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NATIONAL GUARD READINESS CENTER
BLUEFIELD - DESIGN E01

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WW PURCHASING
DIVISION

McKINLEY
ARCHITECTURE + ENGINEERING

**EXPERIENCE.
INNOVATION.
DELIVERED.**



5 February 2025

David H Pauline
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

Dear Mr. Pauline and Members of the Selection Team,

McKinley Architecture and Engineering, Barber & Hoffman, and TERRADON Corporation (*McKinley Team*) have teamed up again, and are pleased to provide the West Virginia Army National Guard, Construction and Facilities Management Office with our proposal to provide architectural and engineering design services for the new National Guard Readiness Center at 2915 Old Bramwell Rd, in Bluefield, Mercer County, WV. As you review this submission, we emphasize the following strengths of the McKinley Team with respect to your project:

McKinley Architecture and Engineering is a full-service architectural and engineering firm that has been providing design services since 1981. With offices in **Charleston**, Wheeling, Martinsburg, and Middlebourne, WV and Pittsburgh, PA, we support a professional staff of **over 60 employees** which includes **Architects, Engineers, Project Managers, LEED Accredited Professionals, Interior Designers, Construction Contract Administrators**, and more. Our architects, engineers, and technicians are all in-house, creating optimum communication and collaboration, which results in outstanding service to our clients.

We are excited to announce that for the **3rd consecutive year** we are a member of PSMJ's **Circle of Excellence** as one of the **top-performing Architecture and Engineering firms in the nation**. We are also a winner of PSMJ's **A/E/C Employer of Choice Award** for the **2nd consecutive year**, the industry's premier recognition of firms that have mastered workforce retention and productivity by achieving the highest level of employee engagement. We've made the **Building Design + Construction's Giants 400 Report** as a Top Architecture/Engineering Firm for the **2nd consecutive year**. Furthermore, we are also pleased to announce that for the **5th consecutive year**, McKinley **nationally ranks** and appears on the **Inc. 5000 list** the **most prestigious ranking of the nation's fastest-growing private companies**.

We have experience with **various Public Safety architectural and engineering projects**, which you will see throughout our proposal. This diverse portfolio of emergency facilities experience ranges from **National Guard** projects, public safety facilities, emergency operations centers, E-911 communications centers, firehouses/fire stations, a state fire training academy, EMS / ambulance authorities, police departments, Sheriff's department, and State Police and among others.

From these experiences, we have gained the knowledge to realize the **specialized multi-purpose nature of these critical facilities**. Some of the specialized scope we have designed for includes: sensitivity to the people using the facility, safety and security, public access vs. control access, force protection, cost and energy efficiency, uninterruptible power supply (UPS) and backup power generators, compliance with current building codes, flexible environments and expandability of structure for growth in services and operations, room layouts and efficient use of space, and more.

Barber & Hoffman, our **Structural Engineering consultant**, has been providing engineering services to clients since 1934. B&H is rich with a versatile staff of registered **Professional Engineers**, EI's, technicians, as well as **LEED Accredited Professionals**. They have undertaken many special projects that require critical thinking and innovative solutions, and has risen to the occasion of meeting their clients' special needs. They have worked on **National Guard projects**. In addition, B&H has worked on several projects with McKinley.

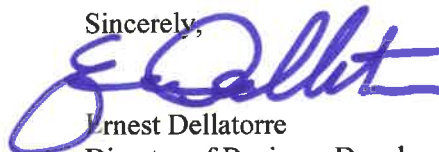
TERRADON Corporation will be utilized for **civil/site engineering and land development**. Since 1989, TERRADON staff have provided a wealth of engineering solutions blanketing West Virginia with successful projects. The TERRADON staff includes **engineers, landscape architects, surveyors, scientists, and LEED Accredited Professionals**. TERRADON Corporation maintains leading-edge staff in five locations, including 3 in West Virginia: Nitro/Poca, Lewisburg, and Fayetteville. TERRADON is a **certified Women's Business Enterprise** as defined by the Women's Business Enterprise National Council, and is the largest woman-owned engineering firm in West Virginia. They have worked on **National Guard projects**. McKinley and TERRADON have worked on several projects together.

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. 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 then deliver**. We encourage you to speak with our references because we feel this is the best way that our abilities can be conveyed to you.

We are submitting to all 3 of your new Readiness Centers (ADJ2500000015, ADJ2500000016, and ADJ2500000017) and because of being the largest A/E firm in West Virginia, we would like the opportunity to discuss how we can reduce costs by being awarded all three projects.

We love what we do, so we care about the results you get. We are ready to begin **immediately** and can work to your schedule to get this project designed and constructed. Thank you for reviewing our submission and considering the McKinley Team for your project. We are very excited about the possibility of working with the West Virginia Army National Guard again.

Sincerely,



Ernest Dellatorre
Director of Business Development
McKinley Architecture and Engineering
(304) 830-5359
edellatorre@mckinleydelivers.com



FIRM PROFILE

HISTORY

Founded in 1981, McKinley Architecture and Engineering is a multi-discipline full service A/E firm of 60+ employees offering comprehensive professional services in architecture, mechanical-electrical-plumbing engineering, interior design, project management, historic preservation, construction contract administration, and more.

We have a broad range of skill and experience for projects involving governmental, training facilities, schools, higher education, sports, and commercial markets.

McKinley has made the 2020, 2021, 2022, 2023, and 2024 Inc. 5000 lists of the nation's fastest-growing private companies. We qualified for PSMJ's 2022, 2023, and 2024 Circle of Excellence as one of the top-performing A/E firms in the nation, and PSMJ's 2023 and 2024 A/E/C Employer of Choice Award. We also made the Building Design + Construction's 2023 and 2024 Giants 400 Report as a Top A/E Firm.



OFFICES

Charleston

129 Summers Street, Suite 201
Charleston, WV 25301 • (304) 340-4267

Wheeling

Fort Henry Building
1324 Chapline Street, Suite 400
Wheeling, WV 26003 • (304) 233-0140

Middlebourne

202 Main Street, PO Box 3
Middlebourne, WV 26149 • (304) 830-5364

Martinsburg

300 Foxcroft Avenue, Suite 306
Martinsburg, WV 25401 • (681) 247-5618

Pittsburgh North

910 Sheraton Drive, Suite 200
Mars, PA 16046 • (724) 719-6975

CONTACTS

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John R. Jefferis, LEED AP, CCM, MPM

Director of Project Management
jjefferis@mckinleydelivers.com • (304) 238-9410

Patrick J. Rymer, AIA, ALEP

Director of Architectural Services
prymer@mckinleydelivers.com • (304) 830-5364

SERVICES

- Architecture
- Engineering
- Architectural/Engineering Design
- Project Management
- Interior Design
- Sustainable Design
- Historic Preservation
- Construction Contract Administration
- Sports and Entertainment
- Learning Environment Planning
- Educational Facility Planning

ASSOCIATIONS

McKinley Architecture and Engineering is a member of the following organizations:

A4LE (Formerly CEFPI), ACI International, AIA, ASCE, ASHRAE, ASPE, AWI, BOCA, NCARB, NFPA, WVEDC, and more.

PROJECT MANAGEMENT

Our Project Managers are skilled professionals in the following areas:

Defining scope and the initial planning of a project are the foundation of a successful project. Project Managers collaborate with clients, principal architects, and design teams to understand project requirements. They are responsible for Scope Management. Throughout the project, they continuously assess and refine the scope, ensuring it remains aligned with the project's goals. They address any changes or deviations promptly with all stakeholders.

Project Managers create detailed financial plans, estimating costs for materials, labor, and other project elements. They track expenses, manage budgets, and allocate resources efficiently. Keeping the project within budget is critical and an ongoing focus of the Project Manager. Project Managers monitor expenses, negotiate contracts, and make informed decisions to avoid cost overruns.

They develop comprehensive project schedules, breaking down tasks and milestones. This involves coordinating with design teams, consultants, and contractors. Project Managers ensure that each phase progresses according to the timeline. They address delays promptly, adjusting schedules as needed.

Project Managers foster collaboration, resolve conflicts, and ensure everyone works cohesively. Architects collaborate with various consultants (structural engineers, MEP specialists, etc.). Project Managers facilitate effective communication between these experts, ensuring seamless integration of their contributions.

