, additional areas of the columns and bases required extensive repairs.



The repairs included pinning the columns across cracks, building up architectural elements with Cathedral Stone Jahn Repair Mortars, and also included pinning new stone to the original host stone.



AIA West Virginia Honor Award 2008



STRUCTURAL REPAIRS TO MCKEEVER LODGE AT PIPESTEM RESORT STATE PARK

Pipestem, West Virginia



Structural plaza decks were leaking through to the space below, deteriorating the structural steel. Steel was replaced, new steel framing and metal deck/ concrete slab installed and waterproofing on top of concrete.



Shower/locker/toilet rooms below the front plaza were reconstructed during the project and a new HVAC system for pool dehumidification was also installed.

A large number of the main building columns were deteriorated at the base and needed to be shored, the bottom portion removed and a new steel column section welded in place. Steel beams at the indoor pool were also replaced.



Project Owner: West Virginia Division
of Natural Resources
Contact Person: Brad Leslie, PE
Contact Phone: (304) 558-2764



LEWIS COUNTY COURTHOUSE INVESTIGATION AND REPAIRS

Weston, West Virginia



This 1887 courthouse is constructed of brick masonry walls with heavy sandstone foundations and wood roof structure. This project involved several phases, including an assessment phase to detail the repair needs for the facility and a construction cost estimate for these repair items.

The bell tower and cupola framing need structural repairs, some of which were completed during the roofing repair phase of this project. Additional structural roof framing repairs have been identified but the design documents have not been developed at this time.



The roof repair work was completed in the fall of 2011. Structural repairs within the bell tower were completed at that time.



JOB'S TEMPLE

Glenville Vicinity, West Virginia



This log structure was constructed in the 1860's, having begun prior to the Civil War and completed afterward. The years had taken a toll on the main logs/beams at the top of the walls supporting the roof structure.

The uphill wall was exhibiting damage due to the condition of the beam at the top of the wall, allowing the wall to push out from thrust on the deteriorated beam.



The structure was originally constructed of local poplar trees and clay chinking. A replacement log was hand hewn to the required size for the beam on the uphill side. Epoxy repairs were made to the beam on the downhill side. A team of horses brought the log to the site.



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.

Project Owner: West Virginia Division
of Natural Resources
Contact Person: Brad Leslie, PE
Contact Phone: (304) 558-2764



WEST VIRGINIA GOVERNOR'S MANSION RENOVATIONS

Charleston, West Virginia



Renovations of this red brick Georgian Colonial 1920's structure was completed in several phases, some by staff of the General Services Division at the State of West Virginia and the remainder by a general contractor. This structure is listed on the National Register of Historic Places.

During the renovations, a number of deficiencies were discovered, some of which had been covered by prior construction and some as a result of prior construction.



The structural repairs were made with masonry, wood framing and steel as required to support the loadings that were anticipated.



FIRST UNITED METHODIST CHURCH

Hinton, West Virginia

Historic church in Hinton dating to 1893 has exterior wall exhibiting outward bowing both vertically and horizontally. In order to hold wall in current location, temporary bracing was installed.



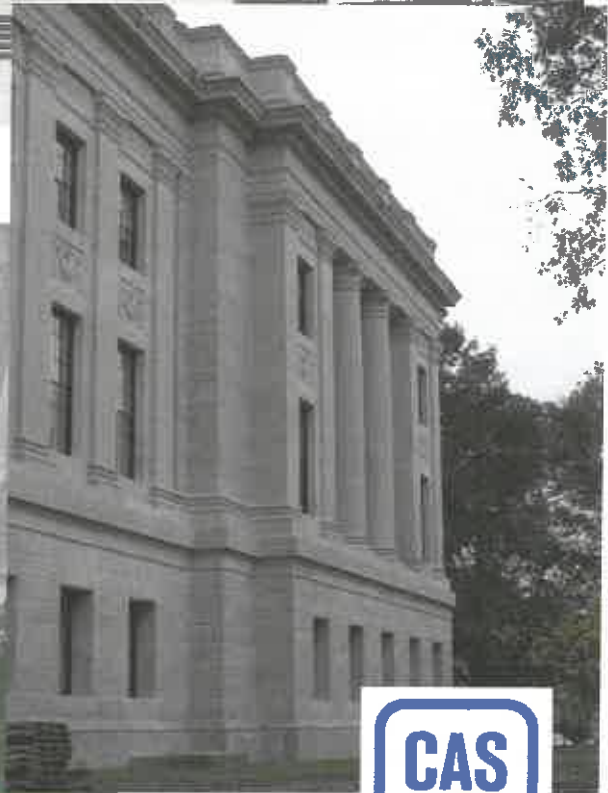
Anchorage of the wall to the floor system will be accomplished with threaded rods and large washers. That work will be performed in the near future.



