

**West Virginia Army National Guard
Construction and Facilities Management Office**



CEOI 0603 ADJ1800000003

**Camp Dawson Building 202
Conversion/Renovation At Kingwood, WV**

09/05/17 09:37:18
WV Purchasing Division



McKINLEY & ASSOCIATES
ARCHITECTS • ENGINEERS • INTERIOR DESIGN

in association with:



STAFFORD CONSULTANTS INCORPORATED
Engineering, Design, Consulting, Planning, & Environmental Services





August 31, 2017

Crystal Rink
Senior Buyer
Department of Administration
Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

Dear Ms. Rink and Members of the Selection Team,

McKinley & Associates and Stafford Consultants (McKinley/Stafford Team) have teamed up again, and are pleased to provide the West Virginia Army National Guard Construction and Facilities Management Office with our expression of interest to provide architecture and engineering design services to convert the Camp Dawson Building 202 from a dining hall to a functioning computer classroom facility. As you review this submission, we emphasize the following strengths of the McKinley/Stafford Team with respect to your proposed project:

McKinley & Associates is a full-service architectural and engineering firm that has been providing design services since 1981. We are a 100% ESOP Company (Employee Stock Ownership Plan), so our employees own 100% of our corporation! With offices in Wheeling and Charleston, WV and Pittsburgh, PA, we support a professional staff of **Architects, Engineers, Construction Administrators**, a certified Interior Designer, and more. We have an **Accredited Learning Environment Planner (one of only 6 in West Virginia; and 195 in the entire world!)**, as well as a **Certified** and a **Recognized Educational Facility Planner** on staff, whom are both Architects, and they will utilize these marks of excellence when they assist with the development of the plans and the design of the new computer classroom facility. Our staff also includes **LEED Accredited Professionals specializing in Building Design and Construction**, whom are also both Architects, and can add energy efficient ("green") aspects into your project.

We have experience with all aspects of your project, in both the governmental and educational sectors, and **we know we can meet your project goals and objectives**. This experience includes demolition of rooms, modifying MEP systems, expanding restrooms, secure entry doors, security windows, new finishes, sound and acoustics, raised floors, flexible spaces and divider walls, computer and classroom facilities, and much more. From all of our experiences, we have gained the knowledge to realize there will be a multi-purpose nature of your complex, which may have some special design considerations. Some of the **specialized scope we have designed for includes**: sensitivity to the people using the facility, flexible environments and expandability of structure for growth in services and operations so the interior could easily be modified and exterior could easily be adjusted in the future, **safety and security, cost and energy efficiency, uninterruptible power supply (UPS) and backup power generators, compliance with current building codes, force protection of the building, sound and acoustics for a quiet spaces, room layouts and efficient use of space, improving comforts through lighting and ergonomically sound furnishings, and much more.**

McKinley & Associates knows innovative design and the newest technology, and we know how and when to apply it effectively. We have award-winning projects, completed multiple **LEED Certified and LEED Registered** projects, designed a project with all LED interior and exterior lighting for the same cost as conventional florescent lighting, and recently designed a VRF HVAC system with anticipated cost reduction of 30%, just to name a few. We also understand that it is imperative to **make our buildings safer**, and recently performed a statewide School Safety and Vulnerability Assessment for the department of homeland security (**includes all 705 schools in West Virginia**).

McKinley & Associates has designed hundreds of classrooms from new construction to additions and renovations, including dozens of **computer classrooms**. We take great pride in our designs, and some recent educational achievements include: The new Hilltop Elementary School is **the first LEED Certified School** in the State of West Virginia, and has **won multiple State and National awards and recognitions** including the U.S. Department of Education Green Ribbon School, the Black Bear Awards for Highest Achievement from the WV Department of Education's West Virginia Sustainable Schools program, and many more. In addition, Cameron Middle/High School also won both of those, among its many awards. These projects both had state-of-the-art **computer classrooms**.

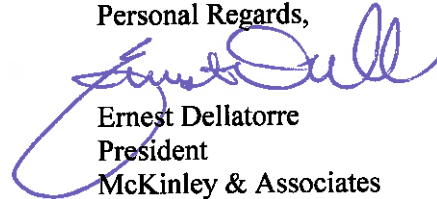
Stafford Consultants, Inc. our **Structural and Civil Engineering consultant**, was founded in 1985. Stafford currently employs a total staff of eighteen, including five registered professional engineers. Their firm is a full service Engineering firm that provides services in Civil, Structural, Highway, Bridge, Airport, Environmental and Sanitary Engineering. All structural projects and site civil projects at Stafford are managed by Kenneth R. Crowe, PE. Kenneth has over 35 years of structural and site civil engineering experience.

McKinley & Associates has utilized the services of Stafford Consultants on **dozens** of projects across the State, and in multiple sectors of business; these projects range from new construction to additions and renovations.

In closing, one of the more exciting aspects of our job is listening to **you**, our client, in how you envision this project, and transforming your ideas into realities. This can only be accomplished by effectively working together with you. We are committed to each of our projects. Most of our clients are repeat, which is a good indication of the services we provide. The main reason we have been able to maintain this relationship is because we **listen to their needs, and deliver**.

Thank you for reviewing our submission and considering the McKinley/Stafford Team for your project. We are very excited about the possibility of working with the West Virginia Army National Guard again.

Personal Regards,



Ernest Dellatorre
President

McKinley & Associates

(304) 233-0140

edellatorre@mckinleyassoc.com



McKINLEY & ASSOCIATES
ARCHITECTS • ENGINEERS • INTERIOR DESIGN

Design Team Flow Chart



Project Architect / Point of Contact

Thomas R. Worlledge, AIA, LEED AP BD+C, REFP

*Architect / LEED Accredited Professional Specializing in
Building Design & Construction / Recognized
Educational Facilities Planner*

Engineering Team

Tim E. Mizer, PE, RA, QCxP

*Director of Operations /
Architectural Engineer / Architect / Commissioning Provider*

Scott D. Kain

Plumbing & Electrical Engineering Designer

Michael A. Heath

HVAC & Fire Protection Engineering Designer

Michael J. Clark

Electrical Engineering Designer

⌘ **Kenneth R. Crowe, PE**
Structural Engineer

⌘ **Stacy A. Fowler, PE**
Site Civil Engineer

Interior Design

Deb Blakeman, NCIDQ #015070

Construction Administration

Robert E. Smith

** The McKinley/Stafford Team is willing to dedicate more professionals if they are needed; including more Architects, Engineers, Designers, Learning Environment Planners, LEED Accredited Professionals, and more.*

Thomas R. Worledge, AIA, LEED AP BD+C, REFP

Architect / LEED Accredited Professional / Educational Facility Planner



EDUCATION:

Virginia Polytechnic Institute & State University
Master of Architecture - 1992

Fairmont State College, School of Technology
B.S. Architectural Eng. Tech. - 1983

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

Registered Architect in:

West Virginia
Ohio
Pennsylvania
Tennessee
Virginia

National Board Certification:

NCARB #48600

President:

West Virginia Society of Architects

Member:

The American Institute of Architects
US Green Building Council
Sustainable Building Industries Council
Recognized Educational Facility Professional (REFP)

Former voting member:

ASHRAE 90.1 International Energy Code
Committee

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Manager, Charleston Office
Charleston, WV (2005 to present)

Proactive Architecture Inc.
President
Charleston, WV (1999-2005)

Silling Associates Inc.
Vice President
Charleston, WV (1992-1999)

TAG Architects
Charleston, WV (1985-1990)

Alpha Associates Inc.
Morgantown, WV (1983-1985)

SUMMARY OF EXPERIENCE:

Mr. Worledge is a skilled **Architect** with over 30 years of experience, who has been the former President of the WV chapter of AIA, has received national design awards, and placed in global design competitions. Thom was the first LEED AP in WV, has been a member of the USGBC since 2001, and is a Founder & Chairman of the Board for USGBC's WV Chapter. As a **LEED Accredited Professional specializing in Building Design & Construction** and a recognized sustainable design expert, he has multiple LEED and other energy-efficient projects; had articles published in State and national trade publications; was a featured speaker at multiple national conferences; served on the committee that sets the standards for the international energy code; professionally teaches and trains other professionals in the art of High Performance School design; and much more. Thom is also a **Recognized Educational Facility Planner** as designated by the A4LE (formerly CEFPI); a credential for industry professionals who plan and design quality school facilities. He has utilized this knowledge in the design of multiple projects since being designated in 2007, ranging from a new LEED Certified elementary school to a \$23 million high school addition/renovation project; many of these had **computer classrooms**.

NOTABLE PROFESSIONAL ACHIEVEMENTS:

Building 55: WV State Office Complex in Logan (**LEED Certified**)

WV SBA - State-Wide School Safety/Vulnerability Assessments

Boone County Schools - Ashford Rumble Elementary, Boone Co. Honors Academy, Brookview Elementary, Madison Elementary, Madison Middle, Scott High, & Van Elementary Schools renovations and/or additions

Hancock County Schools - Oak Glen High & Weir High renovations

Harrison County Schools - NEW Johnson Elementary School

Marshall County Schools - NEW Hilltop Elementary (**LEED Certified** / won multiple State and National Awards & Recognitions), McNinch Elementary, & Sherrard Middle Schools

Wood County Schools - Parkersburg High (\$23M) & Williamstown High (\$13.5M) Schools additions/renovations

Fairmont State University - College Apartments Complex (\$30M)

West Virginia University - University Police Building renovations

WVU Institute of Technology - Maclin Hall renovations

WVSU's Gus R. Douglass Economic Development Center renovations

SWVCTC - Wyoming/McDowell & Williamson Campuses renovations

West Virginia Plaster and Cement Masons Training Building

West Virginia Department of Health & Human Resources' Ohio County Office Building fit-out / renovations

West Virginia State Police - multiple projects throughout WV

United States Postal Service - multiple projects throughout WV

Williamson Redevelopment Authority's SMART Office fit-out (LEED Registered / 2013 Placemaker Award)

Charleston Enterprise Center renovation (WV AIA Design Award)

Tim E. Mizer, PE, RA, QCxP

Architectural Engineer / Architect / Commissioning Provider

Director of Operations

EDUCATION:

Kansas State University
B.S. Architectural Engineering - 1983

University of Cincinnati
Architecture

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

Registered Engineering in:
West Virginia
Ohio

Registered Architect in:
Ohio

Qualified Commissioning Process
Provider

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Director of Operations
Architect / Engineer / Commissioning
Wheeling, WV (1995 to present)

M.C.C. Engineering
Director of Design
Columbus, Ohio (1988-1995)

Schooley Caldwell and Associates
Electrical & Mechanical Design
Columbus, Ohio (1986-1988)

Mizer Design
Free Lance Architectural Engineering Design
Columbus, Ohio (1985-1986)

Envirotek, Inc.
Drafting and Electrical & Mechanical Design
Raleigh, NC (1984-1985)

SUMMARY OF EXPERIENCE:

A very talented and unique professional who is registered both in engineering and architecture. In addition, he is also a Qualified Commissioning Provider. Mizer's background as both an Architect and Engineer has provided him with a total understanding of the engineering components and the process necessary for integrating architectural design and building systems. Furthermore, as a qualified commissioning process provider, he has been formally trained to fully understand how integrated HVAC systems function and how systems interface with others to run your building efficiently. As the Director of Operations, Mr. Mizer's presence is a key to the design procedures required to coordinate the functionality of the engineering systems into the aesthetics of a building space.

NOTABLE PROFESSIONAL EXPERIENCES:

West Virginia Army National Guard - multiple projects

West Virginia University - Colson Hall office fit-out, State Fire Training Academy, University Police Building renovations, and more

Boone County Schools - Ashford Rumble Elementary addition/renovations, Boone County Honors Academy addition/renovations, Brookview Elementary addition/renovations, & multiple other projects

Braxton County Schools - Braxton County High addition/renovations

Brooke County Schools - Brooke High HVAC renovations, new Brooke Middle, & Follansbee Middle renovations

Grant County Schools - Maysville Elementary renovations, Petersburg Elementary renovations, Petersburg High addition/renovations, & Union Educational Complex addition/renovations

Hancock County Schools - new Oak Glen Middle, new Weirton Elementary, & multiple addition/renovation projects

Marshall County Schools - new Cameron Middle/High (LEED Registered), new Hilltop Elementary (LEED Certified), & multiple addition/renovations

Wetzel County Schools - Long Drain Elementary renovations, New Martinsville Elementary renovations, & multiple other projects

Wood County Schools - Parkersburg High addition/renovations, Parkersburg South High addition/renovations, Williamstown High addition/renovations, & multiple other addition/renovation projects

Building 55: WV State Office Complex in Logan (LEED Certified)

Building 34: WV State Office Complex in Weirton

WVDHHR's new Ohio County office fit-out

Orrick's Global Operations Center

Maxwell Centre office building fit-outs

Bennett Square office building fit-outs

Wagner Building office building fit-outs

West Virginia State Police - multiple projects state-wide

Scott D. Kain

Plumbing Engineering Designer

EDUCATION:

Technology Education College /
Ohio State University
Associates in Mechanical Design - 1996

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Engineering Designer
Wheeling, WV (2001 to present)

HAWA Inc.
Mechanical Designer
Columbus, OH (1998-2001)

Autotool Inc.
Engineer
Columbus, OH (1995-1998)

SUMMARY OF EXPERIENCE:

Mr. Kain is an accomplished engineering designer who has performed in all the engineering trades we provide; specializing in plumbing, electrical, and fire protection. He has been utilized for various projects that needed additional mechanical, structural, and architectural manpower. In addition, Mr. Kain has also provided 3D renderings, to aid in business development, during his long tenure at McKinley & Associates.