In summary, their multifaceted role combines creativity, leadership, and meticulous planning to transform architectural visions into reality.



ARCHITECTURE / ENGINEERING

At McKinley Architecture and Engineering, we pride ourselves on being the best. Clients choose us for their design projects because they want to have the confidence that comes from working with an industry leader. They trust McKinley Architecture and Engineering to get projects done right, within budget and on schedule. That's because the firm's highly experienced, diversified staff is equipped with the latest technology and is on the job from start to finish.

Architectural design today is meeting of minds. At McKinley Architecture and Engineering, a talented range of professionals work together to deliver projects on time, on budget, and with a high degree of personal attention. We believe that design is an evolutionary process where client and architect learn from each other through frequent communication. Understanding budgets, schedules, goals and ideals, we pursue the optimum balance of these forces in the design of buildings.

McKinley Architecture and Engineering has also provided **engineering design and contract administration services** for numerous clients as well as other design firms. Our engineering staff has had special opportunities and experience related to various typical and atypical building types. Our engineering department has designed the first Chilled Beam HVAC System in West Virginia, a Variable Refrigerant Volume / Air-Cooled DX Multizone System with a cost reduction of 30% compared to existing mechanisms, and a building with all interior and exterior LED lighting which came in for the same cost as conventional lighting, just to name a few. We have a well rounded range of experiences and are not afraid to take on new challenges.

CONSTRUCTION CONTRACT ADMINISTRATION



- Construction Contract 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

Our **Construction Contract 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 Contract 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 Contract Administrator is typically on-site once every two weeks, but we can provide additional on-site representation if requested.

SUSTAINABLE DESIGN

Buildings designed today will need to meet the demands of the future. McKinley is positioned to identify and meet the demands. This approach helps to retain the buildings' long-term profitability. 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, governmental, office, and educational project experience, the McKinley team can work alongside local designers to provide sustainable design and construction guidance, offering full architectural design services and guided design workshops on sustainable design issues.

Our Philosophy is to provide our clients with experienced leadership and innovative design expertise to accomplish the goals of the project. Function, economics and versatility, as well as, strong aesthetic appeal which are crucial elements in the design process. McKinley believes that enhancement of the physical environment adds significantly to the enjoyment of life. We have dedicated our professional skills to attain these goals.

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System developed by the U.S. Green Building Council is the nationally accepted standard for the design, construction, and operation of high performance green buildings.

McKinley was the first organization in West Virginia to join the USGBC. We have several LEED Accredited Professionals on staff, including three LEED APs who are specialized in Building Design & Construction. These professionals, along with skilled architectural/

engineering team, can efficiently and cost effectively achieve certification under this standard. McKinley can guide you through the process in order to develop sustainability goals specific to your project.

McKinley was presented with the 2019 Governor's Award for Leadership in Buildings Energy Efficiency at the Innovation & Entrepreneurship Day. We were recognized for our commitment to sustainability and energy efficiency in the design of schools, multi-use facilities, office buildings, and a wide variety of commercial, industrial, government, and historical structures.

Our sustainable designs have also won two U.S. Department of Education Green Ribbon Schools, a Gold Medal Green Building Award by Building of America, WV Department of Environmental Protection's Clean Energy Environmental Award, and two Black Bear Awards for the Highest Achievement for the WV Sustainable Schools program, among other.

We also have a project that is Collaborative for High Performance School (CHPS) Registered; the United States' first green building rating program designed for schools.

McKinley has designed four projects listed on the U.S. Environmental Protection Agency's ENERGY STAR program: Building 55; West Virginia State Office Building in Logan, Hilltop Elementary School, Cameron Middle/High School, and Johnson Elementary School. To receive an ENERGY STAR, you need to perform in the top 25% of the most energy efficient projects in the program. Building 55; West Virginia State Office Building is one of the most energy efficient buildings in the State and is in the Top 5% of all Energy Star rated buildings in the country.



INTERIOR DESIGN

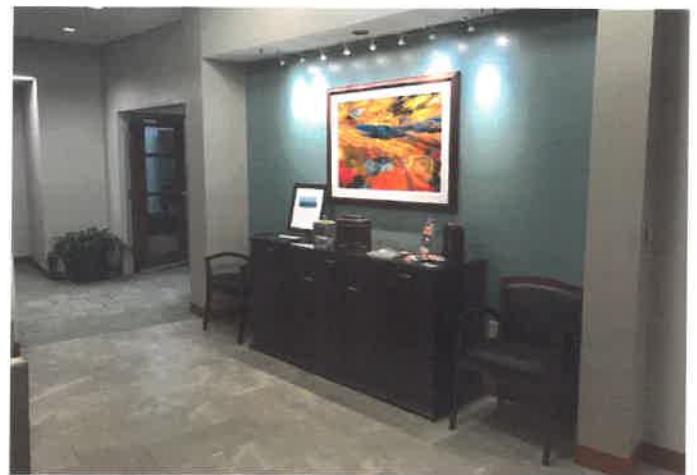
Interior design services begin with a strategy session to determine the owner's project requirements, timetable, and budget. The interviews will include analyzing space requirements, operating procedures, communication relationships, and future needs. An inventory of existing conditions is used to develop accurate drawings and plans.

The current ADA and building codes will be applied to the developed plans for wayfinding (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 a submittal review, post-construction evaluation, and coordination of FF&E contracts when applicable.

We can also design for energy efficiency and sustainability. For interior design & FF&E, specific color and texture selections on the floors, walls, ceilings, and furnishings can enhance the lighting in the space, can create a comfortable atmosphere, and can incorporate a color palette with fresh accents to offer interest and contrast.

We have utilized wall paint with very low volatile organic compounds (VOCs), which keeps the air we breathe cleaner, and contains an anti-microbial that inhibits the growth of mold and mildew. We have specified carpet tile which minimizes waste, has 35% recycled content, and is Green Label Certified, meaning it meets stringent indoor air quality requirements.



CURRENT CAPACITY AND WORKLOAD

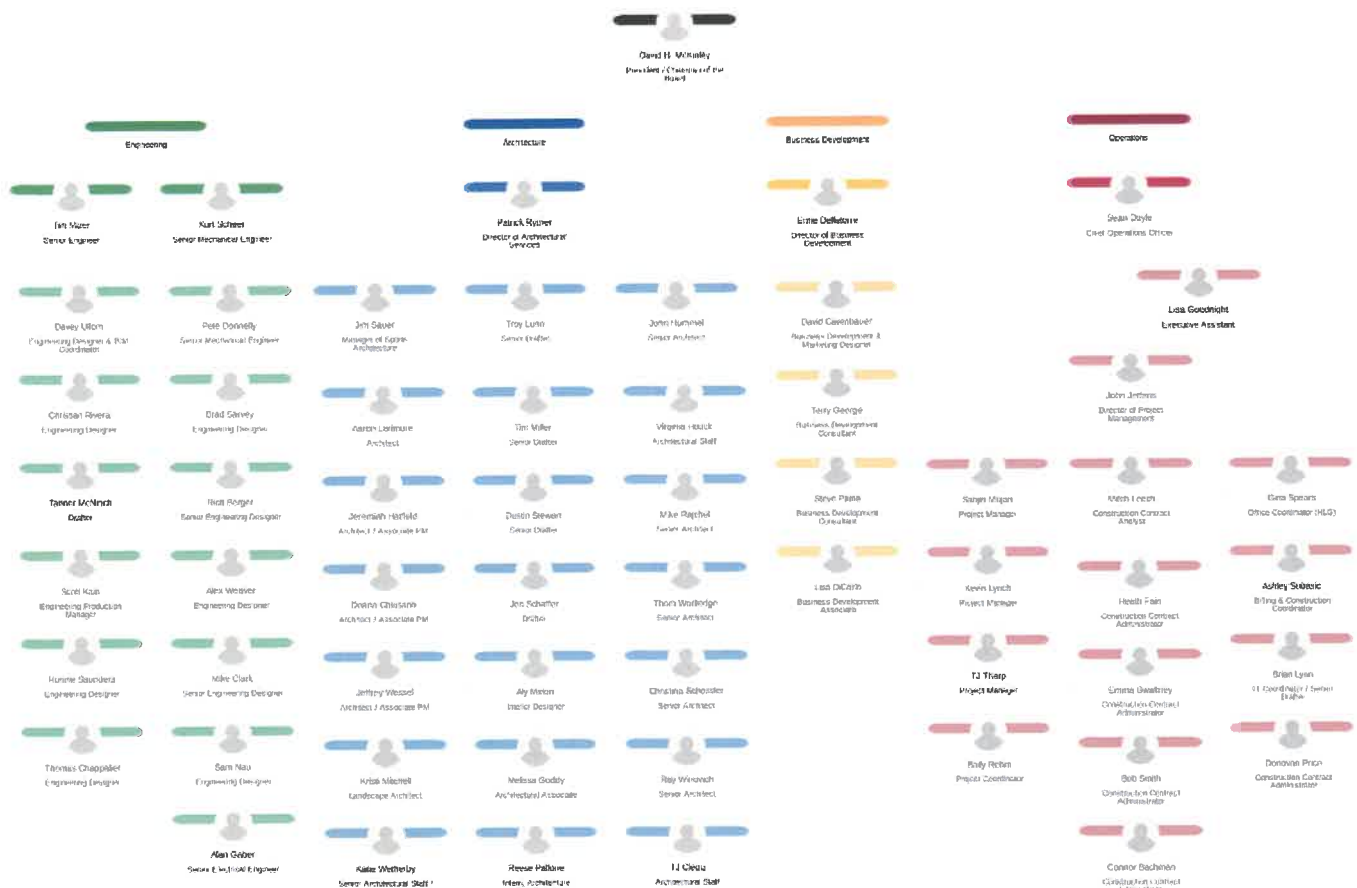
First and foremost, McKinley Architecture and Engineering can state that our design team and large professional staff of over 60 employees will devote the time necessary to provide the West Virginia Army National Guard, Construction and Facilities Management Office with a successful design of a new National Guard Readiness Center. We will be available during the term of the project. We can and will perform for you on time.