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.

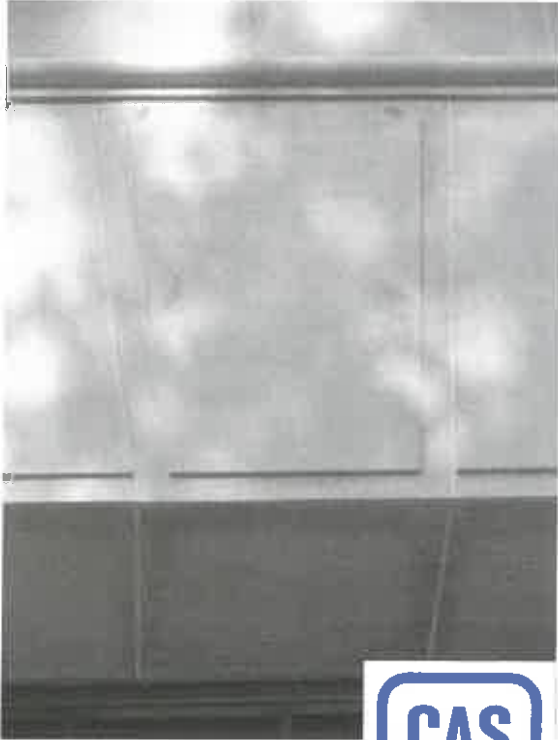




Portions of the limestone cornice were damaged to the point that they fell when work was being conducted and had to be pinned back in place.



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



COLLETT HOUSE

Beverly, West Virginia



The original portion of this structure was constructed as a log cabin in the 1770's. This project included foundation stabilization and log wall and floor framing repairs.

The foundation had settled over the years. As a result, the rear portion of the building had to be jacked up approximately 6-inches and new foundation supports were installed.



BEECH FORK STATE PARK POOL, BATHHOUSE AND CABINS

Barboursville, West Virginia



The project included design of new cabins with exposed glulam scissors roof trusses.

A new pool and bathhouse were also part of the design for the project.



FIRST PRESBYTERIAN CHURCH EXTERIOR FACADE RESTORATION

Charleston, West Virginia



The terra cotta and limestone exterior of this 1910's building was in need of being restored to prevent continued damage to the exterior and interior of the building. The structural steel in the lantern level was replaced with stainless steel members and wind bracing



The terra cotta balustrade was re-built after the iron components were found to be deteriorated.



The corners of the terra cotta cornice exhibited significant deterioration of the mortar joints and rotation of the units. It was found that the supporting steel members were not adequate for the load that was being supported. They were also replaced with stainless steel components.



**Hawks Nest CCC Museum and Pavilion
Restoration Project
Mechanical-Electrical-Plumbing
Engineering**





Firm Profile

MILLER ENGINEERING is a solely held (S) corporation owned by Craig Miller PE, President. The corporation maintains a Certificate of Authority with the WV State PE Board and has carried professional liability insurance since its inception. Neither the firm nor its professional engineers have ever faced disciplinary action in any form from the states in which they are registered.

Our engineered solutions involve a detailed assessment process: investigation, observation, communication with stakeholders, system analysis, building modeling and engagement from our entire team. We approach each and every project with this process and the guiding principle that buildings are designed to be livable and function in their intended purpose.

Over the past 14 years Miller Engineering, Inc. (MEI) has engineered solutions for over \$23.2M in MEP system upgrades, repairs and renovations for projects of all scopes and sizes, with clients ranging from private owners to local and state governments. With a strict attention to detail and commitment to delivering a job done well and done right the first time, every time, MEI has accumulated a change order percentage of less than 0.1% over the past 8 years.

Our team has unique skill-sets regarding engineered renovation solutions. Each member of the team has hands-on mechanical system experience including installation, construction, design and maintenance.