NOTABLE PROFESSIONAL EXPERIENCES:

West Virginia Army National Guard - multiple projects

Boone County Schools - Boone County Honors Academy renovations/addition, Madison Elementary renovations/addition, Madison Middle renovations, Scott High renovations, & multiple other projects

Grant County Schools - Maysville Elementary renovations, Petersburg Elementary renovations, Petersburg High renovations, Union Educational Complex renovations/addition, & multiple other projects

Hancock County Schools - Oak Glen High renovations, Oak Glen Middle HVAC & renovations, Senator John D. Rockefeller IV Career Center HVAC & renovations, Weir Middle/High School HVAC & renovations, new Weirton Elementary School, & multiple other projects

Marshall County Schools - new Cameron Middle/High School (LEED Registered), Central Elementary renovations, new Hilltop Elementary (LEED Certified), McNinch Elementary renovations, & other projects

Ohio County Schools - Bridge Street Middle School renovations, J.B. Chambers Performing Arts Center, Madison Elementary renovations, Wheeling Park High renovations/additions, & multiple other projects

Tyler Co. Schools - open-end contract / multiple projects

Wetzel Co. Schools - open-end contract / multiple projects

Wood County Schools - Parkersburg High renovations/addition, Parkersburg South High renovations/addition, Williamstown High renovations/addition, & multiple other projects

West Virginia University - open-end contract, Colson Hall renovations/upgrade, State Fire Training Academy, & multiple other projects

WVSU's Gus R. Douglass Economic Development Center

West Virginia State Police - open-end contract / dozens of projects

United States Postal Service - IDIQ contract / dozens of projects

Building 55: West Virginia State Office Complex (LEED Certified)

Wheeling Island Fire Station

Orrick's Global Operations Center

Bennett Square multi-use building



Michael A. Heath

HVAC / Mechanical & Fire Protection Engineering Designer

EDUCATION:

ITT Technical Institute
Associate Degree in Specialized Technology:
Computer-Aided Drafting Technology - 2000

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Mechanical & Fire Protection Designer
Wheeling, WV (2007 to present)

Janus, Inc.
AutoCAD Designer / Project Manager
Pittsburgh, PA (2002-2007)

Comunale Automatic Sprinkler
Fire Protection Designer
Pittsburgh, PA (July 05 - Oct 05)

S.A. Comunale Inc.
Fire Protection Designer
Pittsburgh, PA (2000-2002)

SUMMARY OF EXPERIENCE:

Mr. Heath brings a cross-trained design background to your project, and has vast knowledge in a diverse range of disciplines. He was trained by the National Fire Protection Association (NFPA) in Dallas, Texas, and has used these skills to work on projects from multiple business sectors and with various sizes, such as the 4 story, 1,500,000 square foot David L. Lawrence Convention Center in Pittsburgh, Pennsylvania. He has vast expertise in designing and calculating fire protection systems, standpipes, dry and wet systems, hydraulics, and water cannons; stock listing materials for systems; as well as surveying job sites and frequent business trips to coordinate jobs.

NOTABLE PROFESSIONAL EXPERIENCES:

West Virginia Army National Guard - Multipurpose Building at Camp Dawson

Building 55: WV State Office Complex in Logan (LEED Certified)

Bennett Square multi-use building

WVDHHR's new Ohio County office building fit-out

WVDRS Wheeling District's new office space fit-out

Boone County Schools - multiple projects

Marshall County Schools - multiple projects

Ohio County Schools - multiple projects

Hancock County Schools - multiple projects

Ritchie County Middle/High School projects

Tyler County Schools - 3 HVAC renovations

Wetzel County Schools - Long Drain Elementary renovations

Panhandle Cleaning & Restoration warehouse & office building

Cabela's Eastern Distribution Center

Carenbauer Wholesale Corp. office renovations / new warehouse

Silver Company - Moss Neck Storage Building

PWP Industries

Wheeling Island Hotel•Casino•Racetrack - various projects

West Virginia Independence Hall renovations

Candlewood Suites Hotel

Holiday Inn Express Hotel & Suites

Capitol Theatre renovations

For 14 West Virginia counties; provided Fire Protection and Mechanical assessments at every school (160+ schools), for their 10-year Comprehensive Educational Facilities Plan (CEFP).



Michael J. Clark Sr.

Electrical Engineering Designer

EDUCATION:

Eastern Gateway Community College
A-ATS Electro-Mechanical Engineering - 2012

Jefferson Community College
A-ATS Electrical Trade Technology - 2003

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

Certified in SMAW Weld Process & Basic
Welding and Applications 2002

West Virginia Journeyman License

Ohio Fire Alarm License

OSHA 30 Certified

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Electrical Engineering Designer
Wheeling, WV (2012 to present)

Arcelor Mittal
Maintenance Technician Electrician
Weirton, WV (2012)

M.J. Electric
Journeyman Electrician
Iron Mountain, MI (2010-2012)

Erb Electric Company
Journeyman Electrician
Bridgeport, OH (2009-2010)

Bechtel Group Inc.
Journeyman Electrician
Glendale, AZ (2009)

Cattrell Companies, Inc
Journeyman Electrician
Toronto, OH (1998-2009)

SUMMARY OF EXPERIENCE:

Mr. Clark is an Electrical Engineering Designer and a Certified Journeyman Electrician with over 20 years of industrial, commercial and residential experience. He is knowledgeable in all areas of the national electrical code and excels in analyzing and solving problems with various electrical controls and systems. Mr. Clark brings a cross-trained background to our projects, being skilled in both the design and the construction ends which gives him a unique ability to understand all aspects of a project. He is also adept in performing electrical and mechanical installations, maintenance and repairs in plant facilities. Furthermore, he is seasoned as an Electrical Foreman and Superintendent on both commercial and industrial job sites. His key skills include Electrical Systems & Controls, Installations & Maintenance, Electromechanical Repairs, Blueprints & Schematics, Generators & Transformers, Switches & Circuit Breakers, Electrical Code, Safety & QA, Wiring Diagrams, Troubleshooting, Testing Instruments, Motors & Conduit, CAD-2D/3D, Welding, & Residential construction.

NOTABLE PROFESSIONAL EXPERIENCES:

Brooke County Schools - Adult Learning Center (ALC)
Grant County Schools - Maysville renovations
Hampshire County Schools - Animal Vet Science Center
Hancock County Schools - Weirton Elementary
Hancock County Schools - Oak Glen High renovations
Hancock County Schools - Weir High renovations
Marshall County Schools - Cameron High
The Linsly School renovations
Building 55: WV State Office Complex in Logan (LEED Certified)
Carenbauer Wholesale Corp. office renovation/warehouse addition
Silver Company - Moss Neck Storage Building
Bennett Square office build-out
WVDRS Wheeling District's new office space fit-out
Follansbee City Building
Wellsburg City Building
Jefferson County Courthouse
Union Bank renovations
City of Steubenville - Parks Lighting
Candlewood Suites Hotel
Holiday Inn Express Hotel & Suites
Grave Creek Mound Museum renovations
West Liberty University - Football Field Lighting





KENNETH R. CROWE, P.E.
VICE PRESIDENT

EDUCATION:

West Virginia Institute of Technology
Bachelor of Science, Civil Engineering (1976)

REGISTRATIONS/AFFILIATIONS:

Registered Professional Engineer in
West Virginia (1980) and Virginia (1981)

EXPERIENCE:

Stafford Consultants Incorporated (1985 to present)
Gates Engineering Company (1981 to 1985)
Westmoreland Coal Company (1976 to 1981)

PROJECT MANAGER AND DESIGN ENGINEER:

- Cameron High School, Marshall County – site work
- Weirton Elementary School, Hancock County – site work
- Hilltop Elementary School, Marshall County – site work
- Williamstown High School renovations, Wood County – site work
- Bayer Federal Credit Union, Ohio County – site work
- Brooke County Middle School, Brooke County – structural and site work
- Oak Glen High School Multi-use Stadium, Hancock County – site work
- Marshall University Married Student Housing, Huntington, WV – structural renovation work
- Princeton Renaissance Theater Renovations, Princeton, WV – structural renovation work
- Mercer County Health Center in Green Valley, WV – structural and site work
- Oakvale Elementary School in Oakvale, WV – structural and site work
- North Central Advanced Technology Center in Marion County, WV – structural work
- Merriman Athletic Facilities building at Virginia Tech – structural and site work
- 25 projects for the WVDoH including Cass Arch Bridge (*WVDoH Small Bridge Engineering Excellence Award Winner*), Mineral Wells I-77 Interchange Overpass Bridge (*WVDoH Small Bridge Engineering Achievement Award Finalist*), Camden Avenue I-77 Bridge, Grapevine Creek Bridge (*WVDoH Small Roadway Engineering Excellence Award Winner*), North Lewisburg Road Widening (*WVDoH Small Roadway Engineering Achievement Award Finalist*), and Mullens Overhead Bridge.
- 21 mine reclamation projects for the WVDEP, including Williamson Nursing Home Slide, Milburn Red Dog Pile, Mill Branch Refuse Piles, Canebrake Complex, and Matoaka Refuse Pile.



STACY A. FOWLER, P.E.
PROJECT MANAGER

EDUCATION:

Bluefield State College
BS, Civil Engineering Technology (1995)
University of Central Florida
Master of Science, Civil Engineering (2007)

REGISTRATIONS/AFFILIATIONS:

Registered Professional Engineer in West Virginia (2002),
Georgia (2003), and Florida (2007)

EXPERIENCE:

Stafford Consultants Incorporated (2009 to present)
Engineering Design and Construction, Inc. (2004-2009)
Port St. Lucie, FL Utility Systems Dept. (2001 to 2004)
Velcon Group, Incorporated (1998 to 2001)

Pentree, Inc. (1998)
Computects, Incorporated (1997-1998)
Visualizations, Incorporated (1995-1997)
Pentree, Inc. (1995)

PROJECT MANAGER AND DESIGNER:

- Meadow Bridge Sewer Improvements Project for the Town of Meadow Bridge, WV
- Mercer/Summers Phase IV-A Waterline Extension for Oakvale Road PSD – 8 miles of water main, storage tank and pressure reducing stations near Oakvale, WV
- Town of Rainelle Water System Expansion Project in Greenbrier County, WV
- Renovations to the Welch Water Treatment Plant for the City of Welch, WV
- Southern Grove Master Drainage Model for 3,600 acre development in Port St. Lucie, FL
- Tradition Operable Structures within the Tradition Development in Port St. Lucie, FL
- Tradition Master Control Structure spanning 50' wide drainage canal for 1,500 acre land development project in Port St. Lucie, FL
- Western Grove Master Drainage Model for 1,550 acre development in Port St. Lucie, FL
- Peacock Canal Relocation and Maintenance – included stream restoration and relocation for 3,000 acre land development in Port St. Lucie, FL
- Chester Brook Academy – paving, grading, and drainage plans along with permitting for 10,000 sq.ft. day care facility in Port St. Lucie, FL
- Port Consolidated – paving, grading, and drainage plans along with permitting for a 2 acre fueling station in Fort Pierce, FL
- B-Shaped Lake – construction plans, permitting, and contract administration for 2 acre, 80' deep lake for stormwater system in Port St. Lucie, FL

Deb Blakeman, NCIDQ #015070

Interior Designer



National Council for
Interior Design Qualification

EDUCATION:

University of Charleston
Bachelor of Arts, Interior Design - 1992

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

**National Council for Interior
Design Qualification:**
NCIDQ [REDACTED]

Associate Member:

The American Institute of Architects

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Charleston, WV (2004 to present)

HDMR Group Inc
Charleston, WV (2000-2004)

Custom Office Furniture
Charleston, WV (1994-2000)

University of Charleston
Teacher
Charleston, WV (1997-2000)

Interior Design
Charleston, WV (1992-1994)

Freeland Furniture Company
Charleston, WV (1981-1987)

Interior Reflections
Logan, WV (1980-1981)

SUMMARY OF EXPERIENCE:

Deb Blakeman has over 30 combined years of experience in the interior design field including corporate facilities, banks, residential, education and health care projects. She has knowledge and experience with application of ADA regulations, ergonomic standards, state building code and industrial standards as they apply to interior furnishings, space planning and finishes. Ms. Blakeman has spent a lot of time researching LEED-approved furnishings, finishes, etc. to make the interior energy conservation aspect a success in multiple sustainable projects. As a professional designer, Deb Blakeman believes it is important to find the right balance between organizational and individual needs to increase productivity. Improving comforts through lighting and ergonomically sound furnishings will increase employer performance, and efficient spaces will organize work flow, decreasing communication barriers.