For current workload, McKinley has approximately \$207 million worth of projects in the various design and construction phases. Historically, this is well within our comfort zone, and below our staffing capabilities. Our current projects will not affect your contract in terms of workload and availability. In addition, as mentioned, McKinley has made the 2020, 2021, 2022, 2023, and 2024 Inc. 5000 lists, the most prestigious ranking of the nation's fastest-growing private companies! From this, you can be assured that with our growing firm, we have the ability to staff your project to meet your needs. Our current projects will not affect your contract in terms of workload and scheduling.

In addition, for projected workloads; we do not foresee anything that will prevent us from completing your project on time. In the past, McKinley has provided

design services for projects representing more than \$200,000,000 annually in construction value; therefore, we know how to staff accordingly to accommodate our workload and backlog, we currently will sustain the required level of effort to fulfilling contract requirements within the period of performance in the event a key personnel transitions, and are always willing to hire more professionals to help accommodate additional workload.

For the entire McKinley Team capacity; your design team members have been chosen, and will devote the time needed to plan and design your project on schedule. As you will see in their resumes, our team has the ability to perform the required professional design services, and will do it competently and expeditiously. We are available to start immediately upon being selected. In addition to those key team members whose resumes are seen in the submittal; McKinley currently has the ability to dedicate additional resources and can also attribute more professionals from our various trades to accomplish your goals. The technical depth of our Teams' professional staffs indicates that these projects can be accomplished without overloading our group or computer graphics systems.



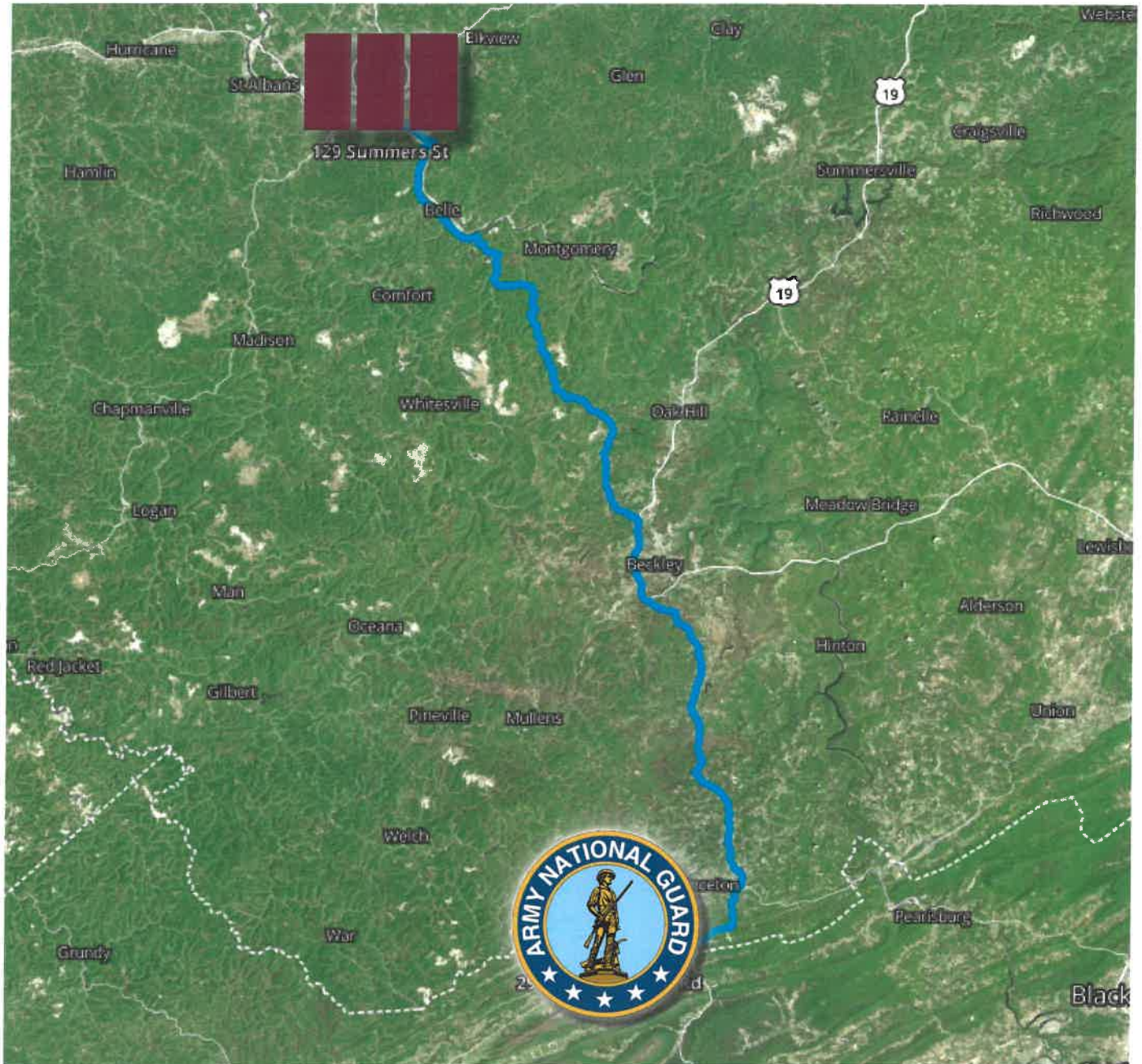
LOCATION OF PRIMARY OFFICE FOR YOUR PROJECT

By virtue of our location, we will provide project services in an **economical, effective and efficient** manner, and will respond to your project **expeditiously**.

With our **Charleston office** being **1 hour, 45 minutes (110 miles)** away from the new National Guard Readiness Center located at 2915 Old Bramwell Rd, in Bluefield, Mercer County, WV, you can be assured that you will receive the best service for your proposed project.

In addition, we have vast experience with our local conditions and unique landscape. With our extensive experience working within the area, McKinley has formed many long standing working relationships with the local area contractors, and construction industry, which enable us to provide realistic Project Cost Estimates so there are no surprises on bid day.

Furthermore, we understand the economical standing and cultural attitudes of our area. This local knowledge is very important for the successful construction of a project within budget.



