

EXPRESSION OF INTEREST

for the

Division of Natural Resources Parks & Recreation - PEM Section

**TOMLINSON RUN STATE GROUP CAMP
BATHHOUSE REPLACEMENT**

10/17/17 10:15:55
HW Purchasing Division



WYK ASSOCIATES, INC.

ARCHITECTURE • PLANNING

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

HANCOCK COUNTY, WEST VIRGINIA



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

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JAMES B. SWIGER
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TOMLINSON RUN STATE GROUP CAMP BATHHOUSE REPLACEMENT

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WYK ASSOCIATES, INC.
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October 16, 2017

Ms. Brittany Ingraham
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305

Re: Tomlinson Run State Group Camp Bathhouse Replacement

Dear Ms. Ingraham:

WYK Associates, Inc. wishes to express a strong interest in providing design services for this exciting project! We have included on our team ZDS Engineering for Mechanical, Electrical and Plumbing Design; CAS Engineering for Structural Engineering; and GAI Consultants for Civil Engineering, all out of Charleston. WYK has a solid working relationship with these consultants and we have custom tailored the team to what we believe is the best team for the unique needs of your project. For 116 years we have been successful with focusing on architecture, which we are trained at and do best. We carefully select and utilize knowledgeable, experienced and trained consultants who specialize in their respective disciplines.

Our experience includes work on a wide variety of building types and projects of varying scopes and complexities. Examples of these are included in this Expression of Interest. WYK Associates, Inc. and its predecessors have provided architectural services in West Virginia since 1900. We believe that our knowledge and expertise and strong project team make our firm a sound choice for this endeavor.

Our design team has vast experience working within existing buildings with many build-outs in either new construction or complete gut and re-dos. Additionally, we have worked with upgrading many existing buildings to meet modern day codes while maintaining the original integrity of the structure.

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

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

Respectfully Submitted,

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



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

Identity · Project Philosophy · Project Management

www.wykarhitects.com



Our Identity

Who we are

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

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

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

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

Project Philosophy

Our process at work

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

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

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

Project Management

How we create excellence

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

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

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

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

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



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

Identity · Project Philosophy · Project Management

Architecture

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Architectural Designer
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Jordan Garland

Director, Business Development
& Marketing
jordan@wykarchitects.com

Summary

Established as a full service architecture firm in 1900, then named Edward J. Wood Architect, WYK Associates, Inc. has been located in Clarksburg for 115 years. Through innovative and thoughtful responses to the unique issues of each project, our goal is to create places that fit the needs and desires of those who use them.

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

Relevant Project Experience:

West Virginia Folklife Center,
Fairmont State University

Central Fire Station, Clarksburg, WV

Circleville School,
Pendleton County, West Virginia

Harrison Co. Courthouse,
Clarksburg, WV

Pocahontas County Courthouse,
Marlinton, WV

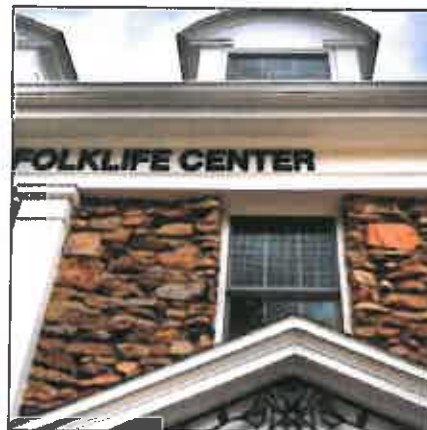
Barbour County Courthouse,
Phillippi, WV

Gassaway Depot,
Gassaway, WV

Morgantown Depot,
Morgantown, WV

Immaculate Conception Parish
Center, Clarksburg, WV

Jackson Square, Clarksburg, WV



West Virginia Folklife Center



Central Fire Station



Circleville School

Memberships





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

Identity • Project Philosophy • Project Management

Awards



2013 WV AIA MERTT AWARDS

ALL-ACHIEVEMENT IN
ARCHITECTURAL DESIGN

MIDDLE-INTERIORS

BOTTOM-UNBUILT

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

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



FSU-Interior Design
Fairmont, West Virginia

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



Shinnston Community Center
Shinnston, West Virginia
Size: 17,000 S.F.

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



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

Identity · Project Philosophy · Project Management

Awards



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

Information Manufacturing Corporation (I.M.C.)

Cowen, West Virginia

Size: 18,000 S.F.

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



2013 WV-AIA Merit Award for Design Excellence



West Union Bank - Newpointe

Clarksburg, West Virginia

Size: 9,000 S.F.

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

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.



2013 WV-AIA Merit Award for Design Excellence

“ ... named “Jackson Square” in honor of Stonewall Jackson ... the structure serves multiple functions and fits in nicely with the historic fabric of downtown.

-Architectural Leaders Magazine, v1 Spring 2011



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.



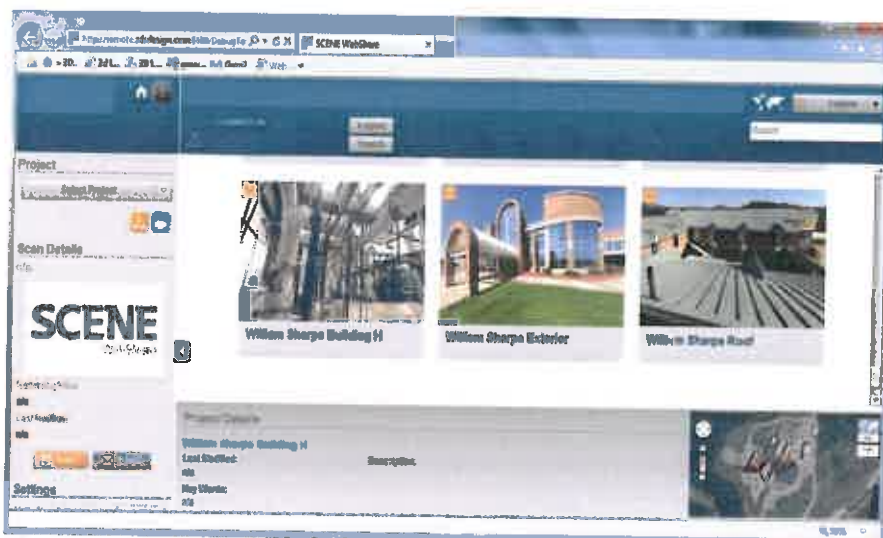
3D Laser Printing



Physical Model Preparation



Shinnston Community Center Physical Model



3D Modeling



3D Laser Scanning



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

115 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.

- 2017 — Construction begins on the Robinson Grand Performing Arts Center
- 2017 — Ribbon Cutting Ceremony held for Clarksburg Federal Credit Union
- 2016 — Upshur County Courthouse Roof and Chimney Restoration
- 2015 — WYK Associates, Inc. signs contract to renovate the Robinson Grand Theatre
- 2014 — WYK Associates, Inc. selected to renovate Rose Garden Theatre, formerly Robinson Grand Theatre
- 2012 — James Swiger becomes sole owner of WYK, now President and Principal-in-Charge
- 2011 — William E. Yoke, Jr. retires, James Swiger becomes President
- 2008 — James Swiger becomes Partner and Vice President
- 2005 — James Swiger returns as Project Architect
- 1996 — James Swiger becomes an Architectural Intern at WYK Associates, Inc.
- 1996 — Carleton Wood, Jr. retires; William E. Yoke, Jr. becomes President
- 1992 — Howard Kelley retires
- 1978 — WYK Architects, Inc. becomes WYK Associates, Inc.
- 1978 — Carleton Wood, Jr., William E. Yoke, Jr. and Howard Kelley form WYK Architects, Inc.
- 1973 — Whalen King Architects purchases W.H. Grant's firm
- 1971 — Carleton Wood, Jr. joins Whalen King Architects
- 1965 — William E. Yoke, Jr. is a summer college intern
- 1956 — William H. Grant, Jr. acquires firm
- 1949 — Carleton Wood, Jr. joins firm as apprentice
- 1939 — Carleton Wood selected to rebuild Robinson Grand Theatre
- 1927 — Carleton Wood designs Clarksburg Fire Station
- 1921 — Firm changes to E.J. Wood and Son Architects as Carleton Wood joins
- 1910 — Edward J. Wood commissioned Marion County Jail
- 1900 — Edward J. Wood starts architectural practice



WYK ASSOCIATES, INC.
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Publications

WYK Associates, Inc.

West Virginia Executive Magazine 2015 Young Guns Award Recipient

Written by Maggie Matsko | Photography by Tracy Toler on location at I-79 Technology Park

When asked what they want to be when they grow up, every young boy has big aspirations. Many dream at an early age of becoming a fireman, a professional wrestler or a police officer, and as they get older, those dreams tend to shift gears, leading to entirely different paths. James Swiger, the president of WYK Associates, Inc., is one of the few who have made a childhood dream into a life-long career.

When he was 7 years old, Swiger decided he wanted to become an architect. "When I was very young, my grandfather, the business manager of Salem College, took me to construction sites at the college," Swiger remembers. "He worked with architects on construction projects at Salem College and was always curious about construction. One day, he unrolled a set of blueprints for one of the buildings at the college. He pointed out to me that these drawings were the work of an architect. That's when I knew what I wanted to be."

Swiger had several jobs as a teenager that taught him about hard work, responsibility and repercussions. Like many other teenage boys, Swiger's first job was mowing grass in the summer for neighbors, shoveling snow in the winter and splitting firewood. In high school, he also worked part-time at the local dollar store, unloading the trucks when they came in, and he helped his neighbor, the caretaker of the local cemetery, by mowing grass and digging graves by hand.

"The most important thing I learned from those first jobs was responsibility," he says. "The longer we put off mowing the grass, the harder it was to mow the next time, and you could not delay the digging of a grave. I also learned that time marches on. You must get the work done in a timely fashion, or it will have an impact on others."

In 1996, all of those early lessons in hard work and responsibility paid off when he was given an internship with WYK Associates, Inc. In 2005, he returned to the

firm as a project architect then worked his way up to the top of the company, serving in the positions of project manager, vice president and now president and owner. "I guess you can call it serendipity," he says, "but to me, it was a calling."

Swiger credits most of his success to the guidance he received from his grandparents. When Swiger was 10 years old, his grandfather passed away, and Swiger's grandmother took over the responsibility of encouraging the young boy to pursue his dream of being an architect. "I would like to show my grandfather where I am now," Swiger says. "I found my calling in life for my career because of him, as he showed me my first set of blueprints and took the time to explain them to me."

Swiger also credits his grandparents for instilling in him the importance of community service. His grandfather was involved with the Shriners, Kiwanis, Lions Club, the YMCA board and the local chamber of commerce, and his grandmother, who owned a flower shop, made efforts through her small business to support her neighbors. Today, Swiger continues their legacy of service through multiple roles in the Clarksburg community. He is a member of the board of directors for the Kiwanis Club of Clarksburg, a board member and campaign chair for the United Way of Harrison County, a board member and education committee chair for the Harrison County Chamber of Commerce, a board member of Clarksburg Uptown and an advisory committee member for Salem International University's School of Business. He also holds memberships with the Salem Area Chamber of Commerce and the Clarksburg Elks Club.

"I believe in giving back to the community," he says of his many commitments to his hometown, "because the community is just that: a community. As we are all in this together, doesn't it make sense to make the place you call home the best it can be?"



What is your favorite...?

- Color – Blue
- Food – Steak
- Cartoon Character – Foghorn Leghorn
- Ice Cream – Cherry vanilla
- Animal – Dog
- App – Flashlight
- Midnight Snack – Apple
- TV Show – "American Pickers"
- Movie – "Caddyshack"
- Smell – Fresh-cut grass
- Sport Team – University of Tennessee Volunteers
- Car – 1972 Jaguar XKE
- Pet – German shepherd
- Place – Neyland Stadium in Knoxville, TN on gameday

Young
Guns
Class of 2015

TOMLINSON RUN STATE GROUP CAMP BATHHOUSE REPLACEMENT

Team Structure



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Project Team

ARCHITECTURE

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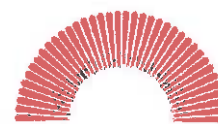
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ZDS

Design/Consulting Services

MECHANICAL • ELECTRICAL • PROGRAM QUALITY • ENERGY • COMMUNICATIONS



WYK ASSOCIATES, INC.
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**Tomlinson Run State Group Camp Bathhouse Replacement
PROJECTS**



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

VA Pool Bathhouse Renovation Clarksburg, West Virginia



VA Bathhouse

The interior of the existing bathhouse was renovated to bring the premises up to code, include accessibility upgrades, and to reuse as much of the existing mechanical systems as possible, improving on what was already there.

The scope of the project included adding handicap stalls and proper ADA sizing of bathrooms, installation of a new ventilation system, new room finishes, and modifications to the existing mechanical, electrical, plumbing, lighting, and other specialty systems.



Project Facts

Completed: 2013

Size: 8,400 s.f.

www.wykarchitects.com





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Webster Springs Depot Interior Renovation

Webster Springs, West Virginia

Tourist Destination Depot!

Small square footage, but just enough for influxes in tourism!

WYK Associates is providing architectural services for the Town of Addison for the Interior Renovations to the Webster Springs Depot. Designed as a hub for future trailhead connections heading to Spruce, West Virginia, this facility will also act as a hub for the surrounding campground as it gains popularity.

The intent of the design was to provide this depot with a more energy efficient shell and to finish the interior of the space. WYK added restrooms and a new office for this empty shell space. The Town of Addison has plans for this space to become a cafe or even a gift shop.

Attached to the existing double wythe brick walls is a new, fully-insulated wall. The existing floor received new insulation and vapor barrier.

A new furnace has been installed, along with new plumbing and lighting throughout.



Project Facts

Size: 730 sq ft

Completed: Under Construction

www.wykarchitects.com



WYK ASSOCIATES, INC.
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Gore Building Build-Out Clarksburg, West Virginia



Historic building to provide upscale living in uptown Clarksburg !

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



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

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

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



Project Facts

Size: 52,000 sq ft

Completed: Spring 2016

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Jackson Square Parking Facility Clarksburg, West Virginia

A Multi-Use Outdoor Space

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

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

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



Project Facts

Size: 57,000 sq ft

Completed: 2016

www.wykarchitects.com



Robert L Bland Middle School Field House Addition
Weston, West Virginia

WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING



Athletic Complex receives upgrades

Team spirit is apparent in Weston!

This facility is technically the field house for the middle school. However, it also doubles as the high school football team's locker room for practices throughout the season. The design challenge was to keep the middle school and high school locker rooms separated, yet allow for common storage areas.



The addition provided a spacious locker room for the middle school students, a large coach's office, and storage. Four skylights add an abundance of light into the space during the day, minimizing the need to have the lights on during routine practice hours. The lockers were raised on a concrete base, which doubles as a bench.

All of the ceilings and lights were replaced and upgraded throughout the entire facility, as well as bringing many areas up to modern code requirements.



The planning incorporated low maintenance, durable materials. Shower rooms were upgraded during these renovations, along with equipment storage. New sidewalks and fences were added during this phase of work to control exterior pedestrian circulation.

Project Facts

Size: 7,400 SF; 2,400 SF Add.

Completed: 2013

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Pressley Ridge Dormitories Clarksburg, West Virginia

Housing for local youth

Residential care for adolescents

These two housing facilities were designed for Kappa Sigma Pi of WV, who leases these properties to Pressley Ridge Schools of Northern West Virginia. One building houses male, and the other houses female, special needs students for long term residential care.

Each unit accommodates 10 to 12 students with 6 double bedrooms and a communal bathroom. A day room and training kitchen greet those entering the buildings. Additionally each unit provides office space and storage, three bedrooms and a separate bathroom for staff/counselors.

WYK also designed the two story kitchen /cafeteria/dormitory building in the heart of the campus. This new structure was needed due to overcrowding of the existing dining facility. It offers a state-of-the-art kitchen and an abundance of natural daylight which floods the dining hall. Construction was just completed in the Summer of 2009.