NOTABLE PROFESSIONAL EXPERIENCES:

Building 55: WV State Office Complex in Logan (LEED Certified)

WVSU's Gus R. Douglass Economic Development Center renovations

Charleston Enterprise Center renovations (WV AIA Design Award winner)

Bennett Square business center multiple tenants fit-outs

Panhandle Cleaning & Restoration office, workshop, warehouse

West Virginia University - Open-End A/E contract / Colson Hall renovations, new State Fire Training Academy, WVU Institute of Technology's Maclin Hall Dormitory, and more

West Virginia State Police - Open-End A/E contract / multiple projects across WV, including many WVSP Academy buildings, new Logan Detachment, and more

Wheeling Island Hotel•Casino•Racetrack - multiple projects

Boone County Schools - Ashford Rumble Elementary, Boone County Honors Academy addition/renovations, Brookview Elementary addition/renovations, Madison Elementary addition/renovations, & more

Clay County Schools - Lizemore Elementary renovations

Grant County Schools - Petersburg High addition/renovations, & Union Educational Complex addition/renovations

Hancock County Schools - District-Wide Construction Program / multiple projects: new construction, renovations, & additions

Harrison County Schools - new Johnson Elementary

Marshall County Schools - multiple projects, including Hilltop Elementary (LEED Certified) and Cameron High (LEED Registered)

Ohio Co. Schools - Madison Elementary, Wheeling Park High, and more

Wood County Schools - Parkersburg High addition/renovations, Williamson High addition/renovations, & more

WV Northern Community College - multiple projects, including Education Center renovations and B. & O. Building renovations



McKINLEY & ASSOCIATES
ARCHITECTS • ENGINEERS • INTERIOR DESIGN

Robert E. Smith

Construction Administrator

EDUCATION:

University of Pittsburgh
M.S. Industrial Engineering - 1989

United States Air Force Academy
B.S. Behavioral Science /
Human Factors Engineering - 1983

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

Board Member:

Indian Creek School District

Instructor:

Mechanical Engineering, Eastern Gateway
Community College

Village Administrator:

City of Mingo Junction

Commander:

American Legion Post 351

PROFESSIONAL EMPLOYMENT:

McKinley & Associates
Construction Administrator
Wheeling, WV (2009 to present)

Jefferson County Regional Planning Commission
Regional Planner
Steubenville, OH (2008-2009)

Edison Local School District
Director of Operation (1999-2008)
Transportation Supervisor (1998-1999)
Hammondsville, OH

MILITARY SERVICE:

Wright Patterson Air Force Base - Dayton, OH
Chief B-2, Block 20 Field Retrofit, \$300 million
B-2 Systems Program Office (1994-1996)
Team Leader, Process Improvement Technology
Armstrong Laboratory (1989-1994)

Randolph Air Force Base - San Antonio, TX
Chief, Test Construction Section
Occupational Measurement Center (1987-1988)
Quality Control Psychologist
Occupational Measurement Center (1985-1987)
Supervisor of Test Construction Team
Occupational Measurement Center (1983-1985)

SUMMARY OF EXPERIENCE:

Mr. Smith is a self confident, articulate and highly motivated individual with superior interpersonal and teamwork skills. He has a plethora of experience in mid to upper level personnel management, advanced information systems integration, training, acquisition, contract management, transportation and maintenance, and quality control. He has 23 years of direct supervisory experience, as well as 13 years of documented success as an Air Force Officer. He is currently a member of the Board of Education for the Indian Creek School District in Jefferson County, Ohio. He is also an Adjunct Professor at Eastern Gateway Community College in Steubenville, Ohio, where he is teaching Mechanical Engineering.

NOTABLE PROFESSIONAL EXPERIENCES:

West Virginia Army National Guard - AASF#1 hangar renovations

Brooke County Schools - Brooke High HVAC, new Brooke Middle, Follansbee Middle & Carlin Dodrill Fieldhouse renovations

Grant County Schools - Maysville Elementary & gymnasium renovations & Union Educational Complex renovations

Hancock County Schools - A.T. Allison Elementary renovations, New Manchester Elementary renovations, Oak Glen High renovations, Oak Glen High Multi-Sports Complex, Oak Glen Middle addition/renovations, Senator John D. Rockefeller IV Career Center HVAC, Weir High Multi-Sports Complex, Weir MS/HS HVAC, & new Weirton Elementary

Marshall County Schools - new Cameron High (LEED Registered) & new Hilltop Elementary (LEED Certified)

Tyler County Schools - 3 Elementary Schools renovations

The Linsly School - Banes Hall addition/renovations & Behrens Memorial Gymnasium renovations

Fairmont State University's new 3 building "University Terrace" Student Housing Apartment Complex

United States Postal Service - multiple projects thru multiple open-ended IDIQ contracts

Cabela's Eastern Distribution Center

Steel Valley Regional Transit Authority renovations

The Towers Building office building renovations, multiple phases

Follansbee City Building renovations

Jefferson County Courthouse renovations & Annex demo

Jefferson County Jobs & Family Services office renovations

Harrison County Courthouse roof historic preservation/renovations

Lincoln National Bank Building renovations

City of Steubenville Parks Lighting & Security Project

Cameron American Legion exterior renovations

Corporate Information

Firm History

Founded in 1981, McKinley & Associates is a multi-discipline full service Architectural & Engineering firm, offering comprehensive professional services in Architecture, Engineering, Interior Design, LEED Design, Commissioning, Learning Environment & Educational Facility Planning, Construction Administration, and more. We have a broad range of skill and experience for projects involving governmental, educational, emergency service, and much more. McKinley & Associates is a 100% ESOP Company (Employee Stock Ownership Plan), which is a benefit plan that gives our employees 100% ownership of stock in our company. This is a contribution to the employee, not an employee purchase.



Charleston Enterprise Center - McKinley & Associates' Charleston, WV Office

The Maxwell Centre



McKinley & Associates' Wheeling, WV Office

Firm Information

Ernest Dellatorre
President

Tim Mizer, PE, RA, QCxP
Director of Operations

Date of Incorporation

July 1, 1981
Wheeling, West Virginia

Number of Professionals

Total Size	30
Architects	6
Engineers	3
Construction Admins.	3
Arch./Eng. Designers	9
Interior Designer	1
LEED AP BD+C	2
ALEP (CEFP) / REFP	2
Commissioning Provider	1
Historic Preservationist	1
MIS	1

Locations

32 Twentieth Street - Suite 100
Wheeling, West Virginia 26003

P: 304-233-0140
F: 304-233-4613



www.McKinleyAssoc.com

[www.Facebook.com/McKinleyAssoc](https://www.facebook.com/McKinleyAssoc)

Instagram: @mckinley_and_associates

Credentials

McKinley & Associates is a member of the following organizations:
CEFP, AIA, WEDC, AIA, NFPA, NCARB, ASCE, ASPE, BDCA, ASHRAE, ACI International

1116 Smith Street - Suite 406
Charleston, West Virginia 25301

P: 304-340-4267
F: 304-340-4269

416 Longridge Drive
Pittsburgh, PA 15243

P: 724-223-8250
F: 724-223-8252

The Maxwell Centre - McKinley & Associates' Wheeling, WV Office



Sustainable "Green" Design

Buildings designed today will need to meet the demands of the future; McKinley & Associates identifies the changes necessary in the design of today and to meet these demands. This approach helps to retain the buildings' long-term profitability and value, which achieves the buildings' **sustainability**.

McKinley approaches ecological design from a business perspective, offering **proactive** solutions to complex problems such as indoor air quality, energy efficiency, resource depletion, and water quality. With commercial and institutional project experience, the McKinley Team can work alongside local designers to provide sustainable design and construction guidance. We also offer full architectural design services and guided design workshops on sustainable design issues.

Our Philosophy is to provide our clients with experienced leadership as well as state-of-the-art and **innovative** design expertise to accomplish the goals of your projects. Function, economics and versatility, in addition to the development of **strong aesthetic appeal**, are crucial elements in our design process. We also believe that enhancement of the physical environment in which each individual lives and works should add significantly to the enjoyment of life. Our firm has dedicated our professional skills to attain these goals. **For a few recent sustainable awards**, we were honored to have **won 5 Placemakers Awards from West Virginia GreenWorks** at the Building Conference in Morgantown. In addition, **Cameron Middle/High School won the Black Bear Award for the Highest Achievement for the West Virginia Sustainable Schools program**, and was selected as a **U.S. Department of Education Green Ribbon School!**

Moreover, Hilltop Elementary School is one of our many projects that we designed using **energy efficient and sustainable design** approaches. It was not until **after** construction had commenced that the Owner decided to submit for LEED Certification. This required a great deal of coordination with the architects, engineers, subcontractors and suppliers. Since we incorporated **good sustainable design practices** from the beginning, this allowed for an easy transition, and for the project to be successfully completed. **This is the first LEED Certified school in the state of West Virginia.** Hilltop won a **Gold Medal Green Building Award by Building of America.** Hilltop also won a **West Virginia Department of Environmental Protection's Clean Energy Environmental Award.** Hilltop received a **Black Bear Award for the Highest Achievement for the West Virginia Department of Education's Green Ribbon Schools program.** In addition, in April 2012, Hilltop was one of **78 schools (which span 29 states and D.C.) to be awarded the first-ever U.S. Department of Education Green Ribbon Schools!** Moreover, Hilltop won a **Placemaker Award for Leadership of/for Place from the West Virginia GreenWorks.**



McKinley and Associates has been honored to have won some very notable awards and to have received some very prestigious nominations over the years. We recently won a **West Virginia Chapter of the American Institute of Architects Merit Award** for our newly renovated Charleston Office; a project led by Thom Worledge.



View of our award-winning Charleston Office renovation showing our centrally located conference room "Lantern." This glows all day long through the transiucient walls, which are illuminated with natural daylight from a skylight above.



Leadership in Energy and Environmental Design





LEED® (Leadership in Energy and Environmental Design) Green Building Rating System™ developed by the U.S. Green Building Council (USGBC) is the nationally accepted standard for the design, construction, and operation of high performance green buildings (www.usgbc.org). In January 2001, our firm was the **first organization in West Virginia to join the USGBC**. No other WV firm joined until nearly 2 years later! We have **LEED Accredited Professionals** on staff, along with our skilled architectural/engineering team, who will efficiently and cost effectively achieve certification under this standard or we can guide you through the process in order to develop sustainability goals specific to your project.

We have **LEED® Accredited Professionals specializing in Building Design & Construction** on staff:

- Christina Schessler, AIA, LEED AP BD+C
- Thomas R. Worledge, AIA, LEED AP BD+C, REFP



Our **LEED Certified Projects** are (LEED Rating System in parentheses):

-  **Hilltop Elementary School in Skerrard, WV (LEED for Schools 2.0)**
- The First LEED Certified School in the State of West Virginia!
-  **Building 55: West Virginia State Office Complex in Logan, WV (LEED NC 2.2)**

All of our current **LEED Registered Projects** are either under construction or in design with potential **LEED Platinum Certification** or potential **LEED Silver Certification**. Our LEED Registered Projects are (LEED Rating System in parentheses):

- Bellann in Oakhill, WV (LEED EB O&M)
- Cameron Middle/High School in Cameron, WV (LEED for Schools 2.0)
- SMART Office in Williamson, WV (LEED CI)

The LEED AP Specialty Logos signify advanced knowledge in green building practices and specialization in a particular field.



The LEED AP BD+C designation that both Thom and Christina have achieved represents specialization in commercial design and construction.



Thomas R. Worledge, AIA, LEED AP BD+C, REFP has been a member of the USGBC since 2001; he was the first LEED Accredited Professional in the state of West Virginia! As a professional trainer for the Sustainable Building Industries Council, he teaches other design professionals in the art of High Performance School

design. He is also a Founder & Chairman of the Board for the US Green Building Council's West Virginia Chapter.



Christina Schessler, AIA, LEED AP BD+C has been a member of the USGBC since 2009. In 2012 she received her Masters in Historic Preservation, so not only can she incorporate LEED "Green" aspects into new buildings; she can even incorporate energy efficient design into renovation/preservation

projects. Twenty percent of a building's energy consumption is embodied in the existing physical structure itself!

The 'USGBC Member Logo' is a trademark owned by the U.S. Green Building Council and is used by permission.

Construction Administration & On-Site Representation

Construction Administrator Involved from the Beginning of the Design Phase

Observe the Construction Progress

Liaison between the Owner, Contractor, and Architects/Engineers

Responsible for All Construction Progress Meetings and Minutes

Monitor the Construction Schedule

Ensure that the Contractor is Following the Construction Documents

Verify Pay Application and Change Orders

**Typically On-Site Once Every Two Weeks
(Provide Additional On-Site Representation if Requested)**



Our **Construction Administrators** have an extra responsibility than what most firms' Construction Administrators have; our CAs are a part of the design process from **Day 1** (they are not thrown into the project only when construction starts; they are here from the beginning), so they know the ins-and-outs of the project. Our CAs have an important role as being the **liaison between the Owner, Contractor, and Architect**. The primary objective of the Construction Administration services is to ensure completion of work the way the client wants it - **as scheduled and as budgeted**. Our CAs evaluate the quality of the work to verify that it meets the level required by clients; in addition, they monitor the contractor's progress to ensure that they are following the Construction Documents. They observe the construction progress, are responsible for all construction meetings and minutes, and they verify pay application and change orders. The Construction Administrator is typically on-site once every two weeks, but we can provide additional on-site representation if requested.

Interior Design



WV State Office Complex (LEED Certified fixtures)



Panhandle Cleaning & Restoration



West Virginia State University - DiGiSo



Fairmont State University - "University Terrace" College Apartments Housing Complex

Basic interior services begin with a strategy session designed to determine the owner's project requirements, timetable and budget. The interviews will include analyzing space requirements, operating procedures, communication relationships and future needs. Inventory of existing conditions are used to develop accurate drawings and plans. Application of current ADA and building codes will be applied to the developed plans for way finding (signage, directories, fire escape plan), furnishings and finishes. Attention to budget and maintenance is given in relationship to owner needs. Construction documents required to detail the project include schedules, elevations, plans, presentation boards and specifications. To maintain coordination, the follow up contract administration consists of submittal review, post construction evaluation and coordination of FF&E contracts when applicable.



National Council for Interior Design Qualification

Deb Blakeman, NCIDQ #015070, is knowledgeable and has experience with application of ADA regulations, ergonomic standards, state building code and industrial standards as they apply to interior furnishings, space planning and finishes. Improving comfort through lighting and ergonomically sound furnishings will increase employee performance. Efficient spaces aid in organization, and work flow, by decreasing communication barriers.