FIRM OVERVIEW



FOUNDED
1934

HISTORY

Barber & Hoffman, Inc. (B&H) is a prominent **structural engineering** firm serving the Midwest and Mid-Atlantic regions since 1934. Founded in Cleveland by C. Merrill Barber, operations have expanded with firm growth within offices in Pittsburgh and Columbus. This vision coupled with the ongoing efforts of the firm leadership and dedicated staff has created a remarkable legacy of notable public and private landmarks.

B&H serves design and construction professionals, medical, commercial, and educational institutions, building owners and managers, government agencies, contractors, fabricators, and developers. Versatile professional engineers, designers, and technicians couple their experience and knowledge with the latest design techniques, materials technology, and engineering software to produce efficient and effective design solutions.

B&H combines its extensive experience with technical design/drawing software to develop creative and effective solutions. Leadership believes successful project management is accomplished through the collaboration and targeted client communication.

B&H is a professional corporation with various small business enterprise (SBE) certifications.

RELEVANT EXPERIENCE

BLIND AND VISION REHABILITATION SERVICES	Pittsburgh, PA
Building Renovations	
BUTLER COUNTY COURTHOUSE	Butler, PA
Structural Evaluation of Interior and Exterior Wall Cracks	
BUTLER COUNTY GOVERNMENT CENTER	Moon Township, PA
Annex Addition	
PA ARMY NATIONAL GUARD	Moon Township, PA
Combined Support Maintenance Shop	
OHIO ARMY NATIONAL GUARD ARMORY	Brook Park, OH
Brook Park Building Interior and Exterior Renovations	
UNITED STATES ARMY CORPS OF ENGINEERS	Albuquerque, NM
Kirtland AFB Building 201	
MERCER COUNTY	Mercer, PA
Government Office Building Condition Assessment	
VENANGO COUNTY	Oil City, PA
Business Innovation Center	
CITYNET CENTER	Bridgeport, WV
The Bridge Sports Complex	
FAIRMONT FEDERAL CREDIT UNION	Fairmont, WV
Drive Through Bank	
HARRISON COUNTY SCHOOLS	Bridgeport, WV
Additions and Renovations	
OHIO COUNTY SCHOOLS	Wheeling, WV
Additions and Renovations	
WEST VIRGINIA UNIVERSITY	Morgantown, WV
Advanced Engineering Building	
GLENVILLE STATE COLLEGE	Glenville, WV
Science Building Renovations	
LOUIS A JOHNSON VA MEDICAL CENTER	Clarksburg, WV
Addition and Renovations	

PERSONNEL

4 Principals
28 Engineers (16 Registered)
3 LEED AP Personnel
6 Technicians

CAPABILITIES

Facades
New Structures
Existing Structures
Parking Garages
Building Assessments
Restoration
Forensic

MARKET SECTORS

Civic
Municipal
Healthcare
Education
Commercial
Institutional
Housing
Recreation
Parking Garages
Design-Build

STATE REGISTRATIONS

Pennsylvania
Ohio
District of Columbia
Florida
Illinois
Indiana
Kentucky
Maryland
Michigan
New Jersey
New York
North Carolina
Missouri
Virginia
West Virginia
Texas



**Butler County Government Center
Annex Addition**
Butler, PA



FOUNDED: 1989

EMPLOYEES: 90

LOCATIONS:

Poca, WV
Lewisburg, WV
Fayetteville, WV
Washington, PA
Salem, VA

SERVICES:

Civil Engineering
Land Planning & Design
Survey & Mapping
Geotechnical Engineering
Transportation Engineering
Structural Engineering
Construction Services
Environmental Consulting

TERRADON Corporation offers a multi-faceted approach to design engineering and consulting services. For more than 30 years TERRADON staff has provided a wealth of engineering solutions on successful projects. The company built its reputation on expert personnel and quality, time-sensitive service. Those same founding principles hold true today.

The firm has been recognized through numerous awards from professional organizations and agencies including the American Society of Civil Engineers, State Highway Departments, the Department of Environmental Protection and the American Institute of Architects.

TERRADON's diverse team of professionals work together on projects to offer a wide range of services in house to keep projects centrally focused. By providing this range of services, TERRADON is able to work completely as a team to offer clients the most rewarding design.

TERRADON's corporate culture promotes innovation and progressive thinking. Project leaders strive to sustain customers through a wide-range of engineering offerings. TERRADON employees understand the purpose behind their services and work to cultivate lasting relationships with clients through honest, hard work.



TERRADON is the largest, woman-owned engineering firm in West Virginia. TERRADON is a certified Women's Business Enterprise as defined by the Women's Business Enterprise National Council and the National Women Business Owners Corporation.



Taking an undeveloped piece of land and transforming it to your vision requires creativity, an attention to detail, and the ability to stay focused through a complex process. Working alongside TERRADON, a team that seeks to understand and align solutions with client vision, project owners gain a partner that is experienced and capable of dealing with the obstacles that can arise. TERRADON produces plans, permits, and construction details to realize owners' vision.

At TERRADON, land development is one of our foundational services, and is often at the center of projects that include other engineering services. Experienced team members, utilizing modern technology and evolving procedures, help clients find innovative solutions to strengthen their project.

Through clear, constant communication with the client and a level of transparency unmatched in the industry, our project managers work to identify goals and develop answers. From cost models to simulation tools, we provide comprehensive analysis of situations, and deliver realistic schedules and estimates to meet client goals.

Supported by a large, highly-qualified team of engineers, landscape architects, and CAD designers, our land development team has extensive experience with both private and public entities. Such a depth of experience allows us to tackle complex projects that are critical to a client's time and budget needs. It's what has helped us develop extended relationships with clients, and has earned us regular referrals.



*TERRADON maintains
LEED accredited
professionals on staff.*

Services

- School and Institutional Site Development
- Master Planning
- Site Feasibility Studies
- Schematic Design
- Layout Plans
- Grading Plans
- Stormwater Management Plans
- Erosion Control Plans
- Planting Plans
- Presentation Drawings/ Renderings
- Graphic Design
- Construction Observation
- Commercial Site Development
- Industrial Site Development
- Residential & Urban Site Development
- Rural Site Development
- Athletic Facility Development
- Low Impact Sustainable Development
- Parks and Recreational Site Development



Survey and mapping serves as the foundation of a successful design project. The data from these processes provides the framework for site planning, sets out boundaries to work within, and helps owners to determine the constructability of a project.

Survey and mapping serves as the foundation of a successful design project. The data from these processes provides the framework for site planning, sets out boundaries to work within, and helps owners to determine the constructability of a project. Utilizing state-of-the-art geospatial technology, our experienced field survey crews and licensed surveyors are efficient and accurate, priding themselves in precision data collection and informative outputs. Our tailored survey and mapping solutions demonstrates that our team is ready to tackle the needs of clients across a variety of industries, from roadway and government to commercial and residential clients.

With decades of experience, our exceptional survey and mapping teams aim to provide transparency and open communication throughout the process – both the client and our full project teams receive constant updates. This commitment to communication allows for informed decisions, providing the ability to adapt or modify project designs as needed across ever-changing site environments. At TERRADON, our survey and mapping team ensures that every project is efficient ethical and environmentally sound. This has made TERRADON the premier surveying and mapping firm in the region, and the company project owners turn to first.

SERVICES

- Boundary Surveys
- High Order Control Surveys
- Aerial Mapping Control Surveys
- ALTA/NSPS Surveys
- As-built Surveys
- Deformation and Monitoring Surveys
- Above Ground and Underground Utility Surveys
- Construction Staking
- Hydrographic Surveys
- Ground Penetrating Radar (GPR)
- Geodetic Surveys
- 3-D Terrestrial Scanning
- FEMA Flood Certificates, LOMA, LOMR, CLOMR, and CLOMR-F
- Design Level Base Mapping
- Topographic and Planimetric Survey Mapping
- Transportation Corridor Mapping
- Right-of-Way Mapping
- Highway Right of Way Plan Development
- Subsurface Utility Mapping
- Major and Minor Subdivision Plans
- GIS Mapping
- Drone 3-D Mapping
- Photogrammetric Mapping
- Dam Instrumentation Surveys
- FEMA Flood Certificates, LOMA, LOMR, CLOMR and CLOMR-F



At TERRADON, we tailor our approach to the specific project, and collect the necessary data for decision making. It's not just about supplying the data though – we provide an understanding and a plan for our client to move forward. It's not just collection and analyzation, it's about educating our clients on the risks and benefits of our data and recommendations.

