

EXPRESSION OF INTEREST

FOR THE



WEST VIRGINIA SCHOOLS
for the DEAF and the BLIND

GENERAL CAMPUS SITE UPGRADES AND RENOVATIONS

CEOI DBS22*03

07/13/22 11:31:50
West Virginia Purchasing Division



WYK ASSOCIATES, INC.

ARCHITECTURE • PLANNING

205 Washington Avenue, Clarksburg, WV 26301 304-624-6326 www.wykarchitects.com

ROMNEY, WV

WEST VIRGINIA SCHOOLS FOR THE DEAF AND THE BLIND GENERAL CAMPUS SITE UPGRADES & RENOVATIONS

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WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

West Virginia Schools for the Deaf and the Blind

**GENERAL CAMPUS SITE
UPGRADES & RENOVATIONS**

LETTER OF INTEREST



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

July 12, 2022

Mr. Joseph E. Hager, III
Purchasing Division
Department of Administration
2019 Washington Street East
Charleston, WV 25305-0130

Re: Expression of Interest for General Campus Site Upgrades and Renovations at the
West Virginia Schools for the Deaf and the Blind

Dear Mr. Hager:

WYK Associates, Inc. wishes to express a strong interest in providing design services for this exciting project! We have included on our team ZDS Design / Consulting Services for Mechanical, Electrical and Plumbing and Fire Protection Engineering out of the Charleston area; Civil & Environmental Consultants, Inc. of Bridgeport, WV and CAS Structural Engineering if Structural Engineering is required. 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.

Our design team has vast experience with working on historic, industrial buildings , renovations to existing buildings including many build-outs in either new construction or complete gut and re-dos. This team is currently working on the design for a new two story head house for Tyler County Schools.

We have designed and/or added loading docks to several types of buildings. Most recently, we added a new loading dock to the historic Robinson Grand Performing Arts Center in downtown Clarksburg, which had challenging, tight site restraints. Our team has a solid understanding of vehicular and pedestrian circulation. Most recently WYK/CEC completely renovated the vehicular ingress/egress and parking lot of WVU Medicine's Eye Center located at a prominent, very busy intersection in Bridgeport. Along with that design, the pedestrian access to the building was modified and improved from the revamped parking lot into the building.

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, CHC
President



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

West Virginia Schools for the Deaf and the Blind

**GENERAL CAMPUS SITE
UPGRADES & RENOVATIONS**

COMPANY OVERVIEW



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

122 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.

WYK finalizes design on new Pediatrics Facility for WVU Medicine UHC, Inc.	2022
New Eye Clinic for United Hospital Center	2021
WYK designs "Net Zero" energy Tyler County 911 Center	2020
RGPAC receives two AIA-WV Design Awards	2019
WYK Associates, Inc. signs contract to renovate the Historic Tyler County Courthouse	2019
RGPAC construction complete. Grand Opening!	2018
Construction begins on the RGPAC	2017
Ribbon Cutting Ceremony held for Clarksburg Federal Credit Union	2017
Upshur County Courthouse Roof & Chimney Restoration	2016
WYK Associates, Inc. signs contract to renovate the Robinson Grand Theatre	2015
James B. Swiger becomes sole owner of WYK, now President and Principal-in-Charge	2012
James B. Swiger becomes President	2011
James B. Swiger becomes Partner and Vice President	2008
James B. Swiger returns as Project Architect	2005
James B. Swiger becomes an Architectural Intern at WYK Associates, Inc.	1996
Carleton Wood, Jr. retires; William E. Yoke, Jr. becomes President	1996
Howard Kelley retires	1992
WYK Architects, Inc. becomes WYK Associates, Inc.	1978
Carleton Wood, Jr., William E. Yoke, Jr. and Howard Kelley form WYK Architects, Inc.	1976
Whalen King Architects purchases W.H. Grant's firm	1973
Carleton Wood, Jr. joins Whalen King Architects	1971
William H. Grant, Jr. acquires firm	1956
Carleton Wood, Jr. joins firm as apprentice	1949
Carleton Wood selected to rebuild Robinson Grand Theatre	1939
Carleton Wood designs Clarksburg Fire Station	1927
Firm changes to E.J. Wood and Son Architects as Carleton Wood joins	1921
Edward J. Wood commissioned Marion County Jail	1910
Edward J. Wood starts architectural practice	1900



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

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.



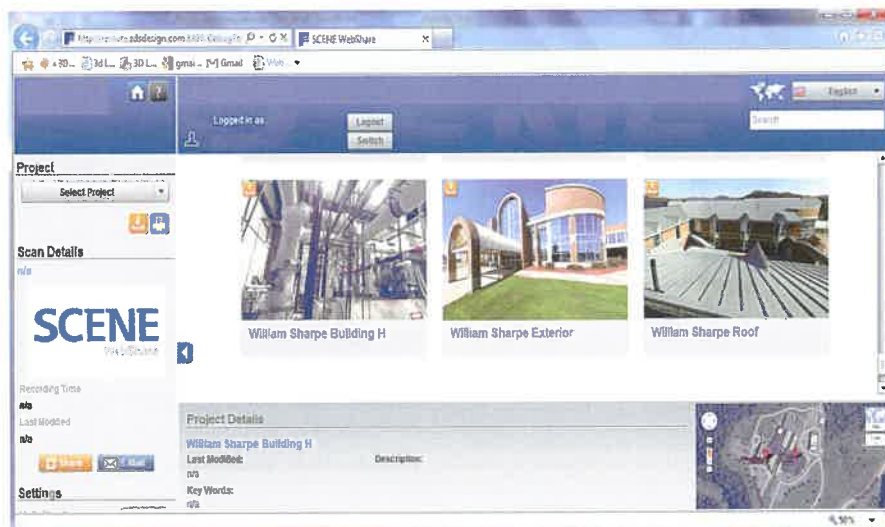
3D Laser Printing



Physical Model Preparation



Shinnston Community Center Physical Model



3D Modeling



3D Laser Scanning



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

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- Newport

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.



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.



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

Identity • Project Philosophy • Project Management

Awards



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

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

WV AIA AWARDS
ACHIEVEMENT IN ARCHITECTURAL DESIGN

Robison 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 2018 Excellence in Construction Award from the Associated Builder and Contractors, Inc.



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.



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.
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Company Information

Identity • Project Philosophy • Project Management

Architecture

Contact Information

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Key Project Staff

James B. Swiger

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Senior Project Manager
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Associate AIA, LEED Green Associate
Designer / BIM Coordinator
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Irene Malfregeot

MBA, Allied AIA
Director of Finance & Client Relations
irene@wykarchitects.com

Lisa A. Kuhn

Construction Administration Coordinator
lisa.k@wykarchitects.com

Memberships



Summary

Our firm's legacy began in 1900, then named Edward J. Wood Architect, WYK Associates, Inc. has been located in Clarksburg for 122 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.

Sample Project Experience:

UHC - Eye Center
Bridgeport, WV

Robinson Grand PAC
Clarksburg, WV

Bridgeport Public Safety Building
Bridgeport, WV

Tyler County Courthouse
Middlebourne, WV

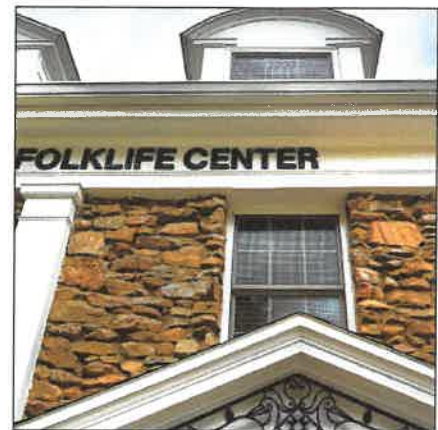
UHC - Weston
Weston, WV

Bridgeport Public Library
Children's Area
Bridgeport, WV

Immaculate Conception Parish
Center, Clarksburg, WV

Jackson Square
Clarksburg, WV

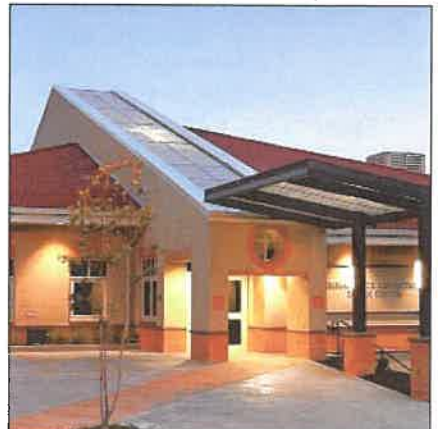
Pocahontas County Courthouse
Marlinton, WV



West Virginia Folklife Center



United Hospital Center Breezeway



Immaculate Conception Parish Center



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

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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's legacy began 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 2012, Mr. James Swiger assumed sole ownership 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.
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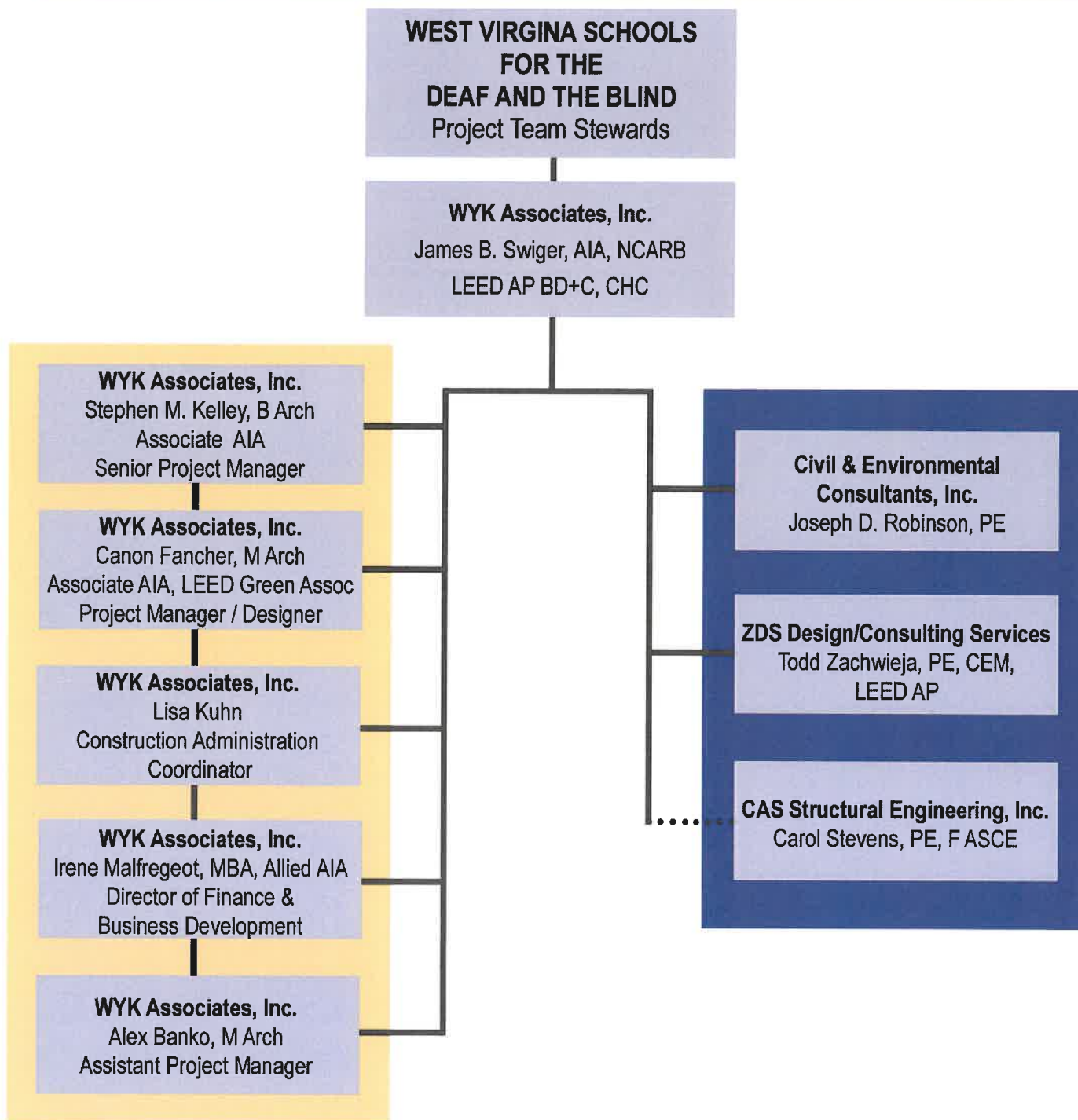
West Virginia Schools for the Deaf and the Blind

**GENERAL CAMPUS SITE
UPGRADES & RENOVATIONS**

PROJECT TEAM



**WVSDB GENERAL CAMPUS SITE
UPGRADES AND RENOVATIONS
TEAM STRUCTURE**





WYK ASSOCIATES, INC.
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West Virginia Schools for the Deaf and the Blind

**GENERAL CAMPUS SITE
UPGRADES & RENOVATIONS**

PROJECTS



Salem Elementary Outdoor Classroom Pavilion

Salem, West Virginia

WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING



Outdoor Education

For Salem students and community

This project is part of a 15 acre outdoor learning environment. WYK is leading the design and fundraising for the entire project which includes a 1/4 mile fitness trail, one mile nature trail, expanded wetlands, a 10' diameter scientific sundial, four teaching stations and this outdoor classroom. The overall project budget is \$250,000 and it is now over half way complete.



The outdoor teaching pavilion will feature a brick paved floor which serves as a fundraiser for engraving and will provide a durable floor to the structure. A ground face CMU storage building will be constructed at one end to store physical education equipment for the field area. It is also situated to allow for a marker board to be installed to allow for an outdoor teaching environment. The trusses are light and "airy" to give a feeling of openness and the dormer was added to maximize natural daylight into the structure.

"We are very excited about the possibilities this will bring to our learning curriculum for students of all ages from 2 to 92 at the school and the community"

Mark Williams, Science Teacher,
Salem Elementary School



Project Facts

Size: 2,000 sq ft

Completion: September 2015

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

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.

This project also focused on bringing the building up to meet modern building codes and ADA guidelines.



Project Facts

Size: 66,000 sq ft

Completed: 2003

Historical Register: April 4, 2000

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Frank & Jane Gabor WV Folklife Center

Fairmont State University, Fairmont, West Virginia

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 was previously used as apartments and storage.

It is now the home of Fairmont State University's West Virginia Folklife Program and 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 and 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. A large portion of this project also focused on ADA accessibility upgrades, accessible restrooms and the installation of a new elevator and shaft.

This project also included the cleaning of the exterior masonry, re-pointing approximately 35% of the exterior, replacing the stone in approximately 10% of the exterior and utilized a new stone that matched the existing.





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Frank & Jane Gabor WV Folklife Center

Fairmont State University, Fairmont, West Virginia



Structural Update In-Progress (Third Floor Still Present)

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 Frank and Jane Gabor
West Virginia Folklife Center

1201 Locust Avenue
Fairmont, WV 26554

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wfolklife@fairmontstate.edu

wfolklife@pierpont.edu



The Colonial Apartments



West Virginia Wesleyan College Pfeiffer Library Addition Buckhannon, West Virginia

WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING



Expansion for Students

Campus library provides additional space for students

Located in Buckhannon, West Virginia, West Virginia Wesleyan College, founded in 1890, is a liberal arts college with sturdy ties to the United Methodist Church. The picturesque, gently sloping campus is comprised largely of Georgian architectural expressions which create a cohesive context that all buildings must be sensitive to.



The Annie Merner Pfeiffer Library Building was originally constructed in the 1920's in the Georgian Style. The structure has very strong symmetry and is capped with a highly visible cupola, centered on axis with the main doors. With the increased demand to meet modern needs and to accommodate the growing student population of the college, the Library warranted a large expansion, nearly doubling its square footage. The addition is seamless with the building's original architecture by meticulously utilizing the existing details of this historic structure. The proportions and scale of the addition harmoniously compliment the architecture of the existing building.



This facility has hosted generations of students and is equipped to adapt to the everchanging technologies of the future for many generations to come.

Project Facts

Size: 22,000 s.f.

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Bridgeport High School Additions

Bridgeport, West Virginia



Modern Facade

Upgrades to local high school

Bridgeport High School is home to more than 800 students. The present building opened in 1963, and since that time it has undergone three major renovations by WYK. These include an ADA accessible elevator installation and two classroom additions, in 1992, 1997 and 2001.

WYK has been a part of their frequent remodeling and technological updating. A Theater Storage Addition afford increased theater use by the public.

The façade and window renovations along with HVAC upgrades increased natural daylight and ventilation in the classrooms. It also improved the aesthetics and energy efficiency of the structure. Most importantly, it created a more comfortable learning environment for its occupants.



Project Facts

Original: 1963

Completed: 2001

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.



Awards:

2018 Project of the Year by the Exponent Telegram
WV Municipal League All Star Community Award
WV Contractors Association Award (March-Westin)
(2) AIAWW Awards

2019 Community Affordable Housing Equity Corp
(CAHEC) Outstanding Community Impact Award
2019 Historic Preservation Award for Downtown
Preservation

Robinson Grand Performing Arts Center Restoration / Renovation

Clarksburg, West Virginia



WYK ASSOCIATES, INC.
ARCHITECTURE · PLANNING



Original Lobby



New Lobby

Project Facts

Original Building: 1913
Theatre Fire: 1939
Rebuilt: December 1939
Closed: 2000
Bought by City: 2014
Renovations Completed: 2018
Size: 45,000 s.f.

Project Partners:

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



Original Second Floor Lobby



New Second Floor Lobby



Photo Showcasing Masonry Restoration



New Second Floor Lobby



Winner of Two AIA WV 2019
Design Awards



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

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 s.f.

Completed: 2014

www.wykarchitects.com



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

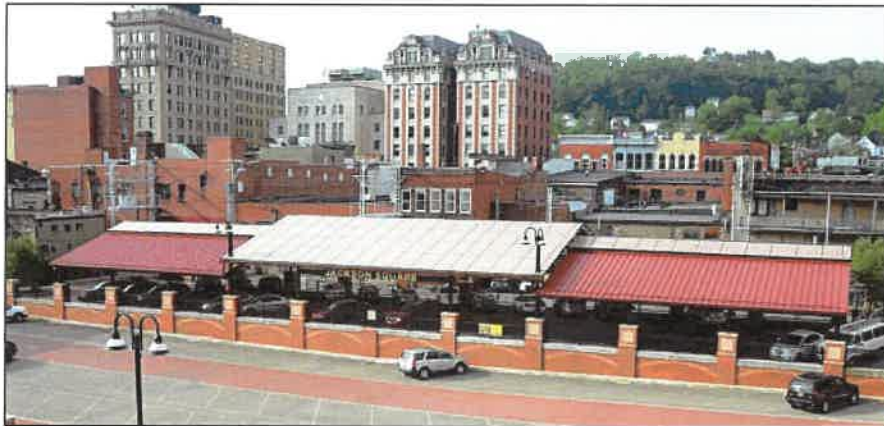
www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Jackson Square Parking Facility

Clarksburg, West Virginia



City parking for all!

Convenience and Prosperity

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. A 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 s.f.

