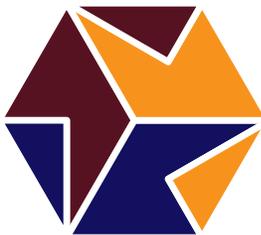


EXPRESSION OF INTEREST

FOR

WV DIVISION OF NATURAL RESOURCES

District #2 and #3 Building Improvements



WYK ASSOCIATES, INC.

ARCHITECTURE • PLANNING

205 Washington Ave., Clarksburg, WV 26301 (304) 624-6326 www.wykarchitects.com

**ROMNEY, WV
FRENCH CREEK, WV**

**WEST VIRGINIA DIVISION OF NATURAL RESOURCES
DISTRICT #2 AND #3 BUILDING IMPROVEMENTS**

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WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

WEST VIRGINIA DIVISION OF NATURAL RESOURCES
District #2 and #3 Building Improvements

LETTER OF INTEREST



WYK ASSOCIATES, INC.
ARCHITECTURE · PLANNING

June 17, 2019

Ms. Angela W. Negley
WV Division of Natural Resources
Property & Procurement Office
324 4th Avenue
South Charleston, WV 25303-1228

Re: Districts 2 & 3 Office Building Improvements

Dear Ms. Negley:

WYK Associates, Inc. wishes to express a strong interest in providing design services for this exciting project! We have included on our team CEC for Civil Engineering, CAS Engineering for Structural Engineering, Miller Engineering for Mechanical/Electrical/Plumbing and Estimates, LLC a PCS Company for professional cost estimating services for budget control. WYK has a solid working relationship with these consultants and we have custom tailored the team to what we believe is the best team for the unique needs of your project. For 119 years we have been successful with focusing on architecture, which we are trained at and do best. We carefully select and utilize knowledgeable, experienced and trained consultants who specialize in their respective disciplines.

As you will see from our submission, we have installed numerous elevators in existing buildings, performed HVAC, Plumbing, Electrical, Structural repairs as well as ADA, code compliance and general overall aesthetical enhancements. Additionally, we have improved numerous exterior building envelopes by replacing roofs and/or windows, etc. In particular we worked with Randolph Terrace Apartments in Salem, WV designing a new office building and replacing the windows in approximately six apartment buildings or 72 apartment units. Our experience includes work on a wide variety of building types and projects of varying scopes and complexities.

We understand the importance of working with the staff at the Department of Natural Resources to develop a common sense design solution that works best for you with regards to the scope of work, schedule and available funding. The principals noted in our Team Organizational Chart will be the individuals with whom you will work. We feel that the involvement of these principals throughout the course of the project allows us to provide our utmost level of service. We have demonstrated these services on a variety of projects with various programs and budgets for over a century.

Thank you for your consideration, we welcome the opportunity to meet with you to discuss your project further. Please feel free to contact me if you any questions or need any additional information regarding this submission at 304-624-6326 (office) 304-677-3373 (cell) or via e-mail at james@wykarchitects.com.

Respectfully Submitted,

James B. Swiger, AIA, NCARB, LEED AP BD+C
President



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

WEST VIRGINIA DIVISION OF NATURAL RESOURCES
District #2 and #3 Building Improvements
COMPANY OVERVIEW / PUBLICATION



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

Identity · Project Philosophy · Project Management

www.wykarchitects.com



Our Identity

Who we are

WYK Associates, Inc. is a full service architectural and planning firm serving a wide variety of commercial, religious, educational, civic and industrial clientele.

WYK Associates, Inc. was established in 1900 by Edward J. Wood. Our archives are filled with a century's worth of historic work. From this, many predecessors who have carried the torch of the firm through the last century.

Wood's grandfather's firm had roots in North Central West Virginia dating back to the early twentieth century. William Yoke, Jr. and Howard Kelley partnered with Mr. Wood in 1974 to form WYK Associates, Inc.

Mr. James Swiger joined the firm in 2005 and became a principal and vice president in 2008. In 2010, Mr. James Swiger assumed sole owner of WYK Associates, Inc.

Project Philosophy

Our process at work

COMMUNICATION & TEAMWORK are our guide words for each project. Our client's requirements for quality, service and value are the driving force behind each decision.

Through collaboration with engineering consultants we address the needs and schedule requirements of each client.

We provide thorough planning in all areas of each project to fit the individual requirements for a positive impact on both the natural and built environments. Energy conservation and product safety are very important concerns.

Project Management

How we create excellence

We carefully evaluate the client's program, design concerns, budget, funding sources, and other available data to assure a clear understanding of each project.

We incorporate input from our client and consultants to establish the budget and schedule. These facets are updated during each stage of project development to ensure our client's parameters are met.

WYK's principals engage and manage the entire project team, from concept through occupancy. WYK Associates, Inc. has an outstanding reputation for providing construction administration services along with maintaining an excellent rapport with contractors.

“ Our building stands as a tribute to you and your firm for a job well done. ”

-Charles A. Feathers, Chief Bridgeport Fire Department, Retired



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

Identity · Project Philosophy · Project Management

Architecture

Contact Information

WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

304-624-6326

304-677-3373 Cell

304-623-9858 Fax

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Project Staff

James B. Swiger
AIA, NCARB, LEED AP BD+C
President / Principal-in-Charge
james@wykarchitects.com

Stephen M. Kelley
Associate AIA
Senior Project Manager
stephen@wykarchitects.com

Canon T. Fancher
Associate AIA, LEED Green Associate
Designer / BIM Coordinator
cannon@wykarchitects.com

Summary

Established as a full service architecture firm in 1900, then named Edward J. Wood Architect, WYK Associates, Inc. has been located in Clarksburg for 119 years. Through innovative and thoughtful responses to the unique issues of each project, our goal is to create places that fit the needs and desires of those who use them.

Our team approach integrates the collaborative strengths of each member to produce a solution of balance between design quality, schedule and budget. We have always considered sustainability, the built environment, and quality of life long before the public began to focus on its benefits. We take seriously the responsibility of designs and solutions to be cost effective and operate efficiently throughout the building's lifecycle.

Relevant Project Experience:

- West Virginia Folklife Center,
- Fairmont State University
- Central Fire Station, Clarksburg, WV
- Circleville School,
- Pendleton County, West Virginia
- Harrison Co. Courthouse,
- Clarksburg, WV
- Pocahontas County Courthouse,
- Marlinton, WV
- Barbour County Courthouse,
- Philippi, WV
- Gassaway Depot,
- Gassaway, WV
- Morgantown Depot,
- Morgantown, WV
- Immaculate Conception Parish
- Center, Clarksburg, WV
- Jackson Square, Clarksburg, WV



West Virginia Folklife Center



Central Fire Station



Circleville School





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

Identity · Project Philosophy · Project Management

Awards



2013 WV AIA MERIT AWARDS

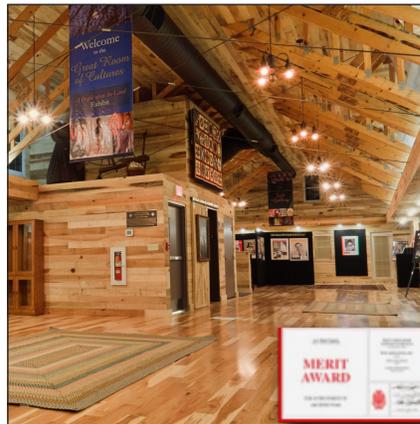
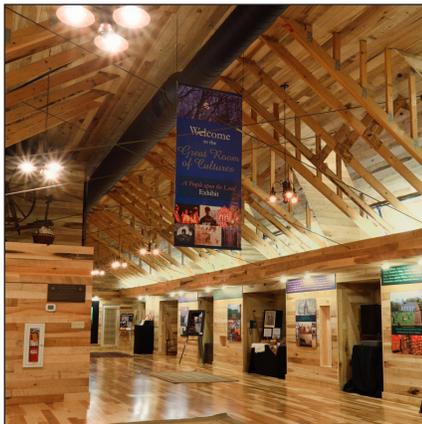
ALL-ACHIEVEMENT IN
ARCHITECTURAL DESIGN

MIDDLE-INTERIORS

BOTTOM-UNBUILT

Fairmont State University –
Frank & Jane Gabor Folklife Center
Fairmont, West Virginia
Size: 6,900 S.F.

The Folklife Center was constructed in 1903 by Michael Kennedy and is the last remaining vestige of the Kennedy's dairy farm. The building had been seriously compromised by years of neglect and fire damage. Due to the building's history and notable residents, it was placed on the National Register of Historic Places in 2006.



FSU-Interior Design
Fairmont, West Virginia

After developing an architectural program for the Folklife Program, WYK Associates, Inc. decided to remove a floor from the existing structure and create a first floor classroom area, and a second floor "Great Room" which would restore the open structure of the barn and provide both exhibit and multi-use space.



Shinnston Community Center
Shinnston, West Virginia

Size: 17,000 S.F.

The facility will serve as a performing arts center, a look out for downtown events such as parades, etc. A much needed large banquet hall, accommodating 350 people, will provide the city with a gathering space for meetings and community organization. There is also a room solely dedicated to the Shinnston Senior Citizens, and another additional meeting room. The upper level of the building serves as the city administration offices and Council Chambers.



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

Identity · Project Philosophy · Project Management

Awards



2013 WV-AIA Merit Award for Design Excellence and Sustainable Design

Information Manufacturing Corporation (I.M.C.)

Cowen, West Virginia

Size: 18,000 S.F.

With Sponsorship from Senator Robert C. Byrd, the Webster County Development Authority commissioned this “state of the art” facility to house Information Manufacturing Corporation’s regional operations. The important notion of sustainability is addressed through use of recycled steel, regional materials, and an innovative geothermal heat pump heating and cooling system.



2013 WV-AIA Merit Award for Design Excellence



West Union Bank- Newpointe

Clarksburg, West Virginia

Size: 9,000 S.F.

The design uses a combination of glass curtain wall with brick and monumental masonry units to present a very contemporary image. Because of the building orientation, the glass elevations require the use of solar glazing and a brise soleil system to reduce heat gain and glare in the offices.



2013 WV-AIA Merit Award for Design Excellence



West Pike Street

Parking Facility

Clarksburg, West Virginia

Size: 57,000 S.F.

The facility’s design compliments all the adjacent properties, both historic and modern. A variety of outdoor activities are easily held here, enhancing the city’s economy and livability. Designed by Associated Architectural Consultants, PLLC, which is a combination of Ralph Pedersen Architect & WYK Associates, Inc.



2019 WV-AIA Honor Award for Design Excellence in Architecture - Historic Preservation

2019 WV-AIA Craftsmanship Award for Excellence in Architectural Detail and Craftsmanship



Roberson Grand Performing Arts Center

Clarksburg, West Virginia

Size: 45,000 S.F.

This project was awarded full EPACT Tax credits for surpassing the ASHRAE 2007 Standards for HVAC, Interior Lighting and Building Envelope Exterior Improvements. It was also awarded the 2018 Excellence in Construction Award from the Associated Builder and Contractors, Inc.



Company Information

Identity · Project Philosophy · Project Management

3D Laser Scanning / 3D Modeling / 3D Printing

WYK Associates, Inc. welcomed the New Year by taking a leap of progress in architectural design. By acquiring a color 3D printer, the Clarksburg architectural-planning firm puts themselves on the map as an industry leader in the region.

3D printing technology is just now becoming available, commercially. A color 3D printer creates a physical, three-dimensional gypsum-based model of any project from a digital prototype in nearly three million colors, allowing for exact detailing in every model.

“Our refined modeling process allows our clients to see and touch a new building at scale, but with its actual features. It enables our clients to make educated choices with less variance between their expectation and the actual outcome,” states James B. Swiger, President of WYK Associates, Inc.

The decision to purchase a color 3D printer was not made lightly. Evaluating different brands, methods

and technologies in 2013 and visiting maker labs and distributors in- and out-of-state, WYK opted for a solution tailored to the architectural environment and the company’s clients, by choice the “greenest”, most environmentally friendly model available to date.

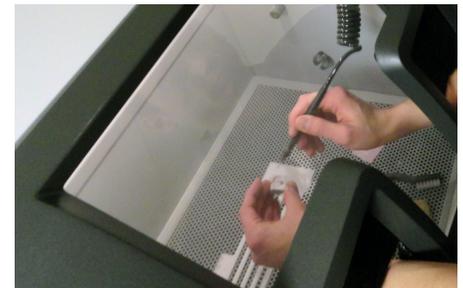
To unleash the full potential of the 3D printer, WYK partners with ZDS Design/Consulting Services on 3D laser scanning. In the process of 3D laser scanning, laser beam signals that collect survey data points are used to capture images, make drawings and record measurements of a structure.

Combining the two technologies, existing buildings are scanned to the accuracy of one millimeter and then recreated as scale models on the 3D printer. An exciting combination - another first for the region - producing results greater than the sum of its parts.

“The possibilities are endless, and we have only just begun,” says Swiger enthusiastically.



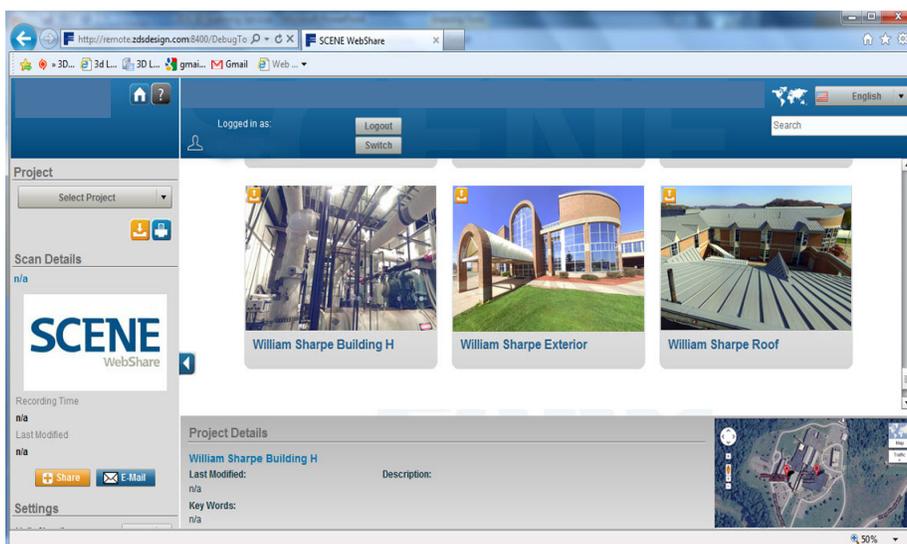
3D Laser Printing



Physical Model Preparation



Shinnston Community Center Physical Model



3D Modeling



3D Laser Scanning



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

119 Years of Excellence in Architecture



Rooted in History

The history of WYK Associates, Inc. is intertwined with the history of architecture in West Virginia. Through the years, countless buildings have been designed, expanded, and renovated by our company and its predecessors.

Focus on Knowledge

Our staff is academically trained, all of our Architectural Interns have a degree in architecture from the East Coast's most prominent design schools. We know that professional development and enrollment with the professional organizations of our trade is the key to skilled employees.

Backed by Experience

We have been involved in a multitude of projects serving clients of the private, industrial and public sectors. From LEED-certified building design and complex multi-phase additions to the careful renovation of historical landmarks or our national heritage, we have been instrumental in our client's building success.

Passing the Torch

With generations of skilled architects contributing to the growth, values and success of our company, we developed a reliable process and keep an archive of documented solutions for architectural problems and planning challenges. This helps us to save time and resources, providing an advantage for our clients.

Ready for the Future

We are the first West Virginia architect to offer 3D printing solutions in-house, and with integration of 3D scanning and BIM in our projects, we are ready for the future of our trade.

- 2018 — Robinson Grand Performing Arts Center construction complete. Grand Opening!
- 2017 — Construction begins on the Robinson Grand Performing Arts Center
- 2017 — Ribbon Cutting Ceremony held for Clarksburg Federal Credit Union
- 2016 — Upshur County Courthouse Roof and Chmney Restoration
- 2015 — WYK Associates, Inc. signs contract to renovate the Robinson Grand Theatre
- 2014 — WYK Associates, Inc. selected to renovate Rose Garden Theatre, formerly Robinson Grand Theatre
- 2012 — James Swiger becomes sole owner of WYK, now President and Principal-In-Charge
- 2011 — William E. Yoke, Jr. retires, James Swiger becomes President
- 2008 — James Swiger becomes Partner and Vice President
- 2005 — James Swiger returns as Project Architect
- 1996 — James Swiger becomes an Architectural Intern at WYK Associates, Inc.
- 1996 — Carleton Wood, Jr. retires; William E. Yoke, Jr. becomes President
- 1992 — Howard Kelley retires
- 1978 — WYK Architects, Inc. becomes WYK Associates, Inc.
- 1976 — Carleton Wood, Jr., William E. Yoke, Jr. and Howard Kelley form WYK Architects, Inc.
- 1973 — Whalen King Architects purchases W.H. Grant's firm
- 1971 — Carleton Wood, Jr. joins Whalen King Architects
- 1956 — William H. Grant, Jr. acquires firm
- 1949 — Carleton Wood, Jr. joins firm as apprentice
- 1939 — Carleton Wood selected to rebuild Robinson Grand Theatre
- 1927 — Carleton Wood designs Clarksburg Fire Station
- 1921 — Firm changes to E.J. Wood and Son Architects as Carleton Wood joins
- 1910 — Edward J. Wood commissioned Marion County Jail
- 1900 — Edward J. Wood starts architectural practice



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

WEST VIRGINIA DIVISION OF NATURAL RESOURCES
District #2 and #3 Building Improvements

PROJECT TEAM

**WEST VIRGINIA DIVISION OF NATURAL RESOURCES
DISTRICT #2 AND #3 BUILDING IMPROVEMENTS**

Project Team



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

ARCHITECTURE

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ARCHITECTURE • PLANNING

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COST ESTIMATING

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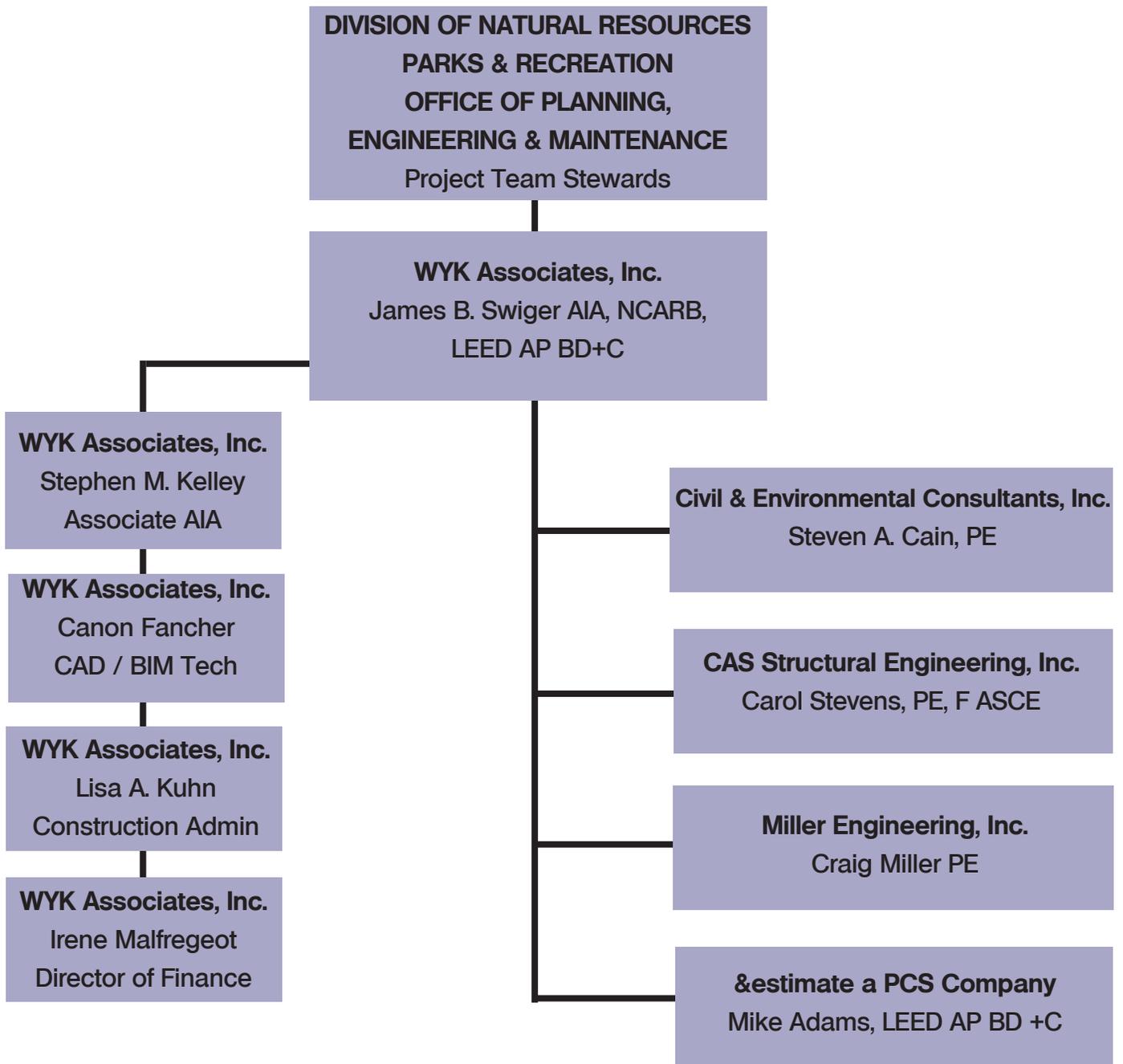