With the difficult soil and groundwater conditions found across the Ohio Valley and the Appalachian regions, having an experienced staff that knows the territory is incredibly important. The team at TERRADON aren't just experts in geotechnical engineering, they are geographical experts – many of them are Appalachian Region born-and-raised, and understand the land where our clients build.

This has allowed TERRADON to tackle a vast variety of projects and industries, providing geotechnical investigation and advisement for everything from mining, to cell and high mast towers, to flexible or rigid pavement design. Even tasks such as landfill permitting and environmental remediation are well within our realm of experience.

Services

- Subsurface Exploration
- Test Borings
- Test Pit Excavations
- Monitoring Well & Piezometer Installation
- Slope inclinometers
- Soil and Rock Logging, Sampling & Testing
- Geotechnical Investigations & Site Characterizations
- Site Feasibility Assessments
- Soil and Rock Stability Analysis
- Shallow & Deep Foundation Design and Analysis
- Pile Drivability Analysis
- Groundwater Seepage Analysis
- Dewatering Analysis
- Landslide Analysis & Remedial Design
- Structural Corrections
- Temporary Shoring Design
- Earthen Dams Evaluations & Design
- Municipal & Industrial Landfill Design and Permitting
- Laboratory Testing
- Flexible & Rigid Pavement Design
- Earth Retention Systems
- MSE Walls, Gravity Walls, Anchors (Rock or Soil Nailing), Sheet Pile Walls, and Solider Pile & Lagging Walls
- Geosynthetic Engineering & Design
- Ground Improvement Design



TERRADON offers materials testing and construction monitoring services to document compliance with project design specifications and regulatory requirements. The firm provides construction monitoring for utility, highway, and commercial construction projects. TERRADON also provides laboratory and field testing of construction materials. Engineers and technicians at TERRADON are West Virginia Department of Highways certified in Portland Cement Concrete, Hot-mixed Asphalt, Compaction and Aggregates.

Additionally, TERRADON provides Construction Management services including construction oversight, documentation, and safety procedure implementation. TERRADON has more than 35 qualified and certified construction inspectors and more than 5 qualified construction management representatives. TERRADON's team also includes environmental field inspectors, geotechnical inspectors, and geological field inspectors.

TERRADON Corporation Construction Testing and Inspection Department maintains a full service laboratory testing facility on site at the Poca, WV office. The laboratory is and staffed by qualified and certified construction inspection technicians.

Services

- Slump of Portland Cement Concrete (AASHTO-T119)
- Air Content of Freshly Mixed Concrete (AASHTO-T196 and T152)
- Unit Weight and Yield (AASHTO-T121)
- Making and Curing of Concrete Test Specimens (AASHTO-T23)
- Compressive Strength of Concrete Specimens (AASHTO-T22)
- Fine and Course Aggregate Gradations (AASHTO-T11 and T27)
- Specific Gravity of Aggregates (AASHTO-T84 and T85)
- Atterberg Limits (AASHTO-T89 and T90)
- Moisture Content of Soil (ASTM-D2216)
- Nuclear Compaction Testing of Soil, Stone, and Hot Mixed Asphalt
- Preparation of Certification Forms and Construction Reports
- Welder Certification
- Agency Compliance
- Floor Flatness Testing
- Fireproofing
- Masonry Testing
- Structural Steel Inspection Certified
- Welding Inspection
- Dye Penetrant Testing
- Bolt Testing
- Project Safety Monitoring
- FAA Eastern Regional Laboratories
- Steel Institute AST Inspections

PROJECT APPROACH

Our large professional staff at McKinley Architecture and Engineering can state that we will devote the talent and time necessary to provide the West Virginia Army National Guard, Construction and Facilities Management Office with a successful design of a new National Guard Readiness Center, at 2915 Old Bramwell Rd, in Bluefield, Mercer County, WV. We understand your Phase 1 is to provide a partial design that represents 35% of the design work that will allow the agency to provide a high-level overview of the Construction.

If we are chosen for this project; we are available to **start immediately** and will **provide the necessary hours to complete your project on time**. In addition to those key team members whose resumes are seen in this submittal; we **can also attribute more professionals as required**. The technical depth of our professional staff indicates that this project can be accomplished without overloading our group or computer graphics systems.

We are a West Virginia firm - McKinley's corporation conveniently has a **Charleston, West Virginia office**, as well as offices in Wheeling, Martinsburg, and Middlebourne, WV (as well as Pittsburgh, Pennsylvania).

We believe our strength lies in the quality of the people we employ. Our **seasoned staff of over 60 employees** has an unsurpassed knowledge of the business and the dedication it takes to make each project a success.

The most important element of the entire process becomes communication from you to our designers. We use and welcome your input throughout the entire project.

We continually achieve success in projects by **maintaining time and cost management, quality control and excellent communication** amongst the client, consultants, and contractors.

Our experiences and approach to design **requires a dialog with the West Virginia Army National Guard, Construction and Facilities Management Office**, as well as the **end users of the new National Guard Readiness Center in Bluefield**.

Throughout the design process, we hold **design workshops** to get the critical information needed to achieve a design that meets your needs and budget. We do not only depend on our experience, but on the day to day experiences of those who use the building.

We have found that this **hands on approach** allows us to **focus on your needs and desires and to achieve a better outcome for our client**.

We know this Team possesses the required expertise to address all facets of your project. We have designed hundreds of new construction projects - including several governmental projects.

Briefly described, the **Phases** McKinley Architecture and Engineering proposes for a project include Pre-design/ Programming, Schematic Design, Design Development, Construction Documents, Advertising/Bidding, Assisting with Selection of Contractor, Construction (Administration) and Occupancy.

We offer a **multi-discipline approach** to the design phase services, **because our architects and engineers are both in house** we can offer a more refined approach to building planning, programming and design.

Your Project Manager, John R. Jefferis, LEED AP, CCM, MPM, along with support staff, will track and manage the design discussions and decisions throughout the projects from inception to completion.

John, along with Patrick J. Rymer, AIA, ALEP / CEF, NCARB, Director of Architectural Services, and Tim E. Mizer, PE, RA, QCxP, Director of Engineering Services, will coordinate project-related tasks and progress, perform code reviews and write the project specifications.

When awarded a project, a series of preliminary steps begins; but all projects are unique and will vary according to the goals of the client.

An initial meeting to review the contract, the schedule and a budget is helpful so that a schematic design meeting can be planned.

Assuming programming meetings end with a solid foundation, schematic designs are prepared and reviewed with the client. Schematic plans are dated and attendees are listed on the reviewed drawings. If notations are made on the drawings they are scanned and used for records; copies of the drawings can be issued as an attachment with meeting minutes.

We can include a formal signature box on each sheet issued in each phase if necessary but typically only the final review documents are officially approved by the WVARNG either via a letter, email or signed sheets. We are open to other approval processes as well.

The next phases of design development and construction documentation have similar - but more refined - steps.

John, Patrick, and Tim are responsible for developing the project schedule and monitoring project progress. Deadlines are established for each design phase: programming, schematic design (SD's), design development (DD's) and construction documentation (CD's). The schedule needs to be based on the WVARNG's occupancy goals.

In-house meetings are held to review the design in each phase - and also between phases - especially when changes are made to the design that will impact any

of the engineering disciplines. In-house notes are kept by attendees for later review. **We encourage you to participate in these meetings.**

In addition, our **Quality Assurance Program** also starts with a peer review where a registered professional not involved in the design becomes reviewer of the project before going to bid.

We hold weekly meetings to discuss your project, the budget, schedule and quality assurance. We provide Documented Minutes of all of our meetings and **encourage the WVARNG to also participate in these meetings.**

Also during the design phases, services include material selection for durability and aesthetics, detailing for longevity, training for proper maintenance, equipment location for easy access, equipment warranties, and lastly, a commitment from the WVARNG and Readiness Center personnel to abide by each manufacturer's cyclical regimen for long term warranties. Each of these requires a discussion between the WVARNG and our design professional during the design phases.