Completed: 2009

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Taylor & Tyler County Courthouse Restoration Grafton & Middlebourne, West Virginia

Preserving and Restoring! Taylor County Courthouse

The Taylor County Courthouse was built in 1880 with an addition in 1890. WYK is working closely with SHPO to update the front entrance to ADA compliant guidelines with a handicap accessible entry point in addition to the renovated stairs. WYK is also working closely with the County Administrator to replace the sidewalk and railings adjacent to the courthouse building.

Project Facts

Size: 12,000 s.f.

Completed: Bidding Spring 2017

www.wykarchitects.com



Tyler County Courthouse

The Tyler County Courthouse was originally built in 1854 and designed by 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 the courthouse. WYK is currently replacing the windows to match the existing with energy efficient ones that meet historical guidelines. This is Phase 1 of multiple interior and code compliant upgrades to the century old icon in the community. ADA compliant upgrades are also being worked at the front entrance.



Project Facts

Size: 15,000 s.f.

Completed: Bidding Spring 2017

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Peterson-Central Elementary School

Weston, West Virginia



Excellent Education!

Consolidated Elementary

This Elementary School consolidated the greatly over-crowded Peterson Elementary and Central Elementary Schools, housing students from Kindergarten through Fourth Grade.

Primary design objectives include:

- Design for Architectural Context regarding the established residential neighborhood.
- Allow the facility to double as a community center.
- Provide the capacity for expansion.

These goals are achieved through the implementation of brick masonry, hip roof elements, and a scale for the primary facade consistent with the quaint existing neighborhood's contextual fabric. Compartmentalizing the build, allows the community public access to recreational areas as well as the media center, while maintaining security and privacy in the instructional spaces.

The interior environments, including the new library, employ a contemporary application of vibrant colors, exposed structural elements, and naturally lighted spaces. The materials and their placement provide for ease of maintenance and can be readily updated as the educational and community needs adapt and expand.

Project Facts

Size: 43,000 s.f.

Completed: 1999

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

World Vision Addition Philippi, West Virginia

Community > Non-profit > World Vision Addition

Building materials for the community

Construction Materials for all.

WYK Associates, Inc designed the addition and renovations for the Appalachian Storehouse of World Vision. This ministry receives, stores and distributes a wide variety of building materials at little or no cost to allow families in need to improve and weatherize their homes. Housed in a former dressmaking shop, the facility needed additional space and upgrades to the existing building.

The design reoriented the flow of materials through the facility by adding a 3,000 S.F. loading dock/staging area on the east end of the existing building, and approximately 15,000 S.F. of new warehouse space on the west end. The entire facility received new fire alarm and sprinkler systems, and additional and upgraded office and administrative spaces. Lighting upgrades were also performed in the existing warehouse space for to create a much better work environment as well as save on energy costs.

The finished building more than doubles the storage capacity of the operation, and eliminates long standing traffic conflicts between delivery trucks at the loading docks and client vehicles.

Project Facts

Size: 15,000 sq ft warehouse

Size: 3,000 sq ft loading dock

Completed: 2009

www.wykarchitects.com





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Tyler County 911 Center Middlebourne, West Virginia



A “Net Zero” Energy Design! Tyler County 911 Center

The Tyler County 911 Center is designed to meet applicable state codes as well as the requirements of the NFPA 1221: Standard for the Installation, Maintenance, and Use of Emergency Services Communications Systems. The 4,260 square foot, one-story facility is designed with responsible stewardship at its core, as it targets a “Net Zero” energy consumption goal, meaning that the project produces more energy than it consumes.



The project incorporates a large Photovoltaic Array field along the south-facing hillside to consistently collect solar energy with no terrestrial obstructions, geothermal heat-well systems, high efficiency fixtures and mechanical systems throughout, Insulated Concrete Form (I.C.F.) exterior wall construction and insulate roof panels to create a highly efficient and tightly-sealed building envelope. The I.C.F. construction also lends durability and security to the project, as a whole, as the 8” concrete core wall, in conjunction with the aluminum windows and glazing, are all ballistic-resistant up to a minimum of Level 04 rating.



The facility's scope includes a 4-station command center, secure server room, two offices, a reception area, a 250 square foot conference room, two dedicated bunk rooms with adjacent accessible restrooms, a kitchen/break room and other ancillary spaces. All project utilities are designed with redundant systems on-site, to ensure 24/7 operation in the event of a catastrophe.

Project Facts

Size: 4,260 S.F.

In Construction: 12/2020 - Present

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



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

United Hospital Center – Eye Clinic

Bridgeport, West Virginia



Additions & Renovations

United Hospital Center hired WYK Associates, Inc. to re-design the second floor of the Medbrook Building into an eye clinic.

The project consists of a complete demolition of approximately 8,000 S.F. of the second floor. Work included removal of interior partitions and building systems. The build-out included 12 exam rooms, one proceed room and four diagnostic rooms. New HVAC, electrical, lighting and lay-in ceilings were installed. A new EPDM replaced the former ballast roof and additional overflow drains were added to meet current standards.



The first-floor front cover drop-off area was enclosed to create a new lobby of approximately 600 S.F. To improve movement between floors, a new hospital-grade hydraulic elevator and shaft was added adjacent to the existing elevator. Other work included a new awning over the entrance, parking lot reconfiguration and new landscaping.

Project Facts

Size: 8,000 s.f.

Completed: 2020

www.wykarchitects.com



Northpointe Business & Industrial Park Shell Building Bruceton Mills, West Virginia

WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING



Multi-Use Shell Space

Growth and Convenience

This highly visible shell building was a project of the Preston County Economic Development Authority through West Virginia's EDA Shell Building Loan Program.

It is located at the Hazelton Exit of Interstate 68. This location in the Northpointe Business and Industrial Park is convenient to the intersections of I-79 and I-68, and within 500 miles of the major population centers of the northeastern United States.

This building is currently occupied by Puris, LLC, a 3D metal printing fabricator. With a 22' eave height, the building is adaptable for many uses. The office portion is masonry clad with two colors of CMU. All utilities are available within the Northpointe Business and Industrial Park.



Project Facts

High Bay: 47,250 s.f.

Office Space: 5,000 s.f.

Total: 52,250 s.f.

Completed: 2002

www.wykarchitects.com



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

Bridgeport Public Safety Substation

Bridgeport, West Virginia



A Focus on Safety

Public Safety Substation doubles as an emergency shelter.

This facility is located directly adjacent to the new United Hospital Center at Jerry Dove Drive and strategically situated within a ½ mile radius of I-79 and the White Oaks and Charles Pointe Developments.

The building is a substation for the Fire and Police Departments of the City of Bridgeport. The structure is a combination of load bearing masonry and structural steel frame with a decorative brick veneer. The Apparatus Bay and supporting facilities are one story, slab-on-grade with an abundance of natural daylight.

The radiant gas heating, vehicle exhaust and high efficient lighting systems are integrated nicely into the exposed roof structure above. The administrative offices along with each of the department's support facilities are in a connected, two story masonry and steel frame structure.

This facility was designed as a 75-100 year structure to serve the needs of this ever growing area region. The building's power is completely backed up by an emergency generator which will allow it to double as an emergency shelter in times of need.



Project Facts

Size: 15,000 s.f.

Completed: October 2009

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE · PLANNING

Hawks Nest State Park Lodge Ansted, WV



Renovations & Redecorations

The project consists of enclosing the route to the existing outdoor pool with a storefront to create a new interior space; replacing the approximately seven (7) doors along the hallway to be enclosed; installing a new door lock system for all of the lodge rooms; demolition of the existing pool and surrounding elements; designing of a new pool and splash pad, and a hallway, including structural and architectural elements; exterior repair work to the existing sidewalks; replacement of the Exterior Railings outside of the Guest Rooms; redecorating of the other portions of the Lodge and the designing of additional power for the Guest Rooms.



Project Facts

Size: 26,336 s.f.

Completed: IN PROGRESS

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

West Virginia Schools for the Deaf and the Blind

**GENERAL CAMPUS SITE
UPGRADES & RENOVATIONS**

RESUMES



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Team Profiles

James Swiger



James B. Swiger
AIA, NCARB,
LEED AP BD+C, CHC
President/Principal-In-Charge

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Clarksburg, WV 26301

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james@wykarchitects.com

Memberships



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
Virginia
Pennsylvania
Ohio
Maryland
Kentucky
National Council of Architects

HONORS AND AWARDS

2021 The Shinnston & Harrison County
Journal "Citizen of the Month" for April

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 Association

ASHE - Associate Member of National Society
for Healthcare Engineering

WVSHE – Associate Member of West Virginia
Society for Healthcare Engineering

Affiliate Member of Builders Supply Association
of West Virginia

CIVIC AFFILIATIONS

Health Access, Inc. - Board of Directors

Bi-County Nutrition, Inc. - Board of Directors

Clarksburg Uptown - President / Board of
Directors

Kiwanis Division 3
2020/2021 Lieutenant Governor

Salem University - Advisory Committee to the
School of Business

Central WV Corvette Club Member

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

Harrison County Elks Lodge #2875 Member

West Virginia Kiwanis District –
District 3 – Past Lieutenant Governor

Harrison County Chamber of
Commerce – Past Education Committee Chair

Salem Elementary School Nature/Fitness Trail –
Project Manager



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Team Profiles

Irene Malfregeot



Irene Malfregeot **Allied AIA** **Director of Finance &** **Business Development**

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irene@wykarchitects.com

Professional Memberships



Irene began her career at WYK Associates, Inc. in the spring of 2013. With sharp attention to detail and excellent communication skills, she is responsible for the client experience. Irene works in a marketing and business development capacity, and then continues with clients in each phase of the architectural process through financial management. Her experience with networking, organization, and client relations makes it easy for her to connect – and stay connected.

With a master's degree in Business Administration and a bachelor's degree in Political Science, Irene's academic background, her professional experience, and honed skill set enable her to connect easily and build lasting and mutually beneficial relationships. Her involvement in professional and community-related events and organizations, and her attentive nature enable her to establish WYK Associates, Inc.'s authority as the leading architectural firm in the Mountain State.

EDUCATION

M.A. – Higher Education
Administration
Shepherd University, 2009

Master's Business Administration
Shepherd University, 2007

B.A. – Political Science
Lenoir-Rhyne University, 2003

PROFESSIONAL AFFILIATIONS

Buckhannon-Upshur Chamber of
Commerce

Harrison County Chamber of
Commerce

Marion County Chamber of
Commerce

Society for Marketing Professional
Service
Pittsburgh

CIVIC AFFILIATIONS

Central West Virginia Soccer
Association
Treasurer
2020-present

Harrison County Library Board of
Trustees
Treasurer
2020-present

Harrison County Child Advocacy
Center
Board Member
2013-present

United Way of Harrison County
Grants Committee
2017-2018

GFWC Bridgeport Junior Woman's
Club
2009-present
Co-President 2011-2012



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Team Profiles

Stephen Kelley



Stephen M. Kelley
Associate AIA
Senior Project Manager

Stephen began his employment at WYK in 2007, after working at a previous firm and serving our country in active duty. He served as Senior Project Manager for the award winning Robinson Grand Performing Arts Center and numerous healthcare projects for United Hospital Center (UHC) and WVU Medicine. Stephen's 20 plus years of experience has ranged from small building additions to multi-million dollar, complex construction projects. Stephen has broad experience in both the private and public sectors of the construction / design industry.

EDUCATION

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

MILITARY EXPERIENCE

US Army Reserves 1994 - 2006
OIF II 2003 - 2005

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
Post Commander 2020 - Present
Quartermaster 2008 - 2020
Department of WV - District 3
Quartermaster (2015/2016)
Sigma Mu Fraternity Alumni, Mu Pi Chapter
United Way of Harrison County, Inc.
Stonewall Leadership Contributor

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Associated Memberships





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

TEAM PROFILES

Canon Fancher



Canon T. Fancher **Associate AIA** **LEED Green Associate**

Project Manager/Designer

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canon@wykarchitects.com

Associate Memberships



The American Institute of Architects



Canon began his career at WYK Associates, Inc. in 2015 while earning his Bachelor of Science in Architecture degree from Fairmont State University. He then proceeded to earn his Master of Architecture degree through Fairmont State University as one of the core years assessed through the program's NAAB (National Architectural Accrediting Board) accreditation process. He is equipped to contribute to all phases of a project, from design through completion, including client relations, schematic design, project visualization, design development, construction documents and specifications creation, bidding phases and construction administration. As the head of the firm's residential design department, Canon has designed homes exceeding \$5 Million in combined estimated construction costs. In addition to residential construction, Canon has experience in the design and construction administration of a variety of projects types, including: hospitality, light commercial, historical restoration and renovation, masonry restoration, 911 Centers, Courthouse renovation and Architectural assessments of existing properties.

Having grown up in north central West Virginia, Canon understands the needs and desires of small communities, and has a desire to infuse modern, contextually sensitive, and sustainable designs into the projects is involved with. 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 working environment, through all phases of a project. Whether it be conceptual design, inquiries and exploration of design possibilities, visualization, drafting and Building Information Modeling utilization, 3D modeling, creation of specifications, construction administration or project support for other staff, Canon strives to meet the highest standard of production quality. He is a Marion County native involved with several community and professional organizations.

EDUCATION

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

Master of Architecture – 2020
Fairmont State University

PROFESSIONAL AFFILIATIONS

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

USGBC – LEED Green Associate

VOLUNTEER EXPERIENCE & AFFILIATIONS

United Way "Day of Action" – Annual Volunteer



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

West Virginia Schools for the Deaf and the Blind

**GENERAL CAMPUS SITE
UPGRADES & RENOVATIONS**

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

Boston, MA
866.312.2024

Bridgeport, WV
855.488.9539

Charlotte, NC
855.859.9932

Chicago, IL
877.963.6026

Cincinnati, OH
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Columbus, OH
888.598.6808

Detroit, MI
866.380.2324

Export, PA
800.899.3610

Indianapolis, IN
877.746.0749

Knoxville, TN
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Nashville, TN
800.763.2326

Philadelphia, PA
888.267.7891

Phoenix, AZ
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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*
- Environmental Engineering and Sciences*
- 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, refinance, 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



PRACTICES

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INDUSTRIES

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Power
Public Sector
Real Estate
Solid Waste

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.

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



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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Toledo, Ohio	855.274.2324

www.cecinc.com

Joseph D. Robinson, P.E.

Vice President



17 YEARS OF EXPERIENCE

EDUCATION

B.S., Civil Engineering, West Virginia University,
2004

Mr. Robinson is a Vice President with seventeen years of diverse experience in civil, geotechnical, water resources, structural engineering, Oil & Gas site & pipeline design and residential/commercial site design. He has designed various projects including site layouts, grading plans, sanitary sewer, storm water management, impoundments, roads, sediment control measures, segmental retaining walls, flood plain analyses and concrete design projects. Mr. Robinson has currently been responsible for Marcellus/Utica gas site design including drill pads, fracture pits, freshwater impoundments, grading, permitting and management associated with these sites and oversight of West Virginia Oil & Gas projects for CEC.

PROJECT EXPERIENCE

Civil Site Design Experience

Site Development Projects, Timberbrook Condos*

Responsible for grading, quantities and design plan production.

Site Development Projects, Bridgeport BUMC Parking Lot, Bridgeport, WV*

Responsible for grading, quantities, design plans and construction.

Site Development Projects, Energy Plaza Partners, WV*

Site Grading Project along Rt 50 Responsible for grading, quantities, design plan production and survey stakeout.

EPP Experience, Energy Plaza Partners, WV

Project management and design of one site for future development. Project included civil site design for rough grading, E&S controls, surveying, as-built and concept site layouts.

Site Development Projects, 200 Orchard Street*

Segmental Retaining Wall Project Responsible for site layout, segmental retaining wall design, design plan production, survey stakeout and construction.

Site Development Projects, Mon General*

Segmental Retaining Wall Redesign Project Responsible for segmental retaining wall design, design plan production and construction.

Health Care Facility Design*

UHC Project - Jerry Dove Drive, Bridgeport, WV Responsible for final site grading, drafting and segmental retaining wall design & construction. Physicians Office Building - Jerry Dove Drive, Bridgeport, WV Responsible for final site grading, drafting and construction oversight.

EXPERTISE

Project planning, coordination and permitting of Oil & Gas projects in WV

Diverse experience in civil, geotechnical, water resources, structural engineering, and site design

REGISTRATIONS

Professional Engineer

- WV [REDACTED]
- OH [REDACTED]
- MD [REDACTED]
- VA [REDACTED]
- PA [REDACTED]
- TX [REDACTED]



Civil & Environmental Consultants, Inc.

Joseph D. Robinson, P.E.

Vice President

Site Development Projects, GAL Land Company, Bridgeport, WV*

Oversaw site grading, quantities, storm water management, permitting, survey stakeout, final grading for individual lots and construction.

City development Projects, Clarksburg*

Clarksburg Safe Routes Project. Responsible for design layout, quantities, plan production and construction. Clarksburg Streetscape Project 2010 Responsible for site layout, quantities, design plan production and survey stakeout.

Floodplain Analyses & Inundation Studies Experience

Floodplain Analysis Designs, Antero*

Foreman FWI Responsible for inundation study

Floodplain Analysis Designs, McIntyre FWI*

Responsible for inundation study.

Floodplain Analysis Designs, Indian Creek FWI*

Responsible for inundation study.

Layout & Railroad Projects

HDD Kanawha River Crossing, Mountaineer Gas Company , Kanawha County, WV

Role: Principal

Mountaineer plans to construct a pipeline near Charleston, Kanawha County WV. A Horizontal Directional Drilling (HDD) crossing is proposed along the Kanawha River. The gas pipe will be a 12-inch HDPE and the approximate length of the pipeline crossings is 1,400 feet.

CSX Railroad Permit Application, South Charleston, Kanawha County, WV

Role: Principal

This proposal includes labor, travel and expenses necessary to perform the tasks listed below and complete engineering design and permit preparation of a gas line inside of steel casing underneath of CSX railroad tracks in South Charleston, West Virginia.

North Pinch Road River Crossing HDD, Elk River, Mountaineer Gas Company , Kanawha County, WV

Role: Principal

CEC will conduct an on-site field delineation within an approximately 2-acre area to identify streams and delineate wetland boundaries. CEC's wetland delineation services will be performed in accordance with the 1987 U.S. Army Corps of Engineers Manual, supplemented by the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region Version 2.0, the National Wetland Plant List (Lichvar, 2016), and the U.S. Department of Agriculture's Hydric Soils of the United States. CEC will identify wetlands using the three (3) criteria described in the Corps Manual: hydrophytic vegetation, hydric soils, and hydrology.

Structural Design & Analyses Experience

Structural Design*

Hotel and Home Designs in Maryland, Virginia and Delaware Responsible for vibratory & driven pile designs, concrete grade beam design, timber beam design, engineered beam design, timber flitch plate design and concrete foundations. Smith Services Project Responsible for concrete mat foundation analysis for warehouse facilities and design plan production. PDC Gamelli Bridge Responsible for existing steel tube bridge analysis/load rating for equipment crossing.

** Work performed prior to joining CEC*

James Christie, P.L.A.