The design intent was to keep the buildings to a residential scale to help the residents have a "sense of home" in lieu of an institutional type structure. This was accomplished by the use of brick, pitched roofs, standard double hung windows and a covered porch placed at each end of the structures.



Project Facts

Size: 31,800 sq ft (total for all 3)

Completed: 2009

www.wykarchitects.com



WYK ASSOCIATES, INC.
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Shinnston Community Center

Shinnston, West Virginia



Award Winning Design for a Gateway to Small Town America

Welcoming residents and visitors alike

The Shinnston Community Center will stand sentinel at the entrance to the historic downtown area embracing Shinnston's rich heritage and history. The building will meet the needs of the city in the twenty first century.



This two story, 18,000 S.F. structure will house city government office on the upper floor along with a spacious council chambers doubling as a large conference area.

The first floor will feature a large banquet room capable of comfortably seating 375 persons, a commercial kitchen and a dedicated space for the city's senior citizen organization. A community meeting space is also designed into the plan. This facility will utilize low maintenance materials throughout.



Project Facts

Size: 17,800 sq ft

Completed: N/A

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Total Dental
Bridgeport, West Virginia

An “AHH” Inspiring building!

Open up and say “AHH”!

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

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

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



Project Facts
Size: 9,800 sq ft
Completed: 2014
www.wykarchitects.com





Peterson-Central Elementary School Outdoor Classroom Weston, West Virginia

WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING



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 PCFS. 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

Christie-Cutlip Office Complex

Charles Pointe, Harrison County, WV

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



A 21st century office complex design

**Easily accessible from major
highways!**

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

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

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



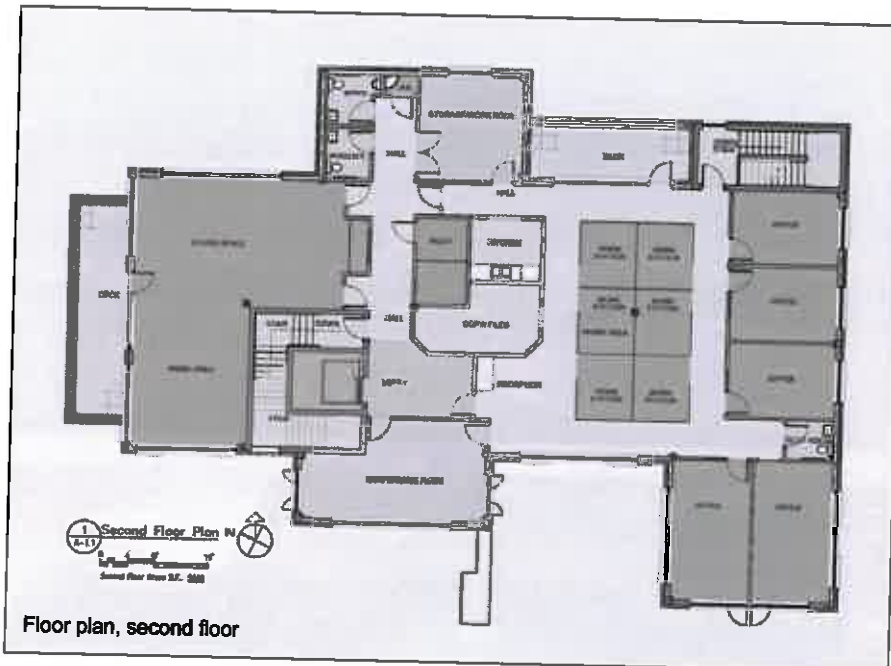


WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Christie-Cutlip Office Complex

Charles Pointe, Harrison County, WV

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

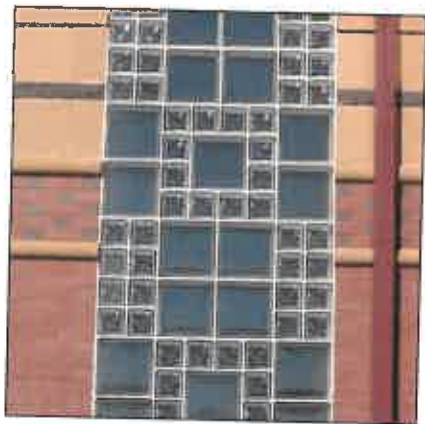


Project Facts

Phase One Completed: 2007
First Floor Build-Out: 2008
Size: 12,000 sq ft

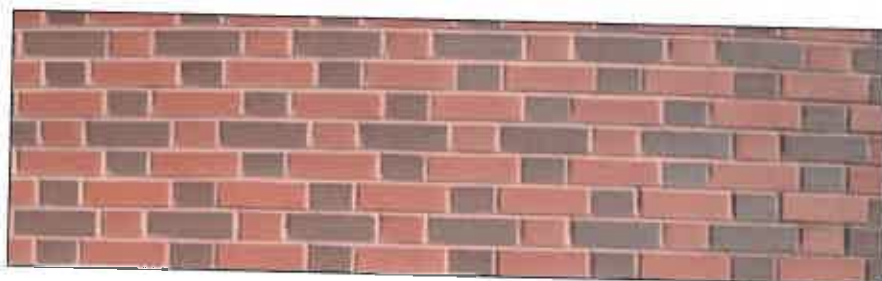
Dark tinted aluminum storefront windows provide views to the majestic surrounding hills and the arriving and departing aircraft.

These energy efficient windows provide contrast to the brick textures while reducing heat gain and glare within the offices. The large overhangs provide protection to the façade from the elements as well as reduce direct heat gain in summer months.



Project Links

www.wykarchitects.com
www.beldenbrick.com
www.marchwestin.com





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Fellowship Bible Church
Bridgeport, West Virginia

Preparing a Place to Worship

A unique approach saved time and funds and helped keep residential scale.

This Contemporary Church hired WYK Associates, Inc. to develop a program and schematic design to meet the church's growing needs.

Acoustics and quality sound systems were of utmost importance for this growing contemporary church. WYK carefully designed the ceiling and finishes to maximize acoustical performance.

The proposed addition added a very unique Worship Space to accommodate 350 persons. The support spaces include classroom renovations, offices, nurseries, and ADA restrooms. An elevator and gathering space are planned for phase 2. The space allocations in the existing building were also reconfigured to maximize its efficiency for use of space.

The site allows for the addition to be nestled into the side of the hill which allows for on-grade entrances at both the ground and first floor. The ground floor houses office and educational spaces as well as a large area for future expansion while the first floor houses the worship and youth activity functions



Before



Before

Project Facts

Size: 10,800 sq ft Addition

Size: 10,000 sq ft Renovation

Completed: Phase 1, 2013

www.wykarchitects.com



Team Profiles

James Swiger

www.wykarhitects.com > About WYK > Team



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

President/Principal-In-Charge

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

304-624-6326

304-677-3373 Cell

304-623-9858 Fax

www.wykarhitects.com

james@wykarhitects.com

Memberships



Vita

He is a Harrison County native involved with several community and professional organizations. James most recently was elected to the Harrison County Chamber of Commerce Board of Directors. He is an active member of the United Way of Harrison County, Inc., holding several different positions over the years.

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 Registrations

West Virginia
Ohio
Pennsylvania
Virginia
Maryland
National Council of Architects (#58982)

Honors and Awards

2015 Clarksburg Uptown Business Member of the Year

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

2014 & 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 Honored 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 in Clarksburg, WV (Co-Design Architect)

Professional Affiliations

American Institute of Architects

AIA - West Virginia

National Council of Architectural Registration Boards

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

USGBC-WV Chapter

League of Historic American Theatres

National Trust for Historic Preservation

NFPA - National Fire Protection Agency

WVSHE - Associate Member of West Virginia Society for Healthcare Engineering

Affiliate Member of Builders Supply Association of West Virginia

Civic Affiliations

Harrison County Economic Development Corporation

Clarksburg Uptown - Board of Directors

Salem International University- Advisory Committee to the School of Business

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

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

Kiwanis Club of Clarksburg
2008/2009 President
Board of Directors 2007 - Present

Kiwanis Division 3
2009/2010 Lieutenant Governor

Salem International University
Auxiliary

Member
Salem Area Chamber of Commerce
Past Board Member

West Virginia Kiwanis District - District 3 - Past Lieutenant Governor

Salem Elementary School Nature/Fitness Trail - Project Manager



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Team Profiles

Stephen Kelley

www.wykarchitects.com > About WYK > Team



Stephen M. Kelley **Associate AIA**

Senior Project Manager

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

304-624-6326

304-623-9858 Fax

www.wykarchitects.com

stephen@wykarchitects.com

Associated Memberships



Vita

While in college, Stephen worked two years for a construction company that focused mainly on roofing and masonry work of historic homes and buildings in the Philadelphia area. After graduation he took that experience and applied it to several projects at another local architecture firm, all the while completing his profession's required Intern Development Program. He is currently pursuing his professional license.

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

Education

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

Professional Affiliations

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

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

Civic Affiliations

Salem Area Chamber of Commerce -
Past Board Member

Harrison County Development
Authority - Past Board Member

Fort New Salem Foundation -
Current Board Member

Sperry-Davis VFW Post 9151
Quartermaster 2008 - Present

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

Sigma Mu Fraternity Alumni,
Mu Pi Chapter

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



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Team Profiles

Canon Fancher

www.wykarchitects.com > About WYK > Team



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

Designer

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

304-624-6326

304-623-9858 Fax

www.wykarchitects.com

canon@wykarchitects.com

Associated Memberships



Vita

Canon began his career at WYK Associates, Inc. in 2016. His background includes a Bachelor's of Science in Architecture with a minor in general business from Fairmont State University.

Currently pursuing a Masters in Architecture from Fairmont State, Canon is equipped to aid in all areas of a project, from design through completion, including scematic design, construction documents and specifications.

Having grown up in rural Appalachia, Canon understands the needs and desires of small communities, and has a desire to infuse modern, contextually sensitive, and sustainable designs into the projects he takes on.

Education

Bachelor of Science
in Architecture w/
Minor in General Business, 2013
Fairmont State University

Professional Affiliations

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

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

National Council of Architectural Registration Boards
(NCARB)

USGBC - LEED Green Associate

Volunteer Experience & Affiliations

United Way "Day of Action" - Annual Volunteer



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Team Profiles

Jordan Garland

www.wykarchitects.com > About WYK > Team



Jordan Garland
Director, Business
Development & Marketing

WYK Associates, Inc.
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304-624-6326 (Office)

304-669-2828 (Cell)

304-623-9858 Fax

www.wykarchitects.com

jordan@wykarchitects.com

Vita

Jordan began her career at WYK Associates, Inc. in the spring of 2015. A skilled communicator, she is responsible for WYK's business development and marketing. Her experience in lobbying, organization and public relations make it easy for her to connect—and stay connected.

With a Master's coursework in Public Policy and a Bachelor's Degree in International Studies, Jordan'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 planning firm in the Mountain State. Jordan is also a native to Harrison County.

Education

Coursework in Public Policy for M.A.
University of Maryland School of
Public Policy, 2013
College Park, MD

B.A. in International Studies,
Emphasis on the Americas
West Virginia University, 2006
Morgantown, WV

Universidad Internacional Menendez
Pelayo, Summer 2005
Santander, Spain

Professional Affiliations

Buckhannon-Upshur
Chamber of Commerce

Hardy County
Chamber of Commerce

Harrison County
Chamber of Commerce

Marion County
Chamber of Commerce

Morgantown
Chamber of Commerce

Randolph County
Chamber of Commerce

Women's Network Group
Marion County Chamber of Commerce

Chairperson
Young Leaders Forum
Executive Council on Diplomacy
2010 - 2012, Washington, DC

Volunteer Experience

2015 - 2018 Board of Directors,
Empowerment Through Employment

2017 Campaign Vice-Chair
United Way of Harrison County, Inc.

Graduate, Leadership Harrison 2016
Harrison County Chamber of Commerce

Cabinet Member
Chair for the Construction Division
2016 Capital Campaign
United Way of Harrison County, Inc.

Cabinet Member
Co-Chair for the Automotive Division
2015 Capital Campaign
United Way of Harrison County, Inc.

Member
Clarksburg League for Service
2013 - Present, Clarksburg, WV

Organizations

Alpha Phi Alumnae Association
West Virginia University
Alumnae Association

58 YRS

**SUPERIOR
CLIENT SERVICE**

111

**ENR TOP 500
DESIGN FIRMS**

100%

**EMPLOYEE
OWNED FIRM**



Streamlining Solutions

GAI is a 900+ person multi-disciplinary engineering, landscape architecture, planning, and environmental consulting firm with over 58 years of experience delivering innovative engineering solutions. Through engineering expertise and broad, deep knowledge of regulatory processes, we are *transforming ideas into reality* with solutions that make a real difference to our clients.

With an award-winning and respected professional reputation in multiple engineering, environmental, and technical practice areas, GAI distinguishes itself by our solid reputation of providing excellent customer service along with innovative yet practical solutions.

Our work in the following disciplines provides innovative and cost-saving solutions for clients in municipal, as well as energy, transportation, water, government, real estate, and industry.

Adding Value

- Floodplain management and FEMA permitting
- Hydrologic and hydraulic analyses
- Elevation certificates
- Foundation design
- Residential site design
- Government engineering and design services
- Land development and landscape architecture
- Environmental engineering and studies
- Cultural resources management
- Geotechnical and structural engineering
- Surveying/GIS/GPS
- Construction management, inspection, and testing
- Water resources and wastewater management
- LEED® engineering and planning
- Design-build delivery system

GAI OFFICE LOCATIONS



Office Locations

GAI was established in Pittsburgh, Pennsylvania, in 1958, and currently has 24 offices in 11 states. GAI's strategic location in Charleston, West Virginia, places it within reach of multiple GAI offices that can provide capabilities, expertise, and support throughout the duration of the project.

The GAI office location and point of contact that will directly administer this contract is:

GAI – Charleston, WV

Todd Schoolcraft, PLA, ASLA, LEED[®] GA

Project Manager

300 Summers St., Suite 1100

Charleston, WV 25301

T 681.245.8878

t.schoolcraft@gaiconsultants.com

Kenneth W. Kinder, PE, CFM

Engineering Manager

300 Summers St., Suite 1100

Charleston, WV 25301

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k.kinder@gaiconsultants.com

www.gaiconsultants.com

GAI'S **COMMUNITY SOLUTIONS GROUP**

Community Solutions: *Experienced People,
Open Minds, Fresh Ideas*

What We Are

GAI's Community Solutions Group is an idea-driven strategic consulting practice integrating design, planning, and economics. We are committed to enhancing communities in ways that are practical, sustainable, and authentic to our clients' needs, while being politically aware, financially feasible, and aesthetically compelling. Our mission is to create livable places of lasting value in an increasingly connected, complex, and competitive world.

Who We Are

The Community Solutions Group is a unique team of landscape architects, urban designers, land use planners, public finance and economic development specialists, and public administrators who capture the full dimensions of strategy and solution. Committed to positioning cities for a sustainable future, we are recognized for delivering insightful, thorough, and technically sophisticated solutions. We embrace a philosophy that values the complex interrelation of people, place, and policy while considering a project's ability to positively impact its investors, community, and setting. GAI's Community Solutions Group listens carefully and actively, questioning assumptions with positive energy and fresh ideas. We seek to understand our client, the place and its context, and the real substance of issues before we act. We are passionate about our work, care for people, and are purpose-driven practitioners with a track record of positive outcomes.

What We Do

Our work centers on finding resolution to place-based problems by implementing context-sensitive, sustainable solutions that are economically and fiscally beneficial and implementable. We engage diverse community groups to affect positive outcomes with shared benefits through integrated solutions.



A GAI Consultants Service Group

Planning | Urban Design
Landscape Architecture
Economics | Real Estate

Consequently, our clients include governments, agencies, institutions, and developers who share an equal need to address complex and inter-related challenges. We work from planning to policy and concept to construction across the scales of region, city and campus; neighborhood, street, and site.