**WEST VIRGINIA DIVISION OF NATURAL RESOURCES
DISTRICT #2 AND #3 BUILDING IMPROVEMENTS**

WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Team Structure

Development Team Organizational Structure





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

WEST VIRGINIA DIVISION OF NATURAL RESOURCES
District #2 and #3 Building Improvements
PROJECTS



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Tyler County Courthouse Restoration Middlebourne, West Virginia

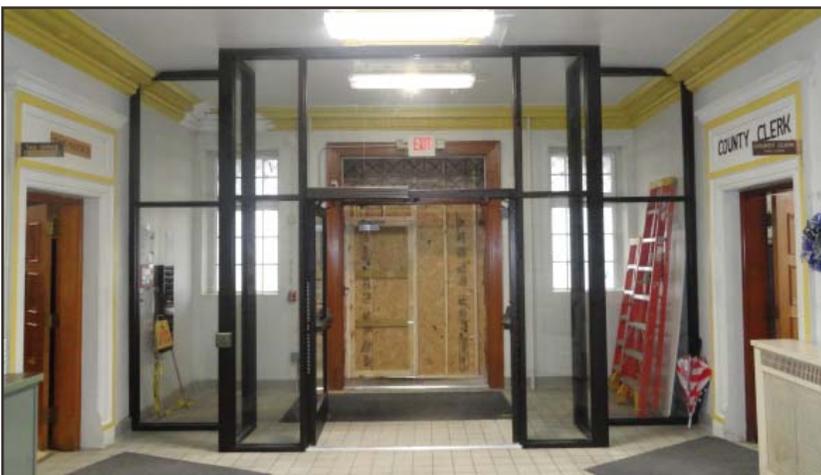
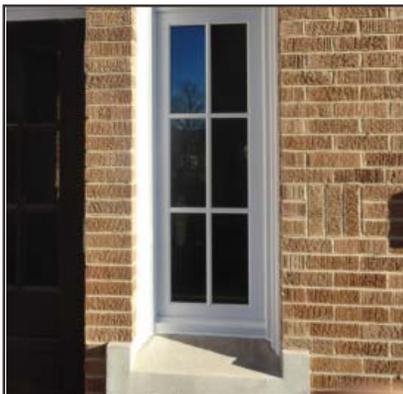


Updating and Preserving! Tyler County Courthouse

The Tyler County Courthouse was originally built in 1920 and designed by architects E.C.S. Holmboe and Mr. Pogue of Clarksburg. WYK is most excited to contribute to the Clarksburg legacy of excellence with the renovations to this historic courthouse. WYK is currently replacing the windows to with new energy efficient ones that match the existing profiles, materials, and colors in order to comply with historic preservation guidelines. This is Phase 1 of multiple interior and code compliant upgrades to the century old icon in the community. ADA compliant upgrades and a new interior vestibule have also been added to the front entrance of the courthouse.

WYK was initially hired by the Tyler County Commission to provide an overall assembly of the courthouse and adjacent historic jail / sheriff's residence building, now housing the county's 911 and Sheriff's departments.

The commissions first priority was to replace the existing windows and doors with historically accurate, energy efficient ones. This project completed in May of 2018. WYK is currently working on a masonry restoration bid package for the courthouse proper as well as the adjacent jail building.



Project Facts

Size: 15,000 s.f.

Completed: May 2018

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Taylor County Courthouse Restoration Grafton, West Virginia

Preserving and Restoring! Taylor County Courthouse

The Taylor County Courthouse was built in 1880 with an addition built in 1890. WYK worked closely with SHPO to update the front entrance to meet Secretary of Interior Standards guidelines and create a seamless sidewalk / streetscape to the end of the block. WYK also worked closely with the County Administrator to replace the sidewalk and railings adjacent to the courthouse building.



Original



New

Project Facts

Size: 12,000 s.f.

Completed: 2017

www.wykarchitects.com



Upshur County Courthouse Chimney & Roof Restoration Buckhannon, West Virginia

WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

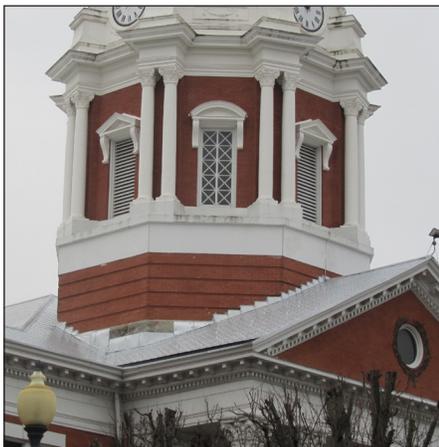


Historic Restoration

Designed by Architect Harrison Albright, the Upshur County Courthouse was built sometime between 1899 and 1910. The scope of work included metal roof shingle and flashing replacement around the dome and the restoration of two brick chimneys on the rear of the building. After a structural inspection was performed, however, minor repairs to the steel structure were added.

The existing metal shingles, especially around the dome, were in poor condition showing various stages of corrosion. New metal shingles were chosen to match the style, shape, and color of the existing shingles. All roof planes intersecting the dome received new metal shingles and flashing over an ice and water shield underlayment. The existing shingles on the non-intersecting planes of the roof were cleaned and coated with a fibered aluminum roof coating to match. Permanent roof anchors with added reinforced structure were added to the center ridge of the front gable and main roof.

The existing brick chimneys had been rebuilt throughout the years and showed signs of significant deterioration. Due to their poor condition, the chimneys were rebuilt from the roof up. Brick and mortar were chosen to match the rough, hand-formed brick on the back wall of the courthouse. The chimneys were rebuilt to match the width and height of the existing chimneys. Limestone coping and stainless steel metal caps were used to top off the chimneys allowing them to vent while keeping animals and rain out.



Project Facts

Original Architect: Harrison Albright

Built: 1899 - 1910

Size: 8,400 s.f.

2016: Roof & Chimney Restoration

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Gore Building Build-Out Clarksburg, West Virginia

Historic building to provide upscale living in uptown Clarksburg !

The Gore Hotel, located on W. Pike and S. Second Streets in downtown Clarksburg, served originally as a prestigious hotel in the 1920's. It was built in 1913 by Truman E. Gore and Howard M. Gore, Governor of West Virginia and U.S. Secretary of Agriculture, respectively.

The 3rd, 4th, and 5th floors are being rehabilitated from multiple small hotel type rooms into seven separate luxury apartments per floor with one, two, and three bedroom options.

The inside of the exterior walls have been stripped of their original plaster and will be cleaned and sealed to leave a unique texture and feel to the apartments. The living areas will have laminate flooring while the bathrooms will have ceramic tile.

A new, large elevator and shaft was installed to accommodate all levels of the building. Each floor will have a common area for residents to mix and socialize.



Project Facts

Size: 52,000 sq ft

Completed: Spring 2016

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Circleville School

Pendleton County, West Virginia



Teaching Community

Learning by adaptive reuse

Working with a variety of funding sources, the non-profit CHS Preservation Inc. contacted WYK Associates to help them maintain this landmark in their community as a safe and attractive center for group activities. Within a tightly defined construction schedule, the building's life safety and electrical systems were upgraded to current code requirements. A new banquet kitchen was installed. And the exterior woodwork was repaired and repainted using the guidelines and assistance of the State Historic Preservation Office.

Funded by the Works Progress Administration, this Circleville School was constructed in 1938 to replicate a 1929 Georgian Revival-style building, which had been destroyed by fire. Its classically-derived main façade features four pilasters, a pediment, and a domed cupola. A broken pediment with urn-and-swag motif above a fanlight decorates the main double-door entrance. Enlarged wings and several rear additions expanded the 1938 facility from the 1929 plan. Circleville School was closed in 1998, as the County's schools were consolidated. Yet today Holmboe's building remains a focal point for this Pendleton County community.

Project Facts

Size: 66,000 sq ft

Completed: 2003

Historical Register: April 4, 2000

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Peterson-Central Elementary School Outdoor Classroom Weston, West Virginia

Outdoor Education!

Get those children outside!

The Lewis County Board of Education hired WYK to design an outdoor classroom on the playground located above the Peterson-Central Elementary School, previously designed by WYK.

This new facility houses boys and girls restrooms, ADA water coolers, and a small concession/kitchen area. Full utilities were brought from the school to this site including water, sewer, and electricity.

The structure uses common wood trusses, nailed together 4-ply to give the appearance of heavy timber construction, similar to the interior of PCES. The structure's roof is clad with a standing seam metal roof which will minimize maintenance costs.

The concession area and restrooms are constructed of CMU and painted with epoxy paint. Glass block was incorporated in the design for aesthetic appeal, as well as practical to let in natural daylight.



Project Facts

Size: 2,000 Sq. Ft.

Completed: 2010

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Laurel Lanes Police Substation

Clarksburg, West Virginia



Facility Renovation

The project scope was to renovate and revitalize the interior of an existing apartment building at Laurel Lanes into a more functional police substation. The City of Clarksburg and the Clarksburg-Harrison County Housing Authority's goal was to increase police patrols in the area and to provide a police presence and space for police to work from.

The entire interior of the two-story apartment was renovated into a police substation with a conference room and break room on the ground floor with three offices, a toilet room and mechanical room on the second floor. The existing ground floor was removed and replaced with a new slab-on-grade concrete system.

Each room was outfitted with new casework, walls, ceiling and floor finishes, new HVAC system, new plumbing and fixtures, and new electrical wiring and fixtures. These new additions complementary to the layout and functions of the space and provides a great atmosphere for police officers to get their work done.



Project Facts

Size: 1,160 sq ft

Completed: 2016

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Information Manufacturing Corporation

Cowen, West Virginia

Commercial > IMC

Hi-tech expression

Sustainable design focusing on office operations.

With Sponsorship from Senator Robert C. Byrd, the Webster County Development Authority commissioned this “state of the art” facility to house Information Manufacturing Corporation’s regional operations. This company transforms data into business intelligence and manages electronic data for government agencies.

The facility embraces a “hi-tech” image through expressions of form and materials. Extensive use and thoughtful composition of architectural metal panels, large glazed panels, and geometric proportioning of the brick masonry are integral to the building’s character. The concept of manufacturing information guided the functional interpretation of the building’s interior. Demands of the company’s activities dictated large, ultra-flexible spaces defining the majority of the form. The building combines this square footage with smaller spaces for offices, secure storage spaces and conference areas.

Much consideration was given to employing user-friendly materials and creating environments whose focus was on the comfort of the users. Strategies range from indirect lighting in data processing areas, to creating exterior views from virtually every workstation.

The important notion of sustainability is addressed through use of recycled steel, regional materials, and an innovative geothermal heat pump heating and cooling system.



Project Facts

Size: 18,000 sq ft

Completed: 2006

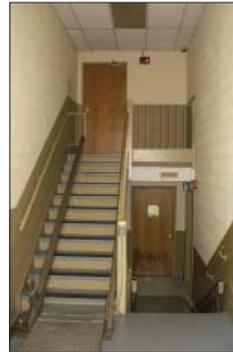
www.wykarchitects.com



Pocahontas County Courthouse Renovations

Marlinton, West Virginia

WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING



Historic Property renovations!

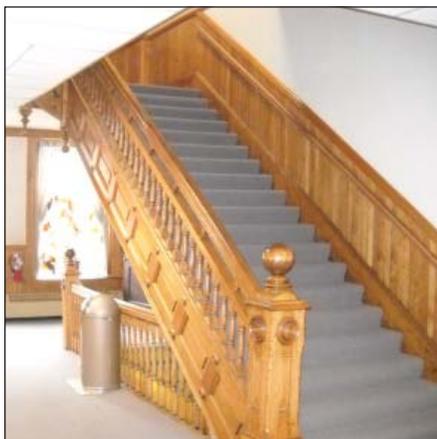
Energy Grant acquired for funding!

The Pocahontas County Commission first hired WYK & Dan Wiley Associates, Inc. to provide a needs assessment and evaluation of all the county's owned and leased administrative buildings, a total of five structures.

From the assessment / evaluation process, the commission opted to have WYK eliminate an existing stair wheelchair lift and install an elevator within the existing courthouse, replace a roof to a 1973 annex and install a new boiler in the old Sheriff's Residence/ Jail Building. WYK is currently in the construction administration phase of lighting upgrades to the entire courthouse. WYK assisted the county with an application for additional state Energy Grant funding earmarked for courthouses.



Upon completion of replacing the roof, which had a metal roof installed over a built up roof installed over the original built up roof, the new roof provides positive drainage, proper overflow drains and most importantly, the new insulation is keeping the interior much warmer, thus reducing operation expenses.



Project Facts

Size: 42,000 sq ft

Completed: 2009-2010

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Davis Memorial Hospital Addition

Elkins, West Virginia

Local hospital receives new addition!

New hospital expansion for exam space!

Davis Health System has added onto their campus with a two- and three-story Outpatient Service area in addition to a new Physician's Office Building.

The addition, directly connected to Davis Memorial Hospital's existing corridors, is designed to create minimal disturbance, penetrating at the facility's two existing corridor locations, joining the present corridors with the new.

The addition consists of exam rooms, administrative offices, reception and waiting areas, and outpatient surgical recovery rooms.

The facade features brick with a glass storefront to blend in with the historic fabric of the town, while also providing a modern look.

Other work included approximately 10,000 SF of renovations to the existing hospital at the connection points, and most noteworthy, the renovation of a new phlebotomy lab on the ground floor.



Project Facts

Size: 80,000 sq ft (New)

Size: 10,000 sq ft (Renovation)

Completed: 2014

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Jackson Square Parking Facility

Clarksburg, West Virginia

A Multi-Use Outdoor Space

AAC or Associated Architectural Consultants, PLLC is a collaboration of WYK Associates, Inc. and Ralph Pedersen Architect founded in 2004, this partnership combines the unique strengths of two local architectural firms to provide design and planning services for projects in Clarksburg and Harrison County.

This project consisted of the demolition and abatement of all the long-vacant, dilapidated buildings in the 300 block of West Pike Street, one of Clarksburg's main downtown thoroughfares. An historical study of these buildings was completed and reviewed by the State Historic Preservation Office prior to demolition.

Underground utilities and new storm water management created an unencumbered site for 126 parking places on two levels. The upper level entered from Traders Avenue is covered with translucent panels creating a "band shell." Lower level entry is from Pike Street. Concrete retaining walls, decorated brick pillars, accessible stairways, easy maintenance landscaping, programmable lighting, user friendly electronic parking fee collection, and stamped asphalt paving create accessible parking. The facility's design complements all the adjacent properties, both historic and modern. A variety of outdoor activities are easily held here, enhancing the city's economy and livability.



Project Facts

Size: 57,000 sq ft

Completed: 2016

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Total Dental
Bridgeport, West Virginia

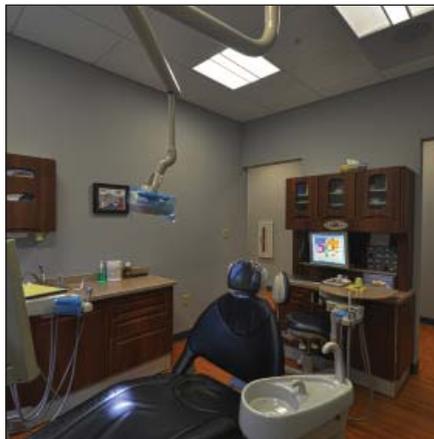
An “AHH” inspiring building!

Open up and say “AHH”!

WYK Associates provided architectural services for Dr. Jeffrey Browning in designing this new 9,800 square foot facility. Designed primarily for Total Dental, this building provides additional build-out spaces for future clients.

WYK designed the second floor of the building to the dental office with eight operatory rooms for dental services, a large waiting room, two doctor’s offices, and a breakroom/kitchen space with access to an outdoor balcony.

The first floor of the facility is partially occupied by Subway and another doctor’s suite. WYK provided access for a drive-thru area, making the restaurant capable of accepting drive-thru orders!

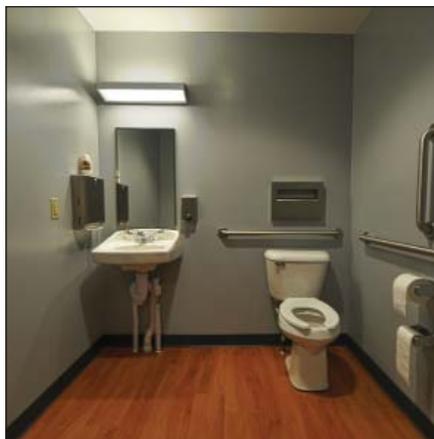


Project Facts

Size: 9,800 sq ft

Completed: 2014

www.wykarchitects.com





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Braxton County Courthouse Addition

Sutton, West Virginia



Historic Addition

Sutton's Historic District listed on National Register

According to county records Felix J. Baxter, a local resident, created the original Braxton Courthouse design, which was completed by Contractors Wood and Atchinson in 1882.

Our project began as an evaluation of alternatives for ADA compliance and handicapped accessibility both to and within the Courthouse. It evolved into a three story addition to the office wing, which provides a ramp for access to the building, an elevator with access to the three primary building levels, and a wheelchair lift to provide access to the Courtroom. Also included are accessible restrooms, a County Commission Meeting Room and expanded office space for the County Commission and the Assessor. The entire building received a new roof, new windows, a fire protection system and structural repairs to the original bell tower. Courthouse activities continued throughout construction.

Some of the stone elements from the original Courthouse entry are incorporated in the new access point. The Addition's materials and massing match the original building to maintain the historic fabric of the Courthouse and complete its gracious Courthouse Square.



Project Facts

Size: 3,400 sq ft

Completed: 2003

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Robinson Grand Performing Arts Center Restoration / Renovation

Clarksburg, West Virginia

Historic property brought back to life!

Local theatre to revive downtown

The Robinson Grand Performing Arts Center is comprised of several different layers of classifications, including restoration, rehabilitation, renovations and additions. The 45,000 S.F. project included the restoring of the building's exterior masonry, updating the performance hall to seat over 1,000 guests, adding all new HVAC, finishes, electrical, sound, stage rigging, plumbing, complete roof replacement, concessions, restrooms, stage curtains, lighting, sound systems, dressing rooms, LED lighting, a barrel vaulted ballroom, a multi-purpose educational center, caterer's and preparation kitchens, circular bar, two new elevators, a loading dock and state-of-the-art marquee as well as structural enhancements throughout the building.

The City of Clarksburg purchased the building in April of 2014 and hired WYK in June of 2014 to begin the conceptual design process. WYK worked closely with the WV State Historic Preservation Office and the Owner's tax credit Consultants from the very beginning stages of design. A large portion of this project focused on conducting an ADA / building code assessment and designing the proper solutions. These included: ADA compliant restrooms, a new elevator, and the creation of new accessible routes throughout the center, which has 15 different levels.