Boone County Honors Academy computer lab

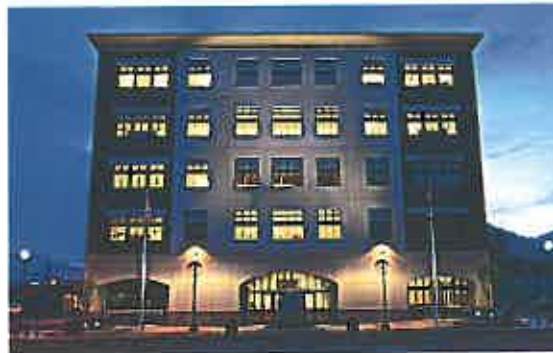
References



Ashford-Rumble Elementary School
Computer Classroom Lab
Mr. John G. Hudson
Superintendent
Boone County Schools
69 Avenue B
Madison, WV 25130
304 / 269-3131



Cameron High School
Mr. Jack Cain
Principal
2012 Blue and Gold Road
Cameron, WV 26033
304 / 686-3336



Building 55: WV State Office Complex
Mr. Gregory L. Melton
State of West Virginia
General Services Division
1900 Kanawha Boulevard East
Charleston, WV 25305
304 / 558-1808



Orrick's Global Operations Center
Mr. Will Turani
Orrick, Herrington & Sutcliffe LLP
2121 Main Street
Wheeling, WV 26003
304 / 231-2629



CORPORATE PROFILE

SERVICES:

Stafford Consultants is a full service engineering firm providing services in Civil, Structural, Highway, Bridge, Airport, Environmental, and Sanitary Engineering. We have been providing engineering services for water, sewer, and general civil projects for more than 31 years. Although our main emphasis is toward the municipal utility market, our firm is highly qualified and capable of completing varied civil and structural projects. The football stadiums at West Virginia and Marshall Universities, the Merriman Athletic Facilities building at Virginia Tech, the Chuck Mathena Center in Princeton, sidewalks for the City of Princeton, artificial turf for the Princeton Senior High School football field, structural design and sitework for the Oakvale Elementary School, and master planning of athletic facilities at Virginia Tech and Marshall University are just a few examples.

Stafford works closely with our clients to develop projects that meet their needs and can be constructed in a timely and cost effective manner. We assist the client from the beginning to end of their project with complete project services – preliminary study reports, preliminary design, final design, bidding, and complete construction administration services.

HISTORY:

Stafford Consultants Inc. was formed in 1985 from a core group of employees of Gates Engineering Company. After many successful years of operation, Gates Engineering Company was bought by a large design / build firm that later decided to divest the consulting engineering firm. Six employees have been with the firm since its inception.

Our office has been located in Princeton since opening for business. While the majority of our clients are located in the southern part of the state, Stafford has worked throughout West Virginia and also provides services in Virginia.

COMMITMENT:

Stafford is committed to providing quality engineering services to our clients, completed on time and at a fair price. Continuity of the project management team is paramount. The engineer preparing the proposal and presenting our qualifications at the interview is the same engineer that will be managing your project.

Our design teams utilize the latest versions of AutoCAD and AutoCAD Civil 3D software, in addition to various other structural, hydraulic, and hydrology packages. We utilize Ajera Complete to track all project time and expenses to make sure projects remain on schedule and within budget.

**1105 Mercer Street
Princeton, WV 24740
304-425-9555**



Water

Summersville Water Plant



- ▶ Over 30 storage tanks ranging from 30,000 to 750,000 gallons
- ▶ Surface water treatment plants from 50 to 2,000 gallons per minute
- ▶ Transmission and distribution systems ranging in costs from \$100,000 to over \$30,000,000
- ▶ Pumping stations designed with the needs and desires of the client in mind



Alderson Water Storage Tanks

Site Development



Glade Springs Village

Stafford Consultants provides engineering services to public and private clients such as:

- ▶ grading
- ▶ site utilities
- ▶ stormwater permitting
- ▶ structural analysis
- ▶ construction monitoring
- ▶ expert witness

Typical projects like Chapmanville, Williams-town, Parkersburg and Parkersburg South High Schools included:

- ▶ site grading
- ▶ utilities
- ▶ stormwater



Parkersburg South High School

Wastewater

Princeton Wastewater Treatment Plant



Athens Wastewater Treatment Plant



Stafford projects include:

- ▶ treatment systems from 10,000 gallons per day to 5 million gallons per day
- ▶ conventional activated sludge, extended aeration, "orbital" oxidation ditch and sequencing batch reactor treatment systems
- ▶ conventional sewer systems and innovative systems such as pressure systems, vacuum systems, septic tank effluent systems and constructed wetlands

Some of Stafford's Satisfied Clients

Town of Alderson, West Virginia
 Alleghany County, Virginia
 Town of Ansted, West Virginia
 Town of Athens, West Virginia
 Big Bend P.S.D., Talcott, West Virginia
 Town of Blacksburg, Virginia
 City of Bluefield, West Virginia
 Bluefield Sanitary Board, Bluefield, Virginia
 Town of Bramwell, West Virginia
 Bramwell P.S.D., Bramwell, West Virginia
 Cooper Land Development, Inc., Beaver, WV
 City of Gary, West Virginia
 Greenbrier Valley Airport, Lewisburg, WV
 City of Hinton, West Virginia
 City of Lewisburg, West Virginia
 Logan County PSD, Logan, West Virginia
 Marshall University, Huntington, West Virginia
 McDowell County PSD, Coalwood, West Virginia
 Mercer County Commission, Princeton, WV
 New Haven PSD, Fayetteville, WV
 Nicholas County Commission, Summersville, WV
 Oakvale Road PSD, Princeton, West Virginia
 City of Princeton, West Virginia
 Princeton Sanitary Board, Princeton, West Virginia
 City of Welch, West Virginia
 WV Division of Highways, Charleston, WV
 WV Department of Environmental Protection, WV
 White Oak PSD, Scarbro, West Virginia
 Wilderness PSD, Mt. Nebo, West Virginia

Lyle Huntington, former Manager of Oakvale Road PSD said: "Oakvale Road has done service with Stafford Consultants since 1989. They have handled over \$50,000,000 worth of water and sewer projects. Stafford Consultants does exceptional work. You will not be disappointed if you should choose Stafford Consultants. I will continue to use them for future projects."

Transportation

Devil's Backbone Bridge



- ▶ 19 bridge design projects for WV Division of Highways
- ▶ 5 roadway design projects for WV Division of Highways
- ▶ 3 Engineering Achievement Awards for Bridge and Roadway Designs



Mullens Bridge

A Client-Caring and Serving Company

STAFFORD CONSULTANTS INCORPORATED



Whether your needs are for utilities, transportation, athletic facilities, structures or site development, you can trust the **EXPERIENCED** Engineers at **STAFFORD CONSULTANTS.**

Engineering, Design and Consulting

1105 Mercer Street
 Post Office Box 5849
 Princeton, West Virginia 24740
 Phone: (304) 425-9555
 Fax: (304) 425-9557
 E-Mail: staffordconsultants@frontiernet.net

West Virginia Army National Guard Multi-Purpose Building / Gymnasium

Kingwood, West Virginia

Owner

West Virginia Army National Guard

Size

55,000 SF approx.

Construction Cost

\$12.7 million

Project Architects

Assemblage Architects

Project Engineers

McKinley & Associates

McKinley & Associates was on a team with Assemblage Architects to create this facility. Our involvement in this project includes **MEP engineering and construction administration**. The mission of the \$12.7 million **Multi-Purpose Building / Gymnasium** at Camp Dawson is a **new permanent multi-use masonry steel-framed structure** with supporting facilities for military units of the West Virginia Army National Guard. The facility serves as the **primary physical training and event space** for the WVARNG. **This project won a 2014 West Virginia AIA Honor Award**. There will be a Phase II building, designed at a later date; the utilities and HVAC Plant will be extended from the Multipurpose Building.

The facility houses a **large open space (gymnasium/assembly room)**, a **physical fitness area, locker rooms, shower facilities, offices, and more**. The facility and grounds include parking, attached and detached storage, landscaping, security lighting and fencing, and a unique entry. **This project was designed with energy recovery systems, as well as daylight harvesting in the gymnasium/assembly room.**

The gymnasium/assembly room was based on occupancy of 200 exercising, or 3,500 at rest for events/assembly. It includes a **tailor-made public address system with wireless microphone inputs for the events**. We designed the gymnasium for **three lighting scenarios**: a) Stage use in Gym, b) Game lighting, c) General everyday lighting.



West Virginia Army National Guard Mountaineer Challenge Academy

Kingwood, West Virginia

Owner

West Virginia Army National Guard

Size

54,800 SF approx.

Construction Cost

\$16 million

Project Architects

Assemblage Architects

Project Engineers

McKinley & Associates

The \$16 million Mountaineer Challenge Academy won a **2011 West Virginia AIA Merit Award**. Design was in conjunction with Assemblage Architects. Our involvement in this project includes **mechanical, electrical, plumbing, and fire protection engineering, as well as construction administration services**. The building program includes staff offices, counselors offices, support staff areas and a medical assistance space to accommodate the needs of the student residents. The residents require classrooms, a **multi-purpose assembly/exercise/gymnasium, fitness room, locker and shower rooms, restrooms, and a community room / dining facility with an adjacent full service kitchen**; these spaces will accommodate the 160 young adults living at Camp Dawson as part of the Challenge Academy. The first floor of the wing contains multiple classrooms and offices, while the second floor contains multiple offices, conference, recruiting, and server rooms. **The fitness room has various cardiovascular and weigh machines for cardio and strength training. The multi-purpose assembly/exercise/gymnasium accommodates physical activity, weight training, assemblies, banquets, and receptions, and serves as the central hub of the complex. Drill exercises and formations, as well as graduation ceremonies are held here.** The U-shaped building creates a **large, central courtyard / plaza** which includes a long shed-roof covered pavilion, along with a circular, concrete amphitheater. This courtyard / plaza is a **multi-purpose outdoor events area** for student functions, receptions, **training activities, drills and formations**, educational purposes, and more.



Building 55 West Virginia State Office Complex



Logan, West Virginia

Owner
State of West Virginia

Size
52,300 SF approx.

Project Architects-Engineers
McKinley & Associates

Project Architect
Thomas Worlledge,
AIA, LEED AP BD+C, REFP

Contractor
Massaro Corporation

Commissioning Agent
Iams Consulting, LLC

City leaders were searching for a catalyst to stimulate community efforts to revitalize downtown Logan, West Virginia. This recently completed office building - dedicated on August 16, 2013 - has become that inspiration. The building is designed to reflect the history and culture of the area while incorporating current technology and safety elements, thus empowering the community leaders to create a vibrant connected urban core. This new 5-story building underscores its major role in the development and revitalization of downtown Logan by uniting office space for 127 employees for 6 State agencies under one roof, whom were once scattered throughout the city. The agencies include the Department of Health and Human Resources, Division of Rehabilitation Services, the Offices of the Insurance Commissioner, State Tax Department, WorkForce West Virginia, and Workforce Investment Board. The 53,200 SF building provides current technology, flexibility for future growth, and security features for existing and future tenants. In March 2014, this project became **LEED Certified**.



At the request of the Owner, the building was designed to be energy efficient "green" and meet sustainable design goals. To help achieve this, the HVAC system included the installation of 2 high efficiency condensing boilers, pumps with variable speed drive control, custom air handling units with chilled and hot water coils, variable air volume boxes with hot water heating coils, water cooled chiller with cooling tower, packaged rooftop energy recovery ventilator, and direct digital controls. In addition, a tight building envelope was created with closed cell foam insulation and thermal efficient windows. One of the unique features of the building is the daylight system which takes clues from older buildings that were designed to let daylight penetrate deep into the buildings by necessity. To enhance this effect we added "light louvers" which are devices that

redirect daylight to the ceiling and diffuse natural light throughout the space. The open offices were placed around the exterior of the building and the enclosed offices along the interior wall so more of the tenants receive quality light. In addition, interior windows allow the daylight to pass to the center offices. For another feature,

the plaza uses recycled brick pavers from the demolished street; the patterns intersect at a quilt star, a symbol of West Virginia heritage that is carried into the building's main entry. It is interesting to point out a stained glass window feature in this entry, which won a 2013 AIA Craftsmanship Award. It is custom designed to reflect the culture and history of the area (images of a coal tippie, arrowheads, West Virginia Quilt Star, old Logan courthouse, etc.) and use as much glass from West Virginia Manufacturers as possible.

There is a back-up/emergency generator for life safety systems and data server rooms, which powers emergency lighting and provides backup power to critical building systems. It is a 300kW, 480/277V, 3 Phase, 4W diesel generator with outdoor enclosure, concrete pad, and in-base fuel tank. The generator, Automatic Transfer Switches (ATS), controls, and annunciator meet the requirements of NFPA 110, "Standard for Emergency and Standby Power Systems".



West Virginia University

State Fire Training Academy

Jackson's Mill, West Virginia

Owner

West Virginia University

Size

25,752 square feet including
the 8,300 sq. ft of the Arena

Construction Cost

\$4.5 million

Project Architects-Engineers

McKinley & Associates

Project Architect

Christina Schessler, AIA, LEED AP BD+C



The \$4.5 million West Virginia State Fire Training Academy is located near the Jackson's Mill 4-H Campus in Lewis County, WV. Because of the proximity to this state historic site, the design directive given by the Owner was to blend into the rural community. A custom metal building skeleton with a board & batten metal skin was designed. The exterior is representative of rural, vertical barn siding, and is set into the sloping terrain in an agricultural setting, which serves as an integrating element throughout the large complex. The Users we have spoken to enjoy teaching in our facility; contextually, it "fits" into the Jackson's Mill Campus and local agricultural community. Every year, WVU Fire Service Extension uses this one-of-a-kind facility to train more than 2,000 volunteer and professional firefighters and first-responders from around the state and nation. The facility is also the new home for the high-tech Mobile Aircraft Rescue Fire Fighting Unit and the Mobile Fire Training Unit. There are two major components to the 25,752 SF building; the first is the Classroom Wing. This wing is comprised of a multi-tiered 30-seat distance learning computer classroom, two other connected instructional classroom spaces built with flexibility that allow for a range of class sizes, 4 administrative offices, 6 cubicle offices, a conference room/library, and a lounge/dining area. The administrative area is private but easily accessible from all classrooms. The second component, the 8,300 SF open bay training Arena, is an all-weather interior training facility. The scale of this structure, having a clear interior height greater than 30', allows the full extension of authentic fire training apparatus and vehicles for various types of hands-on programs. The large vehicle doors allow fire trucks and other props into the facility. The multi-use facility is also ideal for community group meetings and other events.