As an art, our practice requires an understanding of the nuances of feasibility, political sensitivity, urban form, relationships, and character of place. But as a science, it involves street geometries and hydrologic flows, floor-area ratios, densities, market economics, and financing mechanisms. We are effective because we are sensitive and sophisticated about implementing complex ideas across the platform of inclusive participation, thoughtful design, funding and finance, public policy, and community partnerships for initiatives both large and small.

Master Planning + Urban Design

Landscape Architecture + Design

Economics + Strategy

Master Planning + Urban Design

The Community Solutions Group's Master Planning + Urban Design practice focuses on crafting plans that create livable places of lasting value for communities that require context-sensitive, sustainable solutions. We prioritize close collaboration with clients through an approach that emphasizes plans that reflect strong neighborhoods, livable transportation networks, interconnected park and open space systems, environmental sensitivity, and economic opportunities. Through work at the scale of city, neighborhood, and street, our plans create the framework for rich, interactive settings that bring people together in environments that facilitate meaningful experiences that enrich lives.



Our team draws upon expertise in multiple disciplines to balance physical, social, and economic needs and create urban places that enhance quality of life. We understand that each building, streetscape, transportation corridor, and park works toward creating an urban place that transcends the value of any individual element. Our planners and engineers work closely with clients to ensure that each piece of this urban fabric is deliberately designed with quality and respect for its role in the public realm. With an eye toward implementation, we also understand the complex regulatory processes that must be navigated in order to gain approval for these great community plans. We draft clear plans and regulations designed to support community goals, preserve lifestyle choices, and create economic development and redevelopment opportunities, and we forge partnerships between stakeholders and local governments to achieve these positive outcomes.

Landscape Architecture + Design

The Landscape Architecture Studio within the Community Solutions Group integrates an experienced team of professionals that strives to raise the standard of planning and design services to a new level with every project, producing sustainable, context-sensitive solutions that meet our clients' objectives. We listen to their concerns, their desires, and their needs; we gather a deep understanding of place and issues, and then deliver thoughtful and innovative solutions. The studio operates under a fundamental planning and design philosophy that seeks to develop solutions that make a positive contribution to

the economic and social values of a community or place. Whether the question is community master planning and place-making, streetscape and corridor design, sustainable stormwater strategies (LID), parks and open space design or corporate and campus planning and design, we are committed to creating rich, diverse, and sustainable places for people; beautiful works that allow people to connect to the environment and that respect a community's cultural, historical, and environmental heritage.

Economics + Strategy

GAI's Community Solutions Group Economics + Strategy services draw from the advising team's experience, education, and a culture which integrates allied disciplines to enhance the appropriate solutions. Our approach draws upon our knowledge of growth management techniques in many state settings, local regulatory constraints, infrastructure systems and design, public finance, awareness of the needs in the private marketplace, preferred land use forms, aesthetics, emerging trends in development, and the linkages among infrastructure, economic development, and the character of the built environment. This knowledge enables our clients to choose critically between alternatives and implement a strategy or master plan that is flexible, cost effective, sustainable, and marketable, attributes sought by both our public and private clientele.

Service Profile

Civil/Site Engineering



Land development is an integration of site planning, civil engineering, and stormwater management—and GAI Consultants has engineers, planners, and environmental professionals dedicated to developing sites. Our project managers have 10 to 30+ years of experience managing small to complex residential, commercial, industrial, institutional, and brownfield development projects.

Assessing existing conditions with clients' goals in mind means we maximize development potential.

Development projects embody unique site layout, grading, roadway, and utility design characteristics; and every region has topography, property constraints, and infrastructure design challenges. This is why land development requires seasoned project managers skilled in determining the best use of a site—through planning, design, permitting, and construction.

GAI's design process starts with client meetings. We listen to our clients' needs and aspirations, and discuss their envisioned master plan. We then analyze governing municipalities at all levels, and review ordinances for allowable use, site development requirements, and stormwater management ordinances to gain a solid understanding of the site specifics.

GAI evaluates existing site conditions, including topography, natural resources, wetlands and streams, drainage patterns, and existing or nearby utility and roadway infrastructure. We understand the importance of the early planning so the site layout is in continuity with existing conditions and meets the intended use of the client.

GAI's land development professionals are skilled in the optimal use of existing resources in order to be cost effective, yet remain compliant with current regulations, while ultimately achieving the client's goals for the project.

GAI designs sites that meet the LEED® Site/Civil requirements of our clients. Our site layouts maximize development potential with cost-effective features and aesthetic stormwater management design. We design rain gardens and vegetated swales to convey stormwater runoff, and locate catch basins, piping systems, and ponds to maximize land use. GAI has practical stormwater management solutions that meet site topographic and natural resource challenges.



gai consultants

gaiconsultants.com



Transforming ideas into reality, since 1958, GAI is an employee-owned, engineering, planning, and environmental consulting firm providing local expertise to worldwide clients in the energy, transportation, development, government, and industrial markets.

transforming ideas into reality®

Our engineers and construction specialists are skilled in developing construction cost estimates and performing construction inspection, documentation, monitoring, and management for site projects.

GAI's award-winning professionals have the experience and vision to handle a broad range of development needs, including the design, approvals, and construction of civil site development and stormwater management projects.

Civil/Site Engineering Services

- Land use and economic feasibility studies
- Impact fee studies and code impact assessments
- Facilities planning and design
- Site selection and permit acquisition
- Hydrologic and hydraulic (H&H) studies
- Soil-structure interaction investigations
- Foundation investigations and design
- Structural/non-structural alternative analysis
- Cultural and historic resources investigations
- Environmental assessments and species studies
- Wetland mitigation, design, and permitting
- Storm water management and site drainage design
- Water and sewer design
- Utility assessment, rehabilitation and design
- E&S control plans and permitting
- Surveying, construction layout, and as-builts
- Site geometry, demolition, and grading plans
- Subdivision, roadway, lighting, and traffic design
- Traffic impact studies and MOT plans
- Landscape architecture and streetscape design
- Parks and recreation trails design



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CALHOUN COUNTY DARK SKIES MASTER PLAN

Grantsville, West Virginia

GAI's Community Solutions Group developed a concept master plan for Calhoun County Dark Skies Park. Guiding the rehabilitation and conversion of the Calhoun County Park into West Virginia's premier dark skies park, budgetary cost opinions were prepared to correspond with the various facets of development as shown on the master plan. A general description of existing and proposed infrastructure and utilities was provided, along with summaries of the various phasing efforts for the park's development.

The Dark Skies Park was broken into seven different phases consisting of: Phase I – Bath House/Comfort Station, Phase II – RV Campground Expansion; Phase III – Amateur Astronomy Improvements; Phase IV – Primitive Camping and Day Use Improvements; Phase V – Sanitary Sewer Extension; Phase VI – Sports Facilities; and Phase VII – Cabins.

The park's key features, such as the outdoor amphitheater, classroom, walking trails, and exhibits, are all influenced by popular celestial forms. One of the more identifiable constellations, Ursa Major, better known as the Big Dipper, can be found within the outdoor amphitheater, while a scale exhibit of our solar system can be experienced within the passive greenspace where the walking trails follow select planets' orbits. The park also features an observatory, additional camping sites, and upgraded facilities to fit the park's current uses and future ones.



VALLEY PARK MASTER PLAN

Putnam County, West Virginia

Completed as a portion of the Putnam County Parks, Recreation, and Open Space Plan, the Valley Park Master Plan project encompassed renovation plans for a popular 60-acre park in Hurricane, West Virginia. The existing park was designed and built in fragmented phases and, as a result, faced several issues. GAI's Community Solutions Group team worked closely with the Putnam County Parks and Recreation Commission, the owners of the facility, to identify key issues and problems, and create design solutions.

The master planning process began with an in-depth look at the park's existing infrastructure, facilities, amenities, context, and connections to the surrounding neighborhoods and region. Following the assessment stage, programmatic elements were investigated and considered in response to the recreation needs assessment that was explored during the county-wide study. Once it was determined how Valley Park positively supports the county's recreational needs, and which opportunities are potentially available to better serve the community and region, the design team brought forth a master plan that leverages the park's already valuable assets and creates additional amenities that will strengthen it and the county-wide system at large.





IMPLEMENTABLE PLAN

Valley Park Master Plan is a direct result of the Putnam County Parks, Recreation, and Open Space (PROS) Plan.

Hurricane Bridge Park Master Plan is also a direct result of the Putnam County PROS plan.

HURRICANE BRIDGE PARK

Putnam County, West Virginia



GAI's Community Solutions Group is leading a Master Plan for the new Hurricane Bridge Park located in the historic City of Hurricane, West Virginia. Hurricane Bridge Park is viewed as both historically significant as well as a vital open space that will not only link many of the surrounding neighborhoods to the park, but will provide a vital connection to the downtown Main Street. The planning and design process promoted the desire for the park to foster health and wellness for the community, serve as an ecological resource, and provide a location for social interaction.

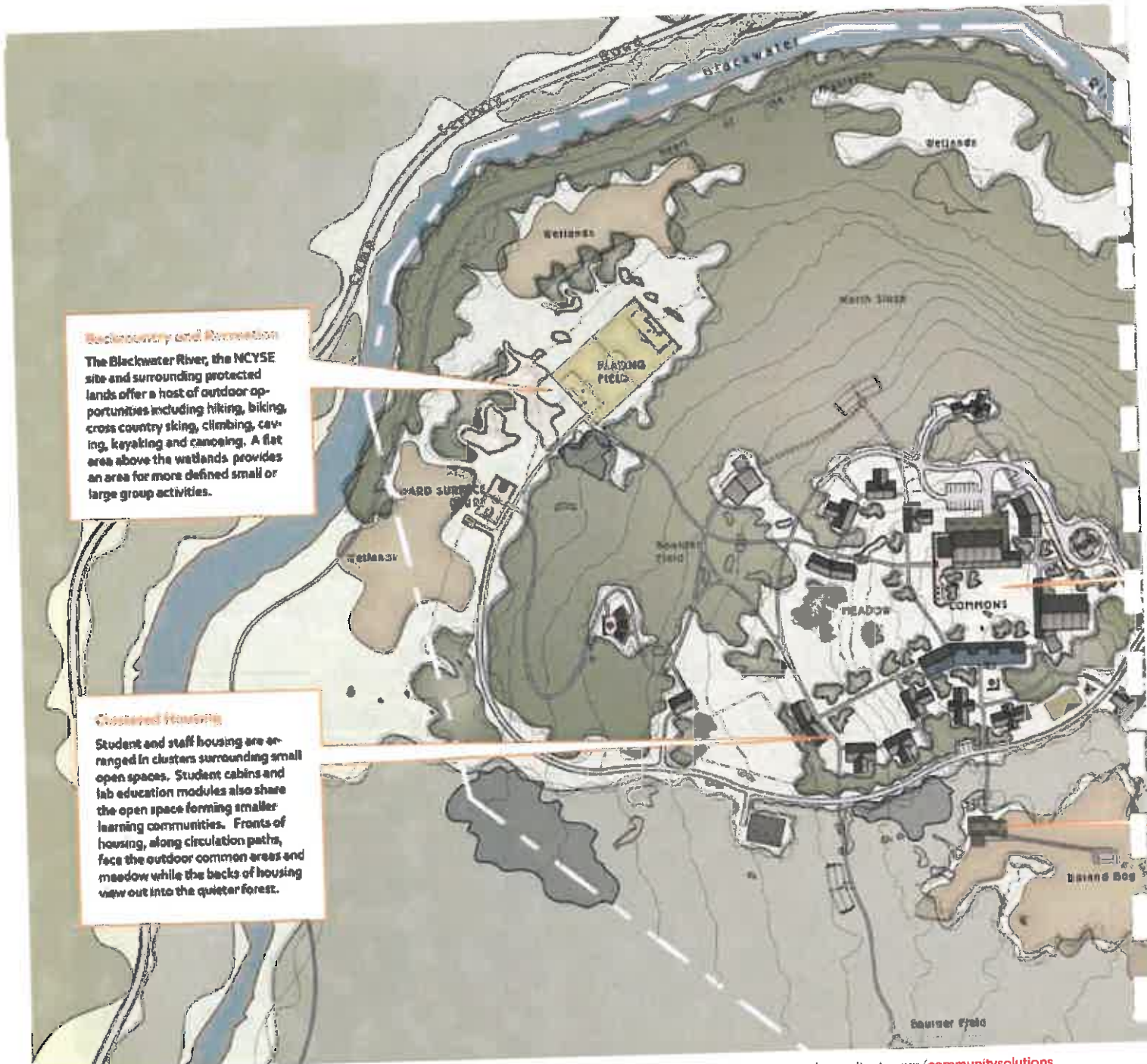
The Master Planning process identified key park rules of form and overall development structure to allow both an understanding of the park as a total framework and as individual spaces. Spaces proposed include playscape, multipurpose courtplay, pedestrian green / performance mall, pond, new ball fields, and a Woodland Walk. The Master Plan also explored and recommended a variety of sustainable stormwater management strategies ranging from permeable paving surfaces to bioswales and raingardens.

The Master Planning effort presents ideas that establish a comprehensive series of physical recommendations in support of ecology, history, programs/events, activities, and behaviors that echo the goals and objectives developed by the GAI / CSG team, Stakeholders, and the City of Hurricane. A renewed consciousness regarding urban park planning and design and its impact on health and wellness experience will help create a dynamic and powerful signature park that will serve the citizens for generations to come.



NATIONAL CENTER FOR YOUTH SCIENCE EDUCATION MASTER PLAN

Davis, West Virginia

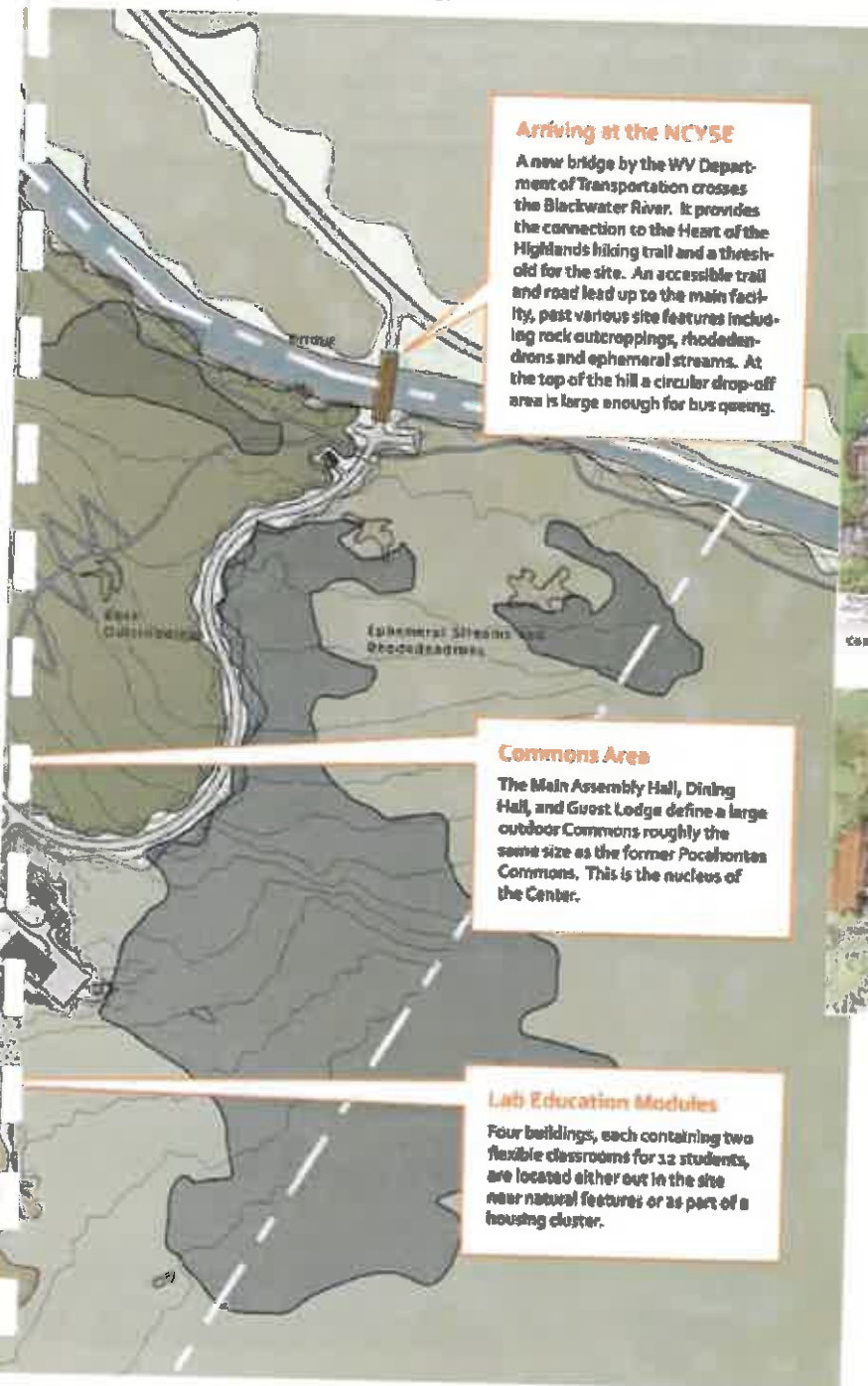


Recreation and Recreation
The Blackwater River, the NCYSE site and surrounding protected lands offer a host of outdoor opportunities including hiking, biking, cross country skiing, climbing, caving, kayaking and canoeing. A flat area above the wetlands provides an area for more defined small or large group activities.