Principal



23 YEARS OF EXPERIENCE

EDUCATION

B.S., Landscape Architecture, West Virginia University, 1998

REGISTRATIONS

Registered Landscape Architect

- CO [REDACTED]
- WV [REDACTED]
- MD [REDACTED]

Jim is a Senior Project Manager in the Civil department. In his capacity, he is responsible for complete project management within CEC. He is responsible for site design, landscape architecture, site development entitlement services, construction documents, client management, personnel supervision, and construction administration on numerous municipal, commercial, and institutional projects. Jim is a detail-oriented, highly-creative Landscape Architect with 22 years of dedicated experience in designing and implementing projects to support client needs and meet business objectives. His wide range of project experience ranges from landscape design to destination resort design in multiple regions both within the United States and internationally.

PROJECT EXPERIENCE

Palatine Park, Marion County Commission, Fairmont Marion County, WV*

Palatine Park was designed to be a multi-use amphitheater facility and has become the gathering place in Marion County. The Phase 1 masterplan included a tiered grass amphitheater, splash park, multiple restroom facilities and a large parking area. The entire site meets ADA requirements and was designed to allow multiple events to happen simultaneously within the park grounds. Each area was planned to have multiple uses such as greenspace, event tent areas and full electric so that farmers markets, art festivals and concerts have multiple opportunities for vendor setups as well as for the public to utilize for everyday use. The project was fast tracked and had to be designed, bid and built in a six-month timeframe in order to be completed and operational for the Marion County's Three River Festival in 2014. Since the opening of the park, the amphitheater and associated spaces have become the center of entertainment and gathering in Marion County throughout the year.

Wave Pool Demo and Concept, MCPARC, Pleasant Valley Marion County, WV*

In 2016, the MCPARC worked with Jim to create a demolition plan for the existing Wave Pool buildings as well as create a conceptual plan to address the needs and opportunities for a new building and amenities for the Wave Pool at East Marion Park. The conceptual plan included multiple upgrades as well as multiple revenue producing areas that are currently not at the pool facility such as a FlowRider, rentable cabanas and flex space for events.

The Eastern Continental Divide Loop Trail Master Plan, Garrett Trails, McHenry Garrett County, MD*

Served as Master Planner, Landscape Architect, and Project Manager. Building from the success of the Great Allegheny Passage (GAP), the Eastern Continental Divide Loop Trail (ECDLT) is a multi-use trail system which starts along the GAP and travels south along the continental divide connecting communities, state parks, resorts, wild and scenic rivers, and reservoirs on a 150-mile journey until connecting again with the GAP trail. Successfully presented the idea of a marketing booklet to showcase the idea and plans for the trail to be used to obtain funding through private donations and governmental backing. Through this booklet, Garrett Trails has obtained over \$800,000 for completing sections of the trail and is continuing to utilize it for future grants.

Allegheny County Bicycle and Pedestrian Master Plan, Cumberland Area Metropolitan Planning Organization, Cumberland Allegheny County, MD*

Building from the success of the Great Allegheny Passage (GAP), The Cumberland MPO utilized a master plan of the region to take advantage of the GAP trail as the pedestrian backbone for connectivity in the region. It creates connections to all of the municipalities, recreational areas in the region and allows for an alternative type of transportation. Jim was the creative director



Civil & Environmental Consultants, Inc.

James Christie, P.L.A.

Principal

and project manager of the creation of the master plan which was adopted by Allegany County into their latest comprehensive plan.

Loch Lynn Heights Wetland Boardwalk Trail, Loch Lynn Heights, Loch Lynn Heights Garrett County, MD*

Part of the Easter Continental Divide Loop Trail system, the Wetland Boardwalk Trail is a boardwalk trail as well as on-grade trail through multiple classifications of wetlands and upland forest taking the visitor on a journey through multiple environments and the little yough river. The boardwalk system was built on helical piles to create a sensitive environmental solution to the high altitude wetland at the headwaters to the Wild and Scenic Youghioghenny River. This trail is the first helical pile boardwalk system in Western Maryland. This trail was not only to give the public access and education to wetlands but also to keep ATV's out of the sensitive environment. All three phases of the project are completed.

Stonewall Resort Peninsula Cottages, Stonewall Resort, Roanoke Lewis County, WV*

The Cottages Peninsula is a new product with in Stonewall Resort. This area will have twenty seven new homes set in a wooded area with direct connection to the lake. As part of this project, a passive park and trail network are also included for the use of cottage owners and guests. The trail system includes the first wetland trail system in the resort. Jim also designed the grading and landscape plans for the first set of cottages. Current ongoing work with Stonewall Resort to complete Cottages as well as a master plan for a new splash park, hot tub and board walk trail area adjacent to the main lodge.

Brooke Hills Park, Brooke Hills Park, Wellsburg Brooke County, WV*

Brooke Hills Park is a 700 acre park in the northern panhandle of West Virginia. Jim project managed a team of consultants on a lodge feasibility study and master plan. Currently Jim is leading the implementation of the 2016-17 phase of the project which includes, a new pool, pool buildings, additional parking, multi-use athletic facilities, disc golf and residential cabins. This is an ongoing project which provides additional amenities and an economic draw for the community.

WVU - Evansdale Campus Entry Realignment, West Virginia University, Morgantown Monongalia County, WV*

Jim was chosen to create multiple concepts for the solution to the pedestrian and vehicular conflicts on Evansdale Campus. The focus was on the entry along Monongahela Boulevard between the Coliseum parking lot and Campus. Jim's design of moving the intersection not only helped the pedestrian crossing issue but also took advantage of creating a secondary entrance and exit for the Coliseum parking lot. By moving the intersection, the two traffic signals were able to be synchronized, which has lead to better traffic flow into the lot and campus respectively.

Great Allegheny Passage Mile Markers, Allegheny Trail Alliance, Homestead Allegheny County, PA*

The Great Allegheny Passage is a 150 mile long distance bike trail from Pittsburgh, PA to Cumberland, MD which follows an abandoned railroad line for most of its journey. Most of the trail is in rural regions and the Allegheny Trail Alliance (ATA) hired Jim to create a creative way to mark the miles for the trail users. This will allow them to know where they are for navigation as well as for safety and maintenance. Jim's idea was to utilize material that was similar to once was on the railroad but also something historical. The final choice was granite curbing repurposed from the Longfellow Bridge in Boston. The granite would then have the mile markers sandblasted into the sides and at special points have the name of the trailhead or significant historical sites. The mile makers are currently being installed by the ATA.

Town of Bath Streetscape, Town of Bath, Bath Morgan County, WV, USA*

Jim was the project manager and landscape architect for the Bath (Berkeley Springs) streetscape project. In his role, he coordinated with the Town of Bath, the WVDOH and Berkeley Springs State Park to create the sense of place along Route 522 (Washington St) and Fairfax Street in the resort area of downtown Berkeley Springs. The project utilized green infrastructure to treat the sidewalk and road runoff prior to returning to Warms Springs Run. The project also included new ADA access as well as lighting and landscaping features. Beyond the sidewalk and green infrastructure, the project also consisted of a historic brick street which was replaced with current heavily load pavers to keep with the history of the area which services commercial water trucks daily.

Parsons Streetscape, City of Parsons, Parsons Tucker County, WV*

Jim served as the landscape architect and creative lead for the Parsons Streetscape on Route 219. The streetscape included decorative brick pavers, historical period lighting and was coordinated with the addition of the new County Courthouse Annex. The project also had challenges with basements and coal shoots under the existing sidewalk as well as ADA challenges with multiple

James Christie, P.L.A.

Principal

heights on entries into existing buildings. This was the first phase of streetscape and it has set precedent for the future streetscaping of Parson's downtown.

Fairmont Connectivity Plan, Mainstreet Fairmont, Fairmont Marion County, WV, Marion*

Jim was the project manager for the Fairmont Connectivity Plan. The Connectivity Plan is a master plan booklet mapping out improvements for pedestrian connections within the City of Fairmont and surrounding Marion County. The plan's goal is to encourage walking and biking as a viable mode of transportation for all residents and visitors. The plan utilizes the existing and proposed rail trails as the backbone of the pedestrian system and links neighborhoods to schools, government agencies, shopping areas and recreational opportunities.

Bridgeport Rec Center, Omni Associates, Bridgeport, WV

Civil/Site engineering and landscape architectural services for the proposed City of Bridgeport 40 million dollar recreational complex on 55+ acres. The complex will include four NCAA regulation sand cap all-purpose natural grass fields with associated irrigation and drainage systems, one synthetic turf field and drainage system, indoor turf facilities, aquatic center, tennis courts, basketball courts and various other recreational amenities. To create the 55+ acre site in mountainous terrain and meet ADA regulations, the project will move 350,000 cubic yards of earth.

** Work performed prior to joining CEC*

Jason H. Littler, P.S.

Senior Project Manager



25 YEARS OF EXPERIENCE

EDUCATION

A.S., Civil Engineering Technology, West Virginia Institute of Technology, 1995

B.S., Engineering Technology - (Survey Emphasis), West Virginia Institute of Technology, 1996

REGISTRATIONS

- Professional Surveyor
- WV [REDACTED]

Mr. Littler has over 24 years of experience with proven leadership skills, including managing, supervising, and motivating staff to achieve company objectives. Responsibilities have included positions as Roadway Designer and Survey Project Manager. He has performed roadway design, site civil design, drainage computations, construction layout, earthwork volumes, topographical surveys, aerial mapping control surveys, boundary surveys, WVDOH right of way plan development, courthouse research, deed work maps, survey plats, survey descriptions, earthwork volume computations, hydrology computations, WVDOH waste permits, plan preparation, subdivision plats, cell tower surveys, oil and gas landowner exhibits, pipeline as-builts, pipeline alignment sheets, pipeline routing, fine grade computations, and survey field crew management and oversight. He has been in direct charge with as many as 12 survey crews, which all reported to him and were supervised by him for direction and client satisfaction. He has been in professional charge of several boundary surveys ranging in size from small lot and partition surveys to large multi-tract 1000 acre surveys. He has performed numerous ALTA/ASCM land title surveys all throughout West Virginia for various banks, title insurance companies and development companies.

PROJECT EXPERIENCE

Airports & Aviation

Buckhannon Upshur Airport Authority, Buckhannon, WV*

Surveyor Project Manager in charge for the site surveying and topography for the design and construction of a new T-hanger.

Buckhannon Upshur Airport Authority, Buckhannon, WV*

Lead Surveyor for the construction layout to repair slips on both sides of the runway. Project consisted of excavation of slide material on both sides of the runway, and then the replacement of engineered fill to finish grade.

Land Development

Sun Mountain Resort, Mount Hope, WV*

This project consisted of the development of approximately 1,000 acres of land located on the west side of US Route 19, north of the exit to Mount Hope in Fayette County, WV. Preliminary plans for the Sun Mountain Resort included an amphitheater, hotel, Gary Player golf course, and a conference facility. Mr. Littler was responsible for all storm drainage and some of the civil design associated with the construction of the complex. The construction of this project was not completed.

Northeast Quad Development, Bridgeport, WV*

Mr. Littler was involved in performing all site design for the development of this proposed commercial site, such as producing a detailed set of plans showing all site grading and drainage structures and performing all runoff calculations and sediment pond sizing. He also submitted a National Pollution Discharge Elimination System (NPDES) permit for approval.



Jason H. Littler, P.S.

Senior Project Manager

Fairskies Development, Buckhannon, WV*

Mr. Littler performed a complete site design to produce the most available land use for this development. He also calculated pre and post runoff curve numbers with discharges, designed all structures accordingly, and provided mapping and placement of a

Surveys / Geomatics

Tygart Valley Dam, Grafton, WV*

Served as survey crew chief producing as-built surveying diagrams of piping within the dam. Surveying was conducted inside the dam for all as-built locations. Information was to be used for realignment of new pipes being replaced. Also performed original ground topography surveying for an access road leading to the base of the dam for access of equipment.

Pine Bluff Tipple Complex, Pine Bluff, WV*

This project is a Bond Forfeiture site located in Pine Bluff, WV. Mr. Littler produced all original ground sections and monthly pay volumes for submittal to the State of West Virginia. He also constructed an as-built map of the completed site.

Dolphin Communications, Bridgeport, WV*

Mr. Littler performed a complete boundary survey of this tract and produced original ground mapping for the proposed road location to the new KISS FM radio station. Mr. Littler acquired all necessary permits and contracted all state agencies necessary for the construction of this road. He also performed runoff calculations and sized all culverts along the road.

Taylor Creek Impoundment, Widen, WV*

Mr. Littler was involved in this Abandoned Mine Land (AML) project. The project consisted of two (2) sites of which all original ground sections were produced and monthly pay volumes were submitted for approval.

WVDOH-Red Jacket Postal Facility ALTA Survey, Mingo County, WV*

Performed an ALTA/ASCM land title survey for this project. Mr. Littler served as Survey Project Manager coordinating all survey crews and managing the daily field collection of data in accordance to ALTA survey procedures along with utility coordination, record research and computations.

Robinson Run Overland Conveyor Project, Harrison County, WV

Mr. Littler served as Survey Project Manager in charge of surveying on this 4.1 mile, overland conveyor belt line being constructed for Consol Energy. This project consisted of the survey layout, volume computations, and as-built mapping of the 4.1 mile overland conveyor along with over 4 miles of access roads and over 500,000 cubic yards of excavation. Mr. Littler was responsible for the crew scheduling, reviewing of all data, final cross section data, checking of all computations.

Robinson Run Preparation Plant, Harrison County, WV*

Mr. Littler served as Survey Project Manager in charge of surveying on this 2200 TPH coal preparation plant being constructed for Consol Energy. This plant was built to replace the existing plant which had served its time. This project was unique in that the new prep plant was positioned directly behind the existing plant and the existing conveyor feed line to the plant was to only be extended from the old plant into the new plant. The tolerances on alignment tie in was minimal and final tie-in between the old conveyor feed line and the new conveyor feed line was accomplished in a couple of days with no misalignment problems.

WVDEP Office of Abandoned Mine Lands and Reclamation Northern Mapping Services, northern counties of West Virginia*

Mr. Littler served as Survey Project Manager in charge of surveying and mapping on these individual Projects with the West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands. This contract consisted of a 3 year assignment with the WVDEP and involved surveying and mapping services to be used for the design and construction of Abandoned mine lands projects located throughout the northern counties of West Virginia. Currently in the Northern contract, Mr. Littler has been in charge of the successful completion of the mapping for 40 individual projects with a total mapped acreage of 5,800 acres. Mr. Littler was responsible for the client maintenance, field visits, billing, invoicing and oversight for this three year assignment.

Jason H. Littler, P.S.

Senior Project Manager

WVDEP Office of Abandoned Mine Lands and Reclamation Southern Mapping Services, southern counties of West Virginia*

Mr. Littler served as Survey Project Manager in charge of surveying and mapping on these individual Projects with the West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands. This contract consisted of a 3 year assignment with the WVDEP and involved surveying and mapping services to be used for the design and construction of Abandoned mine lands projects located throughout the southern counties of West Virginia. Currently in the southern contract, Mr. Littler has been in charge of the successful completion of the mapping for 53 individual projects with a total mapped acreage of 5,000 acres. Mr. Littler was responsible for the client maintenance, field visits, billing, invoicing and oversight for this three year assignment.

** Work performed prior to joining CEC*

PROFESSIONAL AFFILIATIONS

West Virginia Society of Professional Surveyors

Ohio Oil & Gas Association



ZDS Design / Consulting Services

St. Albans, WV

MECHANICAL, ELECTRICAL & PLUMBING

COMPANY OVERVIEW



ABOUT ZDS DESIGN/CONSULTING SERVICES

In 1983, Todd A. Zachwieja founded ZECO Consultants. In 1994 ZDS Limited Liability Company was incorporated in West Virginia using dba ZDS Design/Consulting Services, and was founded to provide design and consulting services.

Each new project is assigned to a principal in charge who will follow the project from inception through commissioning. ZDS assigns the production staff according to the nature of the project and the work force necessary to meet the schedule. The principal in charge of that project determines if consultants are needed and coordinates all areas. After bidding, a principal of ZDS coordinates visits to the job site regularly, all the way through the post-warranty inspection. ZDS believes in the team approach when providing engineering design and consulting services. We start with our client as the number one member on our team. We listen to the needs and concerns of our client and that becomes the basis for our design.



COMPANY LEGAL NAME

ZDS Limited Liability; Company dba ZDS Design/Consulting Services

LOCATION OF INCORPORATION West Virginia

FOUNDERS

Todd A. Zachwieja, P.E., C.E.O.

Lori L. Zachwieja, C.P.A., C.F.O.

Daniel H. Kim, Ph.D.

FIRM LOCATION

135 Corporate Center Drive, Suite 532
Scott Depot, WV 25560

EMPLOYEES

ZDS currently employs design professionals covering all aspects of our services.



CLIENTS & EXPERIENCE

- ◆ Kanawha County Schools: (County-Wide)
- ◆ Calhoun County Schools
- ◆ Clay County Schools
- ◆ Grant County Schools
- ◆ Greenbrier County Schools: 8 Projects
- ◆ Hardy County Schools
- ◆ Harrison County Schools
- ◆ Jackson County Schools
- ◆ Lewis County Schools
- ◆ Logan County Schools
- ◆ Marion County Schools
- ◆ McDowell Co Schools: 16 Projects
- ◆ Mercer County Schools: 12 Projects
- ◆ Mingo County Schools
- ◆ Monroe County Schools
- ◆ Ohio County Schools
- ◆ Pendleton County Schools
- ◆ Pleasants County Schools
- ◆ Pocahontas County Schools
- ◆ Putnam County Schools
- ◆ Raleigh County Schools: 37 Projects
- ◆ Randolph County Schools: 11 Projects
- ◆ Ritchie County Schools: 6 Projects
- ◆ Summers County Schools
- ◆ Upshur County Schools
- ◆ Taylor County Schools
- ◆ Tucker County Schools: 17 Projects
- ◆ Tyler County Schools
- ◆ Webster County Schools: 20 Projects
- ◆ Wirt County Schools
- ◆ Wyoming County Schools: 2 Schools
- ◆ State of Maryland,
Allegany County: 4 Schools
- ◆ State of Pennsylvania: 8 Schools

ZDS provides comprehensive design services. We have experience and specialties in indoor air quality, energy management and commissioning, along with traditional mechanical and electrical design experience dating back as far as 1958. We offer a complete package. **ZDS** works with all levels of the client's staff: the building owner, budget supervisor, operating and maintenance staff and others impacted by the project. We recognize that the maintenance and operating staff live with the design long after the project's completion. We listen to and work with those who will continue to operate and maintain the equipment. We find that proper communication benefits the client throughout the design process and beyond.

The **ZDS** design team provides a total system evaluation for cost-effective selection, installation, and ease of maintenance for both new systems and retrofit of in-place systems. Design begins with our client. Our staff meets with our client to review their concerns, budgets and schedules. The **ZDS** design team reviews the entire picture, and ends with "A Total Design."

The **ZDS** staff has the expertise with codes and standards. We have extensive experience in conducting engineering code surveys of existing facilities. Our staff has excellent working relationships with the West Virginia Fire Marshal's Office, West Virginia Department of Education and the West Virginia School Building Authority. In addition to comprehensive Engineering services from an experienced design team, another major consideration in the selection of your engineer and design staff should be their track record.

ZDS' organization has an unbeatable, long running, and well-known track record for meeting our clients' needs, on time and within budget, with outstanding quality. **ZDS** views these characteristics as the foundation of Quality. We look forward to the opportunity to discuss our ideas with you and assist you by providing solutions for your needs with a full range of services from Planning to Commissioning.