Boone County Schools

Ashford-Rumble Elementary School

Ashford, West Virginia

Owner

Boone County Schools

Size

17,824 SF

Construction Cost

\$724,000

Project Architects-Engineers

McKinley & Associates

Project Architect

Thomas R. Worledge,
AIA, LEED AP BD+C, REFP

Contractor

MIRC Construction Services, LLC

Boone County Schools was looking for a site to add a new 1,145 SF computer classroom lab to the existing Ashford-Rumble Elementary School. The existing computer lab was in a portable about 60' feet away from the school (seen in the "before" pictures to the left), and was in poor shape. We determined that the site in front of the school close to the Gym was appropriate. We designed a computer classroom addition that could also be expanded upon in the future. Now, students get hands-on learning in a sparkling new room filled with computers, data ports, power outlets, new flooring, large whiteboards and plenty of classroom space as well. In addition, we renovated the existing building by added new sprinkler systems and ceilings throughout the existing 16,679 SF school building. This project was fast-tracked through summer, which required coordination and timing to complete the renovation portion before the start of the school year. In the end, the change orders resulted in \$24,751 being returned to Boone County Schools!



Computer Classroom Before



and After



Computer Classroom Before



and After



Building Before Addition

and After

Boone County Schools

Boone County Honors Academy

Danville, West Virginia

Owner

Boone County Schools

Size

8,975 SF

Construction Cost

\$1.8 million

Project Architects-Engineers

McKinley & Associates

Project Architect

Thomas R. Worledge,
AIA, LEED AP BD+C, REFP

Contractor

Oval Construction Management

One of the many projects we recently worked with Boone County Schools was on the **Boone County Honors Academy project**, which involved 3,285 SF of **renovations**, as well as 5,690 SF of **new addition**. This is a facility where the educational focus is on academic excellence in science, math, and technology engineering. The catalyst behind the Academy's new facility is to expose the students to various careers, and take their education and experience to elevated levels of project-based learning.

Goals include applying science applications in subjects like genetics, forensic science and aerospace; mathematical skills in investigating, analyzing, and evaluating real world applications; technology design and creating intelligent machines and digital manufacturing. Possibilities include exposure to analyzing and modeling various scenarios in computer. Curriculum focuses on inquiry-base, problem solving, and project-based learning according to occupational outlook and industry needs.

The Academy is a model for WV districts of the **interactive learning space** with a commitment to the future. The building addition was funded by The American Recovery and Reinvestment Act. The architectural features blend with the existing facility, which houses both the **Boone County Career and Technical Center** as well as the **Southern WV Community & Technical College's Boone/Lincoln Campus**. The architectural solution includes **progressive elements like day lighting, energy efficient systems and environmentally friendly finishes**. Spaces include **computer classroom, STEM lab (Science, Technology, engineering, arts and mathematics lab), lecture/performance auditorium, math lab, chemistry lab, and is connected to the Career Center with an inviting corridor**.

Increased use for the Academy is realized through the **flexibility** in each area. The chemistry lab consists of bench wood casework that can easily convert from dry to wet as project needs change, and lecture space featuring **smart boards**. The **STEM lab is in a highly flexible space with mobile workstations, presentation board/tables, electronic bench and computer stations**. The math room easily converts from traditional lecture to group learning pods with mobile furnishings. The lecture auditorium has multiple moveable walls, and converts to a presentation hall with an elevated stage and enhanced **audio visual features**. Exterior benches were an addition to the landscape design for informal interaction. **Environmentally conscious features include daylight from both sides of the building, rubber flooring, recyclable ceiling tiles and pendant luminaries with daylight and occupancy sensors**.



Cameron High School

Cameron, West Virginia

Owner

Marshall County Schools

Size

130,000 SF approx.

Construction Cost

\$32 million

Project Architects-Engineers

McKinley & Associates

Project Architects

Patrick J. Rymer, AIA, ALEP/CEFP

Gregg P. Dorfner, AIA, REFP

General Trades Contractor

Nello Construction

Construction Manager

PICIS

Commissioning Agent

L. L. DUNN & Company

The new \$32 million Cameron High School was designed with potential LEED Silver Certification, incorporating sustainable, "green" concepts, and has won multiple awards acknowledging achievements in taking a comprehensive approach to green schools, including: a Placemaker Award for Innovation from West Virginia GreenWorks; the Black Bear Award for the **Highest Achievement in the West Virginia Sustainable Schools program**; and selection as a U.S. Department of Education Green Ribbon School! Some of the sustainable design features include daylight harvesting, reduced life cycle costs, air terminal units, "chilled beams", desiccant wheel dehumidification, and much more. The Owner's program required Middle School and High School areas with both separate and integrated facilities; as well as Vocational Technical Education programs. The facility features Departmentalized classroom groupings. A school-wide WI-FI and Interactive "smart" boards in all classrooms are incorporated to support the Owner's future "paper-less" goals. Safe Schools considerations included CPTED transparency as an element in safety, with administrative areas strategically placed for supervision of entrances and commons areas, as well as electronic access control and security system integrated into the Owner's district wide system.

The 3,800 SF Media Center/Library area includes a computer lab with 20 computer stations, a server, a teacher workstation/computer, a librarian computer station with printer, 2 additional printers, video production/professional library, workroom, and more. This Media Center will provide a barrier-free area for individuals to have access to books/technology for research, enrichment, relaxation; an area for educators to research, reproduce materials, enter grades, assist students and provide appropriate role modeling for others in an appealing area; and will allow for the processing of various media for pleasure reading, research, and internet searches.

The 1,500 SF Business Technology area involves 24 computer stations in a 3 tiered setting, teacher work station, presentation area with project display, textbook storage, copy room, a group work area, network printer area for multiple printers, 2 poster printers, an area for technology components (television, surround sound, VHS, DVD, document camera, etc.), wireless internet, and more. This area will house teacher/guest speaker presentations; videotaping of student activities and presentations; culture study pen pal interaction through internet; computer work; interactive technologies to enhance research, remediation, and enrichment opportunities; 3-D office development and design; E-Portfolio development; student

business presentations (via computer, smartboard, advanced technology); 7th and 8th grade technology classes; hands-on computer and demonstrations which require large spaces and movement; and much more.



Marshall County Schools

Hilltop Elementary School



Sherrard, West Virginia

Owner

Marshall County Schools

Size

49,700 SF

Construction Cost

\$8.4 million

Project Architects-Engineers

McKinley & Associates

Project Architect

Thomas R. Worlledge,
AIA, LEED AP BD+C, REFP

Contractor

Grae-Con Construction

Commissioning Agent

Iams Consulting, LLC

The 49,700 SF Hilltop Elementary School didn't start out as a green school but the design intent was to incorporate good sustainable design practice. This \$8.4 million school was designed to blend into the backdrop of a small rural community. Typical of West Virginia, hilly terrain prohibits huge, sprawling facilities. The school board wanted to use the property it already owned; a little used football field at the local middle school fit the need for both parameters. **During design coordination with the engineering team members the energy model that was developed compelled the designers to reduce the chiller capacity and system design; thus reducing energy use while saving money.** After reviewing the design, the client chose to submit for **LEED Certification**. A lot of time was spent researching LEED-approved furnishings, finishes, etc. to make the indoor environmental quality conducive to learning, and to minimize maintenance. Sun shades mounted over classroom windows eliminate noontday sun from equinox to equinox. **Dual flush automatic toilet valves** were selected to reduce water consumption by 30%. A combination of masonry and metal siding was chosen for durability and all were manufactured locally. The metal siding and roofing is **Cradle to Cradle Certified** which is a program that focuses on manufactures whose products are perpetually recycled; new roofing and siding from old roofing and siding in a closed loop. The interior materials were chosen using the same criteria; **low maintenance and locally sourced**. All the gypsum board used in the project came from a gypsum board plant a few miles from the project. The rubber and vinyl flooring does not require the typical yearly stripping and waxing, eliminating the use of harsh chemicals; the floors can be maintained simply by buffing with mild soap and water. **The client has realized savings in the first school year in shape of lower electricity bills.** The School Building Authority's 2009 Limit on New Elementary School Design is \$217/SF, but Hilltop Elementary's final price is less than \$170/SF. This amount was well below the national average for elementary school construction, sustainable or not. **Hilltop Elementary is the first LEED Certified school in the state of West Virginia!** HES won a 2010 Gold Medal Green Building Award by Building of America. HES also won the 2012 West Virginia Department of Environmental Protection's Clean Energy Environmental Award. HES received the 2012 Black Bear Award for the Highest Achievement for the West Virginia Department of Education's Green Ribbon Schools program. In addition, in April 2012, Hilltop was one of 78 schools nation-wide to be awarded the first-ever U.S. Department of Education Green Ribbon Schools! Moreover, on Hilltop won a 2013 Placemaker Award for Leadership of/for Place from the West Virginia GreenWorks.



Sun Shades



SITE WORK

PROJECT: Hilltop Elementary School Site Work

Owner:
Marshall County Board of Education

Location:
Sherrard, West Virginia

Construction Cost:
\$400,000 (Site Work Only)

Project Architect-Engineers:
McKinley & Associates
Stafford Consultants

Description:
New elementary school with associated parking, sidewalks, and storm drainage. Also included a small playground area and paved basketball court.



 **STAFFORD
CONSULTANTS
INCORPORATED**
Engineering Design and Consulting

Hancock County Schools

Weirton Elementary School

Weirton, West Virginia

Owner

Hancock County Schools

Size

105,000+ SF

Construction Cost

\$26.5 million

Project Architects-Engineers

McKinley & Associates

Project Architect

Gregg P. Dorfner, AIA, REFP

Contractor

Cattrell Companies, Inc.

Construction Manager

PICIS

The new \$26.5 million Weirton Elementary School for 950 students in grades PK-4 was recently completed, and replaces Weirton Heights, Liberty, and Broadview Elementary Schools. There was just a Dedication and Ribbon-Cutting Ceremony on August 10, 2014. This school is the largest elementary school designed in the State.

The facility features **three separate areas for learning**, divided into preschool and kindergarten; first and second grades; and third and fourth grades. The **2-story** school includes more than **60 classrooms**, not including resource rooms and administrative offices. It is also **wireless and equipped with two computer labs, 10 laptop labs and five iPad labs**, a multi-purpose room, gymnasium, a cafeteria and a separate entrance specifically for food deliveries. Moreover, the school also houses the first school-based health center in the Northern Panhandle, which will be operated by C.H.A.N.G.E. Inc. The center features several exam rooms and will provide pupils with limited treatment when necessary, including wellness checks, immunizations and behavioral health counseling. No pupil will be sent to the 1,800-square-foot health center without express written permission from a parent. The building features a state-of-the-art security system, including a **man-trap at the entrance**, 68 cameras school-wide, as well as a full-time prevention resource officer on site from the Hancock County Sheriff's Department, among other security features.

Furthermore, we incorporated multiple "green" components into this 105,000+ SF building. These include **high efficiency boilers, energy recovery wheel, desiccant wheel, chilled beam system, Variable Frequency Controllers to reduce fan energy, low flow plumbing fixtures, energy monitor on the main electrical gear, dimmable lighting with occupancy sensor control, and T-5 & T-5 HO fluorescent bulbs used as primary light sources throughout school to name a few. All of this has been accomplished with only one-third of 1% in total change orders!**



McKINLEY & ASSOCIATES
ARCHITECTS • ENGINEERS • INTERIOR DESIGN

SITE WORK

PROJECT: New Weirton Elementary School Site Work

Owner:

Hancock County Board of Education

Location:

Weirton, West Virginia

Construction Cost:

\$1,825,000 (Site Work Only)

Project Architect-Engineers:

McKinley & Associates

Stafford Consultants

Description:

Complete site layout including parking, sanitary sewer, storm drainage, and water service. Storm drainage system included underground detention.



 **STAFFORD
CONSULTANTS
INCORPORATED**
Engineering Design and Consulting

Hancock County Schools

Oak Glen Middle School

New Manchester, West Virginia

Owner

Hancock County Schools

Size

82,000 SF

Construction Cost

\$11 million

Project Architects-Engineers

McKinley & Associates

Project Architect

Gregg P. Dorfner, AIA, REFP

Contractor

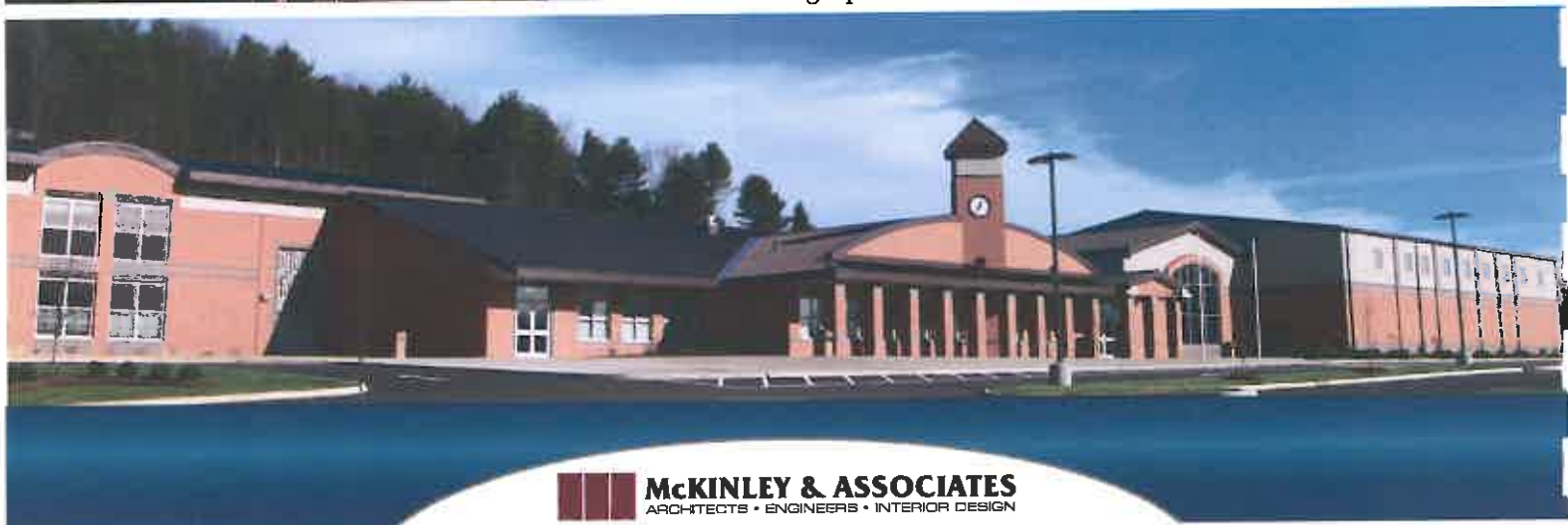
Colaianne Construction

Oak Glen Middle School was a very exciting project for **McKinley Associates**, since it was our first design for a **brand new school** aside from renovations and additions. Completed in 2005, the **\$11 million** school serves as a replacement for an existing Grade 5-8 facility of 700 students in Hancock County, WV. With the project beginning its conceptual phases in early 2002, the resulting design was created in the shadow of those fateful events of Columbine and 9/11. Consequently, **security** concerns helped to acutely shape many of the Building Committee's program desires. **These security enhancements include:**

- 1) The east-west main corridors running the full length of the School on both the first floor and second floors; these "boulevards" are intended to give administrators and staff an immediate straight-shot view of each floor to aid in timely assessment of possible safety/security issues requiring lock-down or evacuation.
- 2) Reducing the total number of exterior doors for the School to the minimum required for exiting and operations access; locating all required exit doors on either the front (west) or right side (south) of the School at publicly viewable vantages.
- 3) Providing a lock-through security vestibule at the main entrance, requiring all visitors and staff to pass visual security clearance before entering the facility proper.