Miller Engineering takes pride in being **different by design**, and that difference shines through in all phases of our work and continued relationships with our clients.

- Experienced and Licensed Professional Engineers
 - Quality, Value-Engineered Project Delivery
- Qualified Construction Representative on Staff
 - LEED-AP Certified
 - Below Industry Change Order Status
 - Building Information Modeling
 - Emergency Facility Response



Engineering Design and Consultation

- Mechanical
- Electrical
- Plumbing
- HVAC Design
- Renovation
- New Construction
- Building Information Modeling

Aquatic Facility Design

- Public Pools & Areas
- ADA Compliance
- Indoor & Outdoor (air flow)
- Chlorination/Filtration

Construction Administration

- Maintenance/Facility Improvement Plans
- Contract Administration
- Code Observation

Communication System

- Intercomm & Public Address
- Voice/Data/CATV
- Urgent Response

Energy

- Power Supply (main & backup)
- Green & Renewable Consulting
- Systems Utilization & Upgrades
- Sustainable Solutions

Facility Utilization

- Systems Assessment & Solutions
- Adaptive Re-use
- Planning/Life-Cycle Control
- Engineered Replacement

Life Safety Inspection/Design

- Fire Protection & Alarm Systems
- Access Control
- Fire & Electrical Investigation

Industry Experience

- Education
- Local & State Government
- Commercial Development
- Healthcare



B. Craig Miller, PE

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 and an equal value in infrastructure renovations. His experience with a wide range of projects including HVAC, electrical, plumbing, steam and chilled water central plants, 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 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

- Morgantown High School Boiler Replacement/ HVAC Upgrades
- Graftek Steam System Improvements
- WVU Life Sciences Building and Student Recreation Center – Owner’s Engineer
- Hawks Nest/Twin Falls HVAC
- Mapletown High School HVAC Replacement Phase I & II
- Advanced Surgical Hospital
- WV State Building 25 HVAC Piping Replacement
- Cheat Lake Elementary & Middle School Renovations

Professional History

2003- Present	Miller Engineering, Inc.	President, Relationship Manager
2002-2003	Casto Technical Services	Existing Building Services Design 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. These include local ASHRAE classes in addition to classes on electrical systems, and also steam systems through Shippenburg Pump Company. 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*
- *Building Information Modeling - Revit*
- *Constructible Materials Evaluation*
- *Site Evaluation and Mechanical System Review*
- *Submittal and RFP Review*
- *RFI Coordination, Review, and Response*
- *Construction Observation*

Professional Project Highlights

- *Blackwater Falls Lodge Boiler Replacement*
- *MTEC Welding Shop*
- *North Elementary Boiler Replacement*
- *WV State Building 36 HVAC Upgrades*
- *WV State Building 25 HVAC Piping Replacement*
- *Graftek Steam Systems Evaluations and Modifications*
- *Bobtown Elementary School HVAC Upgrades*
- *Holly River State Park Primary Electric Service Replacements Phase I & II*
- *Pipestem Lodge McKeever Lodge HVAC Piping Replacement*

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



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 both the design and estimation phase to allow for continuity within the project's design and construction; at times working as a project designer.

Project Role: Construction Representative

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

Professional Project Highlights

- MTEC Welding Shop
- Blackwater Falls Boiler Replacement
- Morgantown High School Boiler Replacement/HVAC Upgrade
- North Elementary School Boiler/AC
- Mapletown Jr./Sr. High School HVAC/Boiler Upgrade
- 3RD Party Construction Observation – Canaan Valley Resort
- Hawks Nest/Twin Falls HVAC
- WVU Research Building Office Renovation

Professional History

2009- Present	Miller Engineering, Inc.	Project 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 Mechanical Contractor
- Licensed West Virginia Journeyman Electrician
- Licensed West Virginia Master Plumber
- OSHA 10-Hour Construction Safety & Health

Staff – Qualifications and Experience



Jack Jamison

Jack brings 20 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: Master Code Official

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

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*
- *Building Information Modeling Specialist*

Professional Project Highlights

- Bobtown Elementary HVAC
- WV State Building 25 HVAC Piping Replacement
- Blackwater Falls Boiler Replacement
- Suncrest Middle Gym HVAC
- North Elementary Gym HVAC
- Graftek Steam Systems Evaluations and Modifications
- WV State Building 36 HVAC Upgrades
- Pipestem Lodge HVAC Piping Replacement
- Westwood Middle Cooling Tower