The entire McKinley Team is involved in the design process from the beginning so that they know why the project was designed and how the building is intended to be used. This insight is especially advantageous to the on-site Construction Contract Administrator (CA). Our CAs review payment requests and assembly of the project close-out documents.

The CA's are responsible for day-to-day coordination between the contractors and professionals. In addition, they also initially review change orders and contractor's cost proposals.

The background knowledge on the project helps the CA better understand the end product, helps him communicate with the contractors and it provides valuable constructability insight for our designers when questions are brought back from the field, and verify that close-out documents are submitted in a timely manner upon Substantial Completion.

Our Construction Contract 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 and why certain design decisions were made; this helps with on-site decisions.

Our CAs have an important role as being the liaison between the Owner, Contractor, and Architect/Engineers. The primary objective of the Construction Contract Administration services is to ensure

completion of work the way the client wants it - as scheduled and as budgeted.

Your Construction Contract Administrator, Heath Fain, will be on site and will evaluate the quality of the work to verify that it meets the level you require; in addition, he will monitor the contractor's progress to ensure that they are following the Construction Documents.

Also during the construction, the processing of shop drawings and submittals will be controlled and monitored by John, Patrick, and Tim, and includes the receipt, logging, review and return of submittals. Urgent items can often be expedited to satisfy the construction schedule.

The design professionals review all submittals, clarification requests and issue sketches and bulletin drawings. The design professionals also review and approve final change orders and contractor's cost proposals.

Architects and engineers perform their own final inspections in addition to periodic site visits to confirm compliance with bid documents.

Furthermore, our **11-Month Walk-Through** is a process where our professionals return to your facility eleven months after the project is completed. At that time they review all the work that was completed and check all warranties. We are making sure all of the covered work is in order and that the warranties do not expire with equipment or product not working properly.

It should be noted that McKinley Architecture and Engineering has been performing our eleven month walk-through as part of our Standard of Care; long before it was adopted as an AIA 101 Standard.

The project completion time frame expectation for Project Closeout is defined in the front end of the Project Manual in the Specifications so that the contractors are aware of the schedule requirements before submitting a bid.

Our Construction Contract Administrators monitor progress during the project and verify that closeout documents are submitted in a timely manner upon Substantial Completion, and they can specify tools and goals (such as deadlines or monetary values) to encourage compliance.

For the National Guard Readiness Center in Bluefield project, we at McKinley Architecture and Engineering feel the best practice to achieving the greater use of Space, Technology and Systems is to discuss these options with you early on in the Programming and Schematic Design Phases.

Because of our team's experience with similar projects, we are able to discuss with the WVARNG the latest trends and technology in similar facilities.

The McKinley experience in **governmental projects** include Administration and Corporate Office Complexes and **Public Safety Buildings**, and our other experiences include Business Parks, Training Centers, Gymnasiums, Health and Wellness Facilities, Educational and Hands-On Learning, Large-Span Buildings, and much more.

We have vast experience with new building projects. We understand that the success of governmental architecture is measured not just by architectural design alone, but also by the added considerations of all members of the design and development team.

A particularly important and integral part of governmental work is our understanding of the **permitting process and agency procedures regarding building codes**.

In addition, your facility may have many different criteria to address, such as sensitivity to the people using the facility, safety and security and access safety, as well as cost and energy efficiency.

Buildings designed today will need to meet the demands of the future; McKinley Architecture and Engineering 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.

We have several **LEED Accredited Professionals** on staff, whom were designated by the United States Green Building Council. These professionals, along with our skilled architectural/engineering team, can and will efficiently and cost effectively develop sustainability and energy conservation goals specific to your project.

They can help choose energy conservation solutions such as LED lighting fixtures which use less electricity, energy efficient HVAC systems, low maintenance materials, locally sourced materials, and much more.

Our design team will also strive to achieve the **best overall indoor air quality**; studies have shown that it not only has health benefits but also enhances the working environment.

To achieve this our team specifies systems and materials that limit the pollutants from entering the building, and our HVAC / Mechanical Engineers control the quality and quantity of fresh air into the building maximizing the air quality and energy efficiency.

We offer thoughtful design options that enhance the space, protect the environment, and meet the budget constraints.

McKinley Architecture and Engineering has built its reputation over the **past 44 years** on our ability to **deliver projects on time, budget, and with minimal amount of change orders**.

Many of our projects over the past five years have been completed on schedule and with **less than 1% change orders**, which is well below the national average. We've also had **several projects with net negative change orders on the entire project**.

For **equipment**, McKinley Architecture and Engineering always strives to improve the services we provide. Here is a partial list of our Modeling Software as well as other equipment/software we use:

Adobe Creative Cloud, Architectural Graphic Standards, ASCE Standard, Autodesk BIM 360 and Collaborate Pro, Autodesk Building Design Suite Premium (BIM) and Ultimate with Clash Protection (BIM), Autodesk Revit Architectural (BIM), Autodesk Revit MEP (BIM), 3D Studio Max, Autodesk Autocad Architecture, Autodesk Autocad MEP, Autodesk Ecotect Analysis, Bluebeam, Carmel Design Build, Climate Consultant, COMcheck, Cummins Power Suite, EELabs, Enercalc, Enscape, eQUEST, HAP, Lite Pro, Lumion, Masterspec, Matterport, Microsoft Sharepoint, NavisWorks, part3, Ram Advantage, SketchUp, Storm Water Detention/Retention Design Tool, Sweet's, VDI (Virtual Desktop Infrastructure), Visual Professional Edition (Light Modeling/Calculation Software), and more.

By utilizing this software suite of programs, we can access our drawings and job files on mobile devices on-site, which will streamline our design and construction contract administration processes.

For some of our clients, they request access to the VDI, which gives a limited virtual access to their project.

We are confident that the McKinley Team has the talent and technology needed to make this new National Guard Readiness Center in Bluefield project successful.

ORGANIZATION CHART



**The McKinley Team is willing to dedicate more professionals if they are needed; including more Architects, Engineers, Designers, CAs, and more.*



**JOHN
JEFFERIS**
LEED AP, CCM, MPW
DIRECTOR PROJECT MANAGEMENT
MCKINLEY

ARCHITECTURAL TEAM



**PATRICK
RYMER**
AIA, ALEP / CFP, NCARB
DIRECTOR OF ARCHITECTURE
MCKINLEY



**THOM
WORLEDGE**
AIA, LEED AP BD+C, REFP
SENIOR ARCHITECT
MCKINLEY



**RAY
WINOVICH**
RA
SENIOR ARCHITECT
MCKINLEY



**ALY
MITTON**
INTERIOR DESIGNER
MCKINLEY

ENGINEERING TEAM



**TIM
MIZER**
PE, RA, OCEP
DIRECTOR OF ENGINEERING
MCKINLEY



**KURT
SCHEER**
PE, LEED AP
SENIOR MECHANICAL ENGINEER
MCKINLEY



**ALAN
GABER**
PE
SENIOR ELECTRICAL ENGINEER
MCKINLEY



**SCOTT
KAIN**
SENIOR PLUMBING DESIGNER
MCKINLEY



**MICHAEL
CLARK**
SENIOR ELECTRICAL DESIGNER
MCKINLEY



**DAVID
ULLOM**
FIRE PROTECTION DESIGNER
MCKINLEY



**MICHAEL
MILLER**
PE
STRUCTURAL ENGINEER
B&H



**GREG
FOX**
RLA, LEED AP
VP LAND DEVELOPMENT
TERRADON



**SHAWN
GRAY**
ASLA
SITE DESIGNER
TERRADON



**PETE
WILLIAMS**
RLA
LANDSCAPE ARCHITECT
TERRADON



**KRISTEN
McCLUNG**
PE, MBA
SENIOR CIVIL ENGINEER
TERRADON

CONSTRUCTION CONTRACT ADMINISTRATION



**HEATH
FAIN**
CONSTRUCTION ADMINISTRATOR
MCKINLEY



JOHN R. JEFFERIS

LEED AP, CCM, MPM

DIRECTOR OF PROJECT MANAGEMENT / LEED ACCREDITED PROFESSIONAL

Mr. Jefferis, our Director of Project Management, is responsible for the coordination and completion of projects on time, on budget, and within scope. He will ensure instruments of service are meeting contractual requirements and is key in managing client relationships and expectations. John knows how to be more efficient and manage projects effectively to bring them within budget and time, which ensures accurate reporting to the client and management. John has his CCM (Certified Construction Manager) Credential established through the Construction Management Association of America. Furthermore, he is a LEED Accredited Professional.