The project was ultimately awarded \$6.5 million in state and federal historic and new market tax credits. Other awards the Robinson Grand received include the 2018 Excellence in Construction Award from the Associated Builders and Contractors, Inc. West Virginia Chapter. The project was completed in October of 2018.





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Robinson Grand Performing Arts Center Restoration / Renovation

Clarksburg, West Virginia



Original Lobby



New Lobby



Original Second Floor Lobby



New Second Floor Lobby and Bar



Original Ballroom



New Ballroom

Project Facts

Original Bldg: 1913
Theatre Fire: May 1939
Rebuilt: December 1939
Closed: 2000
Bought by City: 2014
Renovation Completed: 2018
45,000 Square Feet

Project Partners

www.wykarchitects.com
www.aurora-llc.com/
www.studioilighting.com
www.casstruceng.com
www.wrldesign.com
www.zdsdesign.com
www.pcscmservices.com



**Winner of Two AIA WV 2019
Design Awards**



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Webster County EDA Building Cowen, West Virginia

Not your typical steel building...

Flexible spaces for lease!

This structure was built to bring in businesses to rural West Virginia, located in Cowen. It is a pre-engineered steel building with a masonry and metal façade. The design allows the building to be divided into three separate tenant spaces or “pods”. Its design also had the foresight to be flexible enough to be used by a single tenant. The “pods” range in size from 2,500 S.F., 6,000 S.F. and 12,000 S.F.

A local doctor has leased the smallest segment of the building and has opened up a new health clinic of which the build-out was also designed by WYK. This facility is located on the same campus as the I.M.C. The glass entry element reflects the same detail from the I.M.C. building which contributes to the feeling of an overall campus.

The building is situated so that it is surrounded by parking to easy access to each “pod” and minimized common space in order to maximize the leasable area of the building.

The roof gables are turned 90 degrees to each other to break up the large mass of the building within its rural setting. It appears to be three separate buildings from a distance in lieu of a large warehouse “big box” metal building.



Project Facts

Size: 21,100 s.f.

Completed: 2005

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Immaculate Conception Parish Center

Clarksburg, West Virginia



Natural Lighting at it's best!

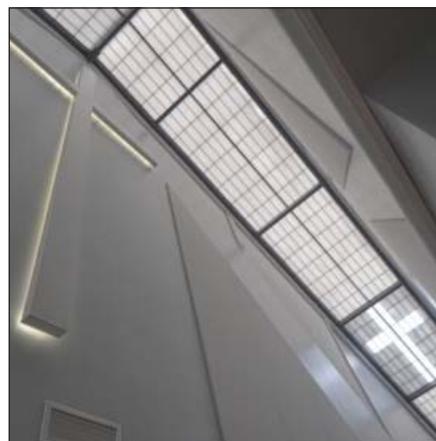
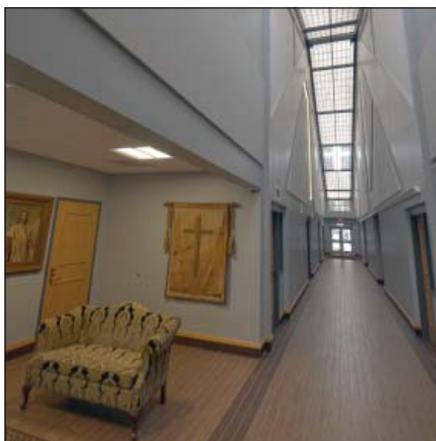
Eye-catching religious space

The new parish center is located directly behind the Immaculate Conception Church in Clarksburg. This facility houses the church offices, a large banquet room with a capacity of 320, commercial kitchen, meeting spaces and smaller, intimate gathering spaces.

The center spine of the building is very spacious and is capped with translucent panels which will flood the interior spaces with natural light. It is centered on axis with the campanile of the original church.

Located in a transition point on Main Street between commercial and residential neighborhoods, the exterior features masonry to compliment the existing church as well as a roof with a tile appearance. The size and massing of the building pulls from both the church elements as well as surrounding houses to offer a smooth transition within the historic fabric of the street.

The porte cochere provides users with a welcoming and safe haven from the elements of Mother Nature. Landscaping will anchor the building to its surroundings and offer a sense of calm and serenity.



Project Facts

Size: 15,000 sq ft

Completed: 2014

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Christie-Cutlip Office Complex

Charles Pointe, Harrison County, WV

Commercial > Comvest Limited Inc. > Christie-Cutlip Office Complex



A 21st century office complex design

Easily accessible from major
highways!

This office complex is located in the new prestigious Charles Pointe Development directly off the I-79 Technology Corridor.

Their location is highly visible from the Harrison-Marion Airport and the I-279 connector to the airport. The client wanted a distinguished and comfortable modern design that incorporates historic/traditional architectural features.

The welcoming arched entry of the structure is flanked by a distinguished soaring clock tower to give the building presence within its surroundings. The brick incorporates intricately detailed ribbon bands which reflect a common building practice of yesteryear.





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Harrison County Courthouse

Clarksburg, West Virginia



Contributing Building in Historic District

This series of renovation projects began with the appointment of a second Circuit Judge for Harrison County. A new Courtroom and Circuit Judge's Support Staff offices were created from the former County Commission offices. The Voter Registration Office was relocated to space previously used by the County Health Department.

New offices and meeting room for the County Commission were then created on another floor of the building. All Courthouse functions continued daily operation during these projects.

From these extensive renovations evolved a multi-phase window replacement program for the entire Harrison County Courthouse.

Completed in stages as funding permitted, it is a successful synthesis of enhancing the building's appearance, maintaining its historic integrity, and improving the usability and function of the interior spaces.

Project Facts

Located in Historic District

Completed: 1999-2001

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Frank & Jane Gabor WV Folklife Center

Fairmont State University, Fairmont, West Virginia

Education > Fairmont State University > Frank & Jane Gabor Folklife Center

The Folklife Center - A Success Story

Living history carefully updated

Originally a barn, this historic building is at Fairmont State University's new main campus entrance. This charming stone building has previously been used as apartments and storage.

It is now the home of Fairmont State University's West Virginia Folklife Program and also serves the school as a Visitor's Center.

By removing the third floor and gutting the second floor plan, WYK designed a two story day lit gallery space on the existing second floor. Remedial structural repairs were needed to brace the existing roof structure once the third floor was removed.

The first floor houses offices, classrooms and informal gathering spaces. An elevator, replacement of 72 windows, doors, natural and specialized lighting, sprinkler system and HVAC systems have all been integrated into this structure.

By marrying the historic character of the building with upscale contemporary features and educational elements, the Folklife Center welcomes alumni, students, faculty and the general public to share many public functions.



The façade of the Folklife Center invites visitors and historians alike



The day lit gallery space is the center piece of this unique adaptive re-use project



Updated windows and doors invite the sunlight into the building



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Frank & Jane Gabor WV Folklife Center

Fairmont State University, Fairmont, West Virginia

Education > Fairmont State University > Frank & Jane Gabor Folklife Center



Structural update in progress

Project Facts

Phase I: Completed 2009

Phase II: Completed 2010

Phase III: Completed 2011

Project Links

www.wykarchitects.com

www.fairmontstate.edu

www.pierpont.edu/folklife/



AIA West Virginia

This project won two awards - the **2013 Merit Award for Achievement in Architecture Design** in the categories **Interior** and **Exterior**.

We are thankful of the recognition and like to acknowledge the team effort leading to the project's success.



The Colonial Apartments



The Frank and Jane Gabor
West Virginia Folklife Center

1201 Locust Avenue
Fairmont, WV 26554

(304) 367-4403

wvfolklife@fairmontstate.edu
wvfolklife@pierpont.edu



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Barbour County Courthouse

Philippi, West Virginia

Government > Bridgeport Public Safety > Public Safety Substation

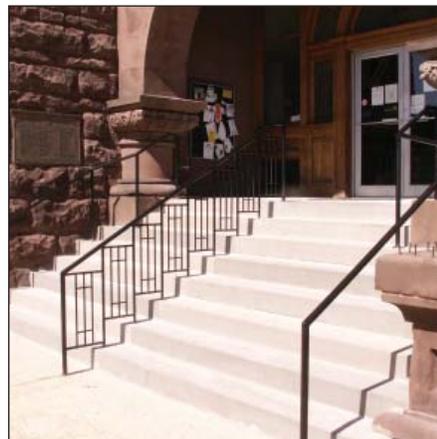
Historic Renovation

This monumental public building was designed in 1901 by Architect J. Charles Fulton of Pennsylvania. It personifies the then fashionable Romanesque Revival style. Of solid masonry construction this two-and-one-half story modified rectangular structure is set upon a raised basement.

An unusual sense of weight and mass is conveyed by a colossal offset tower and by additional prominences in the form of steeply pitched wall dormers and an octagonal turret. The floors are concrete reinforced with iron. The building's finish is magnificent coursed quarry-faced ashlar of striated Cleveland Sandstone.

Maintaining the integrity of both the design and construction of this notable building was paramount to the Barbour County Commission. Renovations to the offices of the Sheriff, Prosecutor, and Assessor accommodated the new technology and lighting requirements their work requires. Both the public and courthouse staff are now served by an elevator, accessible interior routes through the building, increased security and an exterior ramp.

The deteriorating front stairs and entry tiles were carefully redesigned by WYK to bring this grand entrance back to its previous grandeur.



Project Facts

Original Architect: J. Charles Fulton

Built: 1903-1905

2003: Jail Area to Office Conversion

2005: ADA Accessibility

2009: Front Steps/Entry Restoration

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

WYK Associates, Inc.

Clarksburg, WV

Sampling of Door / Window Replacement Projects

Tyler County Courthouse

Tyler County Courthouse Old Sheriff's Residence and Jail

Dyer Insurance

Harrison County Schools

Bridgeport Middle

Bridgeport High

South Harrison Middle

South Harrison High

United Technical Center

Adamston Elementary

Liberty High

Lincoln High

Lumberport Middle

Nutter Fort Intermediate

Adamston Elementary

Salem Elementary

Washington Irving Middle

Robinson Grand Performing Arts Center

Frank & Jane Gabor Folklife Center

Randolph Terrace Apartments

Harrison County Courthouse

Fellowship Bible Church



WYK Elevator Installations

New Exterior Tower Additions

- Bridgeport United Methodist Church
- First United Methodist Church - Clarksburg
- Preston County Courthouse
- VFW Post 573 - Clarksburg

New Construction

- Barbour County Bank
- Braxton County Courthouse
- Bridgeport High School
- Christie-Cutlip Office Building
- Dominion Exploration and Production
- First Baptist Church of Glenville
- Harrison County Bank - Bridgeport
- Harrison County Senior Center
- Hewes Avenue Parking Garage-1975
- New Bethel United Methodist Church
- Peterson Central Elementary School
- Morgantown Orthopedic Associates
- Taylor County Courthouse Annex
- Total Dental
- Robinson Grand Performing Arts Center
- West Union Bank -Newpointe
- Branch White Collar Crime Center
- WVANG Fixed Wing Training Center

New Elevator in Existing Building

- Gore Hotel
- Frank and Jane Gabor Folklife Center at Fairmont State University
- Pocahontas County Courthouse
- Barbour County Courthouse
- Clarksburg YWCA
- Harrison Clarksburg Health Dept.
- Harrison County Senior Center
- Annex
- Lumberport Middle School



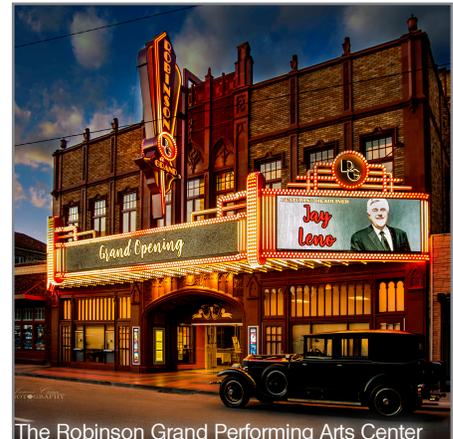
Pocahontas County Courthouse



Glenville First Baptist Church



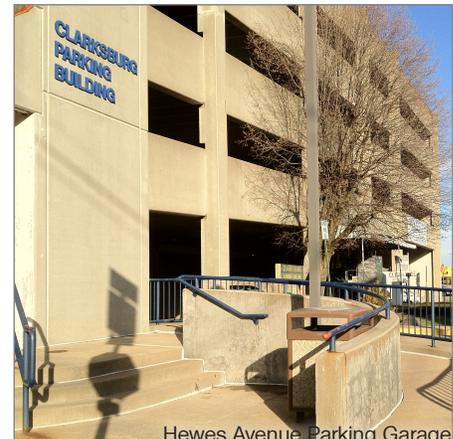
Braxton County Courthouse Addition



The Robinson Grand Performing Arts Center



Gore Hotel



Hewes Avenue Parking Garage

- Robinson Grand Performing Arts Center
- Washington Irving Middle School

Elevator Renovation in Existing Building

- Hewes Avenue Parking Garage-1999
- Lewis County Middle School



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

WEST VIRGINIA DIVISION OF NATURAL RESOURCES
District #2 and #3 Building Improvements
RESUMES



Team Profiles

James Swiger

www.wykarhitects.com > About WYK > Team



James B. Swiger **AIA, NCARB,** **LEED AP BD+C**

President/Principal-In-Charge

WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

304-624-6326

304-677-3373 Cell

304-623-9858 Fax

www.wykarhitects.com

james@wykarhitects.com

Memberships

WV AIA Board of Directors
2007 - 2009



He is a Harrison County native involved with several community and professional organizations.

James has gained broad experience in both the private and public sectors of the construction / design industry. His completed work reflects a variety of projects with values ranging from thousands of dollars to over \$22 million.

Education

5-Year Bachelor of Architecture, 1996
University of Tennessee, Knoxville, TN
NAAB Accredited University

Architectural Registration

West Virginia (#3640)
Ohio (#1315976)
Pennsylvania (#RA-406309)
Virginia (#401016552)
Maryland (#0017689)
National Council of Architects (#58982)

Honors and Awards

2019 "Sharp Shooter" WV Executive Magazine

2019 AIA-WV Honor Award for Excellence in Architecture - Historic Preservation / AIA-WV Craftsmanship Award for Excellence in Architectural Detail and Craftsmanship; Robinson Grand PAC, Clarksburg, WV

2015 Clarksburg Uptown Business Member of the Year

2015 Campaign Chair - United Way of Harrison County, Inc.

2015 Harrison County Chamber of Commerce Education Committee Chair

2015 "Young Gun" WV Executive Magazine

2013 AIA-WV Merit Award for Achievement in Architecture Design - Unbuilt: Shinnston Community Center, Shinnston, WV

2013 AIA-WV Merit Award for Achievement in Architecture Design; Fairmont State University- Frank and Jane Gabor Folklife Center, Fairmont, WV - Interior and Exterior

Energy Star Certification, Elkins Middle School, Elkins, WV

2010-11 Cambridge Who's Who Member

2009 West Virginia Kiwanis District Governor's Award for "Promoting Membership Growth"

2008 Volunteer of the Year - Harrison County Chamber of Commerce

2008 Selected "Generation Next: 40 Under 40" by the West Virginia State Journal

2008 Strathmore's Who's Who Worldwide Recipient

2008 AIA-WV Merit Award for Achievement in Architecture; West Pike Street Parking Facility, Clarksburg, WV (Co-Design Architect)

Professional Affiliations

American Institute of Architects

AIA - West Virginia

National Council of Architectural Registration Boards

Accredited Professional
U.S. Green Building Council
Building Design + Construction

USGBC-WV Chapter

League of Historic American Theatres

National Trust for Historic Preservation

NFPA – National Fire Protection Agency

WVSHE – Associate Member of West Virginia Society for Healthcare Engineering

Affiliate Member of Builders Supply Association of West Virginia

Civic Affiliations

Health Access - Board of Directors

Clarksburg Uptown - Vice President / Board of Directors

Salem International University- Advisory Committee to the School of Business

Harrison County Chamber of Commerce – Board of Directors (2013-15)

United Way of Harrison County, Inc.; Board of Directors (2009-2016) - Executive Committee "Stonewall Leadership Contributor"; 2015 Campaign Chair

Kiwanis Club of Clarksburg 2008/2009 President

Kiwanis Division 3
2009/2010 Lieutenant Governor

Kiwanis Club of Clarksburg 2018 - Present Volunteer and Service Committee Chair

Salem International University - Auxiliary

V.W. Stonewall Leadership Contributor

Salem Area Chamber of Commerce - Past Board Member

West Virginia Kiwanis District – District 3 – Past Lieutenant Governor

Harrison County Chamber of Commerce – Post Education Committee Chair

Salem Elementary School Nature/Fitness Trail – Project Manager

Bi-County Nutrition, Inc. - Board Member



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Team Profiles

Stephen Kelley



Stephen M. Kelley **Associate AIA**

Senior Project Manager

WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

304-624-6326

304-623-9858 Fax

www.wykarchitects.com

stephen@wykarchitects.com

Associated Memberships



The American Institute of Architects



While in college, Stephen worked two years for a construction company that focused mainly on roofing and masonry work of historic homes and buildings in the Philadelphia area. After graduation he took that experience and applied it to several projects at another local architecture firm, all the while completing his profession's required Intern Development Program. He served as Senior Project Manager for the award winning Robinson Grand Performing Arts Center and numerous healthcare projects for UHC and WVU Medicine. Stephen's 20 years of experience has ranged from small house additions to multi-million dollar complex construction projects.

Stephen has gained broad experience in both the private and public sectors of the construction/design industry. He has been either the Project Designer or Project Manager in a range of projects totaling over \$22 million in value.

Education

5-Year Bachelor of Architecture, 2000
Philadelphia University
NAAB Accredited University

Professional Affiliations

Associate Member, American Institute of Architects (AIA), National Chapter

Associate Member, American Institute of Architects (AIA), West Virginia Chapter

Civic Affiliations

Salem Area Chamber of Commerce - Past Board Member

Harrison County Development Authority - Past Board Member

Fort New Salem Foundation - Current Board Member

Sperry-Davis VFW Post 9151 Quartermaster 2008 - Present

Dept. of WV - District 3 Quartermaster (2015/2016)

Sigma Mu Fraternity Alumni, Mu Pi Chapter

United Way of Harrison County, Inc., Stonewall Leadership Contributor



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Team Profiles

Canon Fancher

www.wykarchitects.com > About WYK > Team



Canon T. Fancher
Associate AIA
LEED Green Associate
Designer / BIM Coordinator

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canon@wykarchitects.com

Associate Memberships



Vita

Canon began his career at WYK Associates, Inc. in 2016. His background includes a Bachelor's of Science in Architecture with a minor in general business from Fairmont State University. He is currently pursuing a Masters in Architecture from Fairmont State, and is equipped to aid in all areas of a project, from design through completion, including client relations, schematic design, project visualization, design development, construction documents and specifications, bidding phases and construction administration.

Having grown up in Fairmont, WV, Canon understands the needs and desires of small communities, and has a desire to infuse modern, contextually sensitive, and sustainable designs into the projects he takes on. Knowing the importance of communication and coordination throughout a project, Canon always aims to develop positive client and consultant relationships in order to create a cohesive project environment. In all phases of a project, whether it be conceptual and schematic design, inquiries and exploration of design possibilities, conceptual visualization, drafting and Building Information Modeling utilization, 3D modeling, creation of specifications, construction administration or project support for other staff, Canon will work to create a high standard of production quality.

Education

Bachelor of Science
in Architecture with a
Minor in General Business, 2016
Fairmont State University

Masters of Architecture
(2017 - Present)
Fairmont State University

Professional Affiliations

American Institute of Architects (AIA), National Chapter, Associate Member

American Institute of Architects (AIA), West Virginia Chapter, Associate Member

National Council of Architectural Registration Boards (NCARB)

USGBC - LEED Green Associate

Volunteer Experience & Affiliations

United Way "Day of Action" - Annual Volunteer



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

WEST VIRGINIA DIVISION OF NATURAL RESOURCES
District #2 and #3 Building Improvements

CONSULTANTS





Civil & Environmental Consultants, Inc.
Bridgeport, WV

Civil Engineering & Site Development

CEC provides civil engineering and site development consulting services to assist clients with the development of cost-effective designs for office campuses, industrial developments, and institutional and educational facilities along with commercial, retail, and residential site developments.