INDOOR AIR QUALITY SERVICES

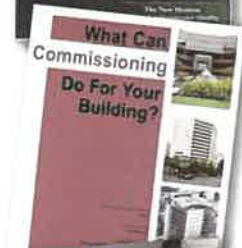
ZDS provides consulting engineering services for the indoor air quality (IAQ) environment. These services include: strategic planning for renovation and new construction projects; technical research and writing; specialized applications software development; corporate and professional training programs; publications support and fulfillment; and site-specific engineering and scientific consultation. Todd Zachwieja, **ZDS** Principal, is contributing editor for the following IAQ publications:

- Technical Review Panel for the publication of the *INvironment™ Handbook of Building Management and Indoor Air Quality*, by Chelsea Group and published for Powers Educational Services
- Technical Review Panel for the quarterly publication of the *INvironment™ Newsletter*, by Chelsea Group for Powers Educational Services
- *Ventilation for a Quality Dining Experience: A Technical Bulletin for Restaurant Owners and Managers*, released in January 1993
- *The New Horizon: Indoor Environmental Quality*, published as a supplement to an issue of *Consulting-Specifying Engineer* magazine, a trade magazine distributed to roughly 50,000 engineers
- Editorial Advisory Board member reviewing the articles of the monthly publication *INvironment™ Professional*
- Editorial Advisory Board member of *POWER PRESCRIPTIONS™ Indoor Air Quality Publication* by Electric Power Research Institute

ZDS provides Indoor Air Quality (IAQ) services for major corporations, government organizations and property owners to resolve their specific facility problems:

- Resolve “sick building syndrome”
- Identify solutions to building-related illnesses due to extensive biological contamination
- Develop solutions for HVAC systems, temperature controls, equipment, operating and maintenance practices for indoor air quality
- Commission new and renovated facilities to minimize or eliminate IAQ issues before problems arise
- Develop and establish master plans as well as conduct training seminars for IAQ of schools and commercial buildings

As one of the nation’s leaders in Indoor Air Quality (IAQ), **ZDS** provides sophisticated technical expertise that enables our client to be proactive in solving and preventing indoor environmental problems.

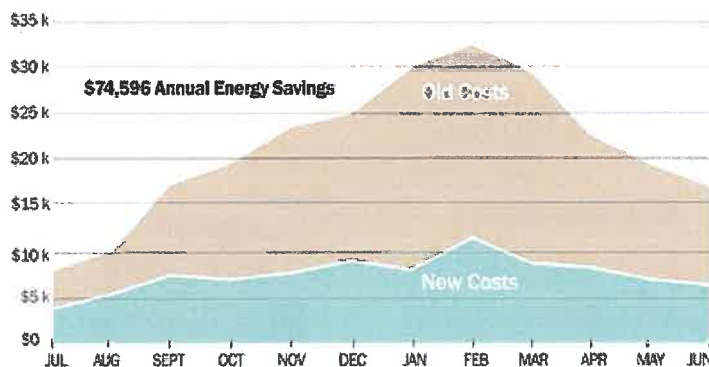




At **ZDS**, our engineering staff integrates energy efficiency into each project design to provide you, our client, with the added value that you expect and deserve. The **ZDS** team approach represents a tremendous amount of experience in designing energy efficient facilities. **ZDS** offers a comprehensive range of energy management services including:

- Providing detailed analysis of facilities
- Recommending sound and proven energy saving solutions
- Implementing energy management improvements
- Determining, quantifying and assisting in securing available Utility and Government grants

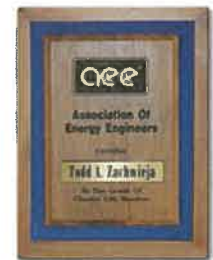
The **ZDS** team members take pride in the quality of their projects and have been responsible for designing and implementing numerous energy management programs. These programs are providing significant energy improvements and include optimizing, central utility plant equipment, control systems, air handling systems, lighting systems, and other energy consuming equipment.



ABOVE: ZDS designed and implemented the region’s first and largest commercial geothermal system saving Webster County High School over \$74,596 in energy savings.

Recent projects include:

- Interconnecting boilers and chiller plant systems
- Designing Geothermal HVAC systems
- Optimizing HVAC equipment and operating sequences, including upgrades to variable speed operation
- Installing Direct Digital Control (DDC) Energy Management Systems
- Replacing inefficient lighting equipment with energy efficient systems
- Modifying air handling equipment from 100% outside air to return air operation
- Implementing heat recovery units into HVAC equipment
- Improving laundry, kitchen and other process application efficiencies



In addition to the energy management projects outlined above, the **ZDS** team members have extensive experience in identifying and implementing energy efficient operating and maintenance measures. These are typically low cost or no cost measures that include:

- Inspecting, calibrating temperature controls and adjusting outdoor air dampers
- Commissioning economizer cycle operation
- Testing steam traps and pressure relief equipment operation
- Enabling heating and cooling equipment only when required



The **ZDS** team is trained and experienced in advising you of program options to incorporate energy efficiency and operational savings features into the design of your new construction and renovation projects. At **ZDS**, we view our role as helping you to define your own energy efficiency needs and goals through identifying energy savings options and providing supporting financial information. We then help you fit your energy efficiency needs and goals into a workable budget and schedule, and then design a program to fill those needs.

Sustainable “Green Building” design, including LEED certification, recognizes the importance of commissioning. The design and construction industry have had start-up problems when a facility is occupied and construction deficiencies were not discovered until the contractor’s traditional one-year warranty period expired. The mechanical and electrical systems have continued to become more complex with sophisticated control systems and equipment, and a mountainous amount of changing technology. If not properly addressed, building owners could face numerous operational problems from “Sick Building Syndrome,” excessive energy costs, and uncomfortable indoor environments.

Commissioning is the missing link between design and implementation. Prior to joining **ZDS**, Todd Zachwieja established commissioning services for one of the nation’s largest energy service companies. He is also a LEED Accredited Professional. Many utility companies and building owners now require commissioning for new or renovated facilities in order to maximize the use of their investments in their facilities and to obtain LEED certification.

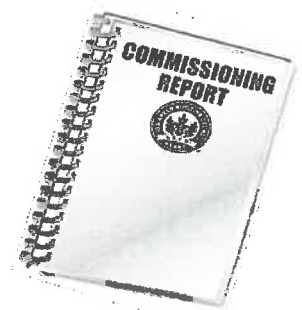
ZDS offers commissioning services for their clients, including meeting LEED enhanced commissioning requirements. These services include strategic planning and operations assistance for renovation and new construction projects. Commissioning services consist of construction document review, equipment performance testing, documentation of design criteria, value engineering, operational fine tuning, coordination of professional operations training programs and site-specific engineering consultation. Our project team has the unique experience of in-depth design knowledge and hands-on operations knowledge that fills in the gap between traditional design services and the building owner’s

The commissioning process offers the following benefits:

- Improved comfort, serviceability and owner understanding of systems and design intent
- Added technical support for the owner and being proactive in preventing new problems
- Reduced maintenance and decreased expenses related to operating deficiencies
- Early identification and resolution of system discrepancies while designers and contractors are still under contract and on the job
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The National Conference on Building Commissioning invited Todd Zachwieja to speak and he jointly presented a paper with the Director of Maintenance of Charleston Area Medical Center’s Memorial Division. The Tampa, Florida Conference involved experts nationwide.

Since 1958, the **ZDS** design staff has provided millions of dollars of engineering design services on a variety of project types. The **ZDS** design team will provide comprehensive services utilizing experienced staff through planning, cost estimating, engineering, coordination of bidding, regular site visitation during construction and specifications for equipment.



You, our client, will greatly benefit from a single point of responsibility for every need your project may have.



INDOOR AIR QUALITY SERVICES

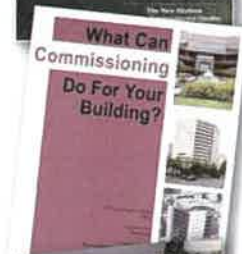
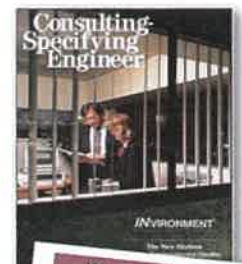
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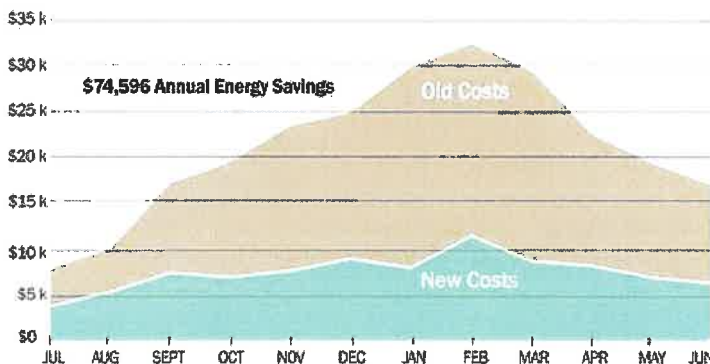


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Pendleton County Schools

North Fork Elementary School

Pendleton County Middle/High School

HVAC & Roof Renovations



Pendleton  County Schools



ZDS and WYK team provided professional architectural and engineering design, bidding, construction administration, and commissioning services for HVAC and roof upgrades at the Pendleton County Middle/High School and North Fork Elementary School to meet Indoor Air Quality and today's energy codes. The initial step in the project was to provide engineering investigations of existing conditions where **ZDS** and WYK team performed 3D Scan-to-BIM for reliable and accurate 3D capture of "built" conditions to use in design, bidding and construction. The 3D scans were also valuable to communicate remotely between the Owner and Contractor. The work included, but not limited to, twenty (20) new Roof Top Units, VAV Terminal Units, VRF cassette systems, Condensing Units, DOAS systems, indoor/outdoor Vertical Air Handling Units, Energy Recovery Ventilators, general exhaust fans, Kitchen Make Up Air Unit and hood exhaust. Bi-polar ionization was incorporated into the HVAC systems. The roofs were upgraded to meet today's Energy Codes. The Project also required new and modified HVAC ductwork modifications and gas piping for the HVAC systems, comprehensive DDC Buildings' controls upgrades, new electrical service at the Elementary school and other electrical upgrades associated with the new equipment. The energy efficient design will provide excellent long-term operating savings to the Pendleton County Schools. A new Fire Alarm system was provided for the Elementary school and the adjacent Harold Michaels Building.

The Elementary school and the MS/HS also will have new roofs when the Project is completed.

The schools remained occupied, and phasing of the Work was critical throughout the Project which is on track to be completed on schedule.

Project Costs: \$8,362,722 SBA funds, \$200,000 Local funds

School Size: 138,560 square feet

Contacts: (304) 358-2207

Charles Hedrick, Superintendent: cfhedric@k12.wv.us

J.P. Mowery, Business Manager: jmowery@k12.wv.us

Tim Johnson, Director of Facilities: tajohnson@k12.wv.us



Design/Consulting Services

Kanawha County Schools

Riverside High School HVAC/Lighting Renovations



Riverside High School, built in 1997, academic wing's HVAC system consisted of four large Dual Duct custom Rooftop units and gas fired packaged DX rooftop units to serve the other areas of the school. The Dual Duct HVAC equipment was unique to the County and the only school to have this HVAC system type challenging the maintenance department. The school went through a Performance Contracting Program around 2011 when original pneumatic controls were retrofitted along with other upgrades; however, the utility usage for this school was still nearly twice the national average.

ZDS goal for the design of HVAC, roof replacement and Lighting renovations was to reduce the overall energy usage by 50% while improving comfort and Indoor Air Quality. Many HVAC systems were analyzed, and energy modeled resulting in selecting a closed loop geothermal HVAC system using indoor high-efficient heat pumps and eliminating the Dual Duct units and replacing them with VAV Dedicated Outside Air Units (DOAS). Bi-polar ionization was incorporated into the HVAC systems. Reused the existing ductwork from the dual duct system and added VAV boxes with Demand Control Ventilation. Other HVAC systems included both water source heat pumps and packaged VAV Rooftop Units. Project includes replacing and retrofitting the existing lighting systems with high efficiency LED sources. The locker areas in the school are being converted from heating/ventilation only to full HVAC. The project also includes roof replacement concurrent with other renovations.

ZDS provided the design and assisted with the bidding and Construction Administration process. The project is under construction. Work designed/phased so construction could occur while school in use. In addition to energy savings the systems will provide reduced long-term operating and maintenance costs.

High Performance Design using ASHRAE Advance Energy Design Guides projected to **use over 50% less energy for HVAC/Lighting systems**

Incorporates Air Cleaning Technology in HVAC System

Construction Costs: \$17,400,000

School Size: 189,318 square feet

Contact: Chuck Smith, Executive Director: (304) 348-6148



Design/Consulting Services



Kanawha County Schools

Ben Franklin Career Center HVAC/Roof Renovations



ZDS and **WYK** team conducted an extensive study and performed 3D Scan-to-BIM of the facility that was utilized to develop comprehensive existing conditions and to assist KCS with procuring SBA funds. The work was done in two (2) phases for replacement of the aging HVAC equipment, ductwork and piping and includes electrical upgrades to accommodate the new equipment, new lighting throughout, roof replacement and new exterior overhead doors for the shops. **ZDS** provided, Design, Bidding, Construction Administration and **Commissioning services**. Work designed and phased so construction could occur while school in use.

ZDS and **WYK** team included Faculty/Staff specific current HVAC, Electrical needs and Future IT Expansions in the Design. Includes specialized custom energy-efficient HVAC to meet the challenging comfort and Indoor Air Quality needs for the Welding, Machine, Wood, Sheetmetal, HVAC, Diesel and Heavy Equipment Shops and school. EPAct qualified energy efficient design provides excellent long-term operating savings.



Project Costs: \$9,651,722 with SBA Funding \$6,992,759
School Size: 78,050 square feet
Contact: Chuck Smith, Executive Director: (304) 348-6148
 Charles Wilson, AIA, (Retired): (304) 533-6149

The project qualified for EPAct for energy efficient HVAC design while using over 27.3% less energy for HVAC and over 60% less energy for Lighting than schools designed using ASHRAE 90.1-2007.

Piedmont Elementary School HVAC Renovations

ZDS performed MEP design, 3D Scan-to-BIM, bidding and CA services for the replacement of an existing custom multizone unit, associated DDC controls and refurbished other HVAC units that had failed and were in need of constant maintenance/repairs. The work included necessary electrical modifications to serve the new rooftop unit. Project was completed within the budget allocated by the County.



The project qualified for EPAct for energy efficient design while using over 27% less energy for HVAC than schools designed using ASHRAE 90.1-2007.

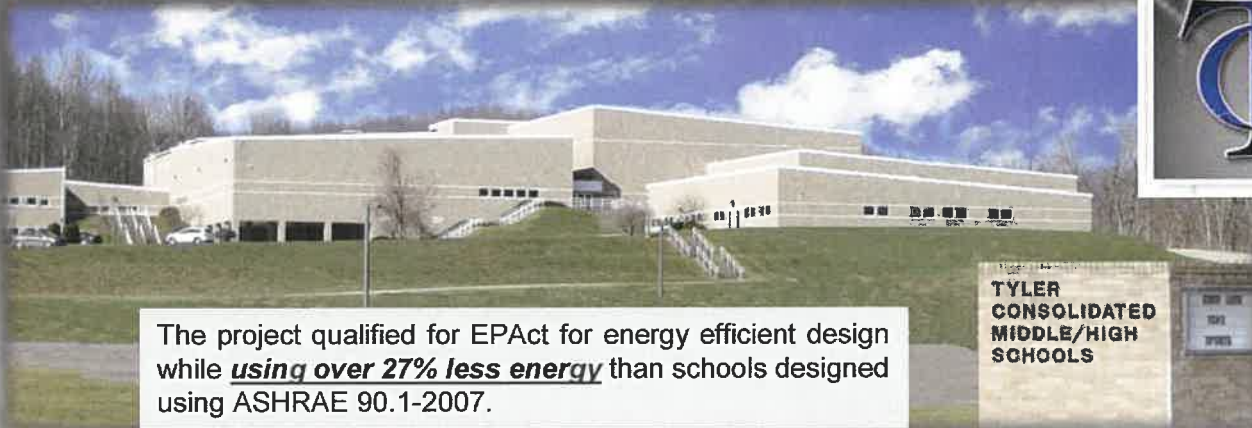
Project Costs: \$352,090, Project under budget!
School Size: 31,500 square feet
Contact: Chuck Smith, Executive Director: (304) 348-6148
 Charles Wilson, AIA, (Retired): (304) 533-6149



Design/Consulting Services

Tyler County Schools

Tyler Consolidated Middle/High School - HVAC Renovations



The project qualified for EAct for energy efficient design while **using over 27% less energy** than schools designed using ASHRAE 90.1-2007.



**Condensing
Hot Water Boilers**

ZDS provided professional engineering design, bidding, construction administration, and **commissioning services** for HVAC upgrades at the Tyler Consolidated Middle/High School to meet Indoor Air Quality and today's energy codes. The initial step in the project was to provide engineering investigations of existing conditions where **ZDS** performed 3D Scan-to-BIM for reliable and accurate 3D capture of "built" conditions to use in design, bidding and construction. The 3D scans were also valuable to communicate remotely between the Owner and Contractors. The demolition and new work to be included in Phase I of the project included two (2) new high efficient chillers piped so they could be used even during winter months, three (3) new high efficient condensing boilers, variable water volume hydronic pump system, VAV Air-Handling Units, VAV Blower Coil Units, Fan Coil Units, Energy Recovery Ventilators, DDC control upgrades, select new hydronic piping and ductwork for the equipment, exhaust fans, electric work associated with serving the new HVAC system equipment and new electrical panel-boards. The energy efficient design qualifies this school for the federal EAct credit and will provide excellent long-term operating savings to the Tyler County School systems over the life of the new systems.

The school remained occupied, and phasing of the Work was critical throughout the construction process. The project was completed ahead of schedule and within the allocated budget.

Phase II work is on-going and intended to complete the HVAC upgrades, renovate the auditorium, additions/renovations to the headhouse (greenhouse), a two-story addition and provide high efficient lighting.

Estimated Phase I Project Costs: \$4,796,903, SBA funding \$3,698,578

Date Completed: Phase I completed 2019; Phase II projected 2023

School Size: 188,156 square feet

Contact: Ms. Amanda Kimble, Dir. Child Nutrition, Facilities and Support Services
(304) 758-2145 ext. 111, akimble@k12.wv.us

Mr. Jeff Davis, Treasurer, (304) 758-2145 ext. 108



Design/Consulting Services

Mercer County Schools

Princeton Middle School

HVAC Renovations



HVAC, electrical system and lighting upgrades to improve Indoor Air Quality addressing current codes, improve energy efficiency and comfort. Provide DDC controls and outdoor ventilation with energy recovery dramatically reducing indoor CO2 levels for a better learning environment. Providing air conditioning for classrooms, cafeteria, kitchen, Auditorium and administrative offices. Project included an electrical service upgrade to accommodate the added HVAC loads. **ZDS** performed 3D Scan-to-BIM for reliable and accurate 3D capture of "built" conditions to use in design, bidding and construction and remote communication.