Clustered Housing
Student and staff housing are arranged in clusters surrounding small open spaces. Student cabins and lab education modules also share the open space forming smaller learning communities. Fronts of housing, along circulation paths, face the outdoor common areas and meadow while the backs of housing view out into the quieter forest.

The National Center for Youth Science Education (NCYSE), also known as the "Youth Science Camp," is being relocated from its historic leased property in rural Pocahontas County to a prestigious, environmentally sensitive facility located on its own property adjacent to the Blackwater River in Tucker County. The new facility has plans to eventually operate year round providing a wealth of educational outreach programs, while still maintaining the core focus of the "Camp" during the summer months. GAI teamed with Pittsburgh based architecture firm Perfido, Weiskopf, Wagstaff & Goettel by providing master planning and schematic design services for the proposed Camp property. GAI was involved with initial programming and scope development for the project, as well as data collection, site analysis, geological review and permitting reviews for the entire property, which included hydrology, soils, slopes, geology, wetlands, vegetation, and wildlife.

GAI was responsible for combining the site analysis information and creating a preliminary land use plan and concept plan in order to generate a cost opinion. Additionally, GAI developed designs for utilities, landscape architecture, an access road and a trail. GAI's services helped the National Youth Science Center make better-informed decisions in site development and land use.



Arriving at the NCYSE
 A new bridge by the WV Department of Transportation crosses the Blackwater River. It provides the connection to the Heart of the Highlands hiking trail and a threshold for the site. An accessible trail and road lead up to the main facility, past various site features including rock outcroppings, rhododendrons and ephemeral streams. At the top of the hill a circular drop-off area is large enough for bus queuing.

Commons Area
 The Main Assembly Hall, Dining Hall, and Guest Lodge define a large outdoor Commons roughly the same size as the former Pocahontas Commons. This is the nucleus of the Center.

Lab Education Modules
 Four buildings, each containing two flexible classrooms for 12 students, are located either out in the site near natural features or as part of a housing cluster.



Commons Entry



Cabin Cluster View

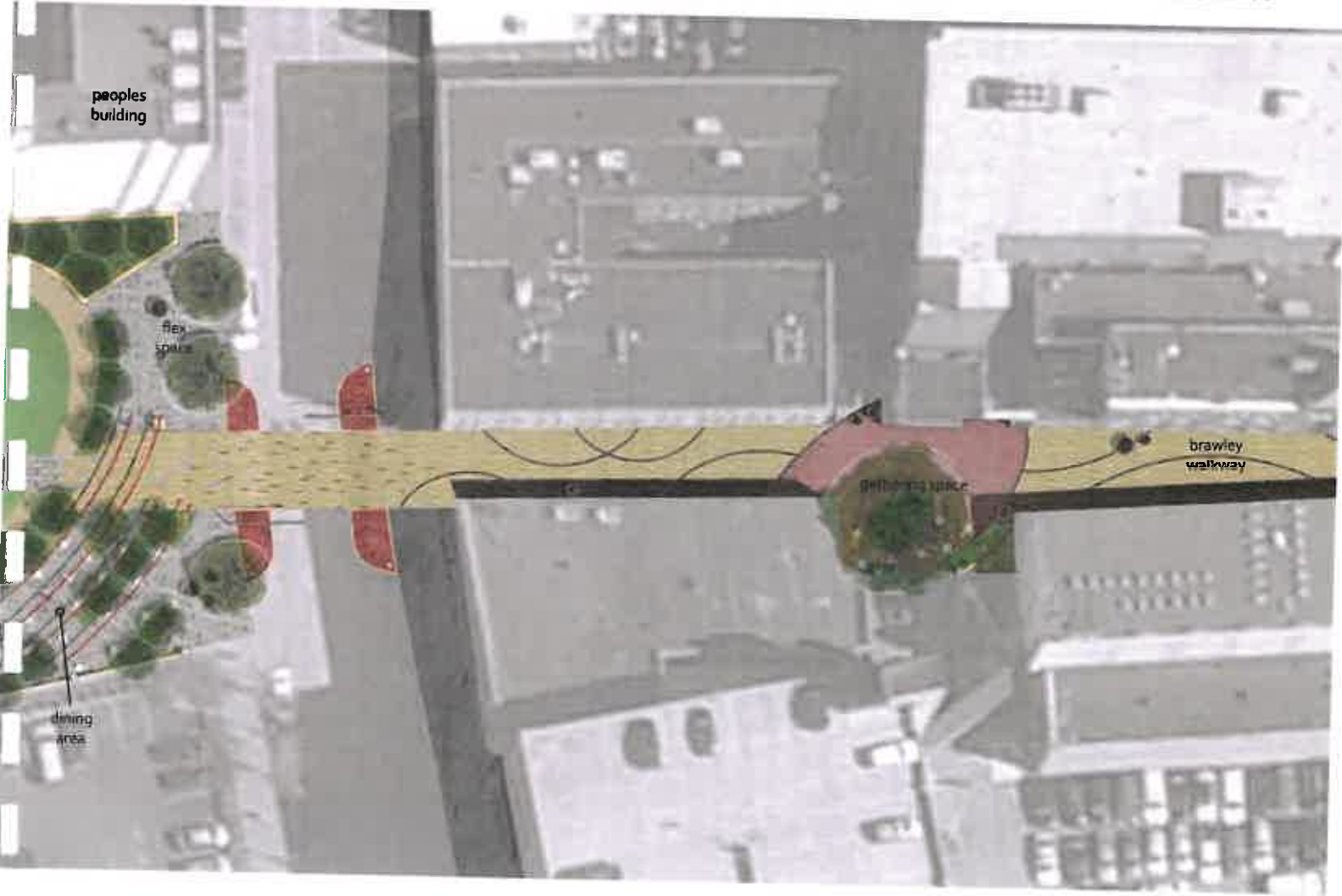
JOHN SLACK GREEN

Charleston, West Virginia

Over the last year, GAI has been working closely with the City of Charleston and its stakeholders by providing master planning services for Slack Plaza. The plaza will function as the primary hub of the entertainment district for the downtown area, linking the historic district to the business district, and is one of the first major planning (and construction) projects that have "spun off" from the Imagine Charleston Study that GAI was also involved with several years ago.

As a "spin off" from the design work that is currently underway for John Slack Green, the Landscape Architecture and Planning Group has been asked by the Kanawha Valley Rapid Transit Authority (KRT) to redesign their transit mall, along with a 3 block stretch of Laidley Street in downtown Charleston, WV. The goal of the design is to move the transit mall to the south of the plaza so it will no longer be in conflict with the pedestrian circulation through the plaza. The design will also create a much needed linear greenway connecting Haddad Riverfront Park to the downtown entertainment district.





DAVID GILMORE, PLA, MBA

Director, Landscape Architecture / Charleston Office Leader
Role: Principal-in-Charge and Landscape Architecture

Dave currently serves as the Director of Landscape Architecture services for GAI Consultant's Community Solutions Group. In this role, he coordinates projects and marketing activities for all of GAI's offices throughout the NE and Midwest region. In this capacity, Mr. Gilmore brings more than 27 years of experience on a diverse range of projects covering all aspects of landscape architectural design in both the public and private sector.

Throughout his career, Dave has been actively involved in a wide variety of challenging projects. His experience includes but is not limited to public outreach and programming, construction document and technical specification preparation, site analysis, schematic design, construction administration, master and land use design (campus, riverfronts, resorts, parks, recreational, residential, industrial, and commercial), streetscape and municipality improvements, landscape and hardscape design, and graphic presentation drawing.

Dave also remains active with the West Virginia University School of Landscape Architecture and has won multiple awards from the American Society of Landscape Architects for his work.

EDUCATION

- MBA Point Park University 2015
- B.S. Landscape Architecture 1988, West Virginia University

AFFILIATIONS

- (ASLA) American Society of Landscape Architects
- (CLARB) Council of Landscape Architectural Review Board
- (WVASLA) West Virginia Chapter
 - Past WVASLA State Licensing Board
 - Past President
 - Executive Committee Member
 - Chairman, Licensing and Sunset Review Committee
 - Judge, Senior Design Awards, West Virginia University

AWARDS

- Haddad Riverfront Park – American Society of Landscape Architects, Award of Excellence
- National Youth Science Center Master Plan – PAAIA Honor Award
- National Youth Science Center Master Plan – American Society of Landscape Architects, Award of Merit
- Haddad Riverfront Park – WVAIA, Honor Award
- Florida Street Revitalization Master Plan – American Society of Landscape Architects, Award of Merit



- Dupont 'Hyper' Plaza – American Society of Landscape Architects, Award of Merit
- *WV Focus Magazine*, If You Build It They Will Come, July 2015
- Charleston Civic Center Design Competition, First Place
- Top of Rock Design Competition, First Place

Professional Experience

- **"Imagine Charleston" Downtown Urban Revitalization Study, Charleston, WV.** The 2013 Downtown Charleston Redevelopment Plan, as part of a broader Comprehensive Plan for the City, provides a vision toward a sustainable future and creates a dynamic framework for realizing that vision. The result is a plan that provides detailed analysis of the physical framework of the Downtown and recommends strategies that, along with relevant public policy, will help guide growth and development in the City of Charleston. It is long range in its vision, yet it leverages current and upcoming opportunities that will help to achieve the vision.
- **Slack Plaza Master Plan, Charleston WV.** Master planning and rehabilitation of a large urban plaza in downtown Charleston. The existing plaza had become tired and in disrepair over the years and as result became virtually unutilized by nine to five, daily office employees in the surrounding downtown area. To breathe a breath of fresh air into the plaza, the design team analyzed the factors contributing to the underutilization of the park and responded with a design that will ultimately energize and invite users into the plaza.
- **Charleston Civic Center, Charleston, WV.** Design Competition winner for a 100 million renovation to the Charleston Civic center. Design Highlights include a river trail, new streetscape and entrance features and a new riverfront park and boardwalk.
- **Laidley Street Bus Terminal Enhancement, Charleston, WV.** Rehabilitation of a street that is utilized as the main hub for a regional bus transportation authority. The station is located in the heart of downtown Charleston and was renewed in parallel with an adjacent urban plaza.
- **Brawley Walkway, Charleston, WV.** Renewal of a prominent linear pedestrian corridor that links two major retail districts within Charleston's downtown core.



- **Kanawha City Corridor Study, Charleston, WV.** Comprehensive planning study for a three mile urban corridor planning study stretching the length of a professional and retail district. The project involved recommendations on how to promote pedestrian activity and revitalizing the vehicular dominated environment into a vibrant village atmosphere.
- **Kanawha Boulevard Walk and Bikeway Trail Master Plan, Charleston, WV.** Master planning and Bidding document preparation for a two mile bikeway project along a riverfront boulevard along the West Side neighborhood of Charleston, West Virginia. In addition to the addition of a two-way bike line, the team incorporated state-of-the-art stormwater management techniques to showcase the City of Charleston’s commitment to water quality and best management practices.
- **Greenbrier Street Corridor Master Plan, Charleston, WV.** Master Planning and presentation drawings for an urban streetscape design project stretching four blocks along a prominent gateway into downtown Charleston and the WV State Capitol campus. The design team analyzed existing pedestrian and vehicular traffic patterns that had been a safety concern within the community and recommended various traffic calming techniques in response. Additionally, the streetscape was recommended to be enhanced dramatically to serve as a gateway into the downtown area.
- **Haddad Riverfront Park, Charleston, WV.** Master planning, public participation services, design, construction and engineering solutions for the renovation of the Haddad Riverfront Park, which is a popular concert, festival and leisure site in downtown Charleston, West Virginia. Among the City of Charleston’s project requirements were a retractable canopy to provide protection and visual interest, an overlook plaza and pavilion that extends Court Street to the Kanawha River, an extension of the lower wharf area, a new streetscape design along Kanawha Boulevard, and an event stage for concerts.
- **Charlotte’s Creek Farm Equestrian Center, Cabell County, WV.** Master planning and bidding documents for a 50 acre equestrian facility. The plan includes both a private residence and a commercial equestrian farm that will be utilized for housing and training show horses.

Streetscape and Urban Revitalization List of Projects

- Downtown Charleston and Near West Side Strategic Plans, Charleston, WV
- Downtown Charleston retail Study, Charleston, WV
- West Side Masterplan Updates, Charleston, WV
- The Commons at Cheat Landing Masterplan, Morgantown, WV

- 40th and 42nd Street Village District Masterplan, Kanawha City, WV
- Charleston Comprehensive Plan, Charleston, WV
- City of Charleston Gateway Design, Charleston, WV
- City of Charleston MS4 Stormwater Manual
- Kanawha Boulevard Streetscape, Charleston, WV
- Court Street Overlook, Charleston, WV
- Citilink Transit Center, Fort Wayne, IN
- Lewisburg Streetscape, City of Lewisburg, WV
- Pennsylvania Street Masterplan, Carmel, IN
- Dupont Road Corridor Improvements, Fort Wayne, IN
- St. Albans Master Plan, St. Albans, WV
- St Albans Phase I, St. Albans, WV
- St. Albans Phase II, St. Albans, WV
- Pennsylvania Avenue Gateway, Charleston, WV
- Florida Street Revitalization Master Plan, Charleston, WV
- Williamson Master Plan, Williamson, WV

Parks and Recreation List of Projects

- Washington County Parks Recreation and Open Space Plan, Washington, PA
- Cross Creek Park Masterplan, Washington, PA
- Putnam County Parks Recreation and Open Space Plan, Putnam County, WV
- Top-O-Rock Design Competition Winner, Charleston, WV
- Charleston Riverfront Park, Charleston, WV
- Kanawha Boulevard Greenway and Bike Trail, Charleston, WV
- Terra Haute Gateway, Terra Haute, IN
- Valley Park Masterplan, Putnam County, WV
- Lee Way Park, Charleston WV
- Slack Plaza, Charleston WV
- Charleston Gateway Design, Charleston, WV
- West Virginia State Capital Grounds Masterplan, Charleston, WV
- Stonewall Jackson State Park Master Plan, Roanoke, WV
- Horicon Preserve, Horicon, WI
- Charleston Gateway Park, Charleston, WV
- West Liberty Soccer Complex, West Liberty, WV

TODD SCHOOL CRAFT, PLA, ASLA, LEED® GA

Senior Landscape Architect

Role: Project Manager

Todd has over 25 years of experience in the fields of landscape architecture and land planning, with over 33 years of experience in the building and construction industry. Todd has extensive experience managing complex projects and leading multi-disciplined teams of professionals resulting in the successful delivery of numerous quality projects on-time and on-budget. Major areas of specialty include commercial development, military installation design, land planning, public development, site planning and design, park and recreation design, trails and greenways, streetscape design and urban planning, and residential subdivision layout.