CEC has extensive experience preparing regulatory permits and managing the design, approval, and on-site construction processes associated with a project. CEC has developed a reputation for developing high-quality, sustainable and “buildable” design solutions within construction budgets.

Site Grading Analyses

Site grading plans produce “balanced” earthwork conditions for sites involving minimal earthwork and those involving several million cubic yards of earthmoving. CEC incorporates CADD technology while integrating slope stability, drainage, stormwater management, and geotechnical requirements.

Predevelopment Site Investigations

CEC provides predevelopment investigation services to evaluate sites for specific uses, addressing site layout, zoning adherence for parking and setbacks, site access, wetlands and other environmental considerations, geotechnical concerns, grading/earthwork and utility availability and capacity.

Utility Design/Coordination

CEC designs sanitary sewer collection and conveyance systems, sewage pumping and on-site treatment facilities, and water distribution systems for domestic and fire protection needs while effectively coordinating with electric, natural gas, telephone, and cable television utility companies to provide service to new site developments.

Erosion and Sedimentation Control

CEC has a proven track record of obtaining local, state, and federal erosion and sedimentation control (E&S) permits and/or regulatory approvals. With a thorough working knowledge of state and federal E&S and National Pollutant Discharge Elimination System (NPDES) regulations and requirements, CEC’s primary objective is to



effectively protect the local waterways from erosion and to integrate E&S controls with post-development stormwater management to reduce overall site development construction costs.

Stormwater Management/Water Quality Design

CEC provides comprehensive stormwater management consulting services, including flood routing studies, stream relocations and enclosures, hydrologic and hydraulic analyses and design, stormwater detention design, and the design of water quality best management practices (BMP) facilities. CEC analyzes alternative stormwater detention measures and methodologies to tackle the unique stormwater-related challenges of difficult sites.

PRACTICES

Civil Engineering
Ecological Sciences
Environmental Engineering and Sciences
Waste Management
Water Resources

INDUSTRIES

Manufacturing
Mining
Natural Gas
Power
Public Sector
Real Estate
Solid Waste



Company Overview

Civil & Environmental Consultants, Inc. (CEC) provides comprehensive industry-focused consulting services that advance client strategic business objectives.

Consistently ranked among the Top 500 Design Firms and Top 200 Environmental Firms by *Engineering News-Record*, CEC is recognized for providing innovative design solutions and integrated expertise in the primary practice areas of civil engineering, ecological sciences, environmental engineering and sciences, waste management and water resources.

Safety First

CEC believes that all accidents are preventable and is committed to creating an accident and incident free workplace for employees and subcontractors through training, safe work practices, and processes for assessing project hazards. CEC strives for safety excellence throughout our entire organization and holds employees and subcontractors accountable for the safe performance of their work. Safety is a key element of CEC's Strategic Plan and is represented by our Accident and Incident Free program.

Industry Oriented

Multi-disciplined Industry Consulting Groups (ICGs) are derived from the primary practice areas to strategically focus on the business challenges and drivers of the manufacturing, mining, natural gas, power, public sector, real estate and solid waste industries. Each of these diverse teams is a conduit to the latest thinking and advancements in the industries we serve, allowing CEC to provide clients with concise, timely information and regulatory updates to facilitate informed decision-making.

Employee Owned

CEC's employee-owners are highly motivated by the link between our success and that of our clients. Our continuing growth reflects client confidence in the work of our employees, who are guided by three core business principles:

- **Senior Leadership**
- **Integrated Services**
- **Personal Business Relationships**



Multi-Disciplined

Headquartered in Pittsburgh, Pennsylvania, CEC is an expanding company with:

- Civil Engineers
- Geotechnical Engineers
- Environmental Scientists
- Environmental Engineers
- Chemical Engineers
- Geologists
- Hydrogeologists
- Hydrologists
- Ecologists
- Biologists
- Wetland Scientists
- Threatened & Endangered Species Experts
- Agronomists/Soil Scientists
- Emissions Testing Professionals
- Chemists
- Archaeologists
- Construction Managers & Inspectors
- Environmental Technicians
- Treatment Plant Operators
- Land Surveyors
- Landscape Architects
- GIS Analysts & Programmers

PRACTICES

- Civil Engineering*
- Ecological Sciences*
- Environmental Engineering and Sciences*
- Waste Management*
- Water Resources*

INDUSTRIES

- Manufacturing*
- Mining*
- Natural Gas*
- Power*
- Public Sector*
- Real Estate*
- Solid Waste*

Company Overview

Civil Engineering

- Erosion & Sedimentation Control/ NPDES Permitting Predevelopment Site Investigations
- GPS/GIS Services
- Landscape Architecture/Land Planning
- Geotechnical Engineering
- Site Grading/Earthwork Analysis
- Expert Witness Testimony
- Roadway Design and DOT Permitting
- Stormwater Management/BMP Design
- Utility Design
- Sustainability Planning/Design
- Construction Services
- Integrated Project Delivery
- Site Infrastructure Maintenance/Rehabilitation
- Topographic Surveys
- ALTA ACSM Land Title Surveys
- Boundary Retracement Surveys
- Horizontal & Vertical Control Surveys
- Volumetric Surveys
- Construction Surveys
- Oil and Gas Pipeline Surveys
- Highway R/W Surveys
- As-built Surveys
- LiDAR Surveys

Ecological Sciences

- Wetlands and Waters Delineations
- Clean Water Act, Section 401/404 Permitting
- Wetland & Stream Impact Mitigation Design
- Ecosystem Restoration
- Wetland AMD Treatment
- Fish & Macroinvertebrate Surveys
- Bathymetric/Hydrographic Surveys
- Expert Witness Testimony
- Water Quality & Sediment Surveys
- Threatened & Endangered Species Surveys/ Wildlife Surveys
- Clean Water Act, 316 (a) & (b) Permitting
- Aquatic & Terrestrial Habitat Surveys
- Ecological Risk Assessment & Land Restoration
- Soil Science & Phytoremediation

Environmental Engineering and Sciences

- Air Emissions Testing & Permitting
- Greenhouse Gas Reporting
- Air Dispersion Modeling
- Phase I & II Assessments
- Site Characterization
- Property Condition Assessments
- Risk Assessments
- Auditing & Compliance Plans
- RCRA/CERCLA
- Soil/Groundwater Remediation Systems
- Brownfield Redevelopment Services
- Hydrogeology & Groundwater Modeling
- Storm Water Sampling & Permitting
- NPDES Permitting Support
- Expert Witness Testimony
- Cultural Resource Management
- Architectural History (Above-ground) Resource Investigations
- Archaeological Investigations
- FERC Applications/Certification

Waste Management

- Landfill Design & Permitting
- Transfer Station Design & Permitting
- Waste Characterization Studies
- Landfill Gas Management
- Geotechnical Engineering
- Renewable Energy Processes
- Air Compliance & Permitting
- Expert Witness Testimony
- Leachate Treatment & Control
- O & M of Control Systems
- Construction Services
- Site Selection and Characterization
- Hydrogeologic Site Investigations
- Environmental Monitoring/Compliance Support
- Coal Combustion Product Management

Water Resources

- Stormwater BMP Design & Inspections
- Compliance Audits
- NPDES Permit Negotiation
- Watershed Planning & Restoration
- Flood Routing and FEMA Map Revisions
- TMDL Modeling & Monitoring
- Stream Assessments & Restoration
- Expert Witness Testimony
- Water Quality & Quantity Modeling
- Low Impact Development Design
- Erosion & Sediment Control Design and Inspection
- Water Quality BMP Testing
- Waste Water and Leachate Treatment
- Stormwater Piping & Culvert Inspections

LOCATED NATIONWIDE

- Austin, TX*
855.365.2324
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866.312.2024
- Bridgeport, WV*
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- Charlotte, NC*
855.859.9932
- Chicago, IL*
877.963.6026
- Cincinnati, OH*
800.759.5614
- Columbus, OH*
888.598.6808
- Detroit, MI*
866.380.2324
- Export, PA*
800.899.3610
- Indianapolis, IN*
877.746.0749
- Knoxville, TN*
865.977.9997
- Nashville, TN*
800.763.2326
- Philadelphia, PA*
888.267.7891
- Phoenix, AZ*
877.231.2324
- Pittsburgh, PA*
800.365.2324
- Sayre, PA*
877.389.1852
- Sevierville, TN*
865.774.7771
- St. Louis, MO*
866.250.3679
- Toledo, OH*
855.274.2324



Construction Phase Services and Quality Assurance

The trained professionals, technicians, and inspectors at CEC combine extensive experience with state-of-the-art field equipment to complete construction phase services for a wide range of civil, geotechnical, environmental, and waste management projects.

CEC routinely monitors the construction of large earthmoving projects, mine grouting programs, the installation of erosion control measures, landslide corrective actions, environmental remediation projects, geosynthetic installation, landfill closures, and building construction.

Construction Phase Services

- Construction Quality Assurance (CQA)
 - Density Testing of Soils and Aggregates
 - Concrete Testing
 - Structural Steel Testing
 - Masonry Testing
 - Fire Proofing Testing
 - Asphalt Pavement Testing
 - Fill Placement Monitoring
 - Geosynthetic Testing
- Landfill Liner/Cap Installation Monitoring
- Confirmation Sampling
- Certification Report Preparation
- As-Built Drawing Preparation

IBC Special Inspections

CEC provides Special Inspections during building construction as required by Chapter 17 of the International Building Code (IBC). The code requires the firm performing Special Inspections to be retained by the owner or design professional, not the contractor. CEC typically provides testing of soils, concrete, masonry, steel, and fire proofing. CEC's technicians are certified by numerous testing organizations including ACI, NICET, AWS, and ICC.

Environmental Related Monitoring

CEC provides services during the remedial action phase of UST and waste/contaminated material removal projects and has directed and monitored the installation of groundwater extraction and treatment systems and soil venting systems. Professionals include AHERA-certified asbestos inspectors who can monitor



removal of asbestos-containing materials. CEC technicians also perform air monitoring during construction to allow contractors to assess on-site personnel protection requirements.

Waste Management CQA

CEC provides CQA services during the construction and closure of waste management facilities. CEC reviews material testing reports, monitors placement of earth materials and geosynthetics, and evaluates field test results from geosynthetic installations while compiling the information for the construction certification report, sealed by a CEC registered professional engineer and prepared for submittal to environmental agencies.

Construction Management

CEC provides complete construction management services beginning with the bidding process and through to project closeout. CEC develops bid documents, solicits and evaluates bids, and negotiates contracts for site development, environmental remediation and other projects. During construction, CEC oversees contractor activities with site supervision and helps meet the specifications and schedule requirements.

PRACTICES

Civil Engineering
Ecological Sciences
Environmental Engineering and Sciences
Waste Management
Water Resources

INDUSTRIES

Manufacturing
Mining
Natural Gas
Power
Public Sector
Real Estate
Solid Waste

Construction Management Services

CEC engineers, construction managers and field superintendents provide tailored Construction Management Services (CMS) to deliver seamless completion of projects. CEC's pro-active approach saves time and cost while providing quality results that achieve client objectives.

Construction Management Approach

CEC provides CMS as an agency or as an Owner's Representative, as well as CEC-led Design/Build arrangements where CEC provides a turnkey solution. CEC's collaborative team approach enables early, impactful decisions about a project's design intent, schedule, budget, materials and more. As the Construction Manager (CM), CEC acts as the Owner's Representative and advocate, managing the construction trades, budgeting and scheduling. Trade contracts are "held" either by the owner or by CEC as the CM. In a Design/Build approach, where CEC is responsible for both design and construction of a project, CEC contracts directly with the Owner and is fully responsible for the delivery of the project. CEC's typical Design/Build approach is to offer an integrated team with CEC providing design and engineering on a turnkey basis.

The benefits of a CEC-led CM approach are:

- Builder/contractor selection flexibility
- Early input on constructability
- Early budget and schedule input/control
- Faster schedule delivery
- Owner advocacy

CEC provides a single point of responsibility for both design and construction.

Construction Management Services

CEC's suite of construction-related services provides client advocacy and confidence while delivering projects in many forms, including:

- Pre-Construction
- Project Administration
- Construction Inspection
- Constructability Reviews
- Project Controls and Document Management
- Scheduling



- Cost Estimating
- Cost Control and Value-Engineering
- Change Order Management
- Claims Management and Resolution
- Quality Assurance
- Startup and Testing
- Project Close-out

Construction Management Experience

CEC has delivered on-schedule and on-budget quality CMS for a variety of projects, including:

- Site Development
- Earthwork and Grading
- Site Utility Construction
- Soil and Groundwater Remediation
- Landslide Repair and Remediation
- Erosion & Sedimentation Controls Installation
- Wetland and Stream Restoration
- Access Road Rehabilitation and Construction
- Mine Grouting
- Soil Retention Systems
- Paving
- Post-Construction Restoration

PRACTICES

- Civil Engineering*
- Ecological Sciences*
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- Waste Management*
- Water Resources*

INDUSTRIES

- Manufacturing*
- Mining*
- Natural Gas*
- Power*
- Public Sector*
- Real Estate*
- Solid Waste*

Due Diligence

CEC's integrated approach to due diligence is designed to provide timely and vital information for real property transactions to support an informed decision process.

CEC's due diligence services define a client's risk tolerance, schedule and cost parameters while identifying and quantifying liabilities during the sale, refinancing, lease, development or investment in real property. Recognizing and considering liabilities and fatal flaws is essential to the decision-making process. CEC effectively manages these liabilities with early identification, quantification, and communication of the risks.

CEC's due diligence services include:

- Environmental Assessments (ASTM, Phase I and II Assessments, Archaeological)
- Property (Facility) Condition Assessments
- Environmental Compliance Audits and Hazardous Material Surveys
- Ecological Resources Reviews and Permitting Evaluation (Wetland Identification/Delineation, Jurisdictional Waters, Threatened and Endangered Species)
- Land Survey Services (ALTA/ACSM and Geophysical Surveys)
- Local Ordinance Reviews
- Utility Evaluations
- Geotechnical Investigations
- Floodplain/Floodway Identification
- Stormwater Management Assessments
- Site Evaluations and Conceptual Planning
- Pre/Post Occupancy Assessments Supporting Lease Requirements



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Floodplain Management

CEC's team of skilled and experienced floodplain management professionals provide in-depth regulatory knowledge and sound engineering to produce comprehensive solutions for floodplain management.

The task of improving flood control and risk management through structural and non-structural measures, as well as improving the water quality for our nation's rivers and streams, has been pushed down to the local level.

CEC provides a fully integrated watershed approach to floodplain management, identifying and solving complex stream problems through expertise in stream restoration, water quality, and endangered species management. CEC's team of stream and stormwater professionals includes Hydrologists, Hydraulic Engineers, GIS Specialists, and Certified Floodplain Managers (CFM) who provide the following services:

- Stream Condition Assessment
- Stream Restoration / Relocation Design
- Floodplain Regulatory Permitting
- Hydrologic Studies
- Hydraulic Modeling
- Bridge and Culvert Hydraulic Design
- Reservoir Design and Improvements
- Dam and Improvements Design
- Dam Safety Engineering
- Dam Regulatory Permitting
- Dam Critical Flood Studies
- Dam Emergency Action Plans
- Dam Operation Maintenance and Inspection Plans
- Floodway Encroachment Studies
- Floodway Delineation and Mapping
- FEMA Map Revisions
- Stormwater Management



CEC offers professional services in Floodplain Management to a wide variety of industry clients, including:

- Real Estate Developers
- Golf Course Owners
- Utility Companies
- Mining Companies
- Property Owners
- Home Owners Associations
- Industrial Companies
- Government Agencies
- Environmental Attorneys
- Environmental Managers

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Landscape Architecture & Planning

CEC provides a diverse range of landscape architecture design services for site and land development, master development planning, feasibility studies, stormwater management, landscape design, green infrastructure and irrigation.

CEC provides landscape architecture services to architects; developers; institutional, commercial and businesses owners; and public agencies, and is recognized for leadership in applying sustainable design practices to projects seeking LEED® certification.

Site and Land Development

CEC landscape architects prepare feasibility studies, site concept plans and master development plans for commercial office and retail sites, industrial and residential developments and institutional/academic campuses. Preliminary site planning services address utility and roadway infrastructure, vehicular accessibility and circulation, in some cases rail access, municipal zoning and land development requirements, and state and federal regulations, as well as site planning flexibility.

CEC takes into consideration floodplain issues, topographic constraints, existing and proposed infrastructure, stormwater management, preservation of natural site features such as existing vegetation and water courses, and review of wetlands and other environmental considerations. CEC can include the design of ponds and other water features such as bioswales, rain gardens, and creative stormwater treatment measures to limit water resource impacts.

Landscape and Irrigation Design

CEC can prepare landscape design and planting plans that address local municipal ordinance requirements and the client's program objectives, LEED, and construction budget constraints. CEC also can prepare irrigation plans and construction documents to include commercial systems, groundwater and surface water supply irrigation systems, increased water efficiency, fountains and other water amenity features.



Graphic Renderings and Photo Manipulation Services

CEC prepares large-scale color renderings, photo manipulation services and 3-D modeling for presentation quality drawings and 3-D visualizations. CEC combines computer accuracy with an artistic by-hand touch to create realistic renderings and 3-D models. With technology to overlay proposed design solutions on photos of existing site conditions, CEC can communicate a photo-realistic effect of what the final design solution may look like, which is very effective for public meetings. Hand-drawn and computer-imaged renderings include: black and white and color perspectives, realistic detailed sections and elevations, 3-D models, and color presentation boards presenting both conceptual and final master plans.

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Civil & Environmental Consultants, Inc.

LEED®/Sustainable Site Design



Leadership in Energy and Environmental Design (LEED) is the fastest growing practice area in the engineering and architectural consulting industry. The United States Green Building Council (USGBC) LEED rating point system begins with site selection context and includes numerous components of civil engineering, land planning, landscape architecture and ecology. Referred to more broadly as “Sustainable Site Design,” the utility and water savings, life cycle cost benefits and public image of “Green/Sustainable Projects” define the need for a creative and innovative design team. CEC’s design consultants provide leadership and effective expertise to our clients to assure they meet their LEED/Sustainable project site design goals.

Community Context and Site Selection

The first step in the LEED rating process is site context and community connectivity. CEC sustainable site consultants can evaluate properties for public transportation and community density parameters, existing building and site condition surveys, brownfields, remediation and tax increment financing opportunities, wetland and habitat restoration, site footprint and green space analysis and site master planning.

Materials Re-Use and Repurposing

The cost of off-site disposal and the cost savings from recycling of useable existing materials such as concrete, bituminous paving, structural steel, brick and other products normally considered waste can be part of the LEED point system. CEC’s team can inventory existing properties for potential re-purposing of site materials and prepare demolition and materials handling plans for re-use within the infrastructure of the client’s new LEED project as paving, sub-strate, and landscape architectural site features.

Site Water Resources

While innovative building mechanical and lighting systems are a core component of LEED buildings, water resource or water efficiency (WE) credits are important points to achieve on any Green Building project along with their substantial contribution to operational cost reduction. CEC’s civil engineers, landscape architects and ecologists can develop strategies for storm water run-off capture for use as efficient irrigation and gray water systems, bio-filtration, rain gardens, pervious

paving, detention filtration or ground water recharge. CEC has extensive experience in on-site storm water treatment and bio-remediation design.

Sustainable Landscaping

Our landscape architects and ecologists specialize in the use of native plant species to greatly reduce or eliminate irrigation and maintenance demands while achieving necessary common visual appeal and order. CEC can develop site design plans that incorporate recycled materials and design high efficiency irrigation systems using captured rain water that reduce water use and over-spray loss.

Ecological Restoration

Our team of ecologists and biologists can assess sites for invasive species issues and wetlands and provide plans for invasive species management, wetland restoration and native species re-vegetation. This component of our consulting expertise can contribute to the total number of LEED Sustainable Sites (SS) certification points achieved.

USGBC LEED Documentation

USGBC LEED project certification requires thorough and accurate calculations and support documentation for each requested criteria point. CEC’s LEED Accredited Professionals (LEED AP) and design team prepare the necessary documentation and assist our clients in the certification review process to achieve the maximum number of available points including innovation credits for creative proposals and design solutions.