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*

Additional Training

2016 – Shippenburg Pump Company – Steam Systems Training

Descriptions of Past Projects Completed – HVAC Piping

Pipestem McKeever Lodge

Pipestem, WV

Services Provided:

- HVAC
- Plumbing
- Electrical
- Accommodation of Existing Systems

Estimated Budget: \$1.7M

Facility Area: 63,000 ft²

Owner: West Virginia Division of Natural Resources



The original HVAC piping at McKeever Lodge had exceeded its lifespan and had been suffering from corrosion leading to multiple leaks, including one causing an electrical service outage. Miller Engineering was hired to investigate the existing piping, discovering all of the piping required replacement. As this lodge is regularly occupied for larger conferences, the project had to be phased to minimize the amount of guest rooms taken out of service at one time. MEI also designed provisions to interconnect the lodge's two separate boiler/chiller plants so one plant could operate the entire lodge at a partial capacity while the other plant was replaced and re-piped. This interconnect also allows the lodge to operate in the event of a boiler or chiller outage. Power was provided to new equipment, and motor control centers were added to control the building loop pumps. A new building controls system was installed to allow the plants to run at optimum efficiency while meeting the lodges heating and cooling needs.

Project Contact:
Carolyn Mansberger, Project Manager
State Parks Section
(304) 558-2764

Descriptions of Past Projects Completed – Misc. Upgrades

Blackwater Falls State Park Lodge Upgrades

Davis, WV

Services Provided:

- General Trades
- Plumbing
- Electrical
- Mechanical
- Pool

Estimated Budget: \$1.1 Mil

Facility Area: 46,000 ft²

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



MEI has performed several projects at the Blackwater Falls State Park Lodge that cover many trades. Miller Engineering designed new HVAC systems for the dining room and make up unit for the Kitchen. The units were installed in a manner to not interfere with views of the park. The second floor plumbing piping was upgraded and routed out of the attic for freeze protection. The bathrooms were re-connected with new GFCI receptacles to eliminate nuisance tripping. New panel boards, hallway lighting, and hallway ceilings were installed as well. A MEI project which was just completed is the replacement and re-piping of the hot tub. The existing spa was leaking and had maintenance issues. A new hot tub was installed along with tiling. A new chemical and pump room was installed as well. Miller Engineering was recently contracted to design the replacement of the existing boiler system and convert them from steam to hot water. The project is currently in design and will include the construction of a boiler room.

Project Contact:

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

Descriptions of Past Projects Completed – Development/Design

Beech Fork State Park Lodge

Services Provided:

- Mechanical
- Electrical
- Plumbing
- Cost Estimation
- Phased Plan for Pools

Estimated Budget: \$20M

Facility Area: 74,000 ft²

Owner: West Virginia Division of Natural Resources



Currently, the West Virginia Department of Natural Resources has engaged our team's services for design and development of a new, multi-million dollar lodge in the southern region of the state. Miller Engineering is providing all of the mechanical, electrical, plumbing and pool design for the Beech Fork State Park. This project includes coordination with ZMM Architects, EL Robinson, the West Virginia Department of Environmental Protection, the West Virginia Division of Highways and the US Army Corps of Engineers.

Development and design for guest, conference and public recreational areas, as well as commercial kitchen space, fire safety and public safety lighting are key elements of the project.

Project Contact:

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

**Hawks Nest CCC Museum and Pavilion
Restoration Project
Cost Estimating
Scheduling**





David L. Morris

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

CAREER HISTORY:

2012 – Present	DLM Decisions LLC	Managing Member
2009 - 2010	Pray Construction Company	Project Manager / Estimator
2007 – 2014	Q2 Builders LLC	Member (Advisor)
1997 – 2016	Quantum Construction Services, Inc.	President / Vice President
1994 - 1997	Wiseman Construction Company	Vice President
1988 - 1994	Pray Construction Company	Chief Estimator / Project Manager / Estimator
1984 - 1988	State Farm and Prudential Insurance	Estimator in Property & Casualty Divisions