Todd is a retired U.S. Army Officer, holding the rank of Major, with over 23 years of time in service in the U.S. armed forces. In the last years of service, he held the position of Operations Officer with the newly formed Chemical, Biological, Radiological, Nuclear or High Yield Explosive Enhanced Response Force Package Team (CERFP Team) with the West Virginia Army National Guard.

Todd was appointed by the governor to the West Virginia State Board of Landscape Architects and served over 9 years as Secretary and Treasurer.

REGISTRATIONS

- PLA, West Virginia, 1995
- RLA, North Carolina, 2005
- RLA, Ohio, 2002
- CLARB Certified, 2001
- LEED® Green Associate, 2012

EDUCATION/TRAINING

- BS Landscape Architecture, West Virginia University
- Safe Spaces: ASLA Security Design Symposium, Chicago, IL
- AQUA Conference Educational Sessions, Las Vegas, NV
- CERFP Team Training, WV Army National Guard

AFFILIATIONS

- WV State Board of Landscape Architects
- American Society of Landscape Architects
- WV Chapter – American Society of Landscape Architects
- Associate Member – AIA West Virginia
- Society of Military Engineers
- National Guard Association
- National Parks Conservation Association
- Rails-to-Trails Conservancy
- WV Nursery & Landscape Association



Highlighted Professional Experience

- **West Union Main Street Streetscape Improvements, West Union, WV. Doddridge County Economic Development Authority.** Project Manager. Responsible for conceptual design, detailed design, construction documents, bidding, and construction administration. Prepared concept designs for public input meetings, then further developed detailed design and construction documents, and provided bidding and construction management services for pedestrian improvements and streetscape enhancements for the City of West Union, Doddridge County, WV. Project consisted of four blocks of city street improvements to include concrete sidewalk replacement, period light fixtures, sandstone curbing, driveway curb cuts, ADA accessible curb ramps with truncated domes, Abbey Road-style crosswalks, storm sewer improvements, benches, trash receptacles and landscaping. Once a carriage trail, the Northwestern Turnpike was a historic road thru western Virginia finance by the Virginia Board of Public Works in the 1830s. Stagecoach stops along the turnpike dotted the corridor, including the section that is now Main Street West Union. Streetscape improvements accentuated the past carriage trail history with the re-introduction of hand-cut sandstone hitching posts to mark the gateway entrances into historic downtown West Union. All the stone quarried for the new street curbs and hitching posts came from the same rock quarry that produced the stone lentils and arches found in the Romanesque-Revival style County Courthouse.
- **North Bend Rail-Trail Reconstruction Project, Doddridge and Harrison Counties, West Virginia. North Bend Rails To Trails Foundation, Inc., WVDOH and WVDNR.** Project Manager. Responsible for concept development, detailed design, construction plans and bidding documents. Developed concepts for improvements, then detailed design and construction documents, and provided bidding and construction management services for trail reconstruction

upgrades to over 30 miles of the North Bend Rail-Trail in Doddridge and Harrison Counties, WV. The original funding for trail work was a combination of Recreational Trails and Transportation Enhancement Program funds, the North Bend Rails-to-Trails Foundation, Inc. funds, and multiple sources which created a collaborative partnership involving the West Virginia Division of Natural Resources, WVDNR and the NBRT Foundation. The combined trail funding has resulted in a combined total of \$1.035-million. The North Bend Rail Trail is a State Park, owned by the WVDNR, and supervised by NBRT Superintendent Paul Elliott. "Trail improvements will include tread surface hardening and much-needed drainage work along the trail in sections in Doddridge and Harrison counties. Everyone involved is dedicated to keeping North Bend Rail Trail one of the best in the Eastern United States. Grant funds and interested groups working together keep good work happening in West Virginia," said Superintendent Elliott.

- **Pennsboro Trailhead, Old Stone House/Boarding House, and Historic B&O Train Depot Improvements for the City of Pennsboro and the Ritchie County Historical Society in Pennsboro, WV.** Project Landscape Architect. Responsible for concept planning, detailed design, construction documents, bidding, construction administration and construction inspection. The Ritchie County Historical Society, in conjunction with the City of Pennsboro, solicited services for the planning and detailed design of a new trail head along the North Bend State Park Rail Trail. Site improvements include the first known use of pervious or porous asphalt in West Virginia as the pavement surface for the parking area. A rain garden/bio-retention swale was also included as some of the green, sustainable design solutions proposed. Construction administration and inspection services were provided for the trail head work, plus restoration of the Old Stone House and Boarding House, built in 1810. Now a museum, the Old Stone House/Boarding House once served as an inn for Americans heading for the frontier to rest their weary bones before continuing westward. Construction services also included the continued restoration of the historic B&O Railroad Depot in Pennsboro, also currently serving as a museum. This project was awarded an ASLA Merit Award.
- **Lost Creek Train Depot Rehabilitation for the Town of Lost Creek in Lost Creek, WV.** Landscape Architect. Responsible for concept planning design and document quality oversight. The Town of Lost Creek solicited services for the planning and design of the rehabilitation of a historic train depot adjacent to the Harrison County Rail Trail.

Prepared a plan to raise the structure, make repairs to the deteriorated timber substructure, excavate and place the concrete foundation system, then lower the structure to rest on the new foundation. Also provided construction administration and inspection services as well as periodic site review during construction.

- **West Virginia Army National Guard TAG Wing Improvements, Division of Engineering and Facilities, Charleston, WV.** Project Manager. Responsible for design and document quality oversight. The Facilities Management Office (FMO) for the State of WV, West Virginia Army National Guard (WVARNG), executed a contract on a lump sum/fixed fee basis for architectural engineering services to provide complete design and construction administration services for the renovation of the first floor of the entire wing of the Office of the Adjutant General (TAG). The State Army National Guard Headquarters in Charleston, West Virginia was originally constructed in the early 1960's. Over the years, there have been numerous upgrades to the facility. The Owner requested the need for modernization of approximately 12,000 square feet of existing outdated office space. Project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal. Worked closely with the client during the planning phase to define a project scope that would upgrade the existing facility in a fashion consistent with previous renovations and within a limited budget.
- **Building 5 Command Group Renovations, Zone II, Camp Arifjan, Kuwait. Third Army, United States Army Central (USARCENT), Coalition Forces Land Component Command (CFLCC).** Project Manager. Project responsibilities included site surveying and base map preparation, site civil and architectural plan preparation, detailing, bidding, and construction administration for renovations required by CFLCC C-7 for the Command Group move from Camp Doha, Kuwait, to Camp Arifjan, Kuwait. Elements of the project included second floor 11-foot expansions on the north and south wings with structural layout, two new stairwells, expansion of existing office space, installation of men's and lady's restrooms, renovations to electrical, communications, and fire detection and suppression systems, extension of water service, sewer line design, and other amenities as needed. Periodic construction administration services were included during construction. Construction cost: \$267,000.00 U.S. dollars.

KENNETH KINDER, PE, CFM

Engineering Manager

Role: Engineering Manager

Kenneth has 15 years of experience in the field of Civil Engineering. In addition to being a registered Professional Engineer (PE), Kenneth is also a Certified Floodplain Manager (CFM) and has extensive experience with hydraulic modeling and the design and permitting of developments within the regulatory FEMA Special Flood Hazard Area. He has prepared numerous elevation certificates and floodplain development applications for projects in Kanawha County, the City of Charleston, the City of Nitro, Wood County, Putnam County, Wetzel County, Morgan County, Marshall County, and others. Other areas of specialty include civil site design, erosion and sediment control, storm water design, construction administration and construction management, development of grading plans and construction drawings, and various permitting tasks.

As an Engineering Manager, Kenneth ensures accuracy of work, meets schedule and budget requirements, and maintains excellent client relationships. He develops engineering calculations, prepares construction drawings, generates contract documents and specifications, and completes engineering reports.

Kenneth's experience has included preparing civil site design on numerous projects. Tasks included: preparing erosion and sediment control plans, designing utility systems, site layouts and grading plans, and designing surface drainage including storm sewer systems and storm water detention and retention ponds. Prepared permit applications for WVDEP construction storm water permits, WVDOH MM-109 permits, and floodplain development permits as required.

He has also worked on numerous geotechnical projects including developing boring layouts, coordinating geotechnical drilling, and using the gathered information to develop grading plans, design rock toe keys as needed for impoundments and valley fills, develop slope stability analyses, and to assist with foundation design for buildings, bridge abutments and retaining walls. Mr. Kinder has assisted with preparation of geotechnical reports, development of structural contour mapping, and preparation of subsidence control plans for underground mining.



REGISTRATIONS

- Professional Engineer, WV License No. 17524
- Certified Floodplain Manager (CFM)
- Troxler Nuclear Density Operator, 2001
- MSHA 8-Hour Safety Refresher, 2011
- HAZWOPER 40-Hour Safety Training, 2012

Highlighted Professional Experience

List of Project Experience

- Laeger-Panther Elementary School Floodway Evaluation, Laeger, WV
- Rocky Fork Floodway Fill Evaluation, Kanawha County, WV
- Charleston Civic Center Riverfront Park, Charleston, WV
- Nitro City Park Riverbank Stabilization, Nitro, WV
- Sir John's Run Floodway Evaluation, Morgan County, WV
- Solutia-Monsanto Riverbank Stabilization, Nitro, WV
- Krout's Creek Flood Evaluation, Huntington, WV
- Residential Bridge along Little Sandy Creek, Elkview, WV
- Hurricane Park, Hurricane, WV
- West Virginia Capital Campus Security Design, Charleston, WV
- Hobet Site Feasibility Study, Charleston, WV
- WVDOH Upper Gassaway Bridge, Sutton, WV
- 40th Streetscape from MacCorkle Avenue to Noyes Avenue, Charleston, WV
- Valley Park Construction Drawings, Putnam County, WV

Highlighted Experience

- Staff Engineer responsible for preparing civil site design on numerous projects. Tasks included: preparing erosion and sediment control plans, designing utility systems, site layouts and grading plans, and designing surface drainage including storm sewer systems and storm water detention and retention ponds. Prepared permit applications for WVDEP construction storm water permits, WVDOH MM-109 permits, and floodplain development permits as required.
- Staff Engineer responsible for designing gas well drilling pads and impoundments. Work included coordinating geotechnical drilling and using gathered subsurface information to assist with design. Prepared erosion and sediment control plans, completed HEC-RAS analyses and floodplain permitting for several temporary and permanent bridges. Designed impoundments including the development of grading plans to maintain an earthwork balance while achieving the required storage volume, design of a liner system and preparation of Emergency Response Plans.
- Staff Engineer responsible for geotechnical work including developing boring layouts, coordinating geotechnical drilling, and using the gathered information to develop grading plans, design rock toe keys as needed for impoundments and valley fills, develop slope stability analyses, and to assist with foundation design for buildings, bridge abutments and retaining walls. Assisted with preparation of geotechnical reports, development of structural contour mapping, and preparation of subsidence control plans for underground mining.
- Staff Engineer responsible for preparing design and construction documents for municipal solid waste and industrial waste (coal combustion by-product) landfill cells and caps. Work included developing storm water control plans, design of leachate collection systems, design of liner systems for leachate collection and leak detection systems. Work also included preparing construction drawings, technical specifications, and an engineer's estimate of probable construction cost.
- Staff Engineer responsible for hydraulic analyses and permit application preparation for developments proposed within the FEMA regulatory floodplain. Work included coordinating with community floodplain managers, preparation of HEC-RAS hydraulic analyses, adjusting proposed grading plans or bridge layouts as required to maintain compliance with the National Flood Insurance Program. Prepared elevation certificates and FEMA Letters of Map Amendments
- Staff Engineer responsible for performing construction oversight and construction management for a RCRA 120-acre environmental remediation site. Responsibilities included managing a team of construction quality assurance/quality control (QA/QC) observers, tracking construction pay quantities and reviewing monthly invoices, ensuring construction is being performed according to the plans and specs and enforcing implementation of a site specific health and safety plan.
- Engineering Intern in a Summer Co-op program responsible for performing construction observation for QA/QC on various projects. Tasks included soils compaction testing, concrete sampling and testing, and construction monitoring to ensure compliance with project specifications. Projects regularly included construction of fills, excavation for footings and construction of sanitary and storm sewer systems. Assisted the survey crews as an instrument man to perform boundary surveys, topographic surveys, and construction stakeout. Worked with the CAD department creating and revising drawings for civil and utility design projects using AutoCAD Land Desktop.
- Survey Rodman responsible for assisting the survey crews with boundary surveys, topographic surveys, and construction stakeout. Projects included road construction and paving, oil and gas wells and pipelines, coal stockpiles, and building construction. Reduced survey notes and assisted with the preparation of survey plats with AutoCAD.

CHARLES STRALEY, PE, PLS

Engineering Manager

Role: Geotechnical Engineer

Mr. Straley has over 30 years of experience in the fields of civil and geotechnical engineering. Mr. Straley specializes in civil engineering with an emphasis in geotechnical engineering, including all aspects of subsurface exploration, laboratory testing, foundation and embankment design, slope stability, materials and construction specification, construction administration, management and monitoring. Mr. Straley has a Master of Science Geotechnical Engineering from the University of Akron. He is a registered Professional Engineer (PE) in WV, KY, OH, and IN as well as a Professional Land Surveyor (PLS) in WV. Mr. Straley has extensive experience in geotechnical and foundation engineering throughout the State of WV. He has performed these services on projects as large as industrial/commercial developments to as small as residential plans.

REGISTRATIONS

- Professional Engineer:
 - West Virginia, 11842
 - Ohio, E-59790
 - Kentucky, 19097
 - Indiana
- Professional Licensed Surveyor,
 - WV, No. 1888

RELEVANT TRAINING/COURSES

- Leaders to Watch, GAI Consultants, Inc., 2011
- Advanced Project Management Training, GAI Consultants, Inc., 2009
- Troxler Certified
- 40-hour Health and Safety Training
- 8-hour Supervisor Health and Safety Training

AFFILIATIONS

- National Society of Professional Engineers, Member
- Society of American Military Engineers, Member



Highlighted Professional Experience

- Assisted and managed a wetland mitigation project, including determination of existing wetlands, acreage disturbed, and reconstruction of wetlands for the Mettiki Coal Corporation.
- Assisted in reevaluated a plug and dike design to optimize construction by minimizing the number, length, and cross-sectional area without compromising structural integrity or limiting storage capacity for Americoal Development Company.
- Assisted with drawdown field testing and well yields and/or recharge analysis for over 15 wells for Peabody Coal Company; Southern Ohio Coal Company; and Eighty-Four Mining.
- Assisted with the Nile Stone Slurry Impoundment for Old Ben Coal Company in Mingo County, WV. Design included grading channels, culverts, and roads.
- Assisted with identifying ground water and surface water monitoring points, including discussions with the regulatory agencies for deep mines for Hobet Mining Company; Cyprus Emerald; and Cyprus Cumberland in Boone County, West Virginia (WV) and Western Pennsylvania (PA).
- Assisted with the preparation of construction documents for an earthen dam for the Lake Chaweva Homeowners Association in Charleston, WV. Project included evaluation of existing drainage structures, storm water routing analysis, design of earth embankment, and design of a principle and emergency spillway.
- Assisted with the sampling of sludge ponds in Institute, WV for the Rhone Poulenc AG Company.
- Federal No. 2 Mine Project for the Eastern Associated Coal Corporation in Monongalia County, WV. Completed a permit revision application for additional area to be deep mined by long wall. The application included