EDUCATION

Keller Graduate School of Management
Master of Project Management
DeVry University
B.S. Computer Engineering Technology

PROFESSIONAL AFFILIATIONS & REGISTRATIONS

Member:
US Green Building Council
Certified Construction Manager
Master of Project Management

YEARS OF EXPERIENCE

28 years

SELECTED EXPERIENCE

City of Cadiz

Cadiz, OH
Cadiz Fire Department

Citizens National Bank of Woodsfield

Woodsfield, OH
Building renovations study

Barnesville Veterinary Services

Barnesville, OH
Plumbing renovations

Harrison County Commission

Cadiz, OH
Harrison County Courthouse Study

Newbridge Church

Wheeling, WV
Day Care Center and Cafe build-out renovations

Berkeley County Schools

Martinsburg, WV
New Falling Waters Elementary

Berkeley County Schools

Hedgesville, WV
New Hedgesville PK School

Berkeley County Schools

Inwood, WV
New Inwood PK School

Berkeley County Schools

Martinsburg, WV
Martinsburg High renovations

Berkeley County Schools

Martinsburg, WV
Martinsburg High Gym upgrades

Berkeley County Schools

Gerrardstown, WV
New Mountain Ridge Elementary

Berkeley County Schools

Martinsburg, WV
Spring Mills High Athletics

Berkeley County Schools

Hedgesville, WV
Tomahawk Intermediate

Cabell County Schools

Milton, WV
New Milton Elementary

East Fairmont High School Foundation

Fairmont, WV
East Fairmont High Multi-Sport Complex

Harrison County Schools

Nutter Fort, WV
Nutter Fort classroom addition

Harrison County Schools

Clarksburg, WV
Robert C. Byrd High renovations

Harrison County Schools

Bridgeport, WV
Simpson Elementary additions and renovations

Marion County Schools

Fairmont, WV
East Dale Elementary renovations

Wood County Schools

Parkersburg, WV
New Lubeck Elementary

Hempfield Area School District

Greensburg, PA
Owner's Representative for High School project



PATRICK J. RYMER

AIA, ALEP (CEFP), NCARB
DIRECTOR OF ARCHITECTURAL SERVICES

Mr. Rymer, our Director of Architectural Services, brings over 25 years experience in the building design and construction industry. His recent relevant experience includes the project management of several projects, as well as the lead design and construction administration of various Federal, State, County Government and private projects. He has been the lead architect on multiple projects designed during his nearly 20 years at McKinley Architecture and Engineering; these involved both renovations and new construction. Patrick was named the "Architect of the Year" at Project BEST's 2019 Excellence in Construction Awards Gala.



EDUCATION

University of Tennessee
Bachelor of Architecture
Memphis Center for Design

PROFESSIONAL AFFILIATIONS & REGISTRATIONS

Registered Architect in:
West Virginia
Ohio

Member:
American Institute of Architects
Accredited Learning Environment
Planner (formerly known as Certified
Educational Facility Professional)
NCARB

IDP
ArchNet

YEARS OF EXPERIENCE

27 years

SELECTED EXPERIENCE

West Virginia Army National Guard
State-Wide, WV
Multiple Projects

West Virginia State Police
Martinsburg, WV
Berkeley County Detachment

West Virginia State Police
Ripley, WV
Jackson County Detachment

West Virginia State Police
Charleston, WV
Kanawha County Troop 4 HQ

Tyler County Commission
Middlebourne, WV
Tyler County Judicial Building

Ohio County Commission
Triadelphia, WV
Cabela's Phase II Expansion

Regional Economic Development Office
Wheeling, WV
Orrick's Global Operations Center
site improvements

Union Bank
Sistersville, WV
Sistersville Branch

City of Wellsburg
Wellsburg, WV
Wellsburg City Hall Building

Ohio Valley Regional Transit Authority
Wheeling, WV
OVRTA Administrative /
Maintenance Facility renovations

Glenville State University
Glenville, WV
School of Health Sciences

West Liberty University
West Liberty, WV
West Family Athletic Complex
new multi-sport Soccer & Track
Stadium

Berkeley County Schools
Berkeley County, WV
Several Projects County-Wide

Brooke County Schools
Wellsburg, WV
New Brooke Middle School

Hampshire County Schools
Capon Bridge, WV
Capon Bridge Elementary
gymnasium addition

Marshall County Schools
Sherrard, WV
New Cameron High
LEED Registered

Ohio County Schools
Wheeling, WV
Wheeling Park High additions and
renovations

Tyler County Schools
Sistersville, WV
Bus Maintenance Facility

Tyler County Schools
Sistersville, WV
Tyler Consolidated renovations

Wetzel County Schools
New Martinsville, WV
Bus Maintenance Facility

**previous work experience with a firm other than McKinley Architecture and Engineering*



THOMAS R. WORLLEDGE

AIA, LEED AP BD+C, REFP

CHARLESTON OFFICE MANAGER / SENIOR ARCHITECT

A skilled Architect with over 40 years of experience, who has been the former President of the WV chapter of AIA, has received State and National design awards, and placed in National and Global design competitions. Unlike many architects who are new to green building and alternate energy, Thom started his career designing and building alternate energy systems, and was the first LEED Accredited Professional in West Virginia! As a recognized sustainable design expert, he has 2 LEED Certified projects, multiple LEED Registered projects, has articles published in National trade publications, was a featured speaker at multiple National conferences, and much more.



EDUCATION

Virginia Polytechnic Institute & State University
Master of Architecture

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

PROFESSIONAL AFFILIATIONS & 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

Founder & Chairman of the Board:
US Green Building Council's WV Chapter

Former voting member:
ASHRAE 90.1 Int'l Energy Code Committee

YEARS OF EXPERIENCE

41 years

SELECTED EXPERIENCE

State of West Virginia

Logan, WV
Building 55: WV State Office Complex
LEED Certified
ENERGY STAR Rating of 91

West Virginia Department of Health & Human Resources

Wheeling, WV
Ohio County Office Building fit-out / renovations

Charleston Area Alliance

Charleston, WV
Charleston Enterprise Center
WV AIA Design Award

West Virginia State Police

Logan, WV
New Logan Detachment / Back-Up Data Center for the WVSP Headquarters

West Virginia State Police

Dunbar, WV
West Virginia State Police Academy - Renovations to Buildings A, B, and C

West Virginia State Police

Dunbar, WV
West Virginia State Police Academy - New Multi-Purpose Training and Wellness Building

Nicholas County Division of Homeland Security

Summersville, WV
E-911 and Emergency Management Services Center

Belmont County Commission

St. Clairsville, OH
Belmont County Offices build-out

Jefferson County Commission

Steubenville, OH
Jefferson County Jail Renovations

McKinley Properties LLC

Charleston, WV
Summitt Center office build-out

Veterans Affairs Medical Centers

State-Wide, WV
Multiple VAMCs around WV

Veterans Affairs Medical Centers

State-Wide, PA
Multiple VAMCs around PA

United States Postal Service

State-Wide, WV
Several Projects

Marshall County Schools

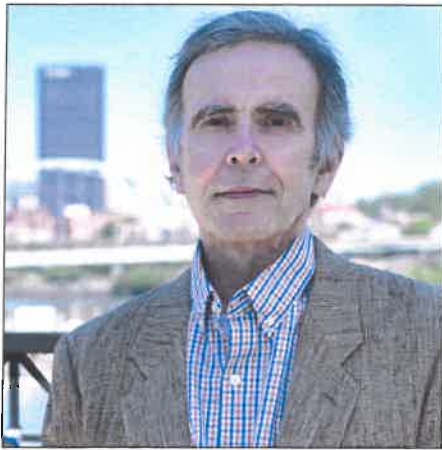
Sherrard, WV
New Hilltop Elementary School
LEED Certified
ENERGY STAR Rating of 86
Won multiple State and National Awards & Recognitions

Harrison County Schools

Bridgeport, WV
New Hilltop Elementary School
ENERGY STAR Rating of 90
NCWV Media's Public Project of the Year
Collaborative for High Performance School registered

Fairmont State University

Fairmont, WV
"University Terrace" 3 Building Apartment Complex - \$30M



RAY WINOVICH RA

SENIOR ARCHITECT

Mr. Winovich is a Registered Architect who, for over 46 years, has extensive experience in projects of various sizes and use groups. This includes educational, governmental, medical, industrial laboratory operations, as well as larger high-technology micro-electronics cleanroom retrofits for clients such as Micron, Intel and IBM. He is an award-winning architect, including a project selected as an Outstanding Design by the American School & University Magazine's Architectural Portfolio. He even has experience internationally, such as being the lead architect of a 150,000 SF, Class-10 clean-room lab for Intel in Leixlip, Ireland.