Civil & Environmental Consultants, Inc. (CEC) provides comprehensive, industry-focused consulting services that advance our clients’ strategic business objectives. CEC scientists and engineers deliver knowledge, innovative design solutions and integrated expertise in civil engineering, environmental engineering and sciences, ecological sciences, waste management and water resources. Multi-disciplinary Industry Consulting Groups (ICGs) focus on the business challenges and drivers of the manufacturing, mining, natural gas, power, public sector, real estate, and solid waste industries.

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Pittsburgh, Pennsylvania	800.365.2324
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Toledo, Ohio	855.274.2324

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Site Infrastructure Maintenance and Rehabilitation Services

CEC engineers, construction managers and field superintendents perform infrastructure assessments, develop recommendations to correct concerns, and deliver cost-effective repair, rehabilitation and maintenance services for site infrastructure.

CEC inspects, monitors, maintains, restores, repairs and improves property infrastructure. The need for such services can arise from damage, age, poor maintenance of systems, and/or changing regulatory requirements. CEC's one-stop approach saves time and money, while assisting clients with compliance and maintaining the safety and aesthetics of their properties.

Stormwater Facilities

CEC inspects and maintains stormwater facilities to ensure stormwater infrastructure is functioning in accordance with design and regulatory requirements. CEC can provide stormwater facility conversions from erosion control ponds to permanent stormwater detention/retention facilities. CEC's engineers and construction personnel are experienced with the design and functionality of the various types of stormwater best management practices (BMPs) used for controlling, treating and conveying stormwater runoff. These professionals assist in evaluating stormwater infrastructure while providing an effective monitoring, maintenance and turnkey construction program to extend and enhance a site or facility life.

Site Surface Features

Site surface feature review and assessment is intended to identify areas and issues that need to be addressed to maintain the safety, stability and functionality of a site. The results of the review are used to develop recommendations for maintenance and remedial work. Such site surface features can include:

- Slopes and embankments
- Sidewalks and crosswalks
- Pavement markings and traffic signage
- Surface drainage controls, such as diversion ditches, swales, riprap, etc.
- Slope benches and drainage outlets



CEC offers review, engineering and construction management services to maintain your real estate asset.

Site Utilities

The location of utility infrastructure is an important element of property maintenance, particularly in the absence of as-built information, or if site expansions and/or modifications are proposed. To locate underground utility infrastructure, CEC offers a comprehensive scope of geophysical services and technologies. Geophysical methods can be used with video camera inspections of sanitary sewers and storm sewers to locate and evaluate existing conditions, while fire hydrant flow testing evaluates the water system flow rates.

Site Landscaping

CEC's unique mix of ecological, civil engineering, landscape architecture and construction management services enhances the natural environment of existing pond and landscaped areas – turning functional assets into amenities. CEC creates natural environments, installing native species and improving biodiversity to enhance water quality and reduce the amount of erosion occurring over time. CEC works with property management personnel to develop

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Site Infrastructure Maintenance and Rehabilitation Services

a sustainable approach to stormwater management and the landscape along with the appropriate maintenance schedules.

Parking and Pavement

CEC reviews existing site layouts to evaluate the efficiency of site parking, internal access roads and external driveways, and pedestrian and vehicular safety. CEC also manages pavement construction rehabilitation and maintenance, and utilizes the Pavement Surface Evaluation and Rating (PASER) or ASTM Pavement Condition Index (PCI) systems to assess existing pavements and parking lots. Subsurface explorations assess the as-built conditions and thickness of the existing pavement components and the pavement subgrade materials. CEC's geotechnical engineers develop cost-effective methods to rehabilitate pavements, and recommend programs to extend the life of the repaired pavement.



Dennis E. Miller, P.S.

Vice President

Mr. Miller has 24 years of experience in Abandoned Mine Land & Land Restoration, Acid Mine Drainage, Airport Surveying, Geodetic Control Surveys, High Accuracy Monitoring. He has worked on both private and public sectors and has noteworthy experience in the policies and procedures within WVDEP, WVDOT, FHWA, FAA.

PROJECT EXPERIENCE

Airports & Aviation

Woodsfield Airport, Woodsfield, OH. Mr. Miller was the task manager responsible for supervising the surveying on the runway extension and obstruction project on this airport in Woodsfield.

Barnesville Airport, Barnesville, OH. Mr. Miller was the task manager responsible for supervising the surveying on the access road improvements, and storm drain improvements project on this airport in Barnesville.

Green County Airport, Green County, OH. Mr. Miller was the task manager responsible for supervising the surveying on the runway extension and county route relocation efforts at the airport in Green County Ohio.

Buckhannon Upshur Airport, Buckhannon, WV. Mr. Miller was the party chief and project manager responsible for field surveying and construction layout efforts on this airport project in Buckhannon.

Petersburg Airport, Petersburg, WV. Mr. Miller was the party chief and project manager responsible for surveying the runway extension at the airport in Petersburg.

Elkins Randolph Airport, Elkins, WV. Mr. Miller was the party chief and project manager responsible for surveying and storm drain improvements on runway 23/5 and the taxiway way at the airport in Elkins.

Buckhannon Upshur Airport, Buckhannon, WV. Mr. Miller was the party chief and project manager responsible for field surveying and construction layout efforts on this airport project in Buckhannon.

Nationwide WAAS Airport Obstruction Surveying. Mr. Miller was the program coordinator and project manager, responsible for the overall program development for nationwide WAAS surveying. Mr. Miller performed all field surveying associated and described in AC 150 5300 16A, 17B & 18B including PACS & SACS reestablishment, photo control, runway end, runway centerline, NAVAIDS surveying, UDDF submission.

EDUCATION

A.S., Surveying, Glenville State College

REGISTRATIONS

Professional Surveyor

- WV991
- SC25750

Oil & Gas

West Virginia Midstream. Mr. Miller is experienced in pipeline and well connects turnkey development. Work included GIS desktop review, pricing and proposals, routing, surveying & mapping, GIS preliminary alignment sheets. Mr. Miller possesses an understanding of NWP 12 & PCN's (2012) regional conditions effecting environmental ECO stream and wetland delineations and reporting, phase 1 environmental site assessments, coordination with cultural resources sub-consultant on due diligence reporting, alignment sheets, understanding of Align DB, and LOD or ROW stake out, property surveys, as-built surveys, WVDOT coordination and access road permitting.

West Virginia Upstream. Mr. Miller served as surveyor in charge and signed over 100 well plats in West Virginia for various oil and gas companies. Work included geodetic control, topographical mapping and boundary determination or verification for well plat and pad development. He performed pre-drill water sampling for oil and gas well permitting. Mr. Miller prepared pricing and proposals, surveying and mapping, oversight of well pad design and plan development, well plat development, construction observation, well pad as-built, oversight of fresh water pond design and plan development, fresh water pond construction observation and as-built.

Ohio Upstream. Mr. Miller is experienced in well pad development and permitting. Work included pricing and proposals, surveying and mapping, well pad design and plan development, well plat development, construction observation, well pad as-built, fresh water pond design and plan development, fresh water pond construction observation and as-built, NWP -12 environmental due diligence reporting, phase 1 ESA's, cultural resources due diligence reporting requirements.

Ohio Midstream. Mr. Miller is experienced in pipeline and well connects turnkey development including GIS desktop review, pricing and proposals, routing, surveying & mapping. He possesses an understanding of NWP 12 & regional conditions effecting environmental ECO stream and wetland delineations and reporting, alignment sheets, LOD or ROW stake out. Work included property surveys, ODOT coordination, prepared alignment sheets for six (6) pipelines totaling approximately 29 miles. Mr. Miller worked with the design team submitting construction documents for six (6) CDP sites and preliminary design and ECO services for four (4) CF facilities.

Surveys / Geomatics

West Virginia Department of Environmental Protection. Mr. Miller was the Program Coordinator for the planning, development and implementation of the work plan to successfully survey & map abandoned mine sites in West Virginia.

This project included the aerial photography / aerial mapping, by both film and lidar, geodetic ground control which included over one-hundred-twenty observation points, photo control points, ground surveying and mapping and quality control. The final mapping was used by various design consultants for the abatement of abandoned mine sites throughout West Virginia.

West Virginia Department of Transportation (Independent Payment Verification). Mr. Miller was the Program Coordinator/Project Manager and served as a field crew member for the past five years on the independent payment verification for the King Coal highway Red Jacket Section. He was responsible for the Independent Payment Verification Reconciliation Report as required by WV DOT and the FHA on 11.37 miles of four lane divided highway which is an active coal mining & construction site. Mr. Miller organized a team of professionals and developed a strategy for the project. The first year the team collected over 23,000 points of conventional & GPS survey data in four days and the second year over 27,000 points of conventional & GPS data was collected in four days. This project is the first FHA sponsored project that the post mining land use from the coal mining activity is a four lane divided highway; this is a public private partnership.

Project Impact Randolph Tucker Partnership. Mr. Miller was the office manager and served as project manager on the planning, development and implementation of the work plan to successfully install and blue book sixty-five (65) new USGS bench mark monuments within Randolph and Tucker Counties in West Virginia. This project was completed in forty-five (45) days to comply with the funding mechanism and involved three offices and over fifteen employees.

Source Water Assessment Program. Mr. Miller was responsible for the overall project management of the Source Water Assessment and Protection Program (SWAP). The purpose of the project was to complete source water assessments and protection plans for fifteen (15) communities in West Virginia, public water supply systems utilizing surface waters to determine past and present possible contaminants. Mr. Miller managed the inventory of all field and researched data including, agency database research, windshield surveys data, field & office GIS & GPS data collection on each site and sub-site, chemical & biological water quality monitoring results for each site, and the development of the Arc View ? Access data management tool, and final report compilation. Responsibilities included data collection (which consisted of visiting several sites throughout West Virginia to GPS possible source water contaminants within a pre-determined zone of critical concern), compiling information from various water treatment plants throughout the state, report compilation and assistance with the development of GIS mapping.

Charleston Newspaper Parking Garage Mr. Miller was the Principal in Charge and overall civil/surveying project manager and civil/survey point of contact for the Design Build of the 340 space parking garage. The design build team had to be

able to overcome the physical limitation of the site and maintain the budgetary requirements. The 4-story above ground and 1-story below grade parking garage presented several design and construction challenges for the civil/survey group. The City of Charleston stormwater management required that stormwater discharge into the existing system ? a six inch or smaller pipe. The design required an eighteen inch pipe. The civil group developed stormwater storage throughout the system and achieved the desired discharge without additional cost to the client. Mr. Miller was able to meet the design and construction schedule on budget while meeting the city of Charleston's storm water collection requirements. The overall success of this design build project was having strong communication and coordination between all the stakeholders associated with this project.

West Virginia Health Right Mr. Miller was the Principal-in-Charge and overall civil/surveying project manager and civil/survey point of contact for the Design Build of the 14,000 SF Health Right clinic. West Virginia Health Right treats around 135 patients per day and is a free clinic; they needed a new facility and had limited funding. This was a very unique project, the contractor offered to perform services at cost without profit, and when we were ask to participate we agreed to do the same. Mr. Miller organized a team of civil and survey staff to complete the project in a short timeline with minimal cost to the client resulting in a successful design build project.

Steven A. Cain, P.E.

Principal

Mr. Cain, a professional engineer with CEC, has more than 22 years of experience in civil engineering design and project management.

Steve's experience in civil engineering design encompasses many aspects of civil engineering design including land surveying, mapping, site development, sanitary sewer system design, storm sewer system design, potable water distribution system design and hydraulic modeling. Additionally, Steve also has experience in water treatment system design and rehabilitation as well as wastewater treatment design.

Steve has also spent a large part of his career in managing projects from conception to completion. As a project manager Steve has assisted clients in identifying potential project needs, assisting the client in securing project funds, performed and directed detail design, and participated in and managed construction activities.

PROJECT EXPERIENCE

Government

Internal Revenue Service Computing Center, GSA

Steve was the Project Designer responsible for the updating of an existing Spill Prevention, Control, and Countermeasure Plan and West Virginia Department of Environmental Protection Underground Injection Permit. Work included field investigation of storm sewers and oil water separators to determine illicit discharge connections and field surveying of existing features to develop base mapping.

United States Custom House, GSA

Steve was the Project Designer responsible for the preparation of a Spill Prevention, Control, and Countermeasure Plan and Operation and Management Plan. Work included field investigation of basement sumps, underground storage tanks and discharge points into storm sewers, to determine possible illicit discharge connections, surveying of existing features to development base mapping and the design of secondary containment practices within the building structure.

Water Distribution System Study, AFCENT

Steve was part of a team assigned to field investigate the water distribution system at the Thumrait Air Base, Oman, for the U.S. Air Forces Central. The project included an in country field evaluation, assembling a base map of existing system components, preparation of a hydraulic model for determining system deficiencies, and preparing a 60%, 90%, and final report document.

Rehabilitation of Water Intake Structure, National Park Service

Steve provided project management and engineering design services for a new water intake structure in the Conococheague Creek for the National Park Service's Cushwa Basin, an interpretive historic site, which is part of the Chesapeake and Ohio Canal system. In addition to the water intake structure, this project included the design of a pneumatic backwash system for the water intake screen, a coffer dam for construction, pump station improvements, access road design, storm water design, a precast concrete building with controls for

EDUCATION

B.S., Engineering Technology - (Civil Emphasis), Fairmont State University

REGISTRATIONS

Professional Engineer

- WV15264
- PAPE056215
- MD33727

CERTIFICATIONS

Permit & Non Permit Confined Space Entry

10 Hour OSHA Construction Safety & Health

SafeLand

First Aid / CPR

PROFESSIONAL AFFILIATIONS

American Society of Highway Engineers

Fairmont State University Technology Advisory Board

West Virginia Rural Water Association

the backwash system, and electrical system upgrades. Additional services included providing a Condition Assessment Report, Cost Estimates, permitting, construction plans and specifications, meeting minutes, and product data cut sheets.

Water Distribution System Improvements, Confidential Government Agency

Steve was the Project Manager for a water distribution system improvements project that included the design of two (2) 388,000 gallon water storage tanks, a 2,000 GPM constant discharge pressure pump station, new vertical turbine high service pumps, approximately 8,000 LF of 12" ductile iron water line, pressure reducing valve stations, and SCADA system improvements. The project also included the inspection and evaluation of the facilities existing raw water line from its raw water intake to the water treatment plant. Additional services included design charrettes, narratives, cost estimates, and permitting.

Residential/Commercial Development

Ray Dental Office, Linda Ray, DDS

Steve was the Project Manager for the preparation of a site plan and West Virginia Department of Environmental Protection Erosion and Sediment Control permit application for the proposed site development of the Linda Ray (Owner) dental office to be located on Lot No. 5 of the Valley Industrial Park Phase II.

Square at Falling Run, Mac Warner

Steve was the Project Engineer for the Phase 1 Site Development of a new 14-story, 180-unit apartment complex. The project included the site grading plan, water and sewer utility design, access design, and preliminary design on road improvements.

Fisher Mountain Estates, LGI

Steve was the Assistant Project Manager for a 1000-lot residential subdivision which includes conceptual land plans, final construction drawings for roads, utilities, water treatment plant and storage tanks, wastewater treatment plant, and permitting.

Roadways

I-495 Capital Beltway HOT/HOV Lanes, Fluor-Lane

Steve was the Project Designer responsible for water and sanitary utility relocation services for 12 miles of widening and reconstruction with four high occupancy toll/high occupancy vehicle (HOT/HOV) lanes in each direction.

Route 250 Waterline Relocation, City of Fairmont

Steve was the Assistant Project Manager in the creation of plans for the relocation of the 12-inch water line located along the east side of US Route 250 south of Fairmont for the City of Fairmont in preparation for a road widening project. Steve served as a contact point for the projects, as well as project engineer compiling field notes, developing construction plans, and assembling construction details.

Route 250 (Raw) Waterline Relocation, City of Shinnston

Steve was the Assistant Project Manager in the creation of plans for the relocation of the 16-inch raw water line located along US Route 250 South of

Fairmont for the City of Shinnston in preparation for a road widening project. Served as a contact point for the projects, as well as project engineer compiling field notes, developing construction plans, and assembling construction details.

Transportation**Western MD Correctional Instituted Traffic Impact Study, MDSHA**

Steve performed data collection and capacity analysis for traffic impact study for new correctional facility to determine off-site roadway improvements. Work included trip generation, traffic assignment and analysis and preparation of condition diagrams.

Street Lighting Project Phase II, Town of Lumberport

Steve was the Project Manager for providing the planning, detailed design, specifications, cost estimates, construction bid documents, and construction engineering and inspection for the installation of 12 additional new historic style street lights. This project was TEA-21 funded.

High Street Retaining Wall and Pedestrian Access, City of Shinnston

Steve was the Project Manager for providing the planning, detailed design, specifications, cost estimates, construction bid documents, and construction engineering and inspection for the construction of a retaining wall to stabilize High Street embankment. The project also included the rehabilitation of the sidewalks and pedestrian access steps that connected High Street to the downtown area.

Wastewater**Barry Street Sanitary Sewer Evaluation Survey (SSES), City of Fairmont**

Steve was the Project Manager for providing SSES to determine the cause of basement flooding of 10 residents from the sanitary sewer system along Barry Street in the City of Fairmont. The work included smoke testing the Barry Street drainage shed that provides sanitary and storm sewer service to approximately 200 City of Fairmont customers to determine illegal connections to the sanitary sewer system. Steve performed dye testing and coordinated Close Circuit TV inspection services to determine the cross connections of the storm sewer to the sanitary sewer. A written report was provided summarizing the deficiencies found and provided a written recommendation for corrections that included a preliminary cost estimate for construction.

Sanitary Sewer Improvements Phase II, City of Shinnston

Steve was the Project Manager for the preliminary and final engineering design services for the sanitary sewer system extensions for the Shinnston Sanitary Board. The project consists of the extension of gravity sewer collection and transmission system into areas outside of the City of Shinnston corporate limits to provide public wastewater treatment to approximately 170 new customers. The project area encompasses areas know as Drain Hill, WV20 (Haywood Road), Gypsy Hill, and Gypsy Hill Road. The new system will include six new duplex pump stations and will transport customer wastewater to the City of Shinnston existing wastewater treatment plant.

Sanitary Sewer Improvement Project, City of Grafton

Steve was the Project Engineer for investigating and recommending sanitary sewer improvements that were necessary for compliance with the City of Grafton's Long Term Control Plan (LTCP). The planned improvements included the installation of a new sanitary collection system in the older downtown area of the city that currently has a combined storm/sanitary system. The project will include approximately 10,000 LF of line installation, along with 54 manholes.

Wastewater System Improvements, Town of Franklin

Steve prepared for submission to the West Virginia Infrastructure Jobs and Development Council for a preliminary engineering report detailing the proposed upgrades and improvements to the Town of Franklin's existing 200,000 GPD lagoon system wastewater treatment plant. The project also included collection system improvements by means of internal pipe lining systems and the installation of the new manholes within the Town's older downtown collection system. Steve also provided final design of the proposed improvements.

Kingmill Valley PSD Sewer Upgrades Phase II, KMVPSD

Steve prepared the preliminary engineering report for the submission to the West Virginia Infrastructure Jobs and Development Council for the design and construction of a new wastewater collection system for the Millersville area of Pleasant Valley, West Virginia. The project also included the design of upgrades to nine existing wastewater pumping stations. Preliminary engineering report included preliminary engineering design, cost estimates, and proposed funding scenarios.

Sanitary Sewer Improvements Phase I, City of Shinnston

Steve was the Project Manager for the preliminary and final engineering design services for the sanitary sewer system improvements for the Shinnston Sanitary Board. The project consisted of the study of the city's entire sanitary sewer system and identifying areas where significant amounts of inflow and infiltration are entering the sanitary sewer system and proposing corrective action. Preliminary engineering services included extensive sanitary sewer evaluation surveys, which included detailed field inspections of existing facilities, smoke and dye testing, flow monitoring, line videos, and hydraulic modeling. Preliminary engineering services also included the planning of proposed improvements, feasibility studies, and assistance in obtaining funding. Final design of accepted alternatives, bid package preparation, construction management and inspection services, and as-built drawing preparation were also part of this project.