- geology, hydrogeology and subsidence control plan sections of a surface mine application. A ground water inventory and water samples were collected and analyzed for structures above the area to be mined.
- Completed the geology and hydrogeology sections for a new deep mine permit application in Logan County, WV. Completed stability analysis for various slopes in different portions of the permit application.
 - Completed various mine permit applications (renewal, revisions, inactive status, etc.) for the Cyprus-Amax Kanawha Division.
 - Completed various permit applications for renewals, incidental boundary revisions, permit modifications, inactive status, and NPDES renewals and modifications for various surface mines in Kanawha and Fayette Counties, WV for the Cyprus Kanawha Coal Company.
 - Completed various project designs and permit applications for renewals, incidental boundary revisions, permit modifications and NPDES renewals and modifications for surface mines in Monongalia and Marion Counties, WV for the Eastern Associated Coal Company.
 - Cow Creek - Sarah Ann Water Supply Extension Project, Logan County, WV. In charge of the geotechnical investigation and foundation design for water supply structures. Project included subsurface investigation; design of three water tanks, three booster stations, one master meter assembly, and approximately 19 miles of waterline; preparation of technical specifications, drawings, and engineer's cost estimate; and participation in pre-bid and pre-construction meetings. Bid construction cost was approximately \$4,800,000. Design included an access road to WV Division of Highways standards.
 - Solid Waste Landfill Design Project for the Rhone-Poulenc Ag Corporation. Evaluated the geology and hydrogeology of the site. Developed the specifications for the construction of the double liner system.
 - Design, construction monitoring, and construction administration for two lake dredging projects for the WV Department of Natural Resources (WVDNR) at Tomlinson Run State Park and Kanawha State Forest. Activities included subsurface investigation, regulatory approvals, construction drawings, technical specifications, construction troubleshooting, cost estimating, daily reports, and client interaction.
 - Determined the quantity of clean coal in the stockpiles at a coal preparation plant using aerial photography and nuclear densometer for the Maple Meadow Mining Company.
 - Developed the site construction plans and cross sections for a coal preparation plant by combining the drawings and other material prepared by others for the permits, material handling, preparation plant, structures and railroad. Performed the conceptual design for the water supply for the preparation plant and potentially eight underground mines.
 - Design of and preparation of construction documents for a 600,000 cubic yard failed coal slurry impoundment as an emergency project. Activities included site grading, subsurface investigation, hydraulics and hydrology analysis, road re-design, mine seals, preparation of drawings and technical specifications, engineering cost estimate and pre-bid meeting presentation. WVDEP, Abandoned Mine Lands, Ned's Branch Emergency Reclamation.
 - Design, construction monitoring, and construction administration for two lake dredging projects. Activities included subsurface investigation, regulatory approvals, construction drawings, technical specifications, construction troubleshooting, cost estimating, daily reports, and client interaction. WVDNR, Tomlinson Run State Park, Abandoned Mine Lands
 - Inspected, evaluated and design repair alternatives for Spruce Island and Sand Run Dams in Tucker County, WV for Timberline Association. Design included evaluation and embankments, improvements to inlet and outlet works, and the geometry of the spillways. Permit applications for both dams were prepared.
 - Performed annual dam inspection and certification for a 15-foot high earthen dam in Monroeville, PA for Belmont Ridge Development.
 - Performed inspection of galleys of the concrete Lake Lynn Dam in Lake Lynn, PA for Allegheny Power System.
 - Elevated the stability for the "as-built" configuration of the 200-foot high embankment for a coal slurry impoundment in Century, WV for BethEnergy.
 - Evaluation of stability and rehabilitation of an existing water retention structure located adjacent to the Ohio River for Arco Chemical Corporation.



Firm Profile

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

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

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

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

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

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

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

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BEECH FORK STATE PARK POOL, BATHHOUSE AND CABINS

Barboursville, West Virginia



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

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



STRUCTURAL INVESTIGATION HAWKS NEST STATE PARK LODGE

Ansted, West Virginia



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

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



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



STRUCTURAL INVESTIGATION PIPESTEM STATE PARK RECREATION BUILDING

Pipestem, West Virginia



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



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



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



TWIN FALLS STATE PARK LODGE ADDITION

Mullens, West Virginia



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

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



Project Owner: West Virginia Division of Natural Resources

Contact Person: Brad Leslie, PE

Contact Phone: (304) 558-2764

Professional Services End Date: December 2009

Construction Completion Date: Winter 2010

Construction Cost: \$7.3M



STRUCTURAL INVESTIGATION TWIN FALLS STATE PARK RECREATION BUILDING & LODGE Mullens, West Virginia



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

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



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



Project Experience



CAPITOL PARAPET WALL REPAIRS

Charleston, West Virginia

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

CAPITOL DOME RESTORATION

Charleston, West Virginia

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



Project Experience



BUILDING 3 CANOPY REPAIRS Charleston, West Virginia

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



GEORGE WASHINGTON HIGH SCHOOL Charleston, West Virginia

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



COVENANT HOUSE Charleston, West Virginia

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

Project Experience



JOHNSON AVENUE PROFESSIONAL BUILDING Bridgeport, West Virginia

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



YORK COUNTY GOVERNMENT CENTER York, Pennsylvania

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



METROPOLITAN EDISON Reading, Pennsylvania

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



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

BACKGROUND SUMMARY

2001 – Present President, Structural Engineer
CAS Structural Engineering, Inc.

1999 – 2001 Structural Engineer
Clingenpeel/McBrayer & Assoc, Inc.

1996 – 1999 Transportation Department Manager
Structural Engineer
Chapman Technical Group, Inc.

1995 – 1996 Structural Engineer
Alpha Associates, Inc.

1988 – 1995 Structural Department Manager
Structural Engineer
NuTec Design Associates, Inc.

1982 – 1988 Engineer
AAI Corporation, Inc.

PROFESSIONAL ASSOCIATIONS

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

CIVIC INVOLVEMENT

ASCE Christmas in April Project
Engineer's Week Speaker

EXPERIENCE

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

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

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

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

West Virginia, State Capitol Complex, Holly Grove Mansion: Structural evaluation report for preliminary condition assessment of building structure. Building is on State Historic Register and was constructed in the 1830's.

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

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

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

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

West Virginia, 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

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

PROVIDING STRUCTURAL ENGINEERING SOLUTIONS FOR YESTERDAY TODAY AND TOMORROW
COMMERCIAL, GOVERNMENTAL AND INDUSTRIAL STRUCTURAL DESIGN, ANALYSIS AND RESTORATION
A WEST VIRGINIA CERTIFIED DBE CONSULTANT • CERTIFIED IN THE PRACTICE OF STRUCTURAL ENGINEERING

21 22 23 24 25 26

is on State Historic Register and was constructed in the 1930's.

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

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

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

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

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

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

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

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

West Virginia, Hampshire County Courthouse: Structural design for new elevator for existing historic building.

West Virginia, Shinnston Park: Structural design of new outdoor pool.

PREVIOUS EXPERIENCE

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

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

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

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

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

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

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

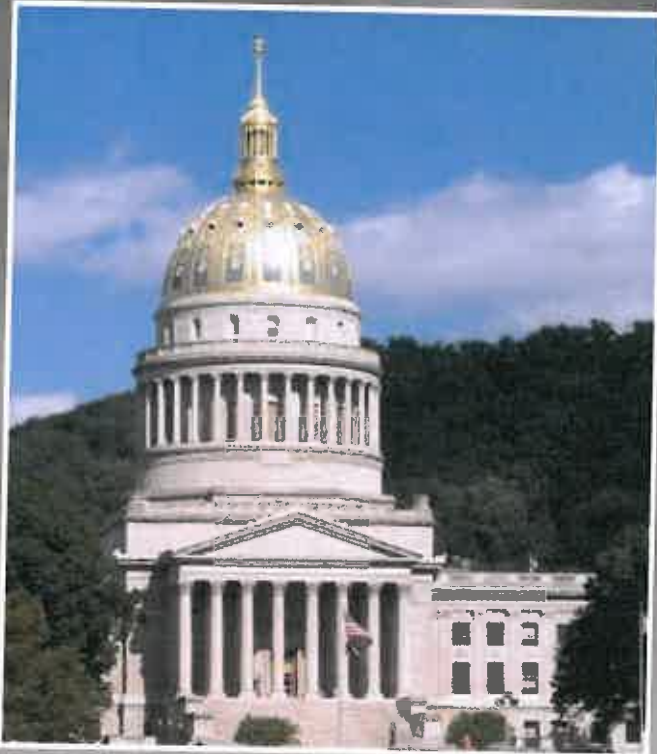
Pennsylvania, Hampton Inn: Structural design of new 5-story masonry and precast plank hotel building.

Pennsylvania, Comfort Inn: Structural design of new 5-story masonry and precast plank hotel building.

Pennsylvania, Misericordia University: Structural design of new 4-story masonry and precast plank dormitory building.

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

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



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.

OFFICE

281 Smiley Drive, St. Albans, WV 25177

EMPLOYEES

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

CLIENTS

- Charleston Area Medical Center
- Charleston National Bank/Chase
- Concord University Nick J. Rahall II Technology Center
- District 2 Headquarters' Building HVAC Renovations
- General Motors North America Operations
- Harvard University Arboretum
- IMC Data Center, WV
- Kanawha County Commission Courthouse/Judicial Annex Renovations/Additions
- Laidley Towers, Charleston, WV
- Marshall University: Harris Hall & Smith Hall
- Meadowbrook & Burnsville Rest Areas
- Mercer County Courthouse
- Pocahontas Community Center
- St. Patrick Church Renovations, WV
- Tucker County Courthouse
- University of Charleston
- Veterans Administration
- Webster County Development Authority
- Webster County Schools
- White Sulphur Springs Welcome Center
- WV Air National Guard
- WV Army National Guard
- WV Dept. of Education
- WV Division of Energy
- WV Dept. of Transportation
- WV Dept. of Health & Human Resources
- WV Division of Culture and History Renovations
- WV Division of Protective Services
- WV General Services Administration – Capitol Complex
- WV Higher Education Policy Commission
- WV Parkways Authority HVAC Renovations
- West Virginia University

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

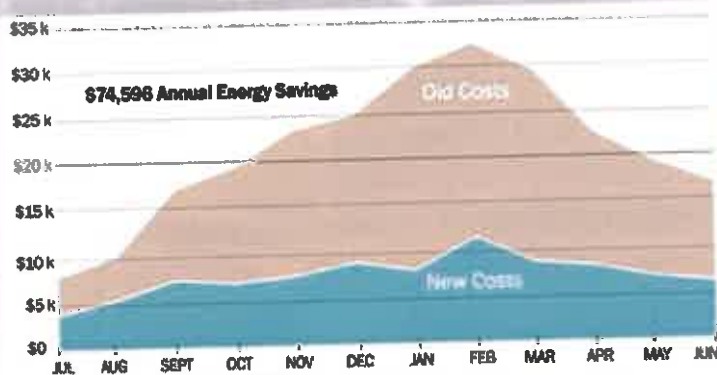
As one of the nation's leaders in Indoor Air Quality (IAQ), **ZDS** provides sophisticated technical expertise that enables our client to be proactive in solving and preventing indoor environmental problems.



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



1st Place 2014
ASHRAE
Technology
Award



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 engineer-ing 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 operational needs.

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
- Verification of system performance while meeting financial restraints

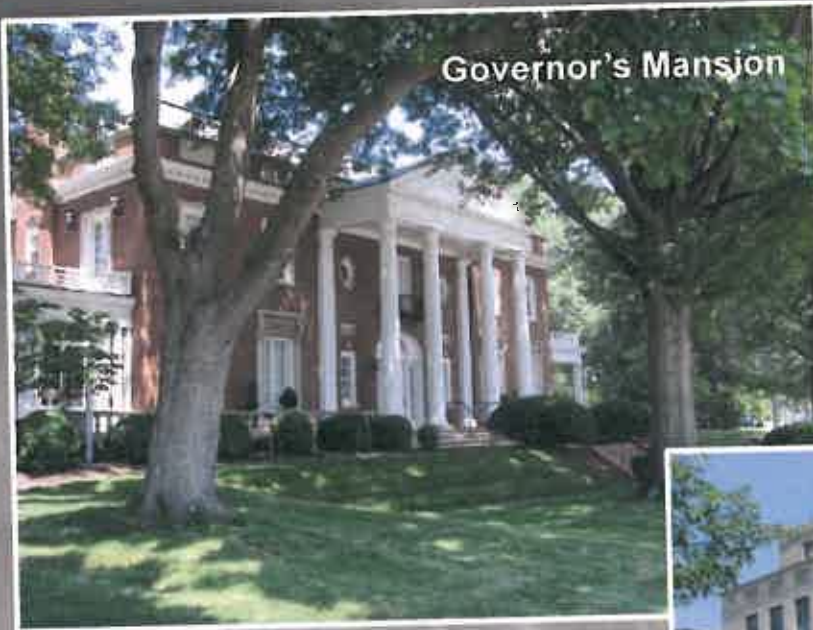
The National Conference on Building Commissioning invited Todd Zachwieja to speak and he jointly presented a paper with the Director of Maintenance of Charleston Area Medical Center's Memorial Division. The Tampa, Florida Conference involved experts nationwide.

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.

Engineering for State & Local Government Facilities



Governor's Mansion

Engineering planning and 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 volume pumping, steam/heating hot water and chiller optimization.



Building #3

Renovations included HVAC, fire safety, lighting, plumbing, indoor air quality and electrical power engineering.



State Capitol



LEED Certified Candidate



Design/Consulting Services

10 year contract to provide a preliminary procurement plan for design, construction and installation of an integrated intercom, emergency notification, and fire alarm system.

Engineering for State & Local Government Facilities



Welcome Center and Rest Area



ZDS engineered the prototype for several Welcome Centers and Rest Areas.

ZDS provided engineering planning, design, bidding and construction admin services for M/E, Plumbing and Fire Protection.

ZDS also evaluated the existing courthouse's potential power needs and incorporated those in the new Judicial Annex's electrical systems while providing emergency power.



Mercer County Annex



Division of Culture and History
A 228,500 ft² Facility



Emergency Power Generator

Renovations save the Museum nearly \$153,000 in annual energy costs while preserving the State's priceless collection with proper HVAC, humidification, lighting, electrical and power generator systems.



Design/Consulting Services

Engineering for State & Local Government Facilities

ZDS engineering project experience includes facilities registered as official Historic Buildings



Jackie Withrow State Hospital



WVDHHR hired ZDS to engineer the upgrades for three historic hospital facilities in three separate locations. ZDS successfully completed the projects while meeting the requirements of the State Historic Preservation Office (SHPO).



Hopemont State Hospital



Mildred Mitchell-Bafeman State Hospital

Renovations included HVAC, fire safety, energy efficient lighting, plumbing, indoor air quality and electrical power engineering.



Design/Consulting Services

Engineering for State & Local Government Facilities



ZDS worked with the West Virginia Air National Guard on the Commissioning for their new Replacement Aircraft Maintenance Hangar and Shops plus a new Fuel Cell Hangar. This facility included a larger maintenance hangar, miscellaneous maintenance shops, central boiler plant and chiller plant. The project successfully achieved LEED Silver Certification with commissioning being an integral part of that certification.

**130th Airlift Wing at Yeager Airport,
Phase I and Phase II
Aircraft Maintenance Fuel Systems
Hangars and Shops
Awarded LEED Silver Certification**

Construction Costs: \$43,000,000
Project Size: 128,716 ft²

"ZDS's commissioning services were invaluable in helping us understand our facility and ensure the systems were installed as intended and optimized for long-term operating benefits. We would recommend them again!" - Captain Harry Netzer, WVANG Project Manager



WV Army National Guard Base Case Study

ZDS Design/Consulting Services and its principals Ted and Todd Zachwieja were involved in many mechanical, electrical, and plumbing design projects for the WV Army and Air National Guard.

Two recent **ZDS** projects with the Army National Guard include providing electrical Design/Build engineering and project management for emergency power for the Army Headquarters Building and Annex Building in Charleston, WV. This project was completed ahead of schedule and within budget to provide emergency power needs for the Coonskin Army National Guard campus as part of their overall homeland security strategy.

ZDS also evaluated and designed HVAC renovations to restore four indoor firing ranges to meet current compliance with Army Standards.