Construction Costs: \$3,265,000, SBA funding \$1,000,000

Date Completed: 2018 (on time and on budget), **School Size:** 103,847 square feet

Contact: Ms. Leslie Wellman, Director of Purchasing: (304) 487-1551, lwelman@k12.wv.us

Princeton Senior High School Renovations



New Boiler



Chiller & Air Handling Unit Renovations



Mechanical Room

HVAC upgrades to central air handling equipment, new boilers, chiller replacement and a phase approach to upgrade major portions of the school. The initial phase of work was completed in 2012 and the design prepared for future renovations.

Contact: Ms. Leslie Wellman,
Director of Purchasing:
(304) 487-1551
lwelman@k12.wv.us



Construction Costs: \$1,786,000

Date Completed: 2012



Design/Consulting Services

Raleigh County Schools

Woodrow Wilson High School

Prime Consultant: Engineering Master Planning, Phasing development to match funding, energy analysis, Mechanical and Electrical design, bidding and construction administration services for retrofitting the school. School retrofitted over five phases due to funding. Project included comprehensive HVAC, electrical, lighting, fire alarm, and supporting work. The project qualified for EPAAct due to the energy efficient design.

*"We have never been comfortable until now, we can now focus our attention on teaching and learning."
- Assistant Superintendent*

Construction Costs: \$12,050,000; SBA Funds \$900,000

School Size: 240,000 square feet two-story campus-style high school

Contact: Mr. Racine Thompson, Former Asst. Supt.: (304) 222-3907 (c) (304) 253-6890 (h)



Randolph County Schools

Elkins Middle School – HVAC, Electrical and Plumbing Retrofits

ZDS developed the initial plan and phasing strategy while providing HVAC, plumbing, electrical, and fire protection engineering services and related work. The project was developed into three phases to coincide with the funding for the project. The 74,500 ft² three-story school was originally built in 1952 with additions in the 70's, 80's and 90's.

ZDS also assisted in securing the funding for the project through the School Building Authority. The project design addressed Indoor Air Quality and energy efficiency issues including providing comprehensive DDC controls over all the HVAC equipment and lighting controls. The plumbing systems were modernized to address current ADA issues and replace the 45 year old plumbing systems. The project qualified for EPAAct for energy efficient HVAC and lighting design while using over 50% less energy than schools designed using ASHRAE 90.1-2001.

Construction Costs: \$8,686,000; over a 50% reduction in HVAC and lighting operating costs

School Size: 74,500 square feet for a three-story school

Contact: Mr. Brad Smith, Dir. Finance: (304) 636-9150, ext. 155, brrsmith@access.k12.wv.us



The engineering design and construction administration proved so successful that the Environmental Protection Agency (EPA) awarded Elkins Middle School with an Energy Star® certification, making the school one of the most energy efficient in the nation.



Design/Consulting Services

Webster County Schools

Glade Elementary/Middle School – HVAC/Electrical Retrofits



ZDS designed the new HVAC system for the school to meet current ASHRAE 62 and West Virginia Department of Education, Policy 6200 requirements. The HVAC system was through packaged roof mounted VAV air handling units. **ZDS** designed comprehensive DDC controls with remote monitoring, humidity and CO₂ controls including DDC centralized monitoring. With the aid of **ZDS'** planning,

*The engineering design and construction administration proved so successful that the Environmental Protection Agency (EPA) awarded Glade Elementary/Middle School with an **Energy Star®** certification, making the school one of the most energy efficient in the nation.*

Webster County Schools was able to phase the project allowing the major construction efforts to continue **without** loss of any school days. The project qualified for EPA Act for energy efficient design while **using over 50% less energy** than schools designed using ASHRAE 90.1-2001.

Construction Costs: \$3,667,620; over a 50% reduction in HVAC and lighting operating costs

School Size: 68,000 square feet

Contact: Scott Cochran, Superintendent: (304) 847-5638, ext. 113, scochran@k12.wv.us

Webster County High School used a 500 ton geothermal heat pump loop consisting of 240 wells; 307 foot deep, with over 28 miles of underground piping spread in an adjacent practice football field. The HVAC system is fully automated through a central Direct Digital Control (DDC) system. Indoor air Quality (IAQ) issues are addressed through increased ventilation, improved filtration, customizing the design of the AHU's to address current IAQ practices, and cleaning/coating existing ductwork. **It is the largest GeoExchange installation installed in West Virginia and the surrounding region. Even after years of successful operation the school is still among the most efficient in West Virginia scoring in the top 30 percentile when using Energy Star Certification database.**

Webster County Schools Webster County High School Renovations



Construction Costs: \$5,083,000; SBA Funds \$5,083,000;
over a 50% reduction in HVAC and lighting operating costs

Contact: Harry Given, Retired Dir. of Maintenance,
Webster County Schools: (304) 226-5288



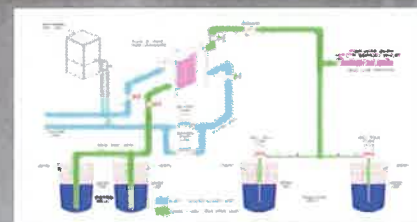
Design/Consulting Services

Webster County Schools

Webster Springs Elementary School – HVAC Renovations



ZDS designed and installed a system that integrated both a closed-loop and open-loop geothermal system. This was the first system of its type installed, according to the State Department. **ZDS** helped establish a procedure to minimize the risk of cross contamination with the aquifers as part of this project and also improved the Indoor Air Quality through increased ventilation, improved filtration and the use of ultraviolet lights that reduce the risk of mold growth and airborne germs. **ZDS** also helped Webster County Schools to obtain funding for the project from the State's School Building Authority (SBA).



**1st Place 2014 ASHRAE
Technology Award**

*The engineering design and construction administration proved so successful that the Environmental Protection Agency (EPA) awarded Webster Springs Elementary School with an **Energy Star®** certification, making the school one of the most energy efficient in the nation.*

Construction Costs: \$1,430,000; SBA Funds \$1,300,000; over a 50% reduction in HVAC operating costs
Contact: Scott Cochran, Superintendent: (304) 847-5638, ext. 113, scochran@k12.wv.us

Ritchie County Schools

Smithville Elementary Additions/Renovations

Developed the initial MEP plan and phasing strategy and provided HVAC, plumbing, electrical, and fire protection engineering services and related work for an 8,515 square-foot addition and comprehensive renovations of the existing school. The new HVAC system for the school meets current ASHRAE 62 and West Virginia Department of Education, Policy 6200 requirements. The HVAC system was through packaged roof mounted VAV air handling units. **ZDS** designed comprehensive DDC controls with remote monitoring, humidity and CO₂ controls including DDC centralized monitoring. The facility also qualified for EAct for energy efficient lighting using over 50% less energy. **The project was completed under budget and ahead of schedule while allowing for additional county needs to be included into the project.**



Construction Costs: \$3,754,900; SBA Funds \$4,379,162

Project under budget!

School Size: 17,729 square feet

Contact: Mr. David Weekly, Dir. Student Support Services:
(304) 643-2991, ext. 223



Design/Consulting Services

Jomie Jazz Center



Marshall University Jomie Jazz Center HVAC & Roof Renovations

ZDS entered into a contract with Marshall University to provide engineering services for selected HVAC and roof renovations at the Jomie Jazz Center. Upgrades included HVAC controls, new roofing and electrical work associated with the new equipment. Services included preparation of Construction Bid Documents, assistance with Bidding and Negotiations and full Construction Administration services. The Work for additional upgrades will be performed in phases due to limited budgetary funding.



Construction Costs: \$500,000 - \$1,000,000 in multiple phases
Contact: Mr. Larry Metcalf, Assistant Director, Physical Plant;
(304) 696-6241; metcalf@marshall.edu

Harris Hall & Smith Hall Renovations

Harris Hall included engineering planning, design, bidding and construction administration services for HVAC, Plumbing & Electrical retrofits, DDC Controls, AHU's replacement, chiller replacement, VVV pumping, new electrical service, switchgear and addressable fire alarm systems for the 56,680 square-foot facility.

Smith Hall, an eight-story classroom facility, consisted of exit stair tower smoke control system, and plumbing sanitary stack renovations as part of complete window replacement/upgrade to the largest classroom building on campus. It was completed a year ahead of schedule and under budget.



Harris Hall



Smith Hall



"Harris Hall is now the most comfortable one on Campus!"
- Tony Crislip, **Marshall University**

Construction Costs: Harris Hall \$2,856,000, Smith Hall \$2,800,000
Contact: Mr. Ron May, Retired Capital Projects Mgr; (304) 654-2367
Mr. Tony Crislip, Retired Project Mgr.; (304) 633-2081



Design/Consulting Services

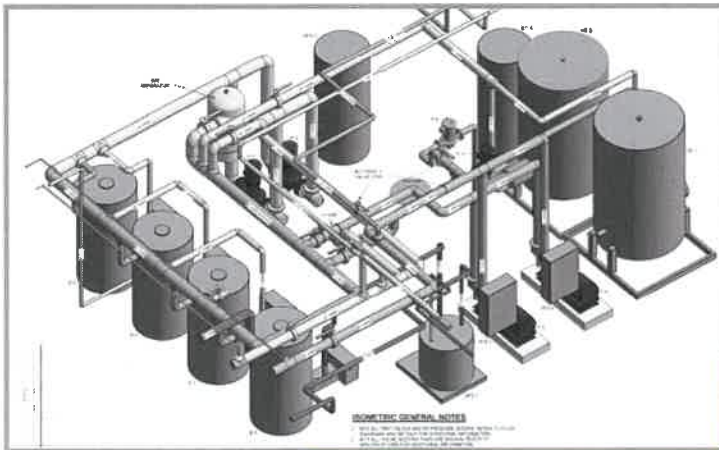


Project Cost: \$17,000,000, **Size:** 117,500 ft², **Date Complete:** 2017

Study/Evaluation, HVAC Renovations, Lighting Upgrades, Fire Protection, Electrical Renovations, 3D Scanning

Client Reference: Gary Boyd, Director of Facilities; (304) 357-4871

The facility consists of classrooms, offices, flexible meeting areas and a large two-story Innovation Center space. Mechanical and Electrical work includes new chiller and three heating hot water boilers with a steam boiler for the central boiler plants with pumps and accessories, HVAC air handling units, DDC Controls, new domestic and fire protection water services, new gas service, domestic water heating equipment, extensive plumbing fixtures/showers/lockers, new electrical service from the campus 12.5 kv distribution loop, switchgear, distribution and branch panel boards, and new state-of-the-art energy efficient LED lighting systems.



Renovations resulted in over a 50% reduction in energy over ASHRAE 90.1-2007 standards.



Size: 219,754 ft² plus 33,000 ft² Addition

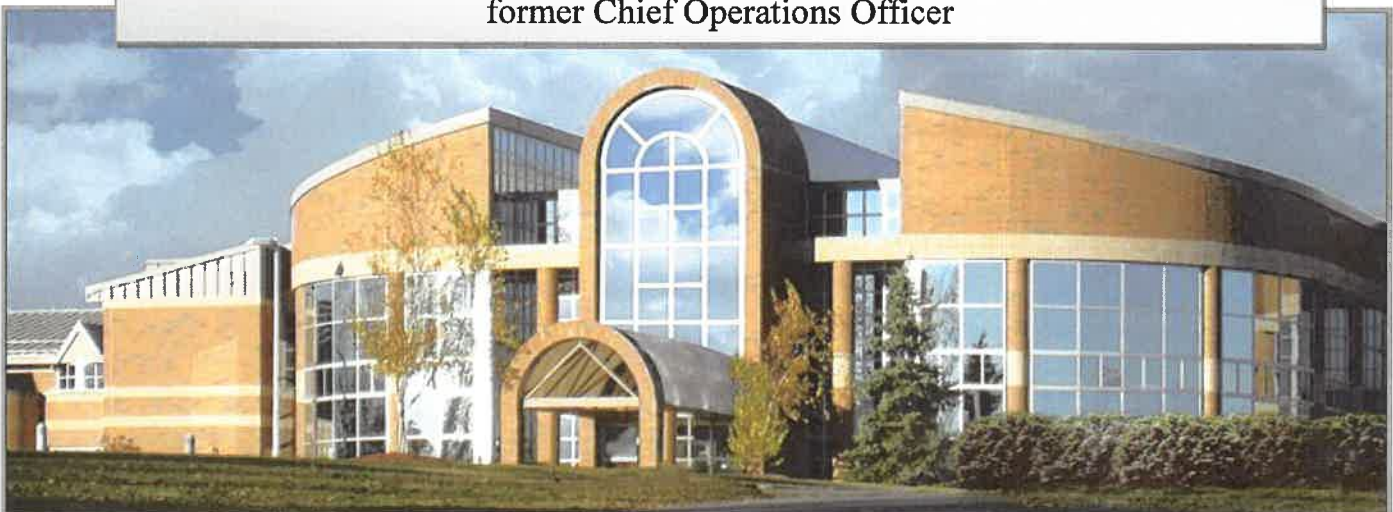
Date Complete: 2017

219,754 ft² Renovation plus 33,000 ft² New Construction

Prime for Engineering Master Planning, HVAC Renovations, Lighting Upgrades, Emergency Generator, Fire Protection, Electrical Renovations, Roof Replacement, Commissioning, 3D Scanning. Consultant for all MEP engineering through IKM, Inc. for the addition.

MEP Engineering design and Commissioning services for both the HVAC/lighting/roof Renovation project retrofitting Hospital and the patient wing addition. Comprehensive MEP engineering and commissioning services for a central domestic hot water services, central boiler/chiller plant and 1.8 MW bi-fuel emergency generator system. Central heating plant with three 10.5 Million BTU heating hot water boilers with low NOx burners to meet DEP emission requirements. VVV Pumping for heating, cooling and domestic hot water. Integrated DDC controls for central monitoring, troubleshooting and control including demand control ventilation and outside air measuring/monitoring. The HVAC system is also an integral part of the smoke control system. Lighting systems upgraded to LED and controlled to minimize energy. IAQ enhancements were incorporated into the high performance HVAC systems. Careful phasing, and the need to disrupt only small portions of the Hospital at a time, resulted in an extended construction period.

“The ZDS staff are great planners and designers! They help us make the best decisions for the long term. We would recommend them to anyone!”
former Chief Operations Officer



Renovations resulted in a 48% reduction in lighting and 28.8% reduction in energy for HVAC renovations over ASHRAE 90.1-2001 standards qualifying the project for EPAc.

Construction Costs:	Phase I HVAC Cost	\$ 1,403,000	Completed in 2011
	ARRA Funded Lighting Upgrade Costs	\$ 618,700	Completed in 2011
	Comprehensive Renovation Cost	\$30,000,000	Completed in 2017
	Addition Project Cost	\$13,500,000	Completed in 2014

Kanawha County Courthouse & Judicial Building

Charleston, WV



The Kanawha County Commission hired **ZDS** to provide HVAC/Roof Replacement engineering planning, design, bidding and construction administration services for the renovation of the 95,400 ft² Judicial Building and a 23,000 ft² addition using the ground floor of the parking garage connected to the Judicial Building. The facility includes circuit courtrooms, jury deliberation, attorney conferencing, witnessing, court clerical staff, public research, adult probation, prosecuting, maintenance, voter registration, court administration, and all public areas. The addition included a new entrance, security checkpoint, and lobby to accommodate a building expansion for Juvenile Probation and Family Court. Replacing the roof of the original building is being done concurrently with HVAC renovations for a coordinated effort.

ZDS assisted in identifying a phased approach to addressing and defining Indoor Environmental Quality (IEQ) issues and modifications for the Kanawha County Courthouse.

Total Judicial Bldg. Project Costs: \$13,807,000

ZDS Team Project Cost: \$6,737,000

Annex Project Size: Renovations 95,400 ft² plus 23,000 ft² addition

“No one else could identify the MEP problems even though many had tried. Yet, ZDS provided an excellent evaluation while working well with our Judges and staff for a very successful project. We use them for all our challenging work.”
- Kanawha County Commissioner



Project Cost: \$4,090,000.00

Size: 4,260 ft²

Date Complete: 2021

HVAC, Plumbing, Fire Protection, Lighting, Electrical and LV Systems

Client Reference:

WYK Associates, James Swiger, President; (304) 624-6326, james@wykassociates.com



Tyler County 911 Center



ZDS provided professional MEP engineering services for the preparation of construction documents on the new Tyler County 911 Center. Stringent Codes and standards for 911 facilities were researched and implemented into the MEP systems for the new facility. We designed a high performance geothermal well field that will serve the HVAC systems' equipment as well as a solar power panel array with equipment and components that is intended to provide all necessary electric power to the building. The electricity generated by the PV panels will exceed the needs of the facility and with the installation of an interconnecting system coordinated with the local utility the excess power will feed back into the utility grid for the County's use at the local Courthouse. The installation of the geothermal system coupled with the solar power generated will result in a significant overall reduction in energy costs to the Owner. The facility also has a propane-fired emergency generator to provide 100% backup for electrical needs in the event of a utility failure and an Uninterruptible Power Supply (UPS) system sized for all critical loads in the Operations Center. State of the art systems incorporated in our design included fire alarm, security, door access and vehicle entry gate openers. The building has a complete fire protection wet-pipe sprinkler system with the exception of clean agent dry suppression systems for the Server room and the Operations Center where sensitive electronic/data equipment is located.

State of West Virginia Capitol Complex

Charleston, WV



State of West Virginia Capitol Complex Charleston, WV

Project Cost: \$26,500,000

Size: 1,900,000 ft² covering 9 buildings

Date Complete: 2019 for latest project

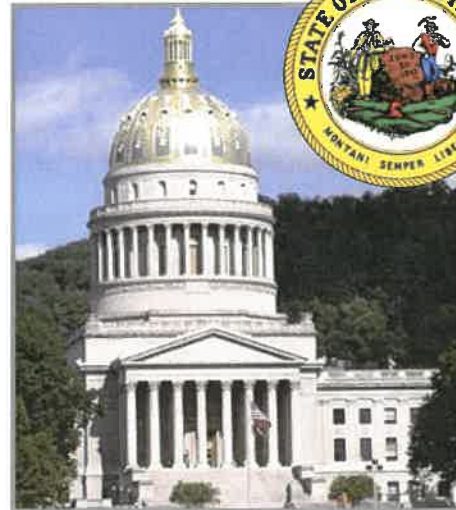
**HVAC Renovations, Fire Protection,
Electrical Renovations, Consultant for Performance Contracting**

Client Reference:

Mark Lynch, Mgr. Facility Operations; mark.w.lynch@wv.gov

Patrick O'Neil, Project Manager; Patrick.S.ONeill@wv.gov

Builder Reference: Constellation Energy; Chuck Moeller
(previously with Johnson Controls; (724) 584-3331



Numerous design and renovation projects for the WV State Capitol Complex including engineering planning, design, supervision, preparation of construction documents, specifications, construction administration, and commissioning of HVAC systems, sprinkler systems, plumbing systems, electrical power, lighting, fire alarm, security, technology and communications for many facilities on the WV Capitol Complex: **WV Division of Protective Services:** Engineering master planning & design for specific life safety issues involving homeland security, fire alarm, sprinklers, emergency power, CCTV, intercom, mass notification and "giant voice" system for all State facilities on the Capitol Complex under a 10-year open-end contract. **WV Division of Culture and History Library** renovations addressing long-term HVAC and IAQ problems including fire alarm and fire protection upgrades completed in 2011. Renovations conserved energy without sacrificing comfort or indoor air quality. **District Heating System:** As a consultant to Johnson Controls under a Performance Contracting program to provide master planning and design for the district heating system for the **WV Capitol Complex**. The project included the Master Planning, IAQ evaluation, energy analysis, code analysis and Mechanical design involving more than 1,900,000 ft² of facilities including the Capitol Building, Building's #3, #4, #5, #6, #7, Holley Grove, Governor's Mansion and the Culture Center.