Sanitary Sewer Improvements, City of Fairmont

Steve was the Project Engineer for the preliminary and final engineering design services for the sanitary sewer system improvements for the Fairmont Sanitary Board. The project consisted of the study of the city's entire sanitary sewer system and identifying areas where significant amounts of inflow and infiltration are entering the sanitary sewer system and proposing corrective action. Preliminary engineering services included extensive sanitary sewer evaluation surveys, which included detailed field inspection of existing facilities, smoke and dye testing, flow monitoring, line videos, and hydraulic modeling. Preliminary engineering services also included the planning of proposed improvements, feasibility studies, and assistance in obtaining funding. Final design of accepted

alternatives, bid package preparation, construction management and inspection services, and as-built drawing preparation were also part of this project.

Dakota/Meredith Springs Wastewater System Extension, City of Fairmont

Steve was the Project Engineer for the planning, design, and construction inspection services for a sanitary sewer extension serving approximately 100 residences in the Meredith Springs/Dakota Camp Area within the City of Fairmont service area. The project also included the preparation of a facilities plan and funding applications for submission to the West Virginia Department of Environmental Protection. Design services included the routing and design of a gravity sewer system, manholes, lift stations, and all appurtenances, the preparation of specifications, bidding, and contract documents, solicitation of bidders, and recommendation for award. Steve was also responsible for providing construction management services and overseeing construction inspection services including constructability review, project inspection, contractor pay request reviews and as-built drawing preparation.

Town Of Flemington Sewer System, Town of Flemington

Steve was responsible for the preparation of the preliminary engineering report, funding applications, overall design, bidding documents with technical specifications, bidding procedures, construction engineering, and budget control for a sanitary sewer collection and treatment system. The project consisted of nearly six miles of gravity and pressure collection lines. The project also included the design and construction of four sewage lift stations and a 50,000-GPD extended aeration wastewater treatment plant. Other responsibilities included the acquiring of a wasteload allocation, West Virginia Public Service Commission certificate, West Virginia Division of Environmental Protection National Pollutant Discharge Elimination System permit, West Virginia Division of Highways permit and all other permits necessary for construction.

Town of Farmington Wastewater Improvements, Town of Farmington

Steve performed inflow and infiltration investigation by means of visual inspection, smoke testing, dye testing, and television video. Steve was also responsible for overall design of improvements, bidding documents with technical specifications, bidding procedures, construction engineering, and budget control. Steve provided construction management duties during the construction phase of improvements that included the construction of a 125,000-GPD oxidation ditch wastewater treatment plant.

Water

Kanawha Falls Water System Improvements, Kanawha Falls PSD

Steve was the Project Manager for the preliminary design and detailed design services for a water system extension project to provide potable water service to approximately 50 new customers in the Kanawha Falls and Boonesborough area of Fayette County, West Virginia. The project includes the construction of a new distribution system and a 30 GPM hydro-pneumatic booster pump station.

Water System Improvements Phase II, City of Shinnston

Steve was the Project Manager for the preliminary and final engineering design services for the replacement of approximately 11 miles of existing 10" cast iron

water line with new 12" PVC water line from the City's water treatment facility to the connection point in the City limits. Preliminary engineering services included the planning of proposed line replacement improvements, feasibility studies, and assistance in obtaining project funding. Final design included the line replacement, the design of a Johnson Screen at the raw water intake, and bid package preparation.

Stonewood Water System Improvements, City of Stonewood

Steve was the Project Manager for conducting a water loss study for the City of Stonewood that identified that the unaccounted water loss ranged on average from 15 to 30 percent. The water loss study included the review of the existing system data, acoustical testing, correlation testing, pressure evaluations, evaluation of break reports and review of the billing records. Steve also provided oversight of design for the proposed improvements. The project was designed for the replacement of the 50 year old existing water distribution system throughout the City of Stonewood's residential communities. The construction was completed in 2015.

Jane Lew Water System Improvements, Jane Lew PSD

Steve was the Project Manager for the design and construction of approximately 11,500 LF of two-inch galvanized waterline including valves, the removal and replacement of 25 existing gate valves, the installation of 17 new gate valves in the existing distribution system, and installation of 13 bypass meters. The project also included the installation of an eight-inch diameter river crossing pipe to replace an existing crossing, the installation of a supervisory control and data acquisition (SCADA) controlled solenoid valve station and booster chlorination station. Additionally, the project included the extension of 1,500 LF of two-inch polyvinyl chloride water line and a 37 GPM booster pump station to provide service to six new customers and included the fencing of the existing 100,000 gallon water storage tank for security purposes.

Fairmont-Mannington Water Main, City of Fairmont

Steve was the Project Manager for the planning, design, and construction inspection of a 13-mile water main extension from the City of Fairmont to serve the City of Mannington. The project included mapping, route surveys utilizing GPS, assistance in obtaining project funding, design of the 13-mile, 12-inch, and 16-inch water main, preparation of specifications, bid and contract documents, right-of-way acquisition, construction surveys, and construction management and inspection services.

Alpine Lake Water System Improvements, ALPUC

Steve was the project engineer for the preliminary design, detailed design, and construction services for a water system improvement project. Improvements to the water system included the design of four booster pump station upgrades, distribution line replacement, and storage tank improvements. The project also included the planning and design of two new source wells and the design and construction of a new potable water treatment facility.

Water System Improvements, City of Shinnston

Steve was the Project Engineer for the planning, design, and construction

inspection services for a water distribution system upgrade for the City of Shinnston. Services included the mapping and hydraulic modeling of the existing water distribution network, the identification of problem areas, forecasting future water usage for projected growth areas and the completion of funding applications, detailed design drawings, specifications, bidding, and contract documents, solicitation of bidders and recommendations for award. CEI services include constructability reviews, construction management, project inspection, processing routine pay requests and the preparation of as-builts drawings. The project successfully reduced unaccounted for water from 35% to 10%.



CAS Structural Engineering, Inc.
Alum Creek, WV



Firm Profile

CAS Structural Engineering, Inc. – CAS Structural Engineering, Inc. is a **West Virginia Certified Disadvantaged Business Enterprise (DBE)** 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/REVIT for drawing production and Tedds, 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.

PO Box 469 • Alum Creek, WV 25003-0469 **PHONE** 304-756-2564 **FAX** 304-756-2565 **WEB** www.casstruceng.com

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WV **VA** **KY** **OH** **MD** **PA**

BEECH FORK STATE PARK POOL AND BATHHOUSE

Barboursville, West Virginia



Project Owner: West Virginia Division
of Natural Resources

Contact Person: Brad Leslie, PE

Contact Phone: (304) 558-2764

A new pool was part of the design for the project,
which also included several cabins.



The project included design of a new bathhouse to serve the new pool.



Designed While Employed by
Chapman Technical Group

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.



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



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.



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



STRUCTURAL INVESTIGATION

PIPESTEM STATE PARK RECREATION BUILDING

Pipestem, West Virginia



The pool deck is supported by this structure, thus the severe deterioration due to leaking joints in the deck. Once the decking is repaired, a new coating system must be installed to prevent chemically treated water from deteriorating the structural members.



A steel pipe column was added below the bearing end of this beam due to the severe deterioration at the end of the beam.



Project includes investigation into causes of structural cracking in existing recreation building and preparing a construction cost estimate for repairs.



TWIN FALLS STATE PARK LODGE AND POOL 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, pre-cast plank and structural steel.



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



STRUCTURAL INVESTIGATION

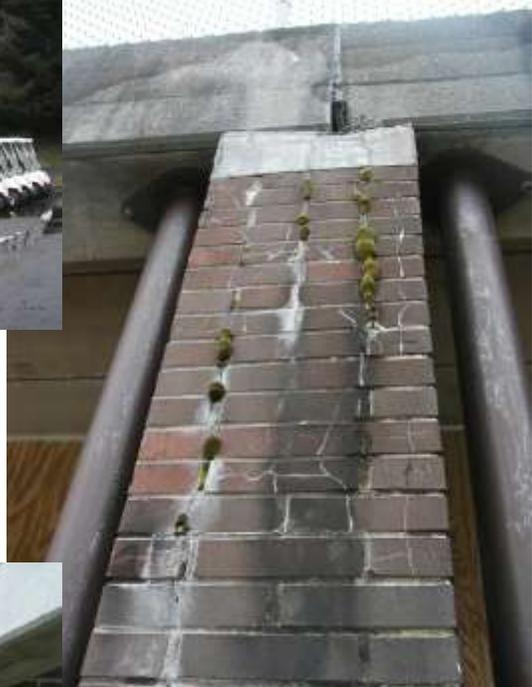
TWIN FALLS STATE PARK RECREATION BUILDING & LODGE

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.



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 Chair
West Virginia University Institute of Technology
Department of Civil Engineering Advisory Committee

CIVIC INVOLVEMENT

Forks of Coal State Natural Area Fdn Committee Member
Engineer's Week Speaker

EXPERIENCE

West Virginia, Pipestem Resort State Park Lodge:
Structural repairs to steel and concrete structural components with severe deterioration.

West Virginia, Pipestem Resort State Park Sprayground:
Structural design of new bathhouse to support new sprayground near lodge.

West Virginia, Twin Falls Resort State Park:
Multiple phased structural repairs to existing lodge structure.

West Virginia, Hawks Nest State Park:
Multiple phased structural repairs to existing lodge structure.

West Virginia, Chief Logan State Park:
Structural design of new 4-bedroom cabins.

West Virginia, Canaan Valley Resort State Park:
Structural investigation and recommendations for repairs to the five (5) existing overnight sleeping facilities.

West Virginia, Twin Falls Resort State Park Lodge Addition: Structural design for new 28,000 SF addition to existing facility, including new entrance lobby, conference areas, sleeping rooms and indoor pool.

West Virginia, Hawks Nest State Park Lodge: Analysis of structural cracks in lodge building. Work included probes to determine condition of existing connections between structural elements.

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, Cabwaylingo State Forest: Structural evaluation of existing dormitory buildings constructed in the 1950's.

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

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WV VA KY OH MD PA



We provide Solutions. You can expect Excellence.

Miller Engineering, Inc.
Morgantown, WV



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 13 years Miller Engineering, Inc. (MEI) has engineered solutions for over \$17.2M 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



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**



Project Contact:

*Bradley S. Leslie, PE, Assistant Chief
State Parks Section*

Phone: (304) 558-2764 ext. 51826

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.

Descriptions of Past Projects Completed – MEP

Cacapon Old Inn

Berkeley Springs, WV

Services Provided:

- HVAC
- Plumbing
- Electrical

MEP Budget: \$98k

Facility Area: 5,500 ft²

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



The Old Inn at Cacapon State Park is a popular lodging choice for large gatherings at the park. The Old Inn only had window AC and heating only through fire places. MEI designed a complete HVAC renovation which includes propane fired furnaces with DX air conditioning to serve the first floor common areas. The guest rooms on the second floor utilize mini-split system units, allowing for individual room control. The kitchen area was completely renovated including new appliances making it more useful for large gatherings.

The HVAC renovation required architectural and structural modifications to the facility. The guest rooms were updated with new furniture and bathrooms were updated as well. Great detail was taken to keep any modifications in-line with the historical component of the Old Inn.

Project Contact:
Debbie Demyan, Project Engineer
State Parks Section
(304) 550-4892

Descriptions of Past Projects Completed – Pool Replacement

Greenbrier State Park

Eastern, WV

Services Provided:

- Aquatic Design
- Plumbing
- Electrical

Estimated Budget: \$760K

Facility Area: 5,500 ft²

Owner: West Virginia Division of Natural Resources



A field study and assessment determined that several plumbing and mechanical systems were inadequate and needed more efficient, code-compliant replacement. The goal of the project was to efficiently use existing piping tunnels that were in good condition and place a new basin within the existing one in order to meet budget demands. The innovative isolation method saved on excavation cost and construction time. New filtration and heating systems were designed for the wading pool and an attractive aquatic design element was also added to increase water movement. The filtration and heating systems were sized and configured not just for the existing pool but also to accommodate a larger pool renovation that was planned during our design process and implemented the following year.

High-rate fiberglass sand filters provide circulation and filtration of the pool water.

Project Contact:

*Bradley S. Leslie, PE, Assistant Chief
State Parks Section*

(304) 558-2764 ext. 51826

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



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. 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

- Bobtown Elementary HVAC
- Blackwater Falls State Park Lodge (Dining Room, 2nd Fl, Spa, Boiler)
- Hawks Nest/Twin Falls HVAC
- Mapletown High School HVAC Replacement Phase I & II
- McKeever Lodge HVAC Piping
- Holly River State Park Primary Electric Service Replacements Phase I & II
- Beech Fork State Park – MEP New Construction Design
- Cheat Lake Elementary & Middle School Renovations
- Cacapon Old Inn

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



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: Construction Representative

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

Professional Project Highlights

- 3RD Party Construction Observation – Canaan Valley Resort
- Hawks Nest/Twin Falls HVAC
- Cacapon Old Inn
- Suncrest Middle School Gym HVAC Upgrade
- Freedom Dealerships (Ford, Kia, Volkswagen)
- Mapletown Jr./Sr. High School HVAC/Boiler Upgrade
- Blackwater Falls Lodge (Dining, 2nd Fl, Spa, Boiler)

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 Mechanical Contractor
- Licensed West Virginia Journeyman Electrician
- Licensed West Virginia Master Plumber
- OSHA 10-Hour Construction Safety & Health



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*
- *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

- Suncrest Middle Gym HVAC
- Holly River State Park Primary Electric Service Replacements Phase I & II
- MHS Area 4 HVAC
- McKeever Lodge Fire Alarm
- Pipestem Lodge McKeever Lodge HVAC Piping Replacement
- Blackwater Falls Lodge (2nd Fl, Spa, Boiler)
- Cacapon Old Inn
- Freedom Dealerships (Ford, Kia, Volkswagen)

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



&estimate, LLC
Cleveland, OH

COST ESTIMATING SERVICES

One of our greatest strengths is estimating. **&estimate** has developed over \$10 billion of construction project cost estimates on all types of construction nationally and internationally. As an independent service, we provide in-house architectural, civil, structural, mechanical, electrical, plumbing, and fire protection estimating to Owners and architectural firms nationally. Our in-house capabilities in estimating are of particular significance when the Value Engineering process is undertaken because of our first-hand knowledge of all aspects of the building construction. Accurate and well-defined cost estimates are critical to the success of every project. Our estimators specialize in providing accurate construction cost estimates from the initial programming phase through the detailed design and construction phases. Our estimating procedures are developed to ensure that each element of the project is well defined and accounted for in the estimate format.

Our estimating efforts begin with the Program Level estimates of the proposed project. These estimates serve as our "Cost Models" for the project and will be updated to reflect the additional information and details included on the Schematic, Design Development, and Construction Documents. We work with the design team and the Owner throughout the design phase to ensure design components align with available funds. Our final estimate, prior to bidding, is used to evaluate the competitive bids received for the various elements of work.



What We Will Do For You

&estimate offers construction consulting services from your idea moment through completion when the owner is handed the keys. For over 30 years, our clients have depended on us to provide the equilibrium between the owner's budget and the design.

Services we offer:

- Owner's Representation
- Probable Cost Estimating
- Value Engineering
- Building Assessments
- Constructability Review
- FFE Estimating and Procurement
- Scheduling
- Cost Segregation
- Life Cycle Costing

Our Areas of Expertise:

- Education, both Public and Private
- Healthcare
- Governmental
- Community/Recreation Centers
- Corporate
- Performing Arts
- Museums
- Historical Restoration
- Senior Living
- Hospitality
- Housing
- Religious
- Non-Profit
- Mixed-Use
- High Performance/Energy Efficient Construction

Firm at a glance

Legal Name	Number of Employees	
&estimate LLC	Project Executives	1
Established	Project Managers	6
	Project Engineers	1
Website	Project Superintendents	4
	Cost Estimators	7
	Others	7



Secret Arboretum and Gardens Learning and Resource Center

Wooster, Ohio

&estimate provided a Concept Cost Estimate for the 6,840 square foot interior/ exterior renovation of an existing garage into the new learning/resource center. This project underwent multiple changes throughout our estimating efforts; the final construction document came in at \$1,513,821. The interior renovation consists of an orientation area, offices, kitchen, storage space, a large multi-purpose room dividable into two smaller rooms - slated for use by OSU classes and arboretum special events. A display corridor extending from the building's existing entryway to the east end for hanging murals, photograph, etc., was also included.

Construction Cost: \$1.9 Million

Architect: Van Auken Akins Architects



Wolf Trap National Park

Vienna, Virginia

&estimate worked with the Design Team in estimating this project from the Design Development phase through the final Construction Development phase with a strong emphasis that the project bid on budget, as well as be built on time. The specific scope of the project included additions and renovations to the existing maintenance facilities, as well as, extensive stormwater based sitework improvements. Underground stormwater detention and bioretention swales were incorporated to alleviate existing stormwater runoff problems that existed in the maintenance yard vicinity. Work was complete without any interruption to the National Parks maintenance operations.

Construction Cost: \$390,000

Architect: Westlake Reed Leskosky



Blossom Music Center - House Left Improvements

Cuyahoga Falls, Ohio

&estimate provided provided conceptual and design development cost estimates for this \$2.2 million construction of new ADA-compliant restroom facilities and concession area site lighting upgrade. The estimates were used to determine the overall budget of the project and to assist with Value Engineering to help the project stay on the estimated budget. The project was approved for funding by the Ohio Controlling Board.

Construction Cost: \$2.2 Million

Architect: Westlake Reed Leskosky



Patuxent River Naval Air Museum and Visitor Center

Lexington Park, MD

&estimate provided SD, DD and CD level cost estimating services for the new 20,858 square foot Patuxent River Naval Air Museum and Visitor Center. The new building, with a focus on the research, development, test and evaluation environments of naval aircraft, includes an exhibit space, simulators, support spaces and offices, a gift shop and displays 22 one-of-a-kind aircrafts.