Total MEP Cost: Over \$4,000,000

WV Army National Guard Dunbar Armory & Brushfork Armory



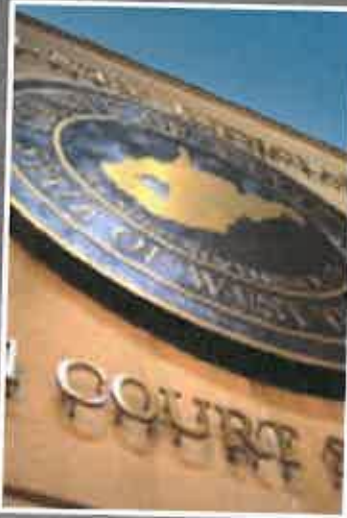
Total Project Cost: \$2,000,000

ZDS is currently providing comprehensive MEP engineering support for HVAC renovations at the two (2) project sites: the Dunbar Armory and the Brushfork/Bluefield Armory. Our professional services include preparation of the Construction Bid Documents issued in one package and will continue through bidding, negotiation and construction administration of the Contract.



Design/Consulting Services

Kanawha County Commission Judicial Annex & Courthouse



"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



The Kanawha County Commission hired ZDS to provide engineering planning, design, bidding and construction administration services for the renovation of the 93,000 ft² Annex and a 23,000 ft² addition using the ground floor of the parking garage connected to the Annex. The Annex 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 engineering for the addition included a new entrance, security checkpoint, and lobby to accommodate a building expansion for Juvenile Probation and a newly established Family Court.

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

Total Annex Project Costs: \$10,270,000
Mechanical Project Cost: \$3,200,000
Annex Project Size: Renovations 93,000 ft² plus 23,000 ft² addition



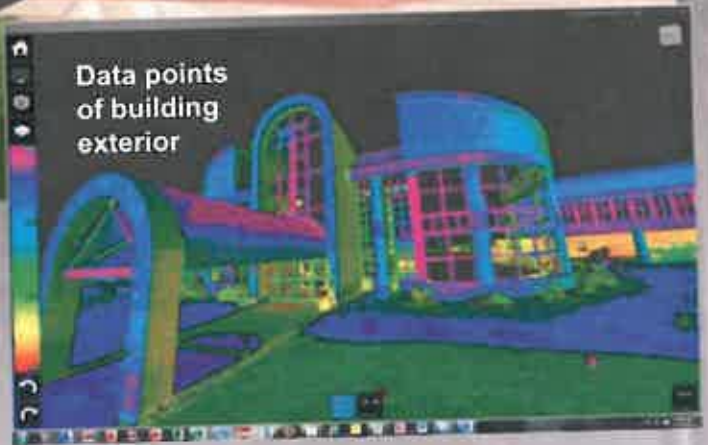
Design/Consulting Services

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.”

Greg Nicholson, DHHR Chief Operations Officer



Web Share:

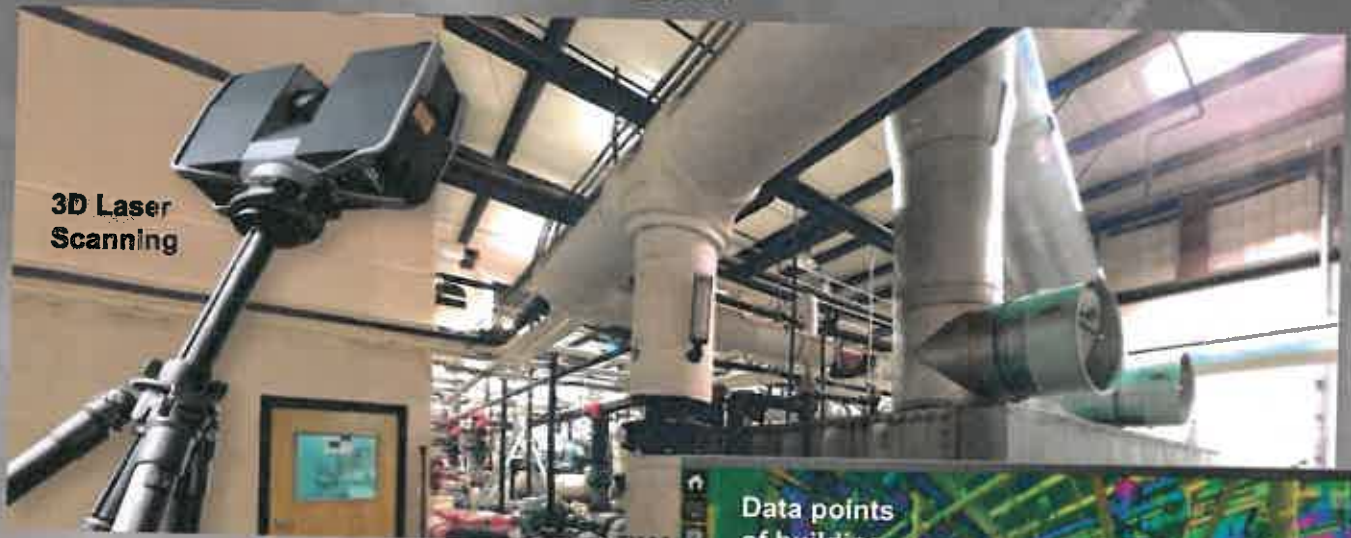
3D laser Scanning allows facility owners to view and measure areas with others on their planning and construction team.



BIM - 3D Digital Imaging

"The 3D laser imaging improves quality, saves time and money while providing a valuable resource now and into the future."

DHHR

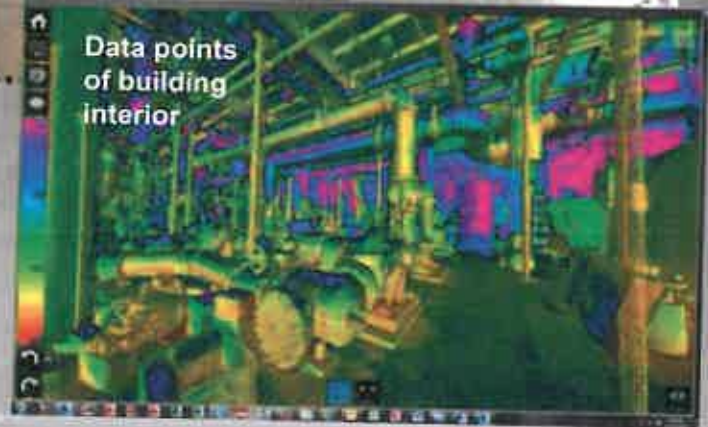


3D Laser Scanning

"The 3D laser scans safely document hard-to-reach interior areas — this greatly reduces our risk for liability.

Also, the excellent details of the laser scans convert to accurate construction drawings, both architectural and engineering."

DHHR Director of Construction & Project Management



Data points of building interior



3D Engineering Drawing:
Sample of 3D mechanical drawing converted from 3D laser scan data points.

Web Share: Helps construction team members integrate existing conditions into BIM models.



Ted (Todd) A. Zachwieja, P.E., CEM, LEED AP

CEO, Principal-in-Charge M/E/P/FP Design and Commissioning

Todd has over 38 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 including 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's Act which requires buildings use over 50% less energy than buildings designed using ASHRAE 90.1.

GOVERNMENT/COMMERCIAL EXPERIENCE

- Bank One, WV
- Bayer Material Science, WV
- Calvert County Aquatic Center, MD
- Culture Center, HVAC & Fire Protection
- General Motors Corp. Re-commissioning
- Jackson County Courthouse Annex
- Kanawha County Commission: 120,000 sf additions/renovations for the Judicial Annex/Kanawha County Courthouse
- Kanawha County Public Library
- Kohl's
- Laidley Towers, Charleston WV
- Mercer County Courthouse Annex
- Olin Corporation
- Phillip Morris USA
- Pendleton County Courthouse & Annex
- Public Service Commission of WV
- Rhone-Poulenc
- Robinson Grand Theatre, Clarksburg WV
- Santa Anna Federal Building, CA
- St. Patrick's Church, Weston WV
- WV Capitol Complex Central Heating Plant
- Sears
- Toyota Motor Manufacturer, WV Inc.
- Union Carbide/DOW
- United Center, Charleston WV
- Walker Machinery
- WV Air National Guard including Cx \$45M Fuel Cell/ Maintenance Hangars at Yeager Airport for LEED Silver
- WV Army National Guard
- WV Department of Transportation/DOH
- WV Division of Protective Services
- WV Higher Education Authority
- WV General Services Division
- WV Public Service Commission Headquarters
- WV State Capitol Complex renovations
- Yeager Airport



PROFESSIONAL REGISTRATIONS

Professional Engineer:

- Florida
- Georgia
- Kentucky
- Maryland
- North Carolina
- Ohio
- Pennsylvania
- South Carolina
- Virginia
- West Virginia

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



Certified Energy Manager (CEM) National Certification No. 2205



LEED Accredited Professional, National Certification through USGBC No. 10083891

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



www.zdsdesign.com

Ted (Todd) A. Zachwieja, P.E., CEM, LEED AP
CEO, Principal-in-Charge M/E/P/FP Design and Commissioning

PROFESSIONAL AND COMMUNITY AFFILIATIONS

Member of Investigative Engineers Association (I-ENG-A) and founder of I-ENG-A of the Tri-State Region

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 *Environment 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 Zachwieja III, P.E., CEM

Chief Technical Officer

Ted has over 14 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.

GOVERNMENT/COMMERCIAL EXPERIENCE

- WV Air National Guard Maintenance Hangar and Fuel Cell Hangar, Charleston, WV – **LEED Silver Certified**
- Bayer Material Science
- Catholic Church of Ascension, Parish Hall Renovations
- Coal Heritage Trails Center Renovations
- Kanawha County Judicial Annex HVAC Renovations
- Meadowbrook Rest Areas
- I-70 Welcome Center
- CASCI Building, Charleston WV
- Morgantown Welcome Center
- Pocahontas County Community Center
- Robinson Grand Theatre, Clarksburg WV
- Servia Rest Areas
- St. Patrick's Church, Weston WV
- Stonewall Jackson Marina
- University of Charleston Innovation Center Additions/Renovations
- William R. Sharpe, Jr. Hospital Additions/Renovations
- WV Parkways Authority, Toll Booth Plazas
- WV State Capital Complex Central Heating Plant
- White Sulfur Springs Rest Area
- Numerous K-12 School Renovations



PROFESSIONAL REGISTRATIONS

Professional Engineer:

Florida
West Virginia



Certified Energy Manager
(C.E.M.) National
Certificate No. [REDACTED]

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

 **ZDS**
Design/Consulting Services

www.zdsdesign.com

James E. Watters

Associate - Production Manager

Jim has nearly 40 years' experience in design and implementation of HVAC, plumbing and electrical systems including nine years in the construction industry. He has a comprehensive knowledge of construction documents, contracts, and development of cost estimates, budgets and schedules. Jim's strengths reside in his ability to manage projects and people in an organized and cost-effective manner. Jim has been involved with the design and production of mechanical and electrical drawings including HVAC, plumbing, fire protection, lighting, electrical power and specialized systems. He has worked with and managed engineers in projects for health care, educational and commercial buildings in the states of West Virginia, Florida, Maryland, Pennsylvania, Ohio, Kentucky, Virginia, Georgia, New York, Arizona, Illinois and Massachusetts.

Jim has extensive experience in energy savings' programs for HVAC, plumbing and electrical systems in hospitals, state and government office buildings, school systems, and manufacturing facilities, as well as managing performance contracts for a large facility's campus totaling \$10,000,000 in construction costs on various projects, including the conception, design and construction administration for the installation of a 1.5 Megawatt emergency generator. The propane-fired generator and associated switchgear in conjunction with 60,000 gallons of propane fuel storage served to provide peak shaving/load shedding to save on the campus utility costs as well as emergency power functions. Through the years, Jim has researched and implemented into practice International Building Codes, NFPA Codes, National Electrical Codes, Life Safety Codes, IES standards, AIA Guidelines for Design and Construction, and ADA guidelines. His involvement in construction through the years has been mainly from the design side of the industry with a 9 year stint working for a contracting firm at the turn of this century. His experience includes coordinating with Architects, Owners and Agencies including an excellent relationship with the office of State Fire Marshal.

GOVERNMENT/COMMERCIAL EXPERIENCE

- Bluefield Area Transit Authority Administration and Maintenance Facility design.
- Boyd County, Kentucky Judicial Center
- Chase Towers (formally Charleston National Bank)
- Department of Transportation Rest Area prototype
- Department of Transportation Welcome Center prototype
- Fenway Park in Boston - Lightning Protection/Grounding Study
- Glenville State College
- I-70 Welcome Center
- Jackson County Libraries Renovations
- Kanawha County Commission Judicial Annex Renovations
- Meadowbrook Rest Areas North and South Bound
- Morgantown Welcome Center
- Redmond House Renovations design
- Rhone-Poulenc New Admin. offices
- Robinson Grand Theatre, Clarksburg WV
- Sacred Heart Pavilion and Daycare Ctr.
- St. Patrick's Church, Weston WV
- Shawnee Park Clubhouse
- Stonewall Jackson Marina Renovations
- Tucker County Board Office Boiler Retrofit
- Tucker County Courthouse Renovations
- WV Air National Guard – Commissioning for \$43 million maintenance and fuel cell hangars – **LEED Silver Certified**
- WV Department of Military Affairs and Public Safety Maintenance Facility in Eleanor
- WV Department of Transportation Burnsville Rest Area (**AIA Merit Award Recipient**) and Domestic Water Pumping Station
- WV Division of Culture and History Fire Alarm/Sprinkler upgrades
- White Sulphur Springs Welcome Center

PROFESSIONAL AFFILIATIONS

Member of Investigative Engineers Association (I-ENG-A) of the Tri-State Region

Member of the National Fire Protection Association (NFPA)

Past Member of the Health Care Section of the NFPA

Member of the Illuminating Engineering Society (IES)

Past member of the American Society of Plumbing Engineers (ASPE)

Past member of the Institute of Electrical Engineers (IEE)

OTHER RECOGNITIONS

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

**ZDS**
Design/Consulting Services

www.zdsdesign.com

Paul S. O'Dell, P.E.

Senior Project Engineer

Paul has over 21 years of engineering experience involving the analysis, design, project management, specifications' writing and construction management on many projects throughout the region. This experience includes heating, ventilation, air conditioning (HVAC), plumbing, electrical systems and lighting for governmental, commercial, educational, healthcare, industrial and military facilities. He also has knowledge and experience with indoor environmental quality assessment, recommended remedial work and design of the necessary modifications in various types of buildings.

Paul assisted in the design and implementation of the pilot project for one of the largest geothermal heat pump systems in the mid-Atlantic region. He has also been involved in the design of facilities that have received the Energy Star Certification placing them in the nation's top 25% in energy savings for similar buildings and systems as well as his contribution as part of a large team effort performing mechanical systems' retro-commissioning at numerous automotive manufacturing facilities in North America.

His project experience is wide-ranging and includes the development of scope, design criteria and budget conscious designs. Working with other design professionals and through rapport with the clients he has conducted design peer reviews, construction budget and project schedule overview, Construction Administration and closeout of projects.

COMMERCIAL/GOVERNMENT EXPERIENCE

- WVARNG Armory/Annex
- Bruceton Bank
- Bank One
- Cultural Center
- Cuissets Residence
- Camp Dawson Barrack/mess hall
- DOT Huntington District II Headquarters Renovations
- Yeager Airport Terminal Expansion/Renovation
- DOH Testing Lab
- GMC Lordstown Assembly Plant
- GMC Janesville Assembly Plant
- GMC Pontiac East Assembly Plant
- GMC Bowling green Assembly Plant
- GMC Arlington Assembly Plant
- Harrison County Bank
- IMC Office Bldg.
- WV Capitol Complex Central Boiler Plant
- Kanawha County Commission Judicial Annex Additions/Renovations
- Appalachian Tire
- Laidley Towers, Charleston WV
- USDA Forestry Building
- University of Charleston Innovation Center Additions/Renovations
- William R. Sharpe, Jr. Hospital Additions/Renovations
- Numerous K-12 School Renovations

PROFESSIONAL REGISTRATIONS

Professional Engineer:
West Virginia

EDUCATION

Bachelor of Science in Mechanical Engineering from WV Institute of Technology, Montgomery, WV
(Graduated Cum Laude)

PROFESSIONAL AFFILIATIONS

Member American Society of Mechanical Engineers

Member ASHRAE


www.zdsdesign.com

Larry A. Weese

Sr. Technical Analyst

Larry has nearly 26 years of experience providing design and Construction Administration services in mechanical, plumbing, fire protection and various electrical systems. His experience encompasses a broad range of Projects including, but not limited to, Commercial, Government, Healthcare, Educational and Industrial facilities. These Projects over the years have ranged extensively from small to large in terms of both physical sizes and construction budgets.