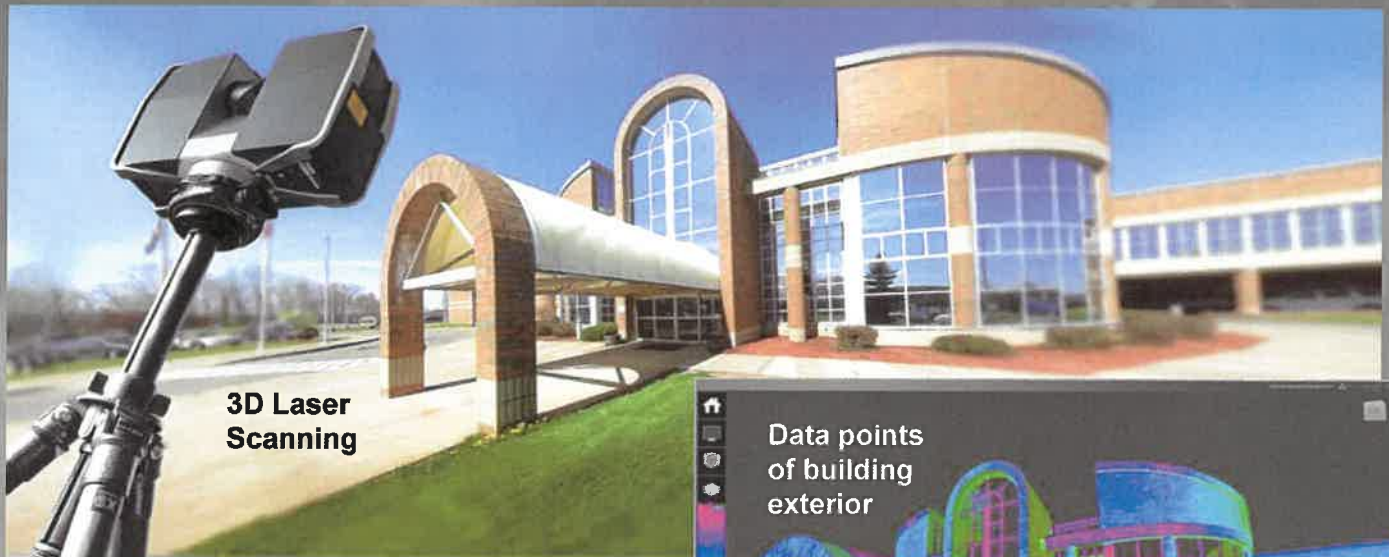
Master planning & design for central heating plant, DDC controls, Air Handling Unit replacements and retrofits, operating and maintenance, training, heat recovery, fuel conversion, VFD's, variable water



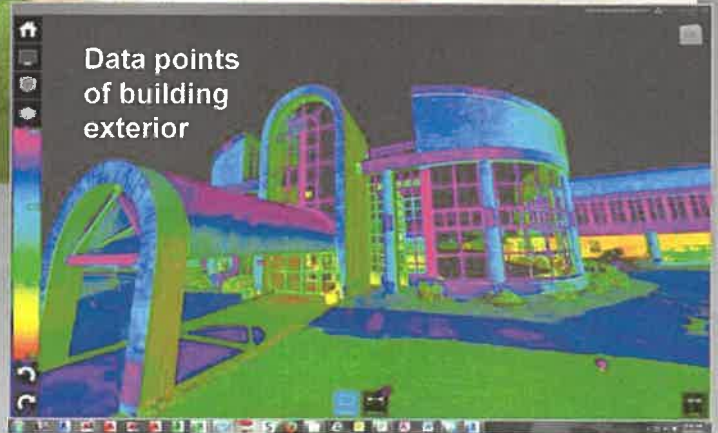
The Capitol Complex renovations are estimated to save nearly \$2,000,000 annually over the costs of operating the old systems.

BIM - 3D Digital Imaging

Our 3D Laser Scanning Services helped William R. Sharpe, Jr. Hospital document existing conditions and integrate their 50-bed addition.



3D Laser Scanning



Data points of building exterior

Why 3D Laser Scanning is better:

3D laser scans reveal significant differences between existing conditions and the original drawings.

3D laser scans also provide superior details by capturing data that is more comprehensive and precise than conventional methods.

“With the 3D laser scanning service, ZDS saved us countless hours communicating to all project team members, even to those who work or live far away.

Also, we now have an accurate record of the existing conditions that DHHR can easily access now and into the future.”

former Chief Operations Officer



Web Share:

3D laser Scanning allows facility owners to view and measure areas with others on their planning and construction team.



Todd has over 40 years of experience involving the analysis, design, construction management and specifications for mechanical engineering, heating, ventilating, air conditioning, plumbing, fire protection, electrical and lighting, as well as indoor environmental quality analysis, building system commissioning and forensic engineering for educational, governmental, military, commercial, industrial and health care clients. He is also recognized as a **campus master planner** for utility infrastructure providing master planning at many Universities, hospitals and the State of WV Capitol Complex.

Prior to starting a consulting engineering firm, Todd Zachwieja coordinated comprehensive energy conservation programs resulting in annual energy savings of millions of dollars. He has managed a profitable regional office for one of the country's largest energy companies that service the southeastern United States. Todd also developed computer modeling programs for building energy analysis and monitoring. He has been invited as an industry leader to present technical papers and speak at professional conferences both regionally and nationally.

Todd selected and designed the pilot project for one of the largest geothermal heat pump applications in the Eastern US including designing custom geothermal rooftop AHU's. He has retro-commissioned HVAC systems for millions of square-foot for facilities located in 10 states. He has been involved with many commercial structures including high-rise commercial building renovations. Todd designed renovations to many existing schools which received **Energy Star Certifications** placing them in the nation's top 25% of energy efficiency schools. *The College Planning and Management Magazine* featured Todd and his work with a major University for the performance contracting programs that save millions of dollars in energy and operating costs. Most projects also qualified for EPA Act which requires buildings use over 50% less energy than buildings designed using ASHRAE 90.1.

K-12 EXPERIENCE - Hundreds of K-12 Schools both public and private in West Virginia Counties of Calhoun, Clay, Fayette, Grant, Greenbrier, Hardy, Harrison, Jackson, Kanawha, Lewis, Logan, Marion, McDowell, Mercer, Mingo, Monroe, Ohio, Pleasants, Pocahontas, Putnam, Raleigh, Randolph, Ritchie, Summers, Taylor, Tucker, Tyler, Upshur, Webster, Wirt and Wyoming. Allegheny County Maryland School District as well as schools in Pennsylvania.

- Ben Franklin & Carver Career Centers
- South Charleston Middle & High Schools
- New Leager Elementary School
- Smithville Elementary School
- Jane Lew Elementary School
- Grandview & Piedmont Elementary Schools
- Greenbrier East & West High School
- Greenbrier East & West Middle School
- Petersburg High School Renovations
- East Hardy County High School
- Chesapeake Elementary School
- Princeton High School
- Glenwood K-8 School
- James Monroe High School
- Winfield High School
- Poca Elementary School
- Woodrow Wilson High School
- Marsh Fork Elementary School
- New Southside K-8 School
- New Trap Hill Middle School
- New Shady Spring Middle School
- Princeton Middle School
- Liberty/Independence High Schools
- George Washington High School
- Tucker County High School
- Webster County High School
- Ritchie County Middle/High School
- Park Middle School
- North Marion High School Renovations
- Pleasant Hill Elementary School
- South Charleston High School
- Webster Springs Elementary School
- Glade Elem./Middle School
- Tyler Consolidated Middle/High School
- Riverside High School
- St. Marys High School



PROFESSIONAL REGISTRATIONS

Professional Engineer

Florida [REDACTED]

Georgia [REDACTED]

Kentucky [REDACTED]

Maryland [REDACTED]

North Carolina [REDACTED]

Ohio [REDACTED]

Pennsylvania [REDACTED]

South Carolina [REDACTED]

Virginia [REDACTED]

West Virginia [REDACTED]

Fire Investigation Certification under the direction of Peter Vallas, Sr.

Certified Energy Manager



(C.E.M.) National

Certification No. [REDACTED]



LEED Accredited Professional;

National Certification through

USGBC No. [REDACTED]

EDUCATION

Masters of Science in Engineering Management from West Virginia University College of Graduate Studies.

Bachelor of Science in Mechanical Engineering from West Virginia Institute of Technology.

Todd Zachwieja, PE, CEM, LEED AP

PROFESSIONAL AND COMMUNITY AFFILIATIONS

Past President 2013-14, current Governor - WV ASHRAE Chapter, Served as ASHRAE's Energy and Technical Affairs Chairman for six years. Recognized by ASHRAE Region VII in 2014 with the David Levine Award of Excellence, Presidential Award of Excellence,

Recognized by the International Who's Who of Professionals

Recognized nationally as West Virginia's Business Man of the Year

Recognized by AEE nationally in 2007 as a Legend in Energy

Recognized by AEE nationally in 2008 as a Charter Legend in Energy

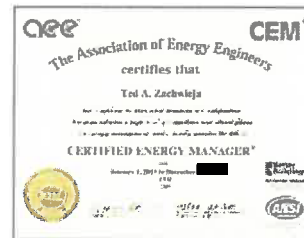
Charter Life Member of the Association of Energy Engineers

Professional Affiliate Member of the American Institute of Architecture

Associate Member West Virginia Society for Healthcare Engineering

Member of the International Code Council

Member of the National Society of Professional Engineers



OTHER RECOGNITIONS

Selected by WVU and the WV Division of Energy to train Code officials and the design community on ASHRAE 90.1 State Energy Code

Presented at regional and national conferences including the annual National System Commissioning Conference

Contributing editor and served on the Editorial Review Panel for *"The Handbook of Building Management and Indoor Air Quality"*

Contributing editor *"Ventilation for a Quality Dining Experience"*

Contributing editor and served on the Editorial Review Panel for *INvironment Professional*, *Power Prescriptions* and other publications and articles featuring Indoor Air Quality (IAQ) and MEP engineering systems

Energy Star Certified for facilities in the nation's top 25% of energy efficiency

1st Place 2014 ASHRAE Technology Award, Region VII

LEED Silver Certified WVANG Fuel Cell/Maintenance Hangar, Charleston, WV

LEED Gold Certified Harvard Arboretum, Boston, MA

First ASHRAE bEQ certified building in West Virginia, 2015



Ted has over 16 years of experience in building construction design industry. His strategic thinking and development of technical resources at ZDS has helped streamline design processes and improve quality of work office wide. Ted is an innovative problem solver in engineering design, communication methods and management of BIM models between stakeholders during a design project. As a pioneer and a believer in technological processes Ted has championed Integrated Design Practices that has become the fabric of ZDS's day to day operations.

Ted developed ZDS's 3D Scanning services which have assisted in collecting key existing conditions for renovation projects, forensic engineering, historical preservation, and high definition reality capture. Ted has in depth experience on collection, registration, and scan to BIM processes. He has provided training and developed materials for best practices when using 3D scan data. Ted's 3D scanning experience includes governmental, educational, health care, industrial, and commercial facilities. He also has experience in speaking on how 3D laser scanning impacts our industry today.

Ted develops, designs and manages the IT systems. The experience encompasses development and deployment of central server systems to networked client computer systems, strategic development for ZDS' Integrated Design Processes, and research and development into new technologies to continue staying on the cutting edge for ZDS and others.

Ted's project experience includes design and commissioning for heating, ventilating, air conditioning, plumbing, fire protection, electrical and lighting systems for educational, health care, industrial and commercial facilities. His experience encompasses working both on new construction and renovation projects. He also is experienced in historical facilities including theatrical.

Ted maintains an active membership to the ASHRAE professional society and also has a lifetime membership to the Association of Energy Engineers. He maintains an active continuing education towards today's standards and codes as well as participates in ASHRAE at both a local and society level. He was recently appointed to the Electronic Communications Standing Committee with ASHRAE. Ted has designed renovations to existing K-12 schools which received **Energy Star Certifications** placing them in the nation's top 25% of energy efficiency schools.

K-12 EXPERIENCE

- Kanawha County Schools (County-wide)
- Andrew Jackson Middle School
- Ben Franklin Career & Technical Center
- Grandview Elementary School
- Piedmont Elementary School
- South Charleston Middle School
- Raleigh County Schools (County-wide)
- Davis-Thomas Elem./Middle School
- Elkins Middle School -*Energy Star Certified*
- Greenbrier West High School
- New leager Elementary School
-*Energy Star Certified*
- Jane Lew Elementary School
- Lashmeet/Matoaka Elem. School
- Mercer Co. Technical Education Ctr.
- Bluefield High School & Vocational
- Princeton Middle School
-*Energy Star Certified*
- Montcalm High School
- Pendleton Co. Middle/High School
- North Fork Elem. School
- Park Middle School
- Princeton High School
- Sacred Heart Pavilion
- Smithville Elementary School
- Spanishburg Elementary School
- Glade Middle School -*Energy Star Certified*
- Woodrow Wilson High School
- New Southside K-8 School
- Clay Elementary School
- Eastern Greenbrier Middle School
- Man K-8 School
- Kimball Elementary School
- James Monroe High School
- Pocahontas Co. Community Center
- Ritchie County Middle/High School
- Shady Springs High School
- Tyler Consolidated Middle/High School
- Riverside High School
- St. Marys High School



PROFESSIONAL REGISTRATIONS

Professional Engineer:

Florida [REDACTED]

West Virginia [REDACTED]

Certified Energy Manager (C.E.M.)

National Certificate

No. [REDACTED]

CEM[®]

EDUCATION

Bachelor of Science in Mechanical Engineering from Rochester Institute of Technology, Rochester, NY

AWARDS AND RECOGNITIONS

Awarded 2012 Legend in Energy by the Association of Energy Engineers

Awarded acceptance into ASHRAE's 2015 Leadership University

ASHRAE Blue Ribbon Award of Excellence
Co-Author at Autodesk University



Energy Star Certified for facilities in the Nation's top 25% of energy efficiency

David is a professional Mechanical Engineer with over 16 years of experience in the design and construction of over 500 projects having construction values up to \$35 million. His design experience ranges from commercial, industrial, institutional, healthcare, education, restaurant, retail, government, airport, and recreational facilities.

David collaborates well with fellow engineers, architects, owners, commissioning agents, contractors, and vendors to define project scope and develop conceptual designs. As a project manager he successfully manages projects from start to finish in design, bidding, and construction administration.

PERSONAL PROJECT EXPERIENCE

- Dominion Office Building—LEED Gold, Bridgeport, WV
- Mon General Hospital Echo Renovations, Morgantown, WV
- Mon Health LTAC for Acuity, Morgantown, WV
- UHC POB 4th Floor Fitout, Clarksburg, WV
- Clarksburg Comprehensive Care Clinic Renovations, Clarksburg, WV
- Jerry Dove Medical Office Building, Bridgeport, WV
- Medbrook Building HVAC Replacement, Bridgeport, WV
- Mylan Pharmaceuticals, Morgantown, WV
- Total Dental, New Multi-Tenant Building for PCE, LLC, Bridgeport, WV
- Beckley Police Station, Beckley, WV
- Doddridge County Athletic Complex, Doddridge County, WV
- Boy Scouts of America, Rex W. Tillerson Leadership Center, Fayette County, WV
- White Hall Public Safety Building, White Hall, WV
- Beitzel/Pillar Innovations Office Building, Garrett County, MD
- Percival Hall Absorption Chiller and Cooling Tower Replacement, Morgantown, WV
- Thrasher Engineering Office Building, Bridgeport, WV
- WVU Creative Arts Center Rehearsal Hall, Morgantown, WV
- WVU Towers Dining Hall Renovations, Morgantown, WV
- WVU Athletic Performance Center, Morgantown, WV
- HP Hood Addition/Renovations, Winchester, VA
- Dominion Office Building, Delmont, PA
- University of Pittsburgh Softball Practice Facility, Pittsburgh, PA
- Westmoreland Community and Technical College, Indiana, PA
- WVU Alumni Center, Morgantown, WV
- WVU Biomedical Research Facility, Morgantown, WV
- WVU Milan Puskar Locker Room Renovations, Morgantown, WV
- NOAA GOES-R Supercomputing Center, Fairmont, WV
- Columbia Gas Transmission Compressor Station, Mathias, WV



PROFESSIONAL REGISTRATIONS

Professional Engineer:

West Virginia [REDACTED]

Maryland [REDACTED]

Virginia [REDACTED]

North Carolina [REDACTED]

Ohio [REDACTED]

Pennsylvania [REDACTED]

LEED AP BD+C Professional Accreditation

NCEES Record Certificate

EDUCATION

Bachelor of Science

Mechanical Engineering

WV Institute of Technology

MEMBERSHIPS

WV ASHRAE, Current President

National Fire Protection Association

WV Society of Healthcare Engineers

Mike Chancey, PE, LEED AP



Mike has over 35 years of experience in electrical design and project management for industrial, commercial, residential, institutional, educational and recreational facilities. Building system design includes lighting, site lighting, power distribution, communications, surveillance, access control, and fire protection. Past accomplishments include design and construction administration of health care facilities, schools, municipal, sports, commercial and retail facilities.

PERSONAL PROJECT EXPERIENCE

- Jefferson Co., OH Courthouse Courtroom Renovations
- Mon Co. Courthouse Entry Plaza
- Morgantown Public Safety Building
- Whitehall Public Safety Building
- Pocahontas Co. Courthouse Lighting Upgrade
- Davis & Elkins College Hermanson Center Renovations, Elkins, WV
- Clarksburg Aquatic Center, Clarksburg, WV
- Harrison County Recreation Complex 4-H Center, Bridgeport, WV
- East Marion Pool Renovations, Fairmont, WV
- WVU Mountaineer Station Phase II, Morgantown, WV
- WVU Wrestling Locker Room Renovation, Morgantown, WV
- WVU Milan Puskar Stadium Ad Board Upgrades, Morgantown, WV
- WVUH Residential Treatment Center at Mylan Park, Morgantown, WV
- WVU Milan Puskar Stadium (AD) Athletic Director's Suite Renovations, Morgantown, WV
- WVU Marina Tower Fitout, Morgantown, WV
- WVU Honors Dormitory, Morgantown, WV
- WVU CAC Rehearsal Hall, Morgantown, WV
- WVU Visitor's Resource Center, Morgantown, WV
- WVU College Park Apartments, Morgantown, WV
- Boy Scouts of America, Rex W. Tillerson Leadership Center. Glen Jean, WV
- Mountaineer Medical Office Building, Bridgeport, WV
- Morgantown Event Center, Morgantown, WV
- Morgantown Event Center Parking Garage, Morgantown, WV
- The Health Plan, Wheeling, WV
- West Virginia State Police, Fairmont, WV
- White Hall Public Safety Building, White Hall, WV
- Pocahontas Co. Courthouse Lighting Upgrade, Marlinton, WV
- Mon County Extension Building, Morgantown, WV
- Beckley Police Department, Beckley, WV
- Beckley Fire Station # 3, Beckley, WV
- Morgantown Public Safety Building, Morgantown, WV
- Mon County Courthouse Plaza, Morgantown, WV



PROFESSIONAL REGISTRATION

Professional Engineer:

West Virginia [REDACTED]

Maryland [REDACTED]

Virginia [REDACTED]

Ohio [REDACTED]

Pennsylvania [REDACTED]

LEED Professional Accreditation

EDUCATION

Bachelor of Science

Electrical Engineering

WV Institute of Technology

MEMBERSHIP

National Society of Professional Engineers

WV Society of Professional Engineers

WV American Institute of Architects



CAS Structural Engineering, Inc.