Another important program consideration was the grade 5-8-grade mix of the students. **Separation of the students along grade 5-6 and 7-8 lines was essential**, both physically and educationally, as the school district intended to maintain a self-contained instructional model for the younger children while also transitioning to a departmental model for the older ones. To solve this problem, a **2-story** design evolved for the academic wing, with grades 5 & 6 placed on the upper floor and grades 7 & 8 on the lower. Each of the segregated grade groups is served by its own respective "core" spaces for general classroom instruction, exceptionality instruction, planning, toilets, science spaces and **computer labs**. Both grade groups share common element spaces such as media, PE, resources and food service.

Because of a steeply sloped narrow site, a lengthened footprint was developed for the **82,000 SF** school, minimizing earthwork by placing the long axis of the building across the slope's fall line. To help offset the visual effects of the elongated scheme, four primary building masses were developed of various heights, unified by a series of gabled metal roofs. As a result, the completed School takes on a village-like appearance, which helps to play down its extended 500-foot length as well as reinforcing a perceived reduction in the School's overall scale.



Hancock County Schools

A.T. Allison Elementary School

Chester, West Virginia

Owner

Hancock County Schools

Size

56,000 SF

Construction Cost

\$5.3 million

Project Architects-Engineers

McKinley & Associates

Project Architect

Christina Schessler, AIA, LEED AP BD+C

Contractor

Jarvis, Downing & Emch, Inc.

A Dedication Ceremony was held on August 25th, 2013 for the recently completed **addition/renovation project** to the Allen T. (A.T.) Allison Elementary School. The original building was built in 1963, and now consists of 440 students and 31 faculty members.

The building was brought up to today's standard of Security. This included a redesigned **secure main entrance, new exterior doors and interior doors with insulated security glass**, the addition of **Man Traps** at every public entry point, security cameras and video monitoring of all access points, door position monitoring, **new security windows**, and a **building-wide access control system** which controls and records all access to the building.

Other improvements to Allison include a brand new cafeteria, all new **security doors and windows**, 31 additional parking spaces, **new heating, ventilating and air conditioning (HVAC) systems, restroom upgrades, landscaping, roofs, ceilings, elevators, data wiring and electrical upgrades** and new sidewalks. A major school-wide life safety upgrade includes a new fire alarm, fully **sprinklering the building**, and the addition of egress corridors. Expanded parking will make drop-off and pick-up times safer for students by facilitating better traffic flow for private vehicles and school buses. There are also new playgrounds - one for pre-kindergarten pupils and one for kindergarten through fourth-grade pupils. The renovations/additions now gleam with the brightness of new lights, new ceilings, new flooring and new paint.

This project also includes a 3-classroom pre-kindergarten addition with a separate entrance. This new entrance to the Pre-K addition features video cameras and a buzzer system for visitors. Previously, trailers separated from the rest of the school were used for Pre-K classes. This pre-kindergarten wing includes carpet squares, **Smart Boards** and pint-sized toilet fixtures. The spacious pre-kindergarten rooms will help bring Hancock County Schools into compliance with new state standards for universal pre-kindergarten. Universal pre-kindergarten, formalized by the West Virginia Legislature in 2002, means state schools must offer the program to 4-year-olds whose parents want them to attend.



Before and After



The Linsly School

Linsly's 200th Anniversary Campaign

Wheeling, West Virginia

Owner

The Linsly School

Size

Multiple Buildings / 3 Phases

Project Architects-Engineers

McKinley & Associates

Project Architect

Christina Schessler, AIA, LEED AP BD+C

The Linsly School, founded in 1814 and formerly known as the Linsly Military Institute, is a boarding and day school for students in grades 5-12. With a 100% college placement, Linsly's record as an excellent College Preparatory academy speaks for itself. The school is completing various campus improvements for their 200th Anniversary Campaign. **This started with a master plan, involves multiple buildings, and will involve 3 Phases of construction.** **Phase I** included the renovations of Behrens Gymnasium, the new "Hall of Fame" that recognizes outstanding athletes from Linsly's history, and the renovation and addition to Banes Hall, **where most of the work was done during the school year when the building is fully occupied.** Completed in 2013, **Behrens Gym** (seen top left) included improvements to the entry way, HVAC, Kalwall, window replacement, aesthetics, ADA locker rooms, ADA restrooms, structural steel, outside drainage, lights, bleachers, floor, exterior and much more. **Phase IA** work on **Banes Hall** (seen bottom left) improved the school's primary academic building. The **80,000 SF** building addition and renovations involves enhancing twenty-seven classrooms, an upgraded High Technology Classroom to simulate a College Lecture Environment (seen top right), provides a technology rich Coudon Ogden Library (seen bottom right), general building renovations, HVAC, electrical, fire alarm, utilities, landscaping, ADA upgrades, and more. The goal of the



Before



After



Before



After



Artist's Rendering



After



classroom space included a high-tech, multi-tiered distance learning lecture hall was to transform the space into classrooms of the future; it was very important to design for **flexibility** to accommodate the increasing pace of new technology that students will demand. Much of the work addresses **wireless access while improving their core technology spine and center.** The School wanted a space that looks and feels comfortable and retained their penchant for traditional values; but incorporated a modern flare without being futuristic. New study rooms and group spaces were needed for both school related assignments and extra-curricular activities. **Phase IB** of the Banes Hall work includes upgrades to the science laboratories, cafeteria, bookstore, music room, and swimming pool. The future **Phase II** will be a new Student Center; and **Phase III** will be a new Auditorium.

Wood County Schools

Parkersburg High School

Parkersburg, West Virginia

Owner

Wood County Schools

Size

254,000 SF approx.

Construction Cost

\$20 million

Project Architects-Engineers

McKinley & Associates

Project Architect

Thomas R. Worledge,
AIA, LEED AP BD+C, REFP

Contractor

Grae-Con Construction

Parkersburg High School was founded in 1867, was one of the first high schools in the state of West Virginia, and was added to the National Register of Historic Places in 1992. **This is one of the largest high school campuses in the state.** The original building features extensive stone work and exquisite interior plaster work detailing. This **\$20 million addition / renovation project** encompassed all of the original building, an addition of a three story science and cafeteria wing and an auxiliary gymnasium within this 254,000 SF building.

In 2005, a bond issue was passed to upgrade all the high schools in the county; in the fall of 2008, the work was complete. Being a historic school with a strong alumni association, it was paramount that the original historic caricature of the building remained intact. Our design protected the grand front façade in favor of additions to the rear of the building. We carefully matched the profiles of the stone and matched the brick to give a seamless transition from the old and new structure on the exterior. Many meetings were held with the state historic association and the alumni to insure the building would not be disfigured by the renovations and additions.

The interior of the building needed major upgrades including fire protection upgrades, a new electrical system, a new HVAC system, and major interior space planning to meet the needs of a modern high school. For the electrical, we also replaced an existing medium-voltage underground feeder and distribution equipment, and also designed a new low-voltage substation. The building only had window AC units; therefore, to protect the historic structure, the HVAC system required that we put louvers through the wall. We designed a custom grill colored to match the brick to conceal the intakes.

The parking lot at the high school was renovated, and the existing parking lot lighting was replaced with new fixtures meeting requirements for lighting levels to maximize security in the area. Additionally, tennis courts and a basketball court was designed with lighting to permit people to utilize the facilities at night. A control scheme was designed to permit usage of the lighting for a preset period of time, before automatically shutting off. After a preset time of day, further usage of the lighting was prohibited by the controls to avoid late night problems with surrounding residents.

The cafeteria included 8,700 SF of commons space which has 79 tables that seats 672 students. Parkersburg High serves well over 1,000 meals a day, and there are many meal plans to choose from. In addition, the 5,400 SF food services area includes a serving area, cooking/prep area, wash area, paper/dry storage, and walk-in coolers and freezers.

The main project was completed in 2008, but there are **multiple phases to the building.** The latest phase was the **Link project**, that was just finished in 2011. The Link was a new corridor that connected 5 buildings on the Parkersburg High School campus; **enclosing the campus.** This included a handicap ramp, and was also built for security purposes.



Wood County Schools

Parkersburg South High School

Parkersburg, West Virginia

Owner

Wood County Schools

Size

295,000 SF approx.

Construction Cost

\$23.8 million

Project Architects-Engineers

McKinley & Associates

Project Architect

Ray Winovich, RA

Contractor

Grae-Con Construction

Completed in July 2008, Parkersburg South High School was a multi-phased project, completed in various "fast-tracked" construction packages over a 2-year period to accommodate the complex on-going campus operations, and encompassed over \$23.8 million worth of construction. This was one of the many projects that was included in the Master Bond Program. The project included 295,000 SF of demolition, additions, major renovations and construction administration for an educational campus. The 92,000 SF of additions and new construction were general classrooms, industrial arts, science laboratories, day care facilities, offices, and athletic gymnasiums. The renovation encompassed all of the original 203,000 SF building; the interior of the building needed major upgrades including fire protection upgrades, a new electrical system, a new HVAC system, and major interior space planning to meet the needs of a modern high school. Scope also included system wide coordination access control. For HVAC, there were dozens of new Roof Top Units installed to replace the outdated RTUs on each of the 9 buildings on campus. Part of this overall project included relocating the existing woodshop; this included designing the new dust handling system and full secondary electrical upgrade was also required to serve the existing and newly purchased shop equipment. There were also new interior and exterior doors and windows installed. There was a major renovation to the 14,230 SF cafeteria area, which included a 7,082 SF dining area, a separate staff dining room, a 3,394 SF kitchen/preparation room with walk-in freezers, a serving kitchen with connected serving area, dish washing room, food storage, and more. They serve well over 1,000 meals a day, and have various meal plans for the students to choose from.

The last phase of this project was constructing over 15,000 Square Feet of covered walkways/breezeways to enclose the campus. These included renovations to existing ones (some were completely open; some were only fenced in), as well as constructing new ones around the campus. These walkways included connecting eight existing and new buildings. These eight buildings are all at different elevations, so special attention was paid to the best layout and location of walkways to maintain approved slopes to retain or achieve new ADA requirements for campus accessibility.



SITE WORK

PROJECT: Williamstown High School Site Work

Owner:
Wood County Board of Education

Location:
Williamstown, West Virginia

Construction Cost:
\$700,000 (Site Work Only)

Project Architect-Engineers:
McKinley & Associates
Stafford Consultants

Description:
Building addition with associated parking and sidewalk improvement. Also constructed new basketball court and tennis court facility.



 **STAFFORD
CONSULTANTS
INCORPORATED**
Engineering Design and Consulting

West Virginia State University

Economic Development Center / DigiSo

Charleston, West Virginia

Owner

West Virginia State University

Size

5,032 SF

Construction Cost

\$850,000

Project Architects-Engineers

McKinley & Associates

Project Architect

Thomas R. Worlledge,
AIA, LEED AP BD+C, REFP

WVSU's Gus R. Douglass Economic Development Center (EDC) is top of mind and nationally recognized for regional digital/creative/innovation economy education, workforce programming, creative business acceleration and incubation, sustainable community development, and as an ambassador for WVSU Extension Service, WVSU degree programs, and multidisciplinary program innovation. The EDC supports the growth of sustainable communities and digital, creative and innovation economy workers, businesses, and communities by creating and facilitating creative economy and innovation-centered education and workforce development programs, social capital building events, and equally creative program delivery models, and by initiating and participating in collaborative community-building programs. They offer research-driven education and workforce training programs based on trending and emerging industry workforce data. They also have an innovative business incubator/accelerator program designed to serve in-house tenants, and non-tenant, new economy businesses.