Larry's primary strengths are in the design and implementation of piping systems including all domestic water, sanitary waste/vent, storm water and natural gas combined with an expertise in water heating systems, boilers, pumps, recirculating systems, Thermostatic Mixing Valves, etc. Other strengths include a good understanding of the design and layout of HVAC systems, fire protection/sprinkler systems, lighting and other electrical systems. He consistently stays current with applicable Codes and national, as well as local, standards and regulations.

He has a good awareness of all aspects of the design process and how the various disciplines need to be coordinated to avoid conflicts during construction. Larry has maintained growth as technology has changed throughout the years in the field of engineering design and drafting standards beginning with ink drafting on paper, varying degrees of CAD drafting and currently BIM/REVIT.

Working on multiple National Guard projects in recent years he has experience and understanding of the United Facilities Criteria Code 3-600. Many of the facilities utilized gas-fired instantaneous water heating systems and vehicle service bays that incorporated numerous piping/tubing systems for air, grease, oil and other fluids.

Larry's experience with site utility design and coordination with the associated utility is a valuable asset on all projects, whether new construction or extensive renovations.

GOVERNMENT/COMMERCIAL EXPERIENCE

- Bobcat of Advantage Valley Facility
- Charleston Fire Station
- Diamond Electric
- Dow Process Control Facility
- Elkins Armed Forces Reserve Center
- Fifth Avenue Baptist Church
- Foodland Stores
- Gassaway Armory
- Kroger Stores
- Lewisburg Readiness Center
- Mason County 911 Center
- Moorefield Readiness Center
- Orchard Manor Fire Station
- Raleigh County 911 Center
- Randolph County 911 Facility
- Rite Aid Stores
- Silver Trees Suites Hotels
- Summersville Readiness Center
- St. Albans Armory
- St. Albans Readiness Center
- St. Johns Church
- Verizon Office Buildings
- Yeager Airport
- WV Department of Highways

EDUCATIONAL EXPERIENCE

- Fairmont State College
- Fairdale Elementary School
- New River CTC
- Nitro High School
- South Charleston Middle School
- Sissonville Middle School
- Pikeview Middle School
- Lewisburg Elementary School
- Talcott Elementary School
- West Liberty University
- Marshall University
- WV Institute of Technology



EDUCATION

West Virginia University
Master of Science in Wood Science

West Virginia University
Bachelor of Science in Wood Science

 **ZDS**
Design/Consulting Services

www.zdsdesign.com

Boyd, Gary MA, CFP

2300 MacCorkle Ave. SE | 304 357-4871 | garyboyd@ucwv.edu

August 11, 2016

To Whom It May Concern

With well earned respect I would like to recommend ZDS as a high quality MEP design firm.

I have had multiple opportunities to work on highly technical projects with Todd Zachwieja and his team of skilled engineers. The first project that I had the opportunity to work with ZDS was a WVU project that connected several older chillers to develop a chilled water loop on the downtown campus. The project included piping through congested areas, load calculations, differential pressure and pump control, and load balancing. This project was designed to become a phased approach to a central chiller plant which is now in operation. The project was efficiently managed and the performance exceeded expectations. As the system changed and older chillers were removed from the loop, Todd always responded to questions and concerns to insure a positive outcome for the overall objective.

At present I am working with ZDS on a University of Charleston project constructing a new Innovation Center and Athletic Complex. ZDS has accommodated many twist and changes to this project. We are on track to open the new facility in December of this year. I have found Todd and his team to be highly responsive and professional.

Sincerely,



Boyd, Gary MA, CFP
Director of Facilities
University of Charleston



July 19, 2013

To whom it may concern:

ZDS Design/Consulting Services was sub-contracted by SAIC to perform the fundamental commissioning activities on a two-phase maintenance and fuel cell hangar project for the 130th Airlift Wing on the West Virginia Air National Guard Base at Yeager Airport outside Charleston, West Virginia.

Without hesitation, I recommend Todd Zachwieja and his team for their efforts on this complex project. The first phase, the Replace Aircraft Maintenance Hangar and Shops phase, was initially scoped to meet a certifiable level for LEED® certification. ZDS Design/Consulting Services worked with my team and the West Virginia Air National Guard (WVANG) representatives through the design phase to provide the necessary activities required to meet the LEED® Energy and Atmosphere Prerequisite 1, Fundamental Commissioning of the Building Energy Systems. However, when the second phase, the Fuel System/Corrosion Control Hangar and Shops phase, came to life about the time that phase 1 construction began, the entire project was required by the National Guard Bureau to be certified by the Green Building Certification Institute (GBCI) at a LEED® Silver level. ZDS Design/Consulting Services diligently worked with the general contractor, the WVANG and SAIC to develop an approach to the phasing of the commissioning activities for both buildings that still met the fundamental commissioning prerequisite requirements as one of the hangars was to lay dormant after completion for an extended period of time until near the completion of the second phase. This required that ZDS Design/Consulting Services perform some of the commissioning activities for the first phase during the first phase construction and the remainder during commissioning of the second phase.

Through the construction process, Todd Zachwieja's group kept me well informed on their schedule and their deliverables. Todd was frequently on my LEED status calls with the contractor to stay abreast of any upcoming issues that would affect the commissioning activities and to assist in how to resolve issues that would come up. In addition, ZDS Design/Consulting Services assisted us with services beyond the commissioning activities as well. These included providing and reviewing building flush-out calculations to determine if LEED® Indoor Environmental Quality Credit 3.2, Construction IAQ Management Plan, Before Occupancy, was achievable and providing light level readings for a light pole that needed to meet certain light levels. The project achieved LEED® Silver certification and the fundamental commissioning prerequisite was approved by the GBCI after the first construction review without qualification.

ZDS Design/Consulting Services proved to be a well-qualified firm that provides timely and efficient services. SAIC was extremely pleased with their services on this challenging project.

Sincerely,

SAIC Energy, Environment & Infrastructure, LLC

Thomas Warner, LEED® AP, BD&C
LEED Administrator/Senior Architect

SAIC Energy, Environment & Infrastructure, LLC

60 East Plato Boulevard, Suite 300 | St. Paul, MN 55107 | tel: 651.771.2222 | fax: 651.778.3911 | saic.com/EEandI

February 1, 2016



Michael Pickens

172 Oak Street

Dunbar, WV 25064

(304) 400-9993

RE: ZDS Design/Consulting Services

I have had the privilege to work with ZDS Design/Consulting Services' principals and many of their staff since working at the School Building Authority in the 1990's in my roles at the School Building Authority to my current role as Executive Director of the Office of School Facilities at the West Virginia Department of Education.

When an emergency issue arose, they would immediately make themselves available to help. ZDS's principal, Todd Zachwieja, did not hesitate to board a helicopter during a weekend to help assess the damage to the State's school facilities when damaging floods occurred. Helicopters were the only way to reach many of the facilities because the roads had been washed away or were impassible. Anytime a challenging issue has arisen that no one knew how to resolve, ZDS has stepped up to solve the challenges. Their extensive engineering knowledge of energy efficient systems, HVAC, controls, lighting, power and plumbing systems has always been at the leading edge in the industry, providing innovative solutions that also minimize energy and operating costs. I have always considered their approach in engineering design and commissioning for buildings to be the best and would highly recommend them to anyone.

Their ability to work with the State Fire Marshal and other agencies – while guiding everyone to a practical design approach – always provided each project with the best value. They are much more than excellent design engineers; they also understand the importance of operating and maintaining equipment and have hands-on knowledge to troubleshoot and also commission to ensure our projects were a great success. Their combined engineering design and commission skills prove to be invaluable.

ZDS Design/Consulting Services was also selected to help the WV Department of Education and the School Building Authority in writing new codes and standards to raise the bar for the entire State. They were chosen because their projects were a success while we were having challenges with others. Todd Zachwieja was also asked to teach school facility staff members, and his reference books continue to be used today. I would always think of ZDS first whenever a challenge would occur, knowing I would get the best results possible.

I trust ZDS's staff in their technical expertise and their approach in solving challenging engineering issues and believe that anyone who uses them will be as satisfied as I have been. They are worth it!

Sincerely,

A handwritten signature in blue ink that reads "Michael E. Pickens". The signature is written in a cursive, flowing style.

Michael E. Pickens



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

WYK Repeat Clientele

WYK Associates, Inc.

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



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

References

WYK Associates, Inc.

James A. Harris

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

Mark Bonamico

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

Dr. Judy P. Byers, Director of Folklife Center

Fairmont State University
1201 Locust Avenue
Fairmont, WV 26554
(304) 367-4861

Reta Griffith, GM - Elkins Region

Frontier Communications
(Former, Pocahontas County Commission)
902 3rd Avenue
Marlinton, WV 24954
(304) 799-3994

Steven Haning

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

Martin Howe, City Manager

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

Ben Propst

Barbour County Coordinator
8 North Main Street
Phillippi, WV 26416
(304) 457-4339

Dr. Jeffrey Browning, DDS

Total Dental
1219 Johnson Avenue
Suite 201
Bridgeport, WV 26330
(304) 842-7591

Dr. C. Kirkland, Ph. D, PMP

Executive Vice-President
Salem International University
223 West Main Street
Salem, WV 26426
(304) 782-5011

Dr. Mark Manchin, Superintendent

Harrison County Schools
445 West Main Street
Clarksburg, WV 26330
(304) 642-3300

Steve Casto, Superintendent

Lewis County Schools
239 Court Street
Weston, WV 26452
(304) 269-8333

Geoff Marshall

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

Gary W. Nickerson

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

Richard Roach, Mayor

Town of Gassaway
712 Braxton Street
Gassaway, WV 26624
(304) 364-5111

Neil Quinn

Director of Coordinator Services
Harrison County Schools
P.O. Box 1370
Clarksburg, WV 26302
(304) 326-7300

July 16, 2015

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

Dear James,

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

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

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

Sincerely,



Geoff Marshall
VP Support Services



Health Access, Inc.

489 Washington Avenue • Clarksburg, West Virginia 26301
Phone: 304-622-2708 • Fax: 304-623-9302 • E-mail: healthac@ma.rr.com • Web: www.healthaccessinc.org

July 10, 2015

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

RE: Letter of Recommendation

Dear Mr. Swiger:

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

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

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

James B. Swiger

Page -2-

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

Sincerely,


James A. Harris, Executive Director

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

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

TDD Numbers
Business: 472-9550
Emergency: 911

March 10, 2017

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

Re: Upshur County Courthouse Roof and Chimney Projects

To Whom It May Concern:

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

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

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

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

Sincerely,



Carrie L. Wallace
Upshur County Administrator

An Equal Opportunity Employer



CITY OF CLARKSBURG

WEST VIRGINIA

OFFICE OF
CITY MANAGER

November 7, 2016

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

Re: Letter of Appreciation

Dear James:

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

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

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

Sincerely,


Martin Howe, ICMA-CM
City Manager

TOWN OF GASSAWAY

RICHARD M. ROACH, MAYOR

CHERRI WILSON-GERWIG, RECORDER/CLERK

RICK A. BURROWS, SR. CHIEF OF POLICE

COMMON COUNCIL

JIM MALICK

FRANCES CLAYTOR

JIM CRINER

LYNN JEFFRIES


EDNA WILSON

Jordan Garland
205 Washington Avenue
Clarksburg, West Virginia 26301

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

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

Regards,

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**



1219 Johnson Avenue, Suite 201
Bridgeport, WV 26330

304-842-7591

To whom it may concern:

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

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

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

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

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

Sincerely,

Jeffrey W Browning, DDS



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

Writer's Contact Information

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

March 10, 2016

To Whom It May Concern:

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

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

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

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

March 10, 2016

Page two

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

Very truly yours,

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

Gary W. Nickerson

GWN

7133013.1

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.



Webster County Economic Development Authority

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

February 8, 2016

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

To Whom It May Concern:

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

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

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

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

Sincerely,

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

Geary Weir
Executive Director



LEWIS COUNTY SCHOOLS

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

Superintendent
Dr. Joseph L. Mace

February 4, 2016

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

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

To Whom It May Concern:

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

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

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

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

Sincerely,

Dr. Joseph Mace, Superintendent
Lewis County Board of Education



DR. MARK A. MANCHIN
Superintendent

HARRISON COUNTY SCHOOLS

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

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

August 18, 2015

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

To Whom It May Concern:

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

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

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

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

Sincerely,

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

Neil Quinn, Director
Harrison County Schools



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

August 14, 2015

To whom it may concern:

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

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

Sincerely,

MX

D. Max Francis
Interim Executive Director

August 13, 2015

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

Dear James,

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

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

Thank you for your excellent work on the project.

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



BOB TRICKETT

Cadillac Buick GMC Inc.

GMC



P.O. Box 909, Route 50, East • CLARKSBURG, WEST VIRGINIA 26301 • (304) 624-6564

February 5, 2016

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

To whom it may concern:

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

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

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

Please contact me for further information or questions.

Sincerely,

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

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

James B. Swiger, AIA, NCARB, LEED AP

President/Principal

WYK Associates, Inc.

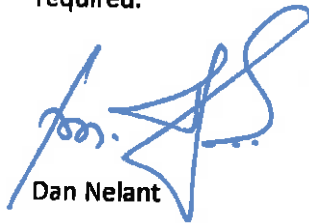
205 Washington Avenue

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

March 10, 2011

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

Dear James:

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

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

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

Thank you again for all your assistance.

Reta Griffith

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



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

September 20, 2010

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

Dear Mr. Swiger,

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "C. Feathers".

Charles A. Feathers, Chief

Bridgeport Fire Department

40 Main Street
Shinnston, WV 26431-1198



Phone (304) 592-5631
Fax (304) 592-1597

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,

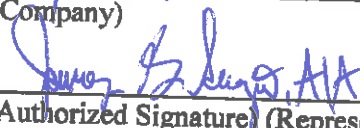
A handwritten signature in cursive script that reads "Emma Clarke".

Emma Clarke
Finance Officer

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.

Jordan Garland, Director of Business Devp & Mrkting
 (Name, Title)
Jordan Garland, Director BDM
 (Printed Name and Title)
205 Washington Ave., Clarksburg WV 26301
 (Address)
304.624.6326 / 304.623.9858
 (Phone Number) / (Fax Number)
jordan@wykarchitects.com
 (email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

WYK Associates, Inc
 (Company)
 PRESIDENT
 (Authorized Signature) (Representative Name, Title)
JAMES B. SWIGER, AIA - PRESIDENT
 (Printed Name and Title of Authorized Representative)
10/16/17
 (Date)
304.624.6326 / 304.623.9858
 (Phone Number) (Fax Number)

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

ALL OTHER CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

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

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: WYK Associates, Inc.

Authorized Signature: [Signature] Date: 10/16/17

State of West Virginia

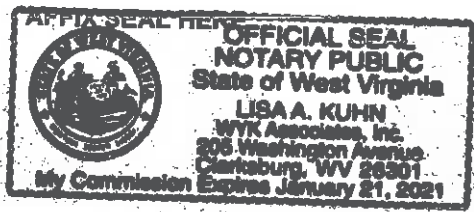
County of Harrison, to-wit:

Taken, subscribed, and sworn to before me this 16th day of October, 2017.

My Commission expires 01/21, 2021.

NOTARY PUBLIC [Signature]

Purchasing Affidavit (Revised 07/07/2017)



ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: DNR1800000002

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

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

Addendum Numbers Received:

(Check the box next to each addendum received)

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

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

WYK Associates, Inc.
Company
James E. King, III
Authorized Signature
10/16/17
Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.
Revised 6/8/2012