Alum Creek, WV

STRUCTURAL



Firm Profile

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

Providing structural engineering design and/or analysis on a variety of projects throughout the state of West Virginia, CAS Structural Engineering has experience in excess of 30 years on the following types of building and parking structures:

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

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

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

Carol A. Stevens, PE is the firm President and will be the individual responsible for, as well as reviewing, the structural engineering design work on every project. Carol has over 30 years of experience in the building structures field, working both here in West Virginia and in the York, Pennsylvania vicinity. Carol is also certified by the Structural Engineering Certification Board for experience in the field of structural engineering.

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

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

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COVENANT HOUSE

Charleston, West Virginia



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

The Covenant House occupies the first and second floors, and the third floor has lease office space.



Project Architect: NVisions Architects
Project Structural Engineer: CAS Structural Engineering, Inc.



South Charleston, West Virginia
Alum Creek, West Virginia

EASTERN WEST VIRGINIA REGIONAL AIRPORT TERMINAL BUILDING

Martinsburg, West Virginia



This facility replaced an existing, undersized terminal building at the airport. The building houses normal airport terminal building functions such as rental car space, restaurant ticket counters, baggage areas and offices.

Both the air side and the public side have attractive brick and limestone exteriors, with a standing seam metal roof system.



The building structure consists of structural steel frame with metal stud infill.



JOHNSON AVE PROFESSIONAL BUILDING

Bridgeport, West Virginia



This building was designed as professional office space for several tenants. The 9,400 SF building has a complex system of wood roof trusses supported by a structural steel frame.



Project Architect: The Omni Associates—Architects
Project Structural Engineer: CAS Structural Engineering, Inc.



Fairmont, West Virginia
Alum Creek, West Virginia

MAN K-8 ADDITION

Man, West Virginia



Addition consisted of four new classrooms and a multi-purpose room with additional ancillary space to serve the facility.

Exterior façade was required to match existing brick façade, with all window, door and roof treatments matching as well.



Interior corridor floor coverings, wall and ceiling treatment matched the existing to make the addition appear as though it has always been part of the facility.



Project Architect: Chapman Technical Group, Ltd.
Project Structural Engineer: CAS Structural Engineering, Inc.

St. Albans, West Virginia
Alum Creek, West Virginia

POCAHONTAS COUNTY WELLNESS AND COMMUNITY CENTER

Marlinton, West Virginia



The new approximately 13,000 SF Wellness Center was constructed adjacent to the existing Marlinton Elementary School. The facility includes a middle-school size gymnasium and basketball court, two multi-purpose rooms, a racquetball court, a wellness center and a warming kitchen/concession stand.



The majority of the structure consists of a pre-engineered metal building, with the entrance being constructed using conventional stick-framed construction.



PCC 911 / OEM Center

Kingwood, West Virginia



Performed structural design for new 6,200 SF building to house 911 call center and office of emergency services for Preston County, WV.

Construction materials consisted of precast concrete sandwich panels, steel joists and metal roof deck.

Project Owner: Preston County Commission

Contact Person: Craig Jennings

Contact Phone: (304) 329-1805

Professional Services End Date:

June 2010

Construction Completion Date:

Winter 2010



BURNSVILLE I-79 REST AREAS

Burnsville, West Virginia



The rest areas consist of three buildings, the rest area building, the vending building and the maintenance building. Each of the buildings was constructed with a local West Virginia stone façade.

The existing rest area buildings were demolished and replaced with these new state-of-the-art facilities.



The main lobby framing consists of a tube steel beam, glulam beams and timber decking.



ROBINSON GRAND THEATRE RESTORATION

Clarksburg, West Virginia



This early 1900's structure was devastated by fire and partially re-built in 1939. The front portion of the building was salvaged, and the rear of the auditorium and stagehouse were reconstructed. This structure is listed on the National Register of Historic

Additional framing and reinforcing of the existing structure was installed below the ballroom on the second floor to comply with current building codes.



The design included a large two-story addition to the side to provide dressing rooms for performers on the 1st floor and conference space on the 2nd floor. Additional structural modifications and additions were included for accessibility and egress.



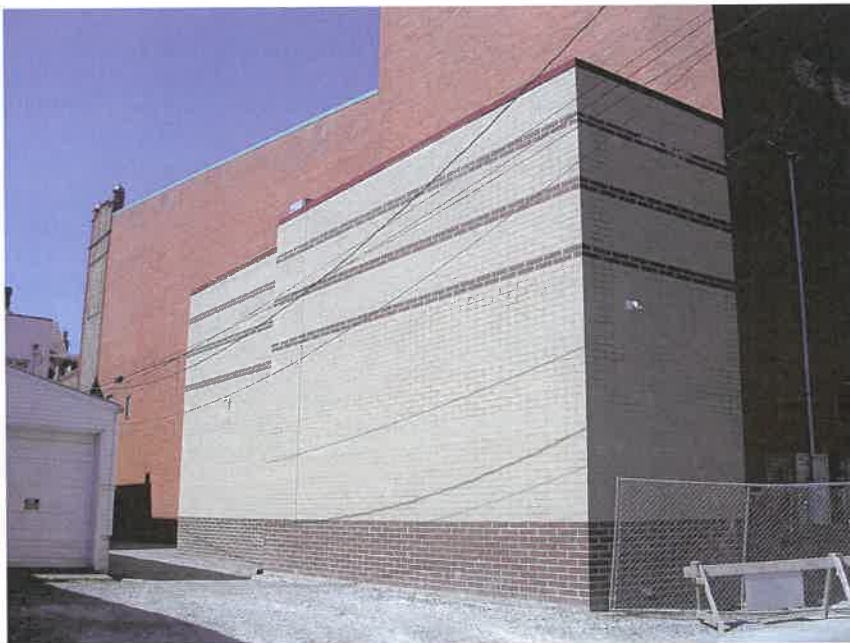
ROBINSON GRAND THEATRE RESTORATION AND ADDITIONS

Clarksburg, West Virginia



This early 1900's structure was devastated by fire and partially re-built in 1939. The front portion of the building was salvaged, and the rear of the auditorium and stage-house were reconstructed. This structure is listed on the National Register of Historic Places.

The design included a large two-story addition to the side to provide dressing rooms for performers on the 1st floor and conference space on the 2nd floor. On the other side of the original building was another two-story addition with a stair tower and electrical rooms. Both additions were supported on deep foundations and grade beam with structural slabs.



Carol A. Stevens, PE, F.ASCE

Structural Engineer



EDUCATION

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

PROFESSIONAL REGISTRATION

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

BACKGROUND SUMMARY

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

PROFESSIONAL ASSOCIATIONS

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

EXPERIENCE

West Virginia, Preston 911 Center: Structural design of new 6200 SF 911 call center and office of emergency services.

West Virginia, Kanawha County Schools: Structural design of additions to George Washington High School, including 3-story classroom addition, new commons area and auxiliary gymnasium.

West Virginia, Kanawha County Schools: Structural design of auxiliary gymnasium additions to Sissonville, Herbert Hoover, South Charleston and Nitro High Schools.

West Virginia, Upshur County Courthouse: Designed renovations to 3-story building addition, renovations to existing 1899 building main entrance and dome structure.

West Virginia, Eastern West Virginia Regional Airport: Designed foundations and structural steel framing for new 2-story terminal building.

West Virginia, Pocahontas Wellness and Community Center: Designed foundations for pre-engineered metal building and conventional framing for entrance to new facility.

West Virginia, Covenant House: Structural design of new 3-story, 13,700 SF steel frame and light-gauge steel roof truss building.

West Virginia, Twin Falls Resort State Park Addition: Structural design for new 3-story, 36,600 SF expansion to existing lodge facility, including conference rooms and new indoor pool.

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

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

PREVIOUS EXPERIENCE

West Virginia, Sissonville Branch Library: Performed structural design of new 6,700 SF branch library for Kanawha County.

West Virginia, Morrow Library at Marshall University: Performed structural evaluation of portion of existing library floor that was exhibiting damage and found that floor was severely overstressed. Floor was unloaded and repairs made.

West Virginia, Wise Library at West Virginia University: Performed structural evaluation of existing stack system for renovations to main library.

West Virginia, Upshur County Courthouse Annex: Performed structural evaluation and design for repairs to existing 3-story steel framed multi-story Annex addition.

West Virginia, Johnson Ave Professional Building: Structural design of new 9,400 SF steel framed office building.

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

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

Pennsylvania, Metropolitan Edison Company, Headquarters: New 80,000 SF two-story office addition to existing complex.

Pennsylvania, Defense Distribution Region East: Structural engineering and design for a 33,000 SF Hazardous Materials Storage Warehouse.

Pennsylvania, Engel Worldwide: Steel framing and foundations for new 12,000 SF two-story office building; design of crane beams and columns for adjacent 60,000 SF crane building.

Maryland, Columbia 100: Design of structural steel framing for new two-story 43,000 SF office building.

Pennsylvania, York Federal Savings and Loan Association/New Service Corporation: Design of steel framing, reinforced concrete retaining wall and foundations for new 14,400 SF two-story office building.

Pennsylvania, Glatfelter Insurance: Design of steel framing and foundations for new 30,200 SF building.



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

West Virginia Schools for the Deaf and the Blind

**GENERAL CAMPUS SITE
UPGRADES & RENOVATIONS**

**REFERENCES
WYK's REPEAT CLIENTELE**



WYK ASSOCIATES, INC.
ARCHITECTURE · PLANNING

References

WYK Associates, Inc.

Geoff Marshall, CHFM, CHC
Vice-President of Support Services
WVU Medicine | United Hospital Center, Inc.
327 Medical Park Drive
Bridgeport, WV 26330
681-342-1220

Ian McAra
Operations Manager
Robinson Grand PAC - City of Clarksburg
444 West Pike Street
Clarksburg, WV 26301
304-624-1500

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

Martin Howe, ICMA - CM
(Former, City Manager - Clarksburg, WV)
President - Community Development Corporation - MVB Bank
51 Donahue Avenue, Suite 115
Morgantown, WV 26505
304-292-9350

Jeff Landau
President
Landau Building Company
4377 William Flynn Highway
Allison Park, PA 15101
724-935-8800

Loria Cavallo
Assistant Principal, St. Mary's Catholic Grade School
107 East Pike Street
Clarksbug, WV 26301
304-622-9831

Teresa Bolyard
Office Manager
Pinewood Medical Center
104 North Pike Street
Grafton, WV 26354
304-265-1350

Vicki Huffman
Principal, Johnson Elementary School
531 Johnson Avenue
Bridgeport, WV 26301
304-326-7109

Joshua Brown
Executive Director
Health Access, Inc.
489 Washington Avenue
Clarksburg, WV 26301
304-622-2708

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

Matthew Lawson- Baker
Managing Partner, Armory Pharmaceutical, Inc.
1 Armory Road
Buckhannon, WV 26201
202-569-1279

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

Reta Griffith
(Former, Pocahontas County Commissioner)
Advocate, Family Refuge Center
213 Coleman Drive Suite B
Lewisburg, WV 24901
304-645-6334

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

Tim Johnson
Director of Admin & Support Services
Pendleton Co. Schools
58 Walnut Street
Franklin, WV 26807
304-358-2207 (ext 123)

Beau Henderson
President, City Construction Company
284 Factory Street
Clarksburg, WV 26301
304-623-2573



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

WYK Repeat Clientele

WYK Associates, Inc.

Amos Carvelli Funeral Home
ARC of Harrison County
Arnett Carbis Toothman (formerly Toothman & Rice)
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
Davis Health Systems (Davis Memorial Hospital)
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
Highland Clarksburg Hospital
Health Access, Inc.
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
Salem International University
Stockmeier Urethanes
Taylor County Commission
Town of Addison (Webster Springs)
United Hospital Center
United Summit Center
Upshur County Commission
Vienna Public Library
Webster County EDA
West Union Bank
World Vision



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

West Virginia Schools for the Deaf and the Blind

**GENERAL CAMPUS SITE
UPGRADES & RENOVATIONS**

TESTIMONIALS



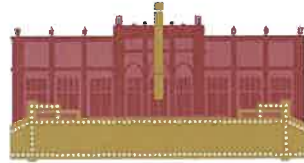
To Whom it May Concern,

The Robinson Grand Performing Arts Center is a historic performance and event facility, with roots dating back to initial construction in 1913. For over 100 years, our facility has provided the North Central West Virginia region with arts and entertainment events, along with facility rentals for social gatherings of all types. Throughout the 1980s, 1990s, and early 2000s, the Robinson Grand experienced a decline in business activity and upkeep, which ultimately led to its permanent closure in 2004.

For many years our regional community and the City of Clarksburg had dreams of how this facility could be renovated, preserved, and functionally brought into the 21st century. Those dreams became a reality in 2014, when the City of Clarksburg purchased the facility and partnered with WYK Associates, Inc. in the consulting, planning, and ultimate renovation/construction over the following years.

WYK's outstanding team, under the direction of James Swiger, led our renovation/construction effort through meticulous historical research, numerous site surveys, and a turn-key plan that involved expert consultants. Work began on the facility in early 2017 and was completed by our Grand Opening on October 20, 2018. We have now been in full operation for just over a year and couldn't be more pleased with the outcome of this project.

WYK's scope involved a myriad of aspects and requirements, which provided functionality for the facility, but also allowed our project to receive New Market and Historical tax credits. These items included restoration and preservation of the historical structures, as well as the design of new buildings to seamlessly integrate into our existing facility and complete ADA accessibility. Additionally, mechanical, fire, audio/visual, and automation systems were completely updated. James and his team were here every step of the way, even going above and beyond their contractual obligations to ensure the best design and implementation.



ROBINSON GRAND

◊ PERFORMING ARTS CENTER ◊

The Robinson Grand was met with much excitement and awe from the regional community upon completion. In addition, the project has received numerous awards. Most recently it won the following:

- 2019 Preservation Alliance of WV Downtown Preservation Award
- 2019 AIAWV Honor Award for Excellence in Architecture & Historic Preservation
- 2019 AIAWV Craftsmanship Award for Excellence in Architectural Detail & Craftsmanship for the brick sculptures in the new West Addition facade
- 2018 Associated Builders and Contractors, Inc. WV Chapter award for Excellence in Construction for Historical Renovation
- 2019 Outstanding Community Impact Award for The Community Affordable Housing Equity Corp. (CAHEC)

I would highly recommend the services of WYK Associates, Inc. for your next project. They are not only skilled and professional, but also provide a personal service that is hard to find at many larger firms. My contact information is listed on the footer below. Please don't hesitate to reach-out to me directly for further information on our beautiful facility or how WYK played an instrumental role in our re-birth.

Sincerely,

A handwritten signature in black ink that reads "Ryan W. Tolley". The signature is fluid and cursive.

Ryan W. Tolley
Executive Director
Robinson Grand Performing Arts Center



ARMORY PHARMACEUTICAL, INC
1 ARMORY ROAD
BUCKHANNON, WV 26201

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

To Whom It May Concern:

Armory Pharmaceutical, Inc. hired WYK to design, bid, and oversee construction on a 25,000 s.f. facility with many unique needs. Our project is complex and required patience and understanding as scope and timeline changed. Throughout the process, we could count on WYK to meet every deadline with professionalism and expertise.

Our facility is a medical marijuana processing facility which had a complicated permit process. James Swiger and his team worked closely with us to submit pertinent information that allowed us to be granted the permit necessary. In addition, they worked diligently to be the first to submit a facility design of this nature to the WV State Fire Marshall and we intend to meet our goal of being first to market.

This unique project has a laboratory setting along with creating a second floor within the space as a mechanical mezzanine. There are eight grow rooms with very specific needs for lighting, humidity control, ventilation, and security. WYK's design was thoughtful, purposeful, and met each need beautifully. I am pleased to recommend WYK Associates, Inc. and James Swiger for any project. I would be happy to elaborate about our experience. Please feel free to contact me with any questions.

Sincerely,

Matt Lawson-Baker
Principal Partner
Armory Pharmaceutical, Inc

Pinewood Medical Center

401 North Pike Street

Grafton, WV 26354

Phone / 304-265-1350

Fax / 304-265-0295

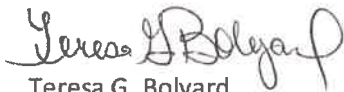
May 10, 2021

To Whom It May Concern:

I am pleased to write this letter of recommendation for James B. Swiger of WYK Associates. I have had the pleasure of working with James on a multi-phase renovation project at the health care facility that I manage. During that time I have always found James to be very knowledgeable, competent and motivated. James is very professional, punctual, organized, efficient, and shows commitment to the organization he is representing.

James' experience with design is well proven. The expansion and renovation project was well received within the community. I strongly endorse Mr. Swiger without any reservations. Please feel free to contact me if you have any questions or would like any additional information.

Sincerely,



Teresa G. Bolyard

Clinic Manager

Adam Michael Rowh, CLU*

Managing Director

adamrowh.nm.com

adam.rowh@nm.com

99 Cambridge Pl

Bridgeport, WV 26330

P 304.624.5400 | C 304.669.8858

F 304.624.6383

June 1, 2021

To Whom It May Concern:

It has been a pleasure knowing and working with WYK on recent renovations to our new office. These renovations included new wall partitions, adjustments to respective ceiling and floor systems, updates to interior finishes, and ADA upgrades. They were very knowledgeable and informative regarding local code regulations and compliance. They were also very professional, experienced and detailed. The final project design met the needs of our company, the requirements of local and state building codes and was within our target budget.

Based on my personal experience working with WYK, I would highly recommend them to anyone looking for quality architectural design and oversight of work. I look forward to working with them again in the future.

Please feel free to contact me if you have any questions or if you would like any additional information.

Sincerely,



Adam Rowh, CLU
Managing Director



Tom Whaling, President
West Union Bank
212 Main Street
West Union, WV 26456

Re: WYK Associates, Inc. Recommendation

Dear James:

At its deepest roots banking is all about relationships. It matters with every facet of what we do daily, from cashing checks, to making loans, to adding value back to our stakeholders. The relationship we developed and fostered with WYK exceeded our expectations with their work designing three West Union Bank branches, as well as recently renovating all five of our banks' teller lines for added security between the lobby and cashiers. We are very pleased with the solutions you came up with.

WYK clearly outlined each phase of the projects. They communicated clearly and frequently throughout the projects and we always felt confident in the team they assembled. WYK was reliable and incredibly easy to work with. Their expertise was obvious from the first design meeting and remained so throughout the full construction of each project.