McKinley & Associates masterfully renovated an office building into the multi-functional space including 10 offices, the "open" Oasis area, 2 workforce training rooms/meeting rooms built with flex space (one is a gallery, as well), DigiSo Multimedia Production Studio and Makerspace, conference room, kitchen, and restrooms. The exterior of the building is simple and modern featuring a glass storefront, and outdoor tables for the visiting chefs. We also provided interior design services, such as room finishes, paint, carpets, floor tiles, exposed structures, decorative ceiling grid, etc. The shared offices are equipped with VOIP phones, fiber enabled broadband, copy/fax/receptionist support. The Oasis area includes an informal meeting space with seating, a 6-seat workbar, five drop-in workstations, lobby, reception, 3 internet TVs and a coffee bar w/ microwave, fridge, etc. The DigiSo Multimedia Production Studio offers mobile creatives, solopreneurs, and students professional video capture space with large green screen, high def cameras, lighting kits, grid, jib, etc.; as well as voice studio, control booth, and editing suites. The voice and capture studios have special rubber tile floors and acoustically enhanced ceilings and wall coverings. Furthermore, the basement is the DigiSo Makerspace: an additional 5,000 SF of collaborative desktop fabrication and prototyping space and equipment for tinkerers of all ages, including but not limited to inventors, researchers, scientists, jewelry makers, artisans, students and others curious about the Maker movement. This is a civic innovation lab, where people come together to share resources and knowledge to build and make things; with interests and skills that range from electronics, robotics, satellites, gaming, security, industrial design, prototyping, sewing, traditional craft, etc. Heavy emphasis on use and development of free software, open hardware, and alternative media. Everybody has access to prototyping space, tools, and specialty equipment like soldering stations, laser cutters, 3D printers, sewing machines and computers with open-source design software. Through the DigiSo brand, EDC is positioned to serve the regional community as part talent hub, part incubator, part accelerator, part new-media-new-business think-tank. The EDC is a physical and virtual talent convener, designed exclusively to engage, develop, and support entrepreneurs, ideas, and opportunities in digital and creative industries. The EDC features co-working / collaborative workspaces, semi-private work areas, private meeting rooms, large and collaborative work areas. The EDC offers large and small training rooms; PC laptops loaded with design and creative software; MacBook Pro laptops, also loaded with design and creative software; in-house projector and screen; huge LCD monitors; professional sound; and video conferencing.



West Virginia University

University Police Building

Morgantown, West Virginia

Owner

West Virginia University

Size

11,768 SF

Construction Cost

\$450,000

Project Architects-Engineers

McKinley & Associates

Project Architect

Thomas R. Worlledge,
AIA, LEED AP BD+C, REFP

McKinley & Associates assisted West Virginia University in renovating a new space for the University Police Department. The design of this three-story building included security walls, force protection, and ballistic materials that were built into the existing gypsum board walls to provide security for the dispatch/emergency communication center. The waiting area required bullet/explosion proof drywall and glass. Also, a double door was added walking into the waiting area. Only exit/entrance doors will be on card swipe to allow entry into the building; all other doors are lock set with key. The dispatch room has card swipe access. There is an overnight evidence room off the existing double doors; this room has electronic lock and a different card swipe into the Secure Evidence. The next room is Fire Arms and storage; this room has card swipe and floor to deck above for security reasons, and the storage room also has a standard lock set for door. The front doors have card swipe access to the upper floors. The communications center monitors the CCTV locations around the campus, along with the security phone locations that are provided for campus safety. The dispatch center serves as the central hub of communications for all WVU campus security issues and acts as the link to the state police and other emergency services. The building houses the Campus Police, emergency dispatch center, secure evidence holding, interrogation rooms, and the police K-9 unit. Construction was completed in 2012.



BEFORE

and AFTER



The West Virginia Police Department was created in 1961 by an act of the legislature. The department is now challenged with providing services to a campus community of more than 35,000 on a daily basis and providing services to major events that attract more than 800,000 guests per year. The West Virginia University Police Department is a department of 53 sworn officers who attended the WV Basic Law Enforcement Academy in Charleston for a minimum of 800 hours of instruction in basic law enforcement and certification. The officers are then required to attend in-service training as required by the WV Law Enforcement Training Committee to maintain their certification. In addition to this training, they have a Field Training Program that consists of 16 weeks of departmental training before being able to work alone as an officer. The department has 10 civilian employees and of this number 7 are assigned to the Communication Section. These communication officers must attend The Association of Public-Safety Communications Officials training course to obtain certification. The training consists of 54 hours for certification with no annual recertification requirement, but the department is developing a training standard requirement. In addition, communications officers must attend 16 hours of training on the National Crime Information Center (NCIC) system with a recertification requirement of every 24 months.



BEFORE



and AFTER

Orrick's Global Operations Center



Wheeling, West Virginia

Owner

Orrick, Herrington & Sutcliffe LLP

Size

88,000 SF approx.

Construction Cost

\$8 million

Project Architects-Engineers

McKinley & Associates

Project Architect

David B. McKinley, PE

Contractor

John Russell Construction



This former Wheeling Stamping Company's manufacturing plant/warehouse complex was adaptive reused and renovated to create some of the most creative office space in the State. This four-story, 88,000 SF former historic warehouse is now a high tech "back office" for a major multinational company. The greatest challenge was to convert the 100 year old once very industrial wood-framed building into a modern "Class A" office facility while retaining the historical heritage of the structure. This \$8 million project won a WV AIA Merit Award.

The Orrick Corporation performed a nationwide search to establish a 24/7 Global Operations Centers to become the first U.S. firm to consolidate back office functions at an off-site facility location. To start, we quickly worked with a project team consisting of the Ohio Valley Industrial and Business Development Corporation, Wheeling National Heritage Area Corporation, and more regional economic development partners to attract a new tenant. The entire exterior shell was designed and constructed in less than 6 months to attract Orrick, and they chose Wheeling! The exterior renovations included reconstructing 120 dilapidated steel windows and glazing, extensive brick repointing, and construction of a new public entrance and parking lot were just the beginning. The entire brick envelope was sealed and painted with a red brick paint following the repointing. Insulating and replacing of the roof of the entire facility was also required. Galvanized metal wall panels and downspouts now enhance the industrial style of the building. The siding is now juxtaposed by a new 4-story all glass entrance, which allows a glimpse of the atrium balconies and walkways inside.

The building was partially occupied while renovations continued. Architecture & engineering design was completed in-house and included a completely new mechanical/HVAC system, structural, civil, electrical and fire suppression systems. On the interior, the original facility was almost void of the vertical circulation needed of a modern day, team oriented work environment. Now, an exposed steel atrium/elevator/stair core connects the four floors while introducing the industrial metals into the interior. Perforated columns, beams, and wire meshes allow daylight to filter in through usually solid steel construction. Two exposed, glass backed passenger elevators with stainless steel interior finishes now traverse the four floors allowing passengers a dynamic view through the atrium and walkways out to Main Street. The stainless steel and galvanized finishes of the exposed spiral ductwork, electrical conduits and cable trays, sprinkler piping, and perforated metal light fixtures further enhance the industrial concept of the design.



WV Department of Health and Human Resources Office Building

Wheeling, West Virginia

Owner

WV Department of Administration:
Real Estate Division

Size

56,783 SF

Construction Cost

\$2 million

Project Architects-Engineers

McKinley & Associates

Project Architect

Thomas R. Worlledge, AIA, LEED AP BD+C, REFP



We were asked by our client to **renovate** a former car showroom and service area into an office building (now called the Mary Margaret Laipple Professional Building). The first fit-out includes space for the West Virginia Department of Health & Human Resources' new Ohio County office. The building was concrete and designed for cars; not people. The first challenge was to remove a large ramp that connected two floors of the building and level the concrete floors. We worked with our client to fit the DHHR's program into the space and maximize the use of the space. We had to work around the existing structural walls and columns and provide fire escapes at the different floor levels of the floor structure.

The project was built in three phases: the exterior was completed first (including new doors, windows, skin, etc.), next the interior (including secure doors), and then the parking lot so the project could be fast tracked to meet the Owner's 2013 move-in requirements. The building was divided into three distinct spaces: **secure office space, Client space, and training areas.** The Office space is secured from the client area by an access control system. The training space was designed to be stand alone for use by other State staff training. The showroom windows were mostly in-filled because of the sensitive nature of the materials in the building, but windows high on the wall provide natural daylight in the space. We worked with the local and state code officials to bring the building into compliance with the current building and fire codes and provide access to all of the occupied areas of the building. We worked with the owner of the building to allow a separate entrance for future tenants of the upper two floors and to keep the renovation cost to a minimum while providing a state of the art facility for the DHHR's use.

Allied Plate & Glass was hired for the Phase I secure exterior doors and hardware (as well as windows). There are exterior doors at 3 locations, which are heavy-duty hollow-metal doors and frames. There is front glaze aluminum storefront framing for 3 entrances, 6 exterior fixed frame windows, and 4 sections of continuous fixed frame windows. This included 112 pieces of glass (both tempered and annealed) in the doors, frames, and windows. The entrances have door frames that are 2" x 4-1/2" thermally broken front glaze transom door frames with front glaze sidelites. The doors and sidelite glazing are 1" overall thickness insulated tempered units, where the transom glazing is 1" overall thickness insulated annealed units. The entrance frame size at 101B is 100" x 129", at 179B is 136" x 129, and at 125A is 138" x 129". All doors are 72" x 84" pairs with continuous hinges and rim panic devices, wide stile doors, 1-3/4" thick with 10" bottom rails & 6" cross-rails. There are two sets of custom hardware, which includes head receptors and aluminum sill flashing with end dams.

Deluxe Doors was hired for the Phase II interior doors and hardware (as well as windows), including secure doors. This included 80 interior door openings of knocked down primed steel frames, red oak clear pre finished wood doors and hardware and glazing. Furthermore, there are closers and reinforced frame heads to 17 doors, passage lever sets to 2 doors, and electrified trim to 2 doors. The video conference room includes a hollow metal, knocked down, primed frame with one way mirror. The reception window (shown to the right) includes aluminum tracking with security glass. The door contact and reader interface was installed by a security contractor.

Open-Ended Contract

West Virginia State Police

Owner

West Virginia State Police

Construction Cost

These projects were completed under 3 multi-year open-ended agreements

Project Architects-Engineers

McKinley & Associates

For over the past 20 years, McKinley & Associates has been honored to have been selected for 3 consecutive West Virginia State Police open-ended contracts for all architectural and engineering services throughout West Virginia. McKinley & Associates have completed design services on dozens of renovations as well as additions on police detachments throughout the State, such as in Clarksburg, Franklin, Jackson County, Lewisburg, Moundsville, and Romney to name a few. Moreover, we have also completed multiple new detachments in Berkeley, Logan, Morgantown, Rainelle, and Wheeling, West Virginia to name a few. Some buildings have E911 Centers which have a higher level of security, such as in Doddridge, Franklin and Romney. We are proud to showcase continuous work for the West Virginia State Police throughout our region, and we are pleased to say that we have also surveyed, reviewed, projected, budgeted, and documented 72 police facilities throughout the entire State.

By virtue of our experience having worked on dozens of State Police Detachments, we understand the need for security throughout the entire building, especially where the public enters the detachment. Typically we use block for force and bullet protection; but in an existing building where we have to use gypsum board partitions we would use fiberglass ballistic panels and expanded metal mesh behind the gypsum board, and on the inside of the wall we would use plywood under for extra blast protection. Providing security below the raised access floor can be addressed by using expanded metal mesh; allowing the wiring to pass through, but limiting access to the space above. We have extensive experience designing secure interior and exterior doors and associated access control systems on dozens of WVSP Detachments.

Architectural and Engineering design for new addition and renovations to the detachment in Pendleton (Franklin). The 3,170 SF addition was for a 911 Center (E911) that included 2 offices, a communications room, a transmitter room, a kitchen and a vestibule. The 3,840 SF of renovations included providing security for the secretary, replacing door hardware to more secure hardware, a bunkroom, ADA upgrades, exit and emergency lights, and an emergency generator to name a few.



A new 3,465 SF Mason County Detachment in Point Pleasant includes secured/separate access to the main WVSP areas which has a squad room with gun storage, Sergeant's office, evidence room, additional/separate evidence lockers, interview room, kitchen, day room, restrooms, file room, garage, and secretary's room with view of commons area. The commons area includes a separate access vestibule, lobby, restroom, conference room, mechanical room, and an additional storage area.



The new 7,375 SF Remney Detachment includes a 1,000 square foot E-911 Communications Center with a separate secured entrance, raised access floors, an uninterrupted power supply (UPS), and an emergency generator. Also included were multiple offices, sleeping quarters, kitchen/lounge area, squad room, evidence storage room, interview rooms, B.C.I. space, M.V.I. space, D.M.V. testing space, and other support spaces.



STAFFORD CONSULTANTS INCORPORATED
GENERAL STRUCTURAL and SITE CIVIL DESIGN PROJECTS

Mountain Eagle Distributing Warehouse
Raleigh County Airport Industrial Park

Foundation design for pre-engineered building warehouse addition.

Ronceverte Elementary School Gym
Ronceverte, WV

Foundation design for pre-engineered building addition to serve as a gymnasium.

North Central Advanced Technology Center
Fairmont, WV

Foundation design, structural design, and retaining wall design for 36,300 sq.ft. three story structure. CMU walls with steel bar joists.

Mercer County Health Center
Green Valley, WV

Foundation design, structural design, and site civil design for 11,500 sq.ft. one story structure. CMU walls with steel bar joists.

Oakvale Elementary School
Oakvale, WV


Foundation design, structural design, and site civil design for 26,500 sq.ft. two story structure. CMU walls with steel bar joists.

Chuck Mathena Center for the Arts
Princeton, WV


Foundation design, partial structural design, and site civil design for 1,000 seat theater and associated service areas. CMU and pre-cast concrete walls with steel frame structure.

Merriman Athletic Facilities Building
Virginia Tech, Blacksburg, VA


Foundation design, structural design, and site civil design for 24,500 sq.ft. two story structure. CMU walls with steel frame structure.