EDUCATION AND TRAINING

- BS in Architectural Engineering – Fairmont State University – Fairmont, WV
- Contractor Quality Management Training – US Army Corp of Engineers – Chicago, IL
- Total Quality Management – Facilitator Training – RCAC – Charleston, WV
- Log Restoration Training - Perma-Chink Systems, Inc – Knoxville, TN
- Soil and Foundation Classes – WV State University – Institute, WV
- Vale National Training Center – Professional Estimating Training - Chambersburg, PA
- International Estimators Academy – Creating National Estimating Models - Gettysburg, PA
- Executive Management School – State Farm Insurance – Frederick, MD
- Kanawha Valley Real Estate School – Realtor License Training – Charleston WV
- Timberline (now Sage) Estimating School – Estimating / Financial Model Training – Raleigh, NC
- Leadership Charleston Graduate – Charleston, WV

LICENSES:

- WV General Contractors License - WV027639 (currently unassigned)
- WV Master Plumber - PL10981
- WV Real Estate Sales License (inactive)

SKILLS AND ABILITIES

Expert status

- Estimating
- Architectural Document Interpretation
- Construction Project Management

Advanced status

- Historic Preservation Techniques
- Timber / Log Construction and Preservation
- Project Scheduler
- Construction Law
- Construction Finances / Accounting

SKILLS AND ABILITIES CONT'D

Proficient with

- Microsoft Excel
- Microsoft Word
- Microsoft PowerPoint
- Microsoft Project
- Adobe Acrobat
- Various additional computer software
- Most construction equipment

CAREER PROJECT LIST – PARTIAL:

Major Projects - Consulting - Current:

- 🕒 Boone Memorial Hospital, New Hospital Building – Clerk of the Works/ Owner Rep – Madison, WV
- 🕒 Boone Memorial Hospital, Clinic Renovation – Owner Rep / Project Manager – Madison, WV
- 🕒 Pipestem State Park, Lodge / Tram Repairs – Cost Analyst – Pipestem, WV
- 🕒 Hawks Nest State Park, Lodge Repairs – Cost Analyst – Ansted, WV
- 🕒 Twin Falls Resort State Park, Kitchen Repairs – Cost Analyst – Mullens, WV

Major Projects - Consulting - Completed:

- 🕒 Holly Grove Mansion – Probes / Estimating / Project Analysis – Charleston, WV
- 🕒 Pipestem State Park, Lodge – Plaza Repairs / Fire Alarm – Cost Analyst – Pipestem, WV
- 🕒 Pipestem Resort State Park, Pool – Cost Analysis – Pipestem, WV
- 🕒 Pipestem Resort State Park, Pedestrian Bridge – Cost Analysis – Pipestem, WV
- 🕒 Hawks Nest State Park, Exterior and Roof Repairs – Cost Analysis – Ansted, WV
- 🕒 Hawks Nest State Park, Stair Tower – Cost Analysis – Ansted, WV
- 🕒 Hawks Nest State Park, Window Replacement – Cost Analysis – Ansted, WV
- 🕒 Twin Falls Resort State Park, Exterior and Roof Repairs – Cost Analysis – Mullens, WV
- 🕒 Twin Falls Resort State Park, Pool – Cost Analysis – Mullens, WV
- 🕒 Twin Falls Resort State Park, Beam Repair – Budget / Construction Administration – Mullens, WV
- 🕒 West Virginia Main Capitol Building, Exterior Dome / Exterior Stone – Probes – Charleston, WV
- 🕒 Star USA Credit Union, Branch Office – Construction Manager - Summersville, WV
- 🕒 WVU Robert C. Byrd Health – Masonry Investigation / Cost Analysis – Charleston, WV

Major Historical Projects Constructed (All are on the National Register of Historic Places):

- 🕒 West Virginia Main Capitol Building, Interior Dome – Renovation – Charleston, WV
- 🕒 West Virginia Main Capitol Building, South Plaza – Renovation – Charleston, WV
- 🕒 West Virginia Main Capitol Building, West Wing Senate Offices – Renovation – Charleston, WV
- 🕒 Marshall University, Old Main Building – Masonry Restoration – Huntington, WV
- 🕒 Littlepage Mansion for Kanawha Charleston Housing – Exterior Renovation – Charleston, 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 Radio Corporation, Complete Exterior/Partial Interior Renovation – Charleston, 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)