We would use WYK for any architectural needs that arise at any of the West Union Bank branches and we highly recommend WYK for any project. They have been a trusted bank partner and we look forward to working with them again.

If you have any questions pertaining to WYK, please do not hesitate to call me at 304-873-2361

Sincerely,

A handwritten signature in blue ink that reads 'Tom Whaling'.

Tom Whaling
President
West Union Bank



West Union • Salem • Pennsboro • Harrisville • Clarksburg

1-304-873-2361

P.O. BOX 305 WEST UNION, WV 26456





Health Access Inc. Free & Charitable Clinic

PRIMARY MEDICAL CARE, PRESCRIPTION
MEDICATIONS AND REFERRAL SERVICES
FOR UNINSURED AND UNDERINSURED ADULTS
IN HARRISON AND DODDRIDGE COUNTIES

May 12, 2021

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 hired WYK Associates, Inc. to design, plan and manage a project to create new space within the free clinic at 489 Washington Avenue in Clarksburg West Virginia to allow the clinic to expand and provide onsite dental services. Included in this project were two state of the art dental operatory rooms, dental x-ray space, electrical & mechanical room, new HVAC system, a new kitchen/break room, handicapped restroom and added storage room as well as an expansive outdoor patio area.

From the outset, WYK Associates exhibited great attention to the details of our operation as our clinical operations continued throughout the construction of the dental clinic spaces. WYK led every aspect of project beginning with inviting several top rated contracting companies to bid on the job. Managing the construction phase of the project and providing bi-weekly updates with the contractors and our clinic leadership kept this project on track and moving forward. WYK Associates worked to keep this project within budget and it was completed on time. With total project costs of just over five hundred thousand dollars the finished project has provided a first class dental clinic that will serve hundreds of patients for years to come.

This project was our third experience in working with WYK Associates, Inc. having used the firm for projects in 2010 and again in 2014. Please know that Health Access Inc. has been delighted with the process working with WYK Associates in this project. 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 state of the art dental space a reality at Health Access, Inc. free clinic.

Sincerely,


James A. Harris, Executive Director



United Way
Partner Agency



489 Washington Ave · Clarksburg, WV 26301

Phone: (304) 622-2708 · Fax (304) 623-9302 · HealthAccessInc.org

May 14, 2021

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

Dear Mr. Swiger,

WYK and I have worked together on two projects. One was the renovation/maximization of an older building for commercial office space. The other was a major healthcare addition.

Doak, Cuppett & Poling was a growing CPA firm in Clarksburg. As the firm grew, imagination was needed to provide space for additional staff, conference rooms and related office needs. This was accomplished within the confines of an existing older building.

The second project was for Davis Medical Center in Elkins. An 80,000 square foot addition was added to the 165,000 square foot existing hospital. The new two and three story additions housed a new entrance and lobby, day surgery and physicians' offices, exam rooms, loading dock and required ancillary spaces. While the addition was all new construction, connecting to the existing hospital which had 1970 ceiling heights with new codes requiring higher ceilings and aligning property grades for consistent entrances was extremely challenging. Also, as part of this project, WYK renovated 10,000 square feet within the existing hospital for a new phlebotomy lab and the tie-in points from existing to new construction; creating seamless transitions.

In both projects WYK was very creative, professional, and flexible in their design approach. I recommend using WYK as your architect for your next building / renovation needs.

Sincerely,



Mark Doak, CPA
Former Partner, Doak, Cuppett & Poling, CPA
Former Administrator – Davis Medical Center



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

P.O. Box 577
643 Route 20 South Road
Buckhannon, WV 26201



Phone: 304-472-5595
Fax: 304-472-5594
License #: WV026530

James B. Swiger, AIA, NCARB, LEED AP BD+C, CHC
President/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 recommending WYK Associates, Inc.

High Point Construction Group has performed construction services on several jobs that WYK was the architect on for more than a dozen years. We have found that both our companies have a "team approach" to projects which has always led to stellar results for our clients. We have meticulous project management and take our commitments to our clients very seriously. It is refreshing to work with an architectural firm that shares those same values.

WYK Associates are true professionals. They bring a high level of expertise to every project and are able to work seamlessly with clients and contractors alike. It is this clear communication, in depth knowledge, prompt response time and reliability that allow our partnership to result in consistently successful projects.

We have worked with WYK on multiple projects over the years including a complex project involving a custom corner post elevator, shaft and pit being constructed within the confines of an existing stair tower, with inclusion of a new egress stair system in the historic Pocahontas County Courthouse. Other projects we have worked together on required a high level of detail as well; such as medical facilities for the United Hospital Center Eye Center, Bridgeport Express Care Expansion, Weston Medical Complex, Salem Family Medicine Renovations and the Pharmacy Lab Renovations at St. Joseph's Hospital in Buckhannon.

We look forward to continued partnerships with WYK Associates, Inc. and recommend their work for any project of any size.

Sincerely,

A handwritten signature in black ink that reads "Timothy B. Critchfield".

Timothy B. Critchfield
Member Manager

**FLINT CONSTRUCTION
COMPANY, INC.**

COMMERCIAL & INDUSTRIAL CONTRACTORS

Since 1956
WV021938
P.O. BOX 146
GASSAWAY, WV 26624

June 1, 2021

Rob Flint, President

Flint Construction Co., Inc.

74 South State Street

Gassaway WV 26624

Re: WYK Associates, Inc.

Dear Sir/Madam:

I am writing this letter to recommend WYK Associates Inc.. Flint Construction and WYK have a history of partnering on successful projects going back more than thirty years. A few of the projects we have worked on together include the Information Manufacturing Corporation and Multi-Tenant Buildings both located in Cowen, WV; Federal Aviation Administration office at North Central West Virginia Airport, Bank of Gassaway (Now Premier Bank) in Flatwoods, and a field house addition at Robert L Bland Middle School, just to name a few.

Flint Construction has been in business for 65 years. We are well versed in commercial construction and know what it takes to ensure successful outcomes. The team at WYK has a relationship-focused approach that builds a bridge between owner and contractor. Their ability to communicate about the project to clients, consultants, and us, the contractor, makes the construction side run smoothly and allows projects to be completed on time and on budget.

WYK also expects and demands high quality workmanship, which is a credit to their commitment to their client and a sign of them taking pride in their work. WYK has also impressed us with their flexibility when unexpected changes occur on projects. Once again, their expertise and clear communication, bring about the best possible outcomes. WYK was the first architect we have worked with that allowed submittals to be submitted electronically as well as other project paperwork such as pay applications. Since then, it is common throughout the profession. This is a testament to them always thinking outside the box to streamline and make things more efficient on everyone's behalf.

We are always happy to partner with WYK Associates on projects and they are our first phone call when a design/build opportunities arise.

Please contact me if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads "Rob Flint". The signature is written in a cursive, flowing style.

Rob Flint, President

Flint Construction Co., Inc.

(304) 364-5555



HUFFMAN CORPORATION

General Contractors - Construction Managers

415 A BENEDUM DR.
BRIDGEPORT, WV 26330

TELEPHONE
304-842-8500

May 28, 2021

Dear Potential WYK Client,

Huffman Corporation and WYK Associates, Inc. have worked on a multitude of projects over several years. The Immaculate Conception Parish Center, Renovations to Dr. DeMarco's Office Suite for UHC, additions and renovations to the Clarksburg Treatment Center, City of Clarksburg Police Substation, Physical Therapy Suite for UHC, Phase I of the Gabor Folk Life Center at FSU, renovations to all five West Union Bank locations and many others are just a few over the past 15 years. We work with many architects throughout the region and have to say that WYK pays the most attention to detail and is very particular about the craftsmanship of work during construction. This shows they care about the end product for their clients and speaks volumes for their integrity of building and maintaining a solid reputation.

We have always found WYK good to work with and we know they continually have their client's best interest at heart. WYK is also very philanthropic within the community by the giving of their time and talents. This indicates the passion and leadership the firm has lived by for decades.

We are always happy to be the contractor on WYK's projects and we always welcome opportunities to work with them when given the chance. I recommend them without reservation for your next project.

You may contact me if you have any questions regarding our experience with WYK Associates, Inc.

Respectfully,

A handwritten signature in blue ink that reads 'Wayne E. Huffman'.

Wayne E. Huffman, President
Huffman Corporation

City Construction Company, Inc. *West Virginia Proud Since 1965*

GENERAL CONTRACTING • REMODELING • COMMERCIAL • CITYCONSTRUCTIONCO@CCCWV.US
284 FACTORY STREET - SUITE 101, CLARKSBURG, WEST VIRGINIA 26301 • PHONE 304-623-2573 • FAX 304-326-2069

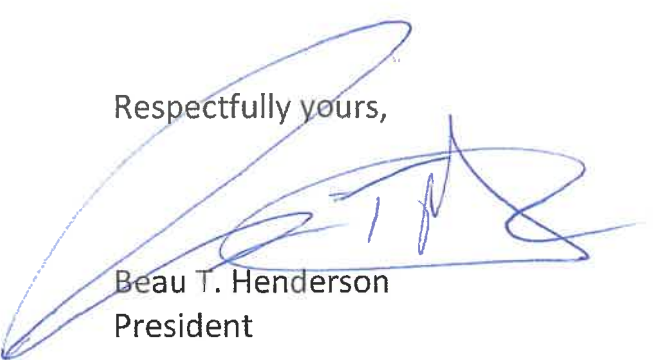
May 28, 2021

Re: WYK Associates, Inc.

To Whom It May Concern:

City Construction Company Inc. has worked with WYK Associates, Inc. for decades on multiple projects of various sizes. From \$500,000 to \$7 million each project is perfected by the team of WYK Associates, Inc. for accuracy and details. Our requests for questions are answered on a timely basis and in completeness. We always look forward to working with WYK Associates on any and all projects that we execute together.

Respectfully yours,



Beau T. Henderson
President

246 Business Park Drive
Fairmont, WV 26554



Telephone: 304-598-2285

Website: www.veritaswv.com
Email: bid@veritaswv.com

May 18, 2021

Re: WYK Associates, Inc

To Whom It May Concern,

We have worked with WYK Associates on a variety of projects of numerous sizes over the past 15 years. We have always found them to be easy to work with and very responsive to any situation that may arise onsite. This is extremely important as a contractor that our concerns are addressed as time is money.

They are "TRUE" mediators between the owner and contractor which ultimately leads to a more successful and relationship-built project. Another quality WYK brings to each project is the understanding and awareness of unforeseen condition in projects. Their direct approach with using contingencies allows us as a contractor to be open about unforeseen items discovered as the project is completed. In addition, we feel this makes for a better bidding process and more accurate cost estimate for the owners which allows for more open communication.

It's the little things they do above which leads to more communication and better projects. I would highly recommend WYK Associates and staff for any size project!

All Best,



Samuel Proctor
President

Veritas Contracting, LLC
sproctor@veritaswv.com
office: 304-598-2285
cell: 304-826-7071

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



Webster County Economic Development Authority

139 Baker Street • Webster Springs, WV 26288 • Phone: (304) 847-2145
Email: wcda@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,

A handwritten signature in cursive script that reads "Geary Weir".

Geary Weir
Executive Director



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,

A handwritten signature in cursive script that reads "Emma Clarke".

Emma Clarke
Finance Officer



LANDAU BUILDING COMPANY
GENERAL CONTRACTOR

9855 Rinaman Road • Wexford, PA 15090
(724) 935-8800 • fax: (724) 935-6510
www.landau-bldg.com

To Whom It May Concern:

We have had the pleasure of working with WYK Associates, Inc. on multiple projects spanning more than a decade. We pride ourselves on exceptional contracting services which can only be achieved through collaboration with the right people. James Swiger (President) and his team have proven repeatedly, that they are reliable, responsive, and experts in their field. It is very evident they take pride in their work.

We rely on architects to go beyond design and act as intermediaries between the owner and the contractor. WYK builds strong relationships with owners that allows for a smoother process for everyone. WYK is quick to respond to any unexpected changes that pop up on projects with direct and innovative solutions.

We have partnered with WYK on multiple medical facility jobs for WVU Medicine/United Hospital Center including the enclosure of the front main entrance bridge to the hospital and a 20,000 S.F. Renovation to the fourth floor of the Physician's Office Building creating new diagnostic suites for Audiology, Endoscopy and Gastroenterology. We have also had successful partnerships outside of medical facilities on a variety of project. We are always looking for opportunities to partner with WYK. We look forward to continuing working with them in the future!

Sincerely,

Jeffrey C. Landau
President
Landau Building Company/Marks-Landau Construction
9855 Rinaman Road
Wexford, PA 15090
(724) 935-8800



"Five Generations Serving the Area for Over One Hundred Years"





OFFICE OF
CITY MANAGER

CITY OF CLARKSBURG

WEST VIRGINIA

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

Nardelli Audiology, LLC

111 Steele St. Bridgeport, WV 26330
Phone: (304) 842-9428 Fax: (304) 842-6775
Melissa Carnes Rose, AuD
Doctor of Audiology

Dear Mr. Swiger:

It is my pleasure to offer an unreserved recommendation of James Swiger and the team at WYK Associates, Inc. As an audiologist, my needs regarding space are technical and of the utmost importance to my practice and the privacy of my patients. WYK Associates were able to clearly understand my vision, provide a design that met my many complex needs, and exceeded my expectations.

James' breadth of knowledge and depth of experience working with medical facility design allowed him to take into consideration the importance of lighting, soundproofing, and ADA compliance. In every detail, WYK was one step ahead. My office build-out was incredibly well received by staff and patients alike. Please feel free to contact me for any additional information regarding my enthusiastic recommendation.

Melissa Rose, AuD

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,

A handwritten signature in blue ink, appearing to read 'Richard M. Roach', with a long horizontal flourish extending to the right.

Richard M. Roach, Mayor

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

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

**LETTER OF RECOMMENDATION
WYK ASSOCIATES**

To Whom it May Concern:

This letter is to recommend WYK Associates, Inc. as an architect for projects of any size or complexity. As the former Chief Executive Officer and President of Highland-Clarksburg Hospital (now retired), I had the distinct pleasure of working with WYK on multiple projects through many phases.

Highland-Clarksburg Hospital (former United Hospital Center Building) is a mental health hospital dedicated to providing the best care for persons with behavioral and mental health disorders. As such, our needs were specific and technical. WYK understood the complexity of each project and provided innovative and intuitive designs that met our needs and exceeded our expectations. WYK was continually willing to meet with the Owner, General Contractor, OHFLAC (State regulatory Agency), the WV State Fire Marshal and USDA (funding source) throughout the design process. They worked collaboratively with the hospital's general contractor, R.C. General Contractors, Inc. to keep the projects on time and within budget.

WYK designed an 8,900 S.F. area for Central Supply for the Veteran's Administration Hospital (leasing space from our facility). This project had to meet many strict guidelines set forth by the V.A. Hospital for security and sterilization. WYK also met with the WV State Fire Marshal for exiting requirements, as much of the floor was unoccupied.

Other projects I worked with WYK on were in various phases of designs. One was the conversion of two floors, approximately 33,000 S.F. being converted to rehab patient rooms, another wing of standard patient rooms of approximately 14,000 S.F. and the conversion of a former pediatrics wing into a daycare center, approximately 7,800 S.F. The most multifaceted project we were considering was completely gutting a 10,000 S.F. space, removing columns, raising the roof 8 feet and adding long span structure within the former X-Ray Department and converting it to a gymnasium. Although this project did not come to fruition, WYK worked through the design process and came up with viable solutions. All the projects listed were reviewed and approved by WV State Fire Marshal and/or OHFLAC and USDA at the time of my retirement.

I could always count on WYK's professionalism and timely submission of their work. They provided solutions to any unexpected issues that arose, and worked seamlessly with the hospital, the contractor and subcontractors during design and construction.

I offer my highest recommendation of WYK Associates, Inc. I am happy to elaborate on my experience. Feel free to contact me with any additional questions at 304.552.8135.

Sincerely,



Michael W. Casdorff

SMS



St. Mary's School
107 East Pike Street
Clarksburg, WV 26301
(304) 622-9831
www.stmaryswv.org

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

The mission of St. Mary's Central School is to nurture the spirit, challenge the mind, and strengthen the heart of each student who enters her doors. Through the lens of the teachings of the Roman Catholic Church, St. Mary's cultivates a Christ-centered environment in which we nurture our children, families, and community so that we might see the face of Christ in each other.



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.

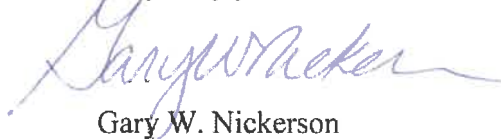
Specifically, from day one, WYK performed oversight of the project, serving as an important liaison between SKB, the S&J's building committee and the construction firm. Initially, WYK Associates, Inc. provided a peer review of SKB's design and construction documents prior to the documents being released 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, .

A handwritten signature in blue ink that reads "Gary W. Nickerson". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Gary W. Nickerson

GWN
7133013.1



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,

Dr. Joseph Mace, Superintendent
Lewis County Board of Education



WYK ASSOCIATES, INC.
ARCHITECTURE · PLANNING

205 Washington Avenue
Clarksburg, West Virginia 26301
Phone: (304) 624-6326 Fax: (304) 623-9858
E-mail: wyk@wykarchitects.com

TO: Department of Administration
Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

July 12, 2022	Job # 2200000003
ATT: Joseph E. Hager, III, Buyer	
RE: WVSDDB General Campus	
Site Upgrades and Renovations	

We Are Sending You

Shop Drawings

Copy of Letter



Attached



Prints



Change Order



Under separate cover via _____ the following items:



Sketch



Submittals



Samples



via UPS



Specifications

Copies	Date	No	Description
1	07/12/22	Hard Copy	Expression of Interest for General Campus Site Upgrades and Renovations at the WVSDDB
3		CDs	Solicitation No. CEOI 0403 DBS2200000003 (PDF Print Ready double-sided)
1			Designated Contact Sheet

These Are Transmitted

as checked below:

For Approval

For Your Use

As Requested

For Review and Comment

FOR BIDS DUE _____

Furnish as Submitted

Furnish as Corrected

Revise and Resubmit



Resubmittal Not Required

Rejected

Resubmit



PRINTS RETURNED AFTER LOAN TO US

___ Copies for Approval

___ Copies for Distribution

___ Corrected Prints

Remarks

WYK Associates, Inc. thanks you for the opportunity to submit a proposal on this project. We look forward to the possibility of working with you in the near future.

COPY TO: file

SIGNED: James B. Swiger, AIA

If enclosures are not as noted, kindly notify us at once.

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.

(Name, Title) James B. Swiger, AIA / President
(Printed Name and Title) WYK Associates, Inc.
(Address) 205 Washington Ave, Clarksburg WV 26301
(Phone Number) / (Fax Number) 304.624.6326 / 304.623.9858 Fax
(email address) james@wykarchitects.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract 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/Contract 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.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

WYK Associates, Inc.
(Company)
James B. Swiger, AIA
(Authorized Signature) (Representative Name, Title)
James B. Swiger, AIA - President / Principal-in-Charge
(Printed Name and Title of Authorized Representative) (Date)
304.624.6326 / 304.623.9858 (Fax)
(Phone Number) (Fax Number)
james@wykarchitects.com
(Email Address)