 Brooke County Middle School
Wellsburg, WV

Foundation design, structural design, and site civil design for 112,600 sq.ft. school, consisting of one and two story sections, gymnasium, multi-purpose gym, and auditorium. CMU walls with steel frame structure.

 Weirton Elementary School
Weirton, WV

Site civil design for a 105,300 sq.ft. elementary school, including two parking lots and access road. Drainage design included an underground stormwater detention system.

 Cameron High School
Cameron, WV

Site civil design for a 126,000 sq.ft. high school, including two parking lots and access road. The project also included a biological wastewater treatment plant.

 Willamstown High School

Site civil design for renovations at the high school to provide parking and sidewalk improvements. Work also included a new tennis court and basketball court.

STAFFORD CONSULTANTS INCORPORATED
GENERAL STRUCTURAL and SITE CIVIL DESIGN PROJECTS



Oak Glen High School
New Cumberland, WV

Site civil design for renovations and improvements to the high school multi-use stadium and athletic complex. Work included new parking areas, new sidewalks, artificial surface on the football field, synthetic surface on the running track, drainage, and water system improvements.



Hilltop Elementary School
Sherrard, WV

Site civil design for new elementary school including parking, sidewalks, storm drainage, water, and sanitary sewer. Work also included a package biological wastewater treatment plant.



Parkersburg High School
Parkersburg, WV

Site civil design for renovations to the high school including parking improvements, sidewalks, and drainage design.



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Centralized Expression of Interest
 02 - Architect/Engr

Proc Folder: 365721

Doc Description: CAMP DAWSON BLDG 202 CONVERSION EOI DESIGN

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2017-08-15	2017-09-05 13:30:00	CEOI 0603 ADJ1800000003	1

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:

*000000206862
 McKinley & Associates, Inc.
 32 20th Street - Suite 100
 Wheeling, WV 26003
 (304) 233-0140

FOR INFORMATION CONTACT THE BUYER

Crystal Rink
 (304) 558-2402
 crystal.g.rink@wv.gov

Signature 

FEIN # 55-0696478

DATE August 31, 2017

All offers subject to all terms and conditions contained in this solicitation

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



(Name, Title)
Ernest Dellatorre, President

(Printed Name and Title)
32 20th Street - Suite 100, Wheeling, WV 26003

(Address)
(304) 233-0140 | (304) 233-4613

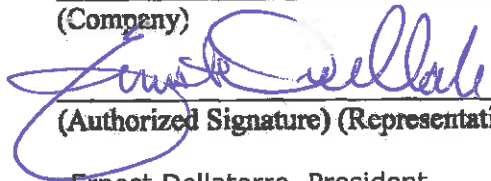
(Phone Number) / (Fax Number)
edellatorre@mckinleyassoc.com

(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.

McKinley & Associates

(Company)



(Authorized Signature) (Representative Name, Title)

Ernest Dellatorre, President

(Printed Name and Title of Authorized Representative)

August 31, 2017

(Date)

(304) 233-0140 | (304) 233-4613

(Phone Number) (Fax Number)

West Virginia Ethics Commission

Disclosure of Interested Parties to Contracts

Contracting business entity: McKinley & Associates

Address: 32 20th Street - Suite 100, Wheeling, WV 26003

Contracting business entity's authorized agent: Ernest Dellatorre

Address: 32 20th Street - Suite 100, Wheeling, WV 26003

Number or title of contract: CEOI 0603 ADJ1800000003

Type or description of contract: CAMP DAWSON BLDG 202 CONVERSION EOI DESIGN

Governmental agency awarding contract: West Virginia Army National Guard CFMO

Names of each Interested Party to the contract known or reasonably anticipated by the contracting business entity (attach additional pages if necessary):

McKinley & Associates

Stafford Consultants (consultant)

Signature: Ernest Dellatorre Date Signed: August 31, 2017

Check here if this is a Supplemental Disclosure.

Verification

State of West Virginia, County of Ohio

I, Ernest Dellatorre, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledges that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 31 day of August, 2017.

Notary Public's Signature

To be completed by State Agency:

Date Received by State Agency:

Date submitted to Ethics Commission:

Governmental agency submitting Disclosure:

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: McKinley & Associates

Authorized Signature: [Signature] Date: August 31, 2017

State of West Virginia

County of Ohio, to-wit:

Taken, subscribed, and sworn to before me this 31 day of August, 2017

My Commission expires August 16, 2020.

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]

Purchasing Affidavit (Revised 07/01/2012)



WV Licenses & Registrations

For your convenience, you will see copies of our key individual's and firm's various licenses & registrations as evidence that we are currently registered in the State of West Virginia. On this page is Thomas Worlledge's (*your Project Manager / Architect*) Registration and Authorization to Practice Architecture in West Virginia (Certificate #2874), and his REFP and his LEED AP BD+C certificates are on the next page. On the pages following, you will see our firm's Certificate of Incorporation, Certificate of Good Standing, Business Registration Certificate, and Certificate of Authorization for providing Engineering Services in West Virginia. We would be happy to provide you with copies of other Professionals' licenses if you wish to see them. In addition, a listing of all the professionals' certifications, degrees, and licenses are found on their resumes in the "Design Team" tab.

The West Virginia Board of Architects

certifies that

THOMAS R. WORLLEDGE

is registered and authorized to practice
Architecture in the State of West Virginia.

In testimony whereof this certificate has been issued
by the authority of this board.

Certificate Number: [REDACTED]

The registration is in good standing until June 30, 2018.



A handwritten signature in cursive, appearing to read "Graig R. [unclear]".

Board Administrator

WV Licenses & Registrations



Recognized Educational Facility Planner

Thomas R. Worledge, REFP

John K. Ramsey, CAE, CEFPI Executive Director and CEO

Irene Nigalioni, CEFPI Chair



Thomas Worledge

LEED AP BUILDING DESIGN + CONSTRUCTION

May 4, 2010

May 4, 2012



McKINLEY & ASSOCIATES
ARCHITECTS • ENGINEERS • INTERIOR DESIGN

WV Licenses & Registrations

BOOK 66 PAGE 793



CERTIFICATE

I, Ken Hechler, Secretary of State of the State of West Virginia, hereby certify that

by the provisions of Chapter 31, Article 1, Sections 27 and 28 of the West Virginia Code, the Articles of Incorporation of

McKINLEY & ASSOCIATES, INC.

conform to law and are filed in my office. I therefore declare the organization to be a Corporation for the purposes set forth in its Articles, with the right of perpetual existence, and I issue this

CERTIFICATE OF INCORPORATION

to which I have attached a duplicate original of the Articles of Incorporation.

Given under my hand and the Great Seal of the State of West Virginia, on this

FIFTEENTH day of

DECEMBER 19 89

Ken Hechler

Secretary of State.



WV Licenses & Registrations

State of West Virginia



Certificate

*I, Natalie E. Tennant, Secretary of State of the
State of West Virginia, hereby certify that*

MCKINLEY & ASSOCIATES, INC.

was incorporated under the laws of West Virginia and a Certificate of Incorporation was issued by the West Virginia Secretary of State's Office on December 15, 1989.

I further certify that the corporation has not been revoked by the State of West Virginia nor has the West Virginia Secretary of State issued a Certificate of Dissolution to the corporation.

Accordingly, I hereby issue this

CERTIFICATE OF EXISTENCE

Validation ID:0WV3W_CQTDH



*Given under my hand and the
Great Seal of the State of
West Virginia on this day of
October 27, 2015*

Natalie E. Tennant
Secretary of State

Notice: A certificate issued electronically from the West Virginia Secretary of State's Web site is fully and immediately valid and effective. However, as an option, the issuance and validity of a certificate obtained electronically may be established by visiting the Certificate Validation Page of the Secretary of State's Web site, <https://apps.wv.gov/soa/admin/secretarysearch/validate.aspx> entering the validation ID displayed on the certificate, and following the instructions displayed. Confirming the issuance of a certificate is merely optional and is not necessary to the valid and effective issuance of a certificate.

WV Licenses & Registrations

**WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION
CERTIFICATE**

ISSUED TO:
**MCKINLEY & ASSOCIATES INC
32 20TH ST
WHEELING, WV 26003-3750**

BUSINESS REGISTRATION ACCOUNT NUMBER: **1040-9524**

This certificate is issued on: **06/28/2011**

*This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code*

*The person or organization identified on this certificate is registered
to conduct business in the State of West Virginia at the location above.*

This certificate is not transferrable and must be displayed at the location for which issued.

This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

atl.006 v.4
L0539442304



McKINLEY & ASSOCIATES
ARCHITECTS • ENGINEERS • INTERIOR DESIGN

WV Licenses & Registrations

CERTIFICATE OF

Authorization

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

*The West Virginia State Board of Registration for Professional Engineers
having verified the person in responsible charge is registered in
West Virginia as a professional engineer for the noted firm, hereby certifies*

MCKINLEY & ASSOCIATES, INC.

C00366-00

Engineer in Responsible Charge: TIM E MIZER - WV PE 013169

*has complied with section §30-13-17 of the West Virginia Code governing
the issuance of a Certificate of Authorization. The Board hereby notifies you of its
certification with issuance of this Certification of Authorization for the period of:*

January 1, 2015 - December 31, 2017

providing for the practice of engineering services in the State of West Virginia.

IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE,
PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.



IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF
REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA
UNDER ITS SEAL AND SIGNED BY THE PRESIDENT OF SAID BOARD.

BOARD PRESIDENT



MCKINLEY & ASSOCIATES
ARCHITECTS • ENGINEERS • INTERIOR DESIGN

Insurance

Per your request, you will find copies of our various Insurance Coverages on this and the following page.

ACORD™		CERTIFICATE OF LIABILITY INSURANCE			DATE (MM/DD/YYYY) 01/30/2017	
<p>THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.</p> <p>IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).</p>						
PRODUCER Paul Associates 1311 Chapline Street P. O. Box 990 Wheeling, WV 26003-0123				CONTACT NAME: III, Lee Paul PHONE (AG, No, Ext): 304.233.3303 FAX (AG, No): 304.233.3333 E-MAIL ADDRESS: PRODUCER CUSTOMER ID #:		
INSURED McKinley & Associates, Inc. The Maxwell Centre 32-20th Street Wheeling, WV 26003				INSURER(S) AFFORDING COVERAGE		NAIC #
				INSURER A: Cincinnati Insurance Co. 10677		INSURER B: Brickstreet Ins Brick
				INSURER C:		
				INSURER D:		
				INSURER E:		
				INSURER F:		
COVERAGES CERTIFICATE NUMBER: 15/18 Liab w/workers comp REVISION NUMBER:						
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.						
TYPE OF INSURANCE	ADD. NUMBER (MM/1/YY)	POLICY NUMBER	POLICY EFF. (MM/DD/YYYY)	POLICY EXP. (MM/DD/YYYY)	LIMITS	
GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJ <input type="checkbox"/> LOC						
A		EPP0146335	08/15/2015	08/15/2018	EACH OCCURRENCE	\$ 1,000,000
					DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 500,000
					MED EXP (Any one person)	\$ 10,000
					PERSONAL & ADV INJURY	\$ 1,000,000
					GENERAL AGGREGATE	\$ 2,000,000
					PRODUCTS - COM/PROP AGG	\$ 2,000,000
						\$
AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS						
A		EPP0146335	08/15/2015	08/15/2018	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
					BODILY INJURY (Per person)	\$
					BODILY INJURY (Per accident)	\$
					PROPERTY DAMAGE (Per accident)	\$
						\$
						\$
UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DEDUCTIBLE \$ RETENTION \$						
A		EPP0146335	08/15/2015	08/15/2018	EACH OCCURRENCE	\$ 1,000,000
					AGGREGATE	\$ 1,000,000
						\$
						\$
WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N N/A X ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						
B		WCB1018014	12/30/2016	12/30/2017	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER	
					E.L. EACH ACCIDENT	\$ 1,000,000
					E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
					E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Reports Schedule, if more space is required) SPECIMEN COPY TO BE HELD BY MCKINLEY AND ASSOCIATES.						
CERTIFICATE HOLDER SPECIMEN				CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE John Clark 1/30/2017		
© 1988-2009 ACORD CORPORATION. All rights reserved.						

ACORD 25 (2008/09)

The ACORD name and logo are registered marks of ACORD

Insurance



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
10/5/2016

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER The James B. Oswald Company 1100 Superior Avenue, Suite 1500 Cleveland OH 44114	CONTACT NAME: Patricia Cholewa
	PHONE (A/C No. Ext.): 216-839-2807
INSURED MCKIN-1 McKinley & Associates, Inc. 32 20th Street #100 Wheeling WV 26003	FAX (A/C No.):
	E-MAIL ADDRESS: PCholewa@oswaldcompanies.com
INSURER(S) AFFORDING COVERAGE	
INSURER A: Continental Insurance Company	NAIC # 18313
INSURER B:	
INSURER C:	
INSURER D:	
INSURER E:	
INSURER F:	

COVERAGES **CERTIFICATE NUMBER:** 268224512 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDITIONAL SUBR INSR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR <input type="checkbox"/> GENL AGGREGATE LIMIT APPLIES PER <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC					EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMPOP AGG \$ \$	
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS					COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$	
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$					EACH OCCURRENCE \$ AGGREGATE \$ \$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A			<input type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER E L EACH ACCIDENT \$ E L DISEASE - EA EMPLOYEE \$ E L DISEASE - POLICY LIMIT \$	
A	Professional Liability Claims Made Retro Date: 9/10/1981	N	Y	AEH591983924	10/10/2016	10/10/2017	Each Claim \$1,000,000 Aggregate \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
 Waiver of Subrogation as designated above is provided when required of the Named Insured by written contract or agreement.

CERTIFICATE HOLDER

Specimen
 For Purposes of Evidencing
 Coverage Only WV 26003

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Patricia A Cholewa

© 1988-2010 ACORD CORPORATION. All rights reserved.

ACORD 25 (2010/05)

The ACORD name and logo are registered marks of ACORD