Construction Cost: \$5.3 Million

Architect: Westlake Reed Leskosky



WV Cost Estimating Experience

- Harrison-Taylor 911 Center, Clarksburg, WV
- Martinsburg VA Medical Center, Martinsburg, WV
- West Virginia State Office Building, Clarksburg, WV
- West Virginia State University, Fleming Hall, Institute, WV
- West Virginia University Medicine
 - Clinical Lab Building
 - Heart Lab - Foundating Pricing
 - New Ambulatory Surgery Center
- West Virginia University, Morgantown, WV
 - Basketball Practice Facility
 - Colson Hall
 - Downtown Housing Project
 - Evandale Campus Redevelopment
 - Healthcare Outpatient Surgery Center
 - Heart and Vascular Institute Renovations
 - Maclin Hall
 - Nursery School
 - Physical Education Building
 - Student Health Center and College of Physical Activity and Sport Science (CPASS)



K-12 Education

- Berkeley County Schools
 - New Middle School, Gerrardstown, WV
 - Spring Mills High School, Spring Mill, WV
- Brooke County Schools, Wellsburg, WV
- Cabell County Schools, Huntington East Middle School, Huntington, WV
- Calhoun County Schools, Arnoldsburg Elementary, Orma, WV
- Gilmer County Schools, New Gilmer Elementary, Glenville, WV
- Hancock County Schools
 - New Cumberland, Elementary School, New Cumberland, WV
 - Weirton Elementary School, Weirton, WV
- Jackson County Schools, Kenna Elementary School, Kenna, WV
- Jefferson County Schools, Harpers Ferry Middle School, Harpers Ferry, WV
- Khanawha County Schools, Charleston, WV
 - West Side Elementary School
 - Edgewood PK-5 Elementary School
- Lewis County Schools, Lewis-Gilmer InterCounty Elementary School, Linn, WV
- Marion County Schools, East Fairmont Middle School, Fairmont, WV
- Marshall County Schools, Moundsville, WV
 - Cameron Elementary, Jr./Sr. High Vocational Buildings Roof Replacements
 - Hilltop Elementary School Athletic Fields Layout
 - New Hilltop Elementary School and Athletic Field



Government Cost Estimating Experience

(continued)

- Central Elementary School Combined
- Moundsville Middle School Additions
- Cameron Elementary School, Cameron, WV
- McNinch Elementary School
- John Marshall High School Proposed Natatorium, Glen Dale, WV
- Cold Storage Building
- John Marshall High School Proposed Sports Complex, Glendale, WV
- Monarch Stadium Improvements, Glendale, WV
- Cameron Fieldhouse, Cameron, WV
- John Marshall High School Concession Additions, Glendale, WV
- Mercer County Schools, Oakvale Elementary School, Princeton, WV
- Mineral County Schools, Keyser PK-4 School, Keyser, WV
- Mingo County Schools, Burch Pre-K-8 School, Delbarton, WV
- Monongalia County Schools
 - Suncrest Elementary School, Morgantown, WV
 - Marsh Fork Elementary School, Marsh Fork, WV
 - Eastwood Elementary, Morgantown, WV
- Nicholas County Schools, Gauley River Elementary School, Craigsville, WV
- Putnam County Schools, Winfield Middle School, Winfield, WV
- Preston County Schools
 - South Area PK-8, Denver, WV
 - Central Preston Middle School, Kingwood, WV
- Raleigh County Schools
 - Marsh Fork Elementary School, Marsh Fork, WV
 - Beckley Stratton Middle School, Beckley, WV
 - Crab Orchard Elementary, Crab Orchard, WV
 - Shady Spring High School, Shady Spring, WV
- Wayne County Schools
 - Ceredo Kenova Pre K-5 School, Kenova, WV
 - Wayne High School, Wayne, WV
 - Fort Gay PK-8, Fort Gay, WV
 - Crum Elementary School, Crum, WV
- Wetzell County Schools, New Martinsville, WV
- Wood County Schools, Parkersburg, WV
 - Parkersburg High School, Parkersburg, WV
 - Williamstown High School, Williamstown, WV
 - South Parkersburgh High School, Parkersburg, WV
- Wyoming County Schools
 - Huff Consolidated Elementary School, Hanover, WV
 - Pineville Elementary School, Pineville, WV



MIKE ADAMS, LEED AP BD+C **vice president / lead M/E/P estimator**

Mike leveraged his hands-on maintenance and repair experience with plant operation systems including HVAC, electrical, plumbing and technology systems, gained from 11 years as a Facility-Services Technician with Lake Health Systems, to make a career leap into the world of cost estimating. He joined PCS companies in 1997 as an estimator. Mike is a Certified Environmental Journeyman and Certified Refrigeration and Air Conditioning Technician and possesses additional certifications dealing with design, programming, graphics and repair of energy management systems. His invaluable experience and knowledge combined with his willingness to mentor make him an asset on all &estimate endeavors. Today Mike is our Lead Estimator and is responsible for the oversight of all mechanical, electrical and technology system estimates. Mike has estimated over \$10 Billion construction projects worldwide and maintains security clearances through the Department of Defense.

Education:

Westside Institute of Technology
Lake Health Systems

Registrations:

LEED Accredited Professional
Certified Journeyman
Bloodborne Pathogens
Fire, Safety & Emergency Procedures
Hazard Communications
Intro to Electrical Safety - OSHA 29
CFR1929
Personal Protective Equipment

Memberships:

American Society of Heating,
Refrigerating and Air Conditioning
Engineers, Inc. (ASHRAE)
Construction Specifications Institute
(CSI), Past President
Association of the Advancement
Cost Engineers International
(AACE International)

Speaking Engagement Passion:

Building Automation

Relevant Project Experience:

- Air Force Bases:
 - Lackland AFB, San Antonio TX
 - Little Rock AFB, Jacksonville, AR
 - NAS Pensacola, FL
 - Randolph AFB, Universal City, TX
 - Vance AFB, Enid, OK
 - Wright Patterson AFB, Dayton, OH
- Schofield Barracks Army Bases, Oahu, HI
- Allen Correctional Institution, Lima, OH
- Architect of the Capitol, Washington, DC:
 - Library of Congress
 - John Adams Building
 - Thomas Jefferson Building
 - James Madison Memorial Building
 - Capitol Power Plant
- Arizona Army National Guard, AZ
- Avon Lake Safety Center, Avon Lake, OH
- Bay Village City Hall, Bay Village, OH
- Bedford Fire Station, Bedford, OH
- Bedford New Municipal Complex, Bedford, OH
- City of Cleveland, New Police Headquarters, Cleveland, OH
- Cuyahoga County Admin. Headquarters, Cleveland, OH
- Cuyahoga County Port Authority, Cleveland, OH
- Federal Reserve Bank, Cleveland, OH:
 - Entry Steps Replacement
 - Water Heater Tank Replacement
 - East 6th Street Entrance Repair/Replacement
 - Tele-Presence Room
 - Learning Center Restroom
 - Cash Department Renovation
 - Lobby Security/Secure Screening Vestibule
- Perimeter Security
- 6th Floor Tenant Fit-out
- Protection Department Renovations
- Conference Center Space Planning
- Conference Center Space Planning; 9M and 10th Floors
- SDS Department Space Planning Concept
- Cash Portal Renovations
- SCS Modernization Project
- Law Enforcement Unit
- Paying and Receiving Area
- Hydraulic Barriers Upgrade
- Research Department Renovations
- Multi-Year Plan
- General Services Administration (GSA):
 - A.J. Celebrezze Federal Bldg., Cleveland, OH
 - Carl B. Stokes Fed. Courthouse, Cleveland, OH
 - J.P. Kinneary U.S. Courthouse, Columbus, OH
 - J.W. Peck Federal Building, Cincinnati, OH
 - Howard Metzenbaum Federal Bldg., Columbus, OH
 - John W. Bricker Federal Bldg., Columbus, OH
 - Potter Stewart Courthouse, Cincinnati, OH
 - Harry S. Truman Building, Washington, DC
- GCRTA, Cleveland, OH
- Harrison-Taylor 911 Center, Clarksburg, WV
- IRS (Internal Revenue Service), Brooklyn, NY
- Medina County Jail, Medina, OH
- NASA John Glenn Research Center, Cleveland, OH
 - Security Enhancements
 - Warehouse 351 East Addition
 - Warehouse 351 West Addition
 - Intrusion & Institutional Plumbing Repairs
- Parmadale Juvenile Center, Parma, OH
- Russell Township Fire Sta., Russell Township, OH
- West Virginia State Office Building, Clarksburg, WV



BRANDON LAWLOR, LEED AP project executive

Brandon joined PCScompanies in 2004 as a Project Estimator/Engineer and today is President of **&estimate**. He is our Chief Estimator with over 17 years of vast experience in MEP. He has advanced training and strong knowledge base in Architectural, Structural and Civil Engineering. Brandon is the primary contact for all our clients and his responsibilities include all estimating oversight. In addition he provides third party legal opinions as well as project or cost estimating audits and maintains security clearances with the Department of Defense. Brandon has estimated over \$10 Billion of construction projects.

Education:

Bachelor of Science
Bowling Green State University

Registrations:

LEED Accredited Professional
Bloodborne Pathogens
Fire, Safety & Emergency Procedures
Hazard Communications
Intro to Electrical Safety - OSHA 29
CFR1929
Personal Protective Equipment

Memberships:

American Society of Professional
Estimators (ASPE)

Speaking Engagement Passion:

Master Planning and benefits of the
conceptual estimate

Relevant Project Experience:

- Air Force Bases:
 - Lackland AFB, San Antonio TX
 - Little Rock AFB, Jacksonville, AR
 - Randolph AFB, Universal City, TX
 - Vance AFB, Enid, OK
 - Wright Patterson AFB, Dayton, OH
 - Schofield Barracks Army Bases, Oahu, HI
 - Architect of the Capitol, Washington, DC:
 - Library of Congress
 - John Adams Building
 - Thomas Jefferson Building
 - James Madison Memorial Building
 - Capitol Power Plant
 - Avon Lake Safety Center, Avon Lake, OH
 - Bay Village City Hall, Bay Village, OH
 - Bedford Fire Station, Bedford, OH
 - Bedford New Municipal Complex, Bedford, OH
 - City of Cleveland, New Police Headquarters, Cleveland, OH
 - Cuyahoga County Administrative Headquarters, Cleveland, OH
 - Cuyahoga County Juvenile Justice Center, Cleveland, OH
 - Federal Reserve Bank, Cleveland, OH:
 - Entry Steps Replacement
 - Water Heater Tank Replacement
 - East 6th Street Entrance Repair/Replacement
 - Tele-Presence Room
 - Learning Center Restroom
 - Cash Department Renovation
 - Lobby Security/Secure Screening Vesibule
 - Perimeter Security
 - 6th Floor Tenant Fit-out
 - Protection Department Renovations
 - Conference Center Space Planning
 - Conference Center Space Planning; 9M and 10th Floors
 - SDS Department Space Planning Concept
 - Cash Portal Renovations
 - SCS Modernization Project
 - Law Enforcement Unit
 - Paying and Receiving Area
 - Hydraulic Barriers Upgrade
 - Research Department Renovations
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 - Carl B. Stokes Federal Courthouse, Cleveland, OH
 - J.P. Kinneary U.S. Courthouse, Columbus, OH
 - J.W. Peck Federal Building, Cincinnati, OH
 - Howard M. Metzbaum Federal Building, Columbus, OH
 - John W. Bricker Federal Bldg., Columbus, OH
 - Potter Stewart Courthouse, Cincinnati, OH
 - Toledo Public Library, Toledo, OH
 - Toledo Municipal Courthouse, Toledo, OH
 - Harry S. Truman Building, Washington, DC
 - Harrison-Taylor 911 Center, Clarksburg, WV
 - NASA John H. Glenn Research Center, Cleveland, OH
 - Security Enhancements
 - Warehouse 351 East Addition
 - Warehouse 351 West Addition
 - Intrusion & Institutional Plumbing Repairs
 - Parmadale Juvenile Center, Parma, OH
 - Parma Library, Cuyahoga County Public Library System, Parma, OH
 - Ricerca Bioscience Campus Upgrades, Concord, OH
 - Russell Twp. Fire Station, Russell Township, OH
 - Shaker Hts. Fire Station No. 1, Shaker Heights, OH
 - Westlake Recreational Center, Westlake, OH
 - West Virginia State Office Bldg., Clarksburg, WV



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

WEST VIRGINIA DIVISION OF NATURAL RESOURCES
District #2 and #3 Building Improvements

WYK's REPEAT CLIENTELE
REFERENCES



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

References

WYK Associates, Inc.

James A. Harris
(Former, County Administrator of Harrison County)
Executive Director I Health Access, Inc.
489 Washington Avenue
Clarksburg, WV 26301
(304) 622-2708

Geoff Marshall, CHFM, CHC
Vice-President of Support Services
United Hospital Center
327 Medical Park Drive
Bridgeport, WV 26330
(681) 342-1220

Dr. C. Eric Kirkland, Ph. D, PMP
Executive Vice-President
Salem International University
223 West Main Street
Salem, WV 26426
(304) 782-5011

Dr. Judy P. Byers, Director of Folklife Center
Fairmont State University
1201 Locust Avenue
Fairmont, WV 26554
(304) 367-4861

Steven Haning
Diamond Development, LLC
209 West Pike Street
Clarksburg, WV 26301
(304) 622-1562

Martin Howe, City Manager
City of Clarksburg
222 W. Main Street
Clarksburg, WV 26301
(304) 624-1677

Shana Frey
Barbour County Administrator
8 North Main Street
Philippi, WV 26416
(304) 457-0025

Dr. Jeffrey Browning, DDS
Total Dental
1219 Johnson Avenue Suite 201
Bridgeport, WV 26330
(304) 842-7591

Laury Waltz
Vice-President Operations / Associate Broker
Petroplus & Associates, Inc.
742 Fairmont Road Suite D
Westover, WV 26501
(304) 284-5011

Carrie L. Wallace
County Administrator
Upshur County Commission
91 West Main Street Suite 101
Buckhannon, WV 26201
(304) 472-0535

Reta Griffith
(Former, Pocahontas County Commissioner)
WVU Extension Service
900 E Tenth Street
Marlinton, WV 24954
(304) 799-4604

Dr. Mark Manchin, Superintendent
Harrison County Schools
445 West Main Street
Clarksburg, WV 26330
(304) 642-3300

Tom Whaling, President & CEO
West Union Bank
320 Emily Drive
Clarksburg, WV 26301
(304) 873-2361

Gary W. Nickerson
Steptoe & Johnson, PLLC
400 White Oaks Blvd.
Bridgeport, WV 26330
(304) 933-8163

Mark Bonamico
Bonamico Construction
424 Lawman Avenue
Bridgeport, WV 26330
(304) 848-2372

Eric Vincent
President, Tyler County Commission
121 Main Street
Middlebourne, WV 26149
(304) 758-2102



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

WYK Repeat Clientele

WYK Associates, Inc.

Amos Carvelli Funeral Home
ARC of Harrison County
Barbour County Board of Education
Barbour County Commission
Citizens' National Bank of Elkins
City Neon
City of Bridgeport
City of Clarksburg
City of Salem
Corhart Refractories
Daisy Development
Diamond Development
Dominion Exploration and Production
Fairmont State University
Fellowship Bible Church
Greathouse Funeral Home
Harrison County Board of Education
Harrison County Bank
Harrison County Commission
Harrison County Courthouse
Harrison County Senior Citizens
Harrison County YMCA
Health Access
Kappa Sigma Pi
Lewis County Board of Education
Louis A. Johnson V.A. Medical Center - Clarksburg
MVB Bank
North Central West Virginia Airport
Pocahontas County Commission
Quiet Dell United Methodist Church
Stockmeier Urethanes
Arnett Carbis Toothman, LLP (formerly Toothman & Rice)
Town of Addison (Webster Springs)
United Hospital Center
United Summit Center
Vienna Public Library
Webster County EDA
West Union Bank
World Vision



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

WEST VIRGINIA DIVISION OF NATURAL RESOURCES
District #2 and #3 Building Improvements

TESTIMONIALS



Webster County Economic Development Authority

139 Baker Street • Webster Springs, WV 26288 • Phone: (304) 847-2145
Email: wcd@WebsterWV.com • Website: www.WebsterWV.com

February 8, 2016

Mr. James Swiger, President and Principal-In-Charge
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

To Whom It May Concern:

It is my pleasure to recommend WYK Associates, Inc. for your next project. I have had the privilege of working with them on a variety of projects over the last decade. The Information Manufacturing Corporation (I.M.C.) Building in Cowen at our Industrial Park utilizes a geothermal heating and cooling system. The I.M. C Building is a 17,000 S.F. structure with an abundance of daylight in the front office area and houses a spacious open structure work space. This project won a Merit Award in Architecture from the WV Chapter of the American Institute of Architects (WVAIA). The 21,000 S.F. Webster County multi-tenant building was built following completion of the I.M.C. in the same development. The multi-tenant building was designed to accommodate a variety of manufacturing spaces and was uniquely designed to be divided or used as a whole.

Recently we have worked with WYK for the interior renovations to our railroad depot building in Webster Springs and R.V. Park adjacent to the depot. This project is part of a master plan to convert this area into a small commercial/recreation area and possibly a trail head for a local trail system in the near future.

WYK has always been diligent in answering any questions or concerns we might have had. In working with WYK on the depot they worked very hard at designing it to meet our very tight budget constraints. The project was funded by a matching grant and there were no additional monies above and beyond the grant. WYK worked with us to give us the most "bang for the buck" to prepare the depot for its future use as a hub for the adjacent facilities.

We were pleased to work with WYK on these projects and we look forward to working with them again in the future. Please do not hesitate to contact me for additional information or questions.

Sincerely,

Geary Weir
Executive Director



LEWIS COUNTY SCHOOLS

239 Court Avenue
Weston, West Virginia 26452
Telephone (304) 269-8300
Fax (304) 269-8305

Superintendent
Dr. Joseph L. Mace

February 4, 2016

Board of Education
Paul Derico, President
Debbie Clem
Sylvia McNeish
Robert Mitchell
Michael Monachello

Mr. James Swiger
President/Principal-In-Charge
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

To Whom It May Concern:

I am writing this letter on behalf of WYK Associates, Inc. and it is my pleasure to recommend Mr. James Swiger and the WYK Associates, Inc. team.

For many years I have worked with the WYK team on multiple projects for Lewis County Schools including the construction of Peterson Central Elementary School and Outdoor Classroom; Roanoke Elementary School; Lewis County High School Bleachers; Lewis County High School Concession Stand; Robert Bland Field House Addition; and security upgrades for the Lewis County Board of Education. Lewis County Schools have greatly benefited from the skills and expertise of WYK Associates, Inc.

James and the team at WYK offer professionalism at its best and I have enjoyed working with them over the years. WYK has always offered sound architectural options while being conscientious of financial constraints. The team at WYK has always been readily available for questions or concerns and has always given Lewis County Schools superior service in a timely manner. Lewis County Schools would welcome the opportunity to work with WYK Associates, Inc. on future projects, and I would strongly recommend them to other School Boards and organizations.

Please do not hesitate to contact me for further information or questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Joseph Mace".

Dr. Joseph Mace, Superintendent
Lewis County Board of Education



DR. MARK A. MANCHIN
Superintendent

HARRISON COUNTY SCHOOLS

408 E. B. SAUNDERS WAY
POST OFFICE BOX 1370
CLARKSBURG, WEST VIRGINIA 26302-1370
(304) 326-7300
FAX (304) 624-3361

BOARD OF EDUCATION
DOUGLAS K. HOGUE, *President*
FRANK DEVONO, JR. *Vice President*
MICHAEL DAUGHERTY
GARY M. HAMRICK
KRISTIN MESSENGER

August 18, 2015

Mr. James Swiger
President and Principal-In-Charge
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

To Whom It May Concern:

It is my pleasure to write this letter on behalf of WYK Associates, Inc. and recommend Mr. James Swiger and the WYK Associates, Inc. team.

For over 20 years I have worked with WYK team on numerous projects for Harrison County Schools and they have proven to be a valuable asset to the school district. We have greatly benefitted from the expertise and architectural skill of WYK Associates. James and his team are true professionals and bring important architectural knowledge and outstanding management skills to their projects. James and his team are active supporters of Harrison County and show leadership in our community.

James and the team at WYK have always been conscientious of financial constraints and have always delivered superior service in a timely manner for Harrison County Schools. Harrison County Schools would not hesitate to work with WYK Associates on future projects, and I would recommend them to other organizations without reservation.

Please do not hesitate to contact me for further information or questions.

Sincerely,

A handwritten signature in blue ink that reads "Neil Quinn".

Neil Quinn, Director
Harrison County Schools

James B. Swiger, AIA, NCARB, LEED AP

President/Principal

WYK Associates, Inc.

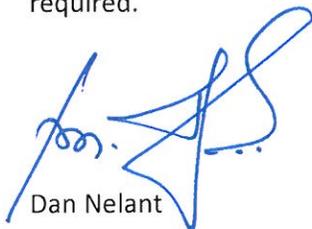
205 Washington Avenue

Clarksburg, WV 26301

Salem International University has benefited from the expertise, professionalism and friendship of Mr. James Swiger for a number of years. WYK and Mr. Swiger, specifically, have aided the University in planning and execution of renovations. He has helped identify regulations and options as well. He is always mindful of financial constraints and deadlines while delivering quality work products.

He has worked with the community of Salem on a number of efforts sometime as a partner with the University, the Chamber of Commerce and others. Salem International University is pleased to recommend WYK and James Swiger for consideration for any architectural/engineering project that is under consideration. He and his team take pride in their work, and all are conscientious and professional. That reflects on his leadership.

As loyal supporters of the University and the Salem Community, Mr. Swiger and his team are community advocates that we treasure. We would be more than pleased to be contacted if further information is required.



Dan Nelant

President

Salem International University



Keith Bullion

Associate Director of Campus Operations

Salem International University



February 5, 2016

To whom it may concern:

I am very pleased to write this letter on behalf of WYK Associates, Inc. of Clarksburg. Our century old school building was in desperate need of additional classroom and office space. We were faced with a sudden increase in enrollment for the upcoming school year for the Pre-Kindergarten class. The Wheeling-Charleston Diocese asked me to contact WYK to explore solutions to utilize the most space within our tight budget and timeframe. The Diocese spoke very highly of WYK as the firm had recently completed a new parish center for our associated church and they also performed other renovations to our school as well as our neighboring Notre Dame High School.

James Swiger and his staff diligently studied our building, exploring every option of gaining Pre-Kindergarten classroom space. Another challenge of the project was the requirement of the Pre-K to be located on the main floor for direct exiting requirements. The ultimate solution was to move the principal's office to the center of the school, utilizing the back of the oversized existing auditorium, under what was once a balcony. This created four new private offices for our administration in addition to a much needed conference room. The old office space was removed, thus expanding the adjacent classroom into that area. This kept the Pre-K on the main floor, made our offices more centrally located and increased visibility and security to all three entrances to the main floor level. They kept insisting they wanted to solve as many design issues within the school as they could while doing this renovation. They did just that!

WYK's staff was very professional, experienced, thorough and timely. They produced a wonderful design that fit within our budget and allowed for minimal disruption to the school. They worked closely with the contractor, which assisted him in completing the work in our shortened summer vacation.

It is without reservation that I highly recommend WYK Associates, Inc. for your project. I can now see why the Diocese asked me to contact WYK to execute this work.

Sincerely,

Nicole A. Folio, M. Ed.

Principal



**HARRISON COUNTY YMCA
Lowndes Hill Park
P.O. Box 688
Clarksburg, WV 26302-0688
304-623-3303**

August 14, 2015

To whom it may concern:

WYK Associates serve their clients with thoughtful planning; creative design; and credible engineering. Their professional skill is underscored by impeccable character and generosity to their community.

Commending WYK Associates to prospective clients comes from personal experience and observation of projects completed for others. Their talent and high standards will serve you well.

Sincerely,

MX

D. Max Francis
Interim Executive Director

July 16, 2015

Mr. James B. Swiger
President and Principal-In-Charge
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

Dear James,

Please consider this letter my recommendation of you and the staff at WYK Associates based on the projects completed for United Hospital Center. UHC was pleased to work with WYK on a variety of projects at our hospital facilities and we were impressed with your level of skill, professionalism, and commitment to quality. The staff at WYK exhibits a high-level of expertise in their field and was attentive to the needs of the hospital and our objectives.

United Hospital Center hired WYK Associates, Inc. to redesign two existing physician office suites in our multi-tenant facility and the jobs included a complete demolition of the existing offices. In addition to the multi-tenant building, WYK also renovated United Hospital Center's Cardiac Rehabilitation Center, Physical Therapy Suite, and Sleep Center.

I am confident that the work completed by WYK Associates, Inc. at United Hospital Center will be instrumental in better serving our patients and community and we are pleased with the results. I would be happy to recommend WYK and express my pleasure in working with the firm on the various projects at United Hospital Center. I would also welcome the opportunity to work with WYK Associates, Inc. again in the future.

Sincerely,



Geoff Marshall
VP Support Services



Health Access, Inc.

489 Washington Avenue • Clarksburg, West Virginia 26301

Phone: 304-622-2708 • Fax: 304-623-9302 • E-mail: healthac@ma.rr.com • Web: www.healthaccessinc.org

July 10, 2015

James B. Swiger, AIA, NCARB, LEED AP
President / Principal
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

RE: Letter of Recommendation

Dear Mr. Swiger:

Health Access, Incorporated first hired WYK Associates, Inc. in 2010 to design, plan and manage a project to completely renovate the medical clinic located at 489 Washington Avenue in Clarksburg, West Virginia. The project had a total cost of over \$350,000.00 and a very tight time frame of ninety days from start to finish. Another very challenging aspect to our project was the need to keep our Pharmacy operational to fill prescriptions during the entire ninety days of construction. From the outset, WYK Associates exhibited great attention to the details of our operation and our specific space and functionality needs within this medical facility and this was an outstanding feature of our relationship with the company. We found your willingness to make changes in the design phase as required by our budget limitations so helpful in bringing forward the very best design that our agency could afford.

Throughout this entire project, your “hands on” approach in managing the project made this experience very rewarding for our agency Board of Directors, Staff and ultimately for our many patients. The contractors that WYK Associates invited to bid on the project were all top of the line in our area and I’m confident that any one of them would have done excellent work, however we were extremely satisfied with the successful bidder; Elkview Builders, Inc.

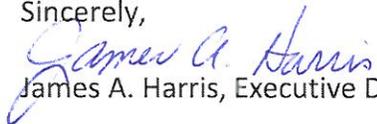
In addition to the major renovation project in 2010, Health Access, Inc. once again engaged the services of WYK Associates, Inc. for a smaller project in 2014. That project involved renovation of a space to install a small employee restroom within the clinical spaces and also the modification of five exam room doors to install sound seals that afford privacy and confidentiality of patient-provider discussions in those areas. Again we were delighted with the process in working with WYK Associates in this project which was completed in a timely manner, within budget and without disruption to the operation of the clinic which remained open during the entire project.

James B. Swiger

Page -2-

Please feel free to use Health Access, Incorporated as a reference to any potential clients seeking Architectural, Planning-Design or Project Management services. We can certainly recommend WYK Associates, Incorporated without reservation as we are a very satisfied customer. Thank you again for your efforts to make this beautiful new home for the free clinic and the hundreds of low income uninsured patients we are privileged to serve.

Sincerely,


James A. Harris, Executive Director

UPSHUR COUNTY COMMISSION

Upshur County Administrative Annex
91 West Main Street, Suite 101 • Buckhannon, West Virginia 26201

Telephone: (304) 472-0535
Telecopier: (304) 473-2802

TDD Numbers
Business: 472-9550
Emergency: 911

March 10, 2017

WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

Re: Upshur County Courthouse Roof and Chimney Projects

To Whom It May Concern:

We recently had the pleasure of working with WYK Associates, Inc. on the roof and chimney restoration for the Upshur County Courthouse in Buckhannon, WV. WYK was instrumental in coordinating with West Virginia's State Historic Preservation Office (SHPO) to ensure the new designs were compatible with the historic character of the building.

For the roof, new metal shingles and flashing replaced existing materials surrounding the bell tower dome and at the front gable. The remaining shingles on the main roof were cleaned and coated with a fibered aluminum coating. For the two chimneys, the existing brick was dismantled and rebuilt from the roof up. Both chimneys were restored to their existing height using similar materials and topped with new stainless steel caps.

WYK brought their experience, knowledge, and professionalism to both projects as they expertly developed the new design, created the construction documents, facilitated the bidding process, and administered the construction contract. WYK's attentiveness and responsiveness contributed to both projects being successfully completed on time and within budget.

The Upshur County Commission is fortunate to have worked with a competent architect such as WYK Associates and looks forward to working with them again.

Sincerely,



Carrie L. Wallace

Upshur County Administrator

An Equal Opportunity Employer



CITY OF CLARKSBURG

WEST VIRGINIA

OFFICE OF
CITY MANAGER

November 7, 2016

James Swiger, President and Principal-In-Charge
WYK Associates, Inc.
205 Washington Ave.
Clarksburg, WV 26301

Re: Letter of Appreciation

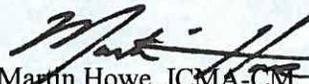
Dear James:

It is with great pleasure that I am writing this letter of recommendation and appreciation for James Swiger and the entire team at WYK Associates, Inc. I have thoroughly enjoyed working with Mr. Swiger and his staff. James and his team are courteous and professional and have been dedicated to even the smallest of details for each project they have completed for the City of Clarksburg. Additionally, they have ensured the projects were always on time.

Over the years, James and the staff at WYK Associates, Inc. have completed multiple projects for the City of Clarksburg including a Police Sub-Station in Laurel Lanes, three (3) Fire Stations in Clarksburg which include the Central Fire Station in downtown, and two (2) sub-stations; the East End and North View Stations, as well as designing the Jackson Square Parking Facility. Jackson Square is used for downtown parking with an outdoor venue utilized for outside events. Everything from farmers' markets, wedding receptions, holiday events and festivals like the West Virginia Italian Heritage Festival's Pasta Cook-Off. I am proud to share that WYK was awarded the AIA West Virginia Merit Award for Achievement in Architecture for this project.

I personally look forward to working with WYK Associates, Inc. again and would highly recommend them to other local governments for use on their projects.

Sincerely,


Martin Howe, ICMA-CM
City Manager

TOWN OF GASSAWAY

RICHARD M. ROACH, MAYOR

CHERRI WILSON-GERWIG, RECORDER/CLERK

RICK A. BURROWS, SR. CHIEF OF POLICE

COMMON COUNCIL

JIM MALICK

FRANCES CLAYTOR

JIM CRINER

LYNN JEFFRIES

EDNA WILSON

Jordan Garland
205 Washington Avenue
Clarksburg, West Virginia 26301

I am writing to recommend the services of WYK Architects'. WYK did an outstanding job on the restoration of the Gassaway Depot. Their knowledge and attention to detail made the restoration of the Gassaway Depot a success. I feel confident in recommending WYK Architect services. Their work was not only thorough but they were also easy to work with, and willing to take the time to discuss any concerns and responses to any questions.

If you have any further questions please feel free to contact me.

Regards,



Richard M. Roach, Mayor

416 ELK STREET, P.O. Box 147
GASSAWAY, WV 26624
304-364-5111
304-364-4003 FAX
THETOWNOFGASSAWAY@FRONTIER.COM



1219 Johnson Avenue, Suite 201
Bridgeport, WV 26330

304-842-7591

To whom it may concern:

It is with great pleasure that I am writing this letter of recommendation for James Swiger and the entire WYK team.

When I was starting my building project, I asked several people for recommendations. I spoke with contractors, businessmen, and people who had been through construction projects. Overwhelmingly, the one name that was mentioned was James Swiger.

Every aspect of the project that James was involved with was done with great care and excellence, from the initial design of the building, to coordinating all of the work, and even now that the building is complete. James was and is available to answer my questions and to help in any way that I ask. I honestly cannot remember a single incident that James or a WYK team member was not available. I feel that his knowledge of and rapport with the engineers, contractors, and inspectors was a tremendous asset to the project. His attention to detail would amaze me. It is obvious that he takes great pride in his work. His professionalism and level of commitment is beyond what would be expected. I would visit my construction site every evening after work and on the weekends, and often times James would show up.

Finally, as the saying goes, the proof is in the pudding. The finished product is a thing of beauty. My patients are always commenting about the building. My building is the perfect space for my dental practice as well as the other tenants.

Please feel free to contact me if I can be of further assistance.

Sincerely,

Jeffrey W Browning, DDS



400 White Oaks Boulevard
Bridgeport, WV 26330
(304) 933-8000 (304) 933-8183 Fax
www.steptoe-johnson.com

Writer's Contact Information

(304) 933-8163
Gary.Nickerson@steptoe-johnson.com

March 10, 2016

To Whom It May Concern:

I am presently the managing partner of the Bridgeport, West Virginia, office of Steptoe & Johnson PLLC, a national law firm of over 300 lawyers in six states. S&J has its roots in Harrison County, West Virginia, where it was formed in 1913 in Clarksburg. Our firm maintained its primary office in downtown Clarksburg for almost 100 years.

Recognizing that the facility in Clarksburg could no longer meet the needs of a growing national law firm, in 2008, we made the decision to build a new home office, strategically located in Bridgeport, West Virginia, along the I-79 Corridor. We retained SKB Architects, a firm known worldwide for the design of law firm buildings. Because SKB was not local to this area, both SKB and our firm recognized the critical need to have a local architectural firm be actively involved in the design and construction of the 80000 square foot state-of-the-art office building. Without hesitation, we recommended WYK Associates, Inc. to SKB, having known the architects of this firm and the quality of their work for several decades.

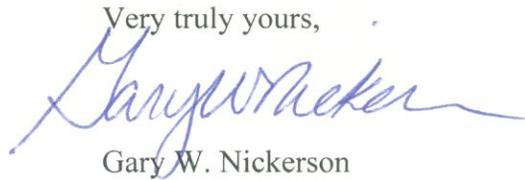
Specifically, from day one, WYK performed oversight of the project, serving as an important liaison between SKB, the S&J's building committee and the construction firm. Initially, WYK Associates, Inc. provided a peer review of SKB's design and construction documents prior to the documents being released to contractors for bidding. With SKB and our firm's building committee, WYK was actively involved in the contractor interview and selection process for the \$16 million building, designed to LEED standards. The assistance of James Swiger of WYK was of critical importance to S&J's selection of a contractor and that selection proved to be outstanding. Moreover, WYK attended all construction meetings with SKB, the firm's executive director, the contractor and sub-contractors throughout the course of the construction period. WYK also served as the "eyes and ears" for SKB, making site visits and reporting back to SKB-- on the "off" weeks that SKB was not present at the site-- as a means of quality control as well as verifying construction conditions for SKB. WYK was active in the job site meetings, offering input and solutions to any construction related issues that arose throughout the course of the construction process. In the end, the project was a resounding success for our firm and we moved into our beautiful, state-of-the-art facility, in August, 2010.

From S&J's standpoint, WYK provided our firm's "safety net" and "comfort zone" throughout the entire process, being a longstanding and respected firm of architects who we have known and trusted for decades. Despite our large size, we had never built our own building, and had leased in all office locations throughout our century of existence. James

March 10, 2016
Page two

Swiger and WYK Associates, Inc. provided a much needed comfort level to our lawyers as well as a level of service and oversight that was of critical importance to the successful completion of the project, on time and on budget. As the office managing member, and as an active member of the S&J building committee, I cannot imagine our law firm completing this beautiful facility without WYK in our corner. Should you have any questions, please feel free to call me.

Very truly yours,



Gary W. Nickerson

GWN
7133013.1

August 13, 2015

Mr. James Swiger
President and Principal-In-Charge
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

Dear James,

I would like to take this opportunity to express our satisfaction with Premier Bank's Flatwoods Branch. I was the Executive Vice President of the Bank of Gassaway when the branch was constructed and all of us at the Bank of Gassaway were well pleased with your design and project management of the branch.

The branch stands out from the other businesses in the area and we regularly are complimented on its appearance. The branch is very functional and it serves our customers well.

Thank you for your excellent work on the project.

Jim McQuain
Senior Vice President
304-364-5138 ext 1701
jimmy.mcquain@premierbankinc.com



BOB TRICKETT

Cadillac Buick GMC Inc.

GMC



P.O. Box 609, Route 50, East • CLARKSBURG, WEST VIRGINIA 26301 • (304) 624-6594

February 5, 2016

Mr. James Swiger
President and Principal-In-Charge
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

To whom it may concern:

It is with great pleasure that I am writing this letter of recommendation for James Swiger and the entire WYK Associates, Inc. team.

WYK Associates, Inc, renovated the Bob Trickett Cadillac Buick GMC dealership located on old Bridgeport Hill. Throughout the entire process, WYK was available any time to answer any questions or concerns I had. WYK was able to complete our project on time and adhere to our budget. WYK had an excellent rapport with the project engineers, contractors and inspectors. Our newly renovated building is easily the most attractive building on Old Bridgeport Hill now.

James and the team at WYK are professional and courteous. I would not hesitate to recommend WYK Associates, Inc. to other car dealerships or businesses for their architectural services.

Please contact me for further information or questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Bob Trickett", written over a large, stylized outline of a signature.

Mr. Robert W. Trickett, Owner
Bob Trickett Cadillac Buick GMC

March 10, 2011

Mr. James B. Swiger, AIA
President / Principal-In-Charge
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

Dear James:

This letter is in appreciation of all the work WYK Associates has provided to the Pocahontas County Commission and myself over the last year. I have thoroughly enjoyed working with your company and have appreciated the professionalism and dedication you have given our projects.

Due to the historic nature of the Pocahontas County Courthouse I knew there would be surprises in replacing the roof and installing an elevator. WYK was very creative in overcoming these challenges and researching alternatives that would fit within the budget of funds we had to use for this project. I have also enjoyed the consistent and timely communication you provided while I was managing the project for the County Commission. You never failed to respond to a request, and even provided direction when we were at a loss as to how to proceed.

I would highly recommend your company for other projects with local governments or in the private sector.

Thank you again for all your assistance.

Reta Griffith

Sincerely,
Reta Griffith
Former Commissioner, Pocahontas County (1998-2010)
RR 1 Box 122A
Marlinton, WV 24954
304-799-4523
retagriffith@frontiernet.net



131 WEST MAIN ST. • BRIDGEPORT, WEST VIRGINIA 26330-6310
Phone: (304) 842-8251 • Fax: (304) 842-8254 • www.bridgeportwv.com
CHUCK FEATHERS • BRIDGEPORT FIRE DEPARTMENT
Chief

September 20, 2010

Mr. James B. Swiger
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

Dear Mr. Swiger,

It has been almost a year now since we moved into our new Public Safety Substation and I wanted to take a moment to thank you for all you did in insuring the success of our building. It is more than we expected when we first started this project. Your detail to our requests as we started this project is what has made it such a workable project. You took our words on what we wanted and turned them into a state of the art public safety building that is not just pleasing to the eye but very functional.

Throughout the project as problems rose you were quick to find answers that worked for our needs and decisions evolved around our needs instead of what worked best for others.

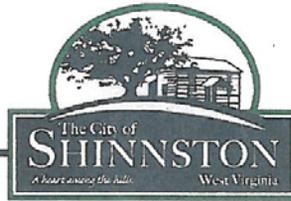
Thank you again for all the great work you did for us and the building stands as a tribute to you and your firm for a job well done. If I can be of assistance to you in the future just let me know.

Sincerely,

A handwritten signature in black ink, appearing to read "C. Feathers", written in a cursive style.

Charles A. Feathers, Chief

Bridgeport Fire Department



February 8, 2012

To Whom It May Concern,

The City of Shinnston has worked with WYK Associates, Inc., on a variety of projects and has always been impressed by their level of skill, professionalism and commitment to quality. The staff exhibits an expertise in their field and is attentive and attuned to the community they are working in.

Current projects that WYK Associates, Inc., are assisting the City of Shinnston with include the design and construction of the Shinnston Community Building. This \$5 million building is located at the entrance to the City's historic downtown district and WYK have excelled at designing a building sensitive to its location and history, yet able to carry the City into the twenty first century. From initial stakeholder meetings to design presentations, the team at WYK listened to the community's needs and responded accordingly.

The City of Shinnston is also utilizing the planning and design aspect of WYK Associates, Inc., on the former G.C Murphy building project. This project is a detailed feasibility study to assist the City in deciding whether to purchase the hundred year old property. The WYK team has researched the current condition, reviewed code requirements with regard to future development and developed a plan for the highest and best use of the building.

In 2009, WYK Associates Inc., designed and managed the renovation of the City of Shinnston Museum. The Museum now has excellent display space, coupled with galleries for exhibits, and a spacious meeting area. WYK's ability to design space to serve multiple purposes has meant that the Museum is used for government meetings and receptions as well as traditional preservation uses.

The City of Shinnston has been very pleased to partner with WYK Associates, Inc., on these and other projects. From architects to administrative support personnel, the firm exhibits a high commitment to quality and customer satisfaction.

Yours truly,

Emma Clarke
Finance Officer

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.

Lisa Kuhn, Office Manager
(Name, Title)

Lisa Kuhn
(Printed Name and Title)

WYK Associates, Inc., 205 Washington Ave., Clarksburg, WV 26301
(Address)

304.624.6326 / 304.623.9858
(Phone Number) / (Fax Number)

lisa.k@wykarchitects.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.

WYK Associates, Inc.
(Company)

James B. Swiger, AIA - President
(Authorized Signature) (Representative Name, Title)

James B Swiger, AIA
(Printed Name and Title of Authorized Representative)

06/17/19
(Date)

304.624.6326 / 304.623.9858
(Phone Number) (Fax Number)

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: WYK Associates, Inc.

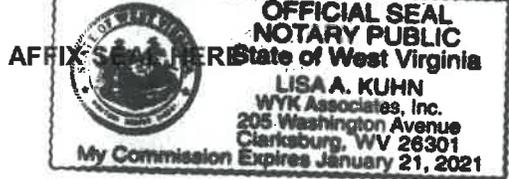
Authorized Signature: [Signature] Date: 6/12/19

State of West Virginia

County of Harrison, to-wit:

Taken, subscribed, and sworn to before me this 12th day of June, 2019.

My Commission expires 01/21, 2021.



NOTARY PUBLIC [Signature]