EDUCATION

Carnegie-Mellon University
Bachelor of Architecture

PROFESSIONAL AFFILIATIONS & REGISTRATIONS

Registered Architect in:
Registered Architect in:
Pennsylvania (1984)
Washington (1997)
Michigan (2000)
Indiana (2000)
New York (2003)
Massachusetts (2003)
West Virginia (2005)
Ohio (2007)

NCARB Certificate - 2003

YEARS OF EXPERIENCE

46 years

SELECTED EXPERIENCE

Cabela's

Triadelphia, WV
Cabela's Eastern Distribution
Center / Phase II

TSI touch manufacturing warehouse

Dunbar Township, PA
TSI touch manufacturing
warehouse

Silgan

Triadelphia, WV
Warehouse expansion at The
Highlands

Carenbauer Wholesale Corp.

Wheeling, WV
Warehouse addition & offices

Bayer Heritage Federal Credit Union

New Martinsville, WV
New warehouse & office building

Intel Corp*

Leixlip, Ireland
150,000 SF Class-10 clean room,
manufacturing facility

Intel Corp*

Hudson, MA
FAB 17, Renovations to existing
clean-room manufacturing facility

Digital Equipment Corp*

Hudson, MA
500,000 SF Manufacturing facility
with Class 1 clean rooms

Van Waters & Rogers Inc*

Morristown, PA
100,000 SF Chemical Storage and
Distribution Center

WV High Technology Foundation

Fairmont, WV
NOAA renovations

WVU Medicine

Moundsville, WV
Reynolds Memorial Hospital
Rapid Care Center renovations &
Emergency Room renovations

Ohio County Schools

Wheeling, WV
Wheeling Park High School's J.B.
Chambers Performing Arts Center
addition

**Outstanding Design by the
American School & University
Magazine's Architectural Portfolio**

Wood County Schools

Parkersburg, WV
Parkersburg South High School
\$23 Million, 270,000 SF addition
and renovations, including
science labs

American Video Class Company*

New Stanton, PA
Joint venture of Sony and Corning
Corp. Design-Build \$200 million
facility, 500,000 SF Plant for TV
picture tube production, with
detached admin-office building,
cafeteria and locker rooms

Armco Steel Co*

Mansfield, OH
New Continuous casting facility at
an existing steel mill site

IBM*

East Fishkill, NY
IBM Facility expansion

*previous work experience with a firm other than McKinley Architecture and Engineering



ALY MITTON

INTERIOR DESIGNER

Mrs. Mitton is an Interior Designer who believes in creating functional yet eye-catching designs that elevate the interior space. She strives for the interior experience to be healthy, safe, and inviting as well as being ADA compliant and ergonomically sound. She has experience designing a broad variety of interior projects including education, hospitality, commercial offices, residential homes, and retail spaces. Her skills include AutoCAD, Revit, the Adobe Suite, FF&E selections, sketching and hand rendering.



EDUCATION

Utah State University
Caine College of the Arts
Bachelor's of Interior Architecture
and Design
Minors in Art & Landscape
Architecture

PROFESSIONAL AFFILIATIONS & REGISTRATIONS

LEED Green Associate

Former Member:
ASID Student Chapter
IIDA Student Chapter
USGBC Student Chapter

YEARS OF EXPERIENCE

8 years

SELECTED EXPERIENCE

City of Weirton

Weirton, WV
Park Drive/Three Springs Drive
development

McKinley Architecture & Engineering

Mars, PA
North Pittsburgh Corporate Office

Berkeley County School

Hedgesville, WV
Hedgesville PK School

Berkeley County Schools

Martinsburg, WV
Martinsburg High School

Berkeley County School

Gerrardstown, WV
Mountain Ridge Elementary
School

Berkeley County Schools

Hedgesville, WV
Tomahawk Intermediate School

Cabell County Schools

Milton, WV
New Milton Elementary School

Pura*

Pleasant Grove, UT
Pura Corporate Headquarters

Mixhers*

Springville, UT
Mixhers Headquarters

Driven Auto Sales*

Springville, UT
Driven Auto Sales Car Dealership

Tamarak Capital*

Saint George, UT
Pura Vista Residence (Parade of
Homes)

Cache County*

Logan, UT
Cache County Children's Justice
Center

Madbrook Donut Company*

Salt Lake City, UT
Madbrook Donut Company
Headquarters

Capita Financial Network*

Salt Lake City, UT
Capita Financial Network
Headquarters

Orgill Family*

Dear Valley, UT
Orgill Residence

Walia Family*

Washington
Walia Residence

*previous work experience with a firm other than McKinley Architecture and Engineering



TIM E. MIZER

PE, RA, QCXP
DIRECTOR OF ENGINEERING SERVICES

Mr. Mizer is a very talented and unique professional being both a Professional Engineer and Registered Architect, which has provided him with a total understanding of the engineering components and the process necessary for integrating architectural design and building systems. Furthermore, 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 Engineering Services, his presence is a key to the design procedures required to coordinate the functionality of the engineering systems into the aesthetics of a building space. He joined McKinley in 1995.



EDUCATION

Kansas State University
B.S. Architectural Engineering

University of Cincinnati
Architecture

PROFESSIONAL AFFILIATIONS & REGISTRATIONS

Registered Engineering in:
West Virginia
Ohio

Registered Architect in:
Ohio

Qualified Commissioning Process
Provider

YEARS OF EXPERIENCE

41 years

SELECTED EXPERIENCE

State of West Virginia

Logan, WV
Building 55: WV State Office
Complex
LEED Certified
ENERGY STAR Rating of 91

WV Department of Administration

Wheeling, WV
WV General Services Division
Buildings 32, 34, 37, & 55 HVAC
Assessments

West Virginia Department of Health & Human Resources

Wheeling, WV
Ohio County Office Building fit-out
/ renovations

West Virginia State Police

Logan, WV
New Logan Detachment / Back-
Up Data Center for the WVSP
Headquarters

West Virginia State Police

Dunbar, WV
West Virginia State Police
Academy - New Multi-Purpose
Training and Wellness Building

Brooke County Commission

Wellsburg, WV
Brooke County Judicial Center

Tyler County Commission

Middlebourne, WV
Tyler County Judicial Building

Belmont County Commission

St. Clairsville, OH
Belmont County Courts & Offices
build-outs

City of Moundsville

Moundsville, WV
New Municipal Public Safety Bldg

City of Wheeling

Wheeling, WV
Wheeling Island Fire Station

West Virginia University

Morgantown, WV
University Police Building build-
out renovations

Jefferson County Commission

Steubenville, OH
Tower Building renovations &
build-out

Ohio County Development Authority

Triadelphia, WV
The Cornerstone Group -
Highlands Office Building

Fort Henry Building

Wheeling, WV
Fort Henry Building build-out

The Maxwell Partners

Wheeling, WV
Wagner Building build-out

The Maxwell Partners

Wheeling, WV
Maxwell Centre build-out

McKinley Properties LLC

Wheeling, WV
Bennett Square Business Center
build-out

Orrick, Herrington & Sutcliffe LLP

Wheeling, WV
Orrick's Global Operations &
Innovation Center build-out



KURT SCHEER

PE, LEED AP
SENIOR MECHANICAL ENGINEER

Kurt is a Mechanical Engineer with over 20 years of experience in the architectural/engineering industry with a focus on mechanical systems design. In addition, he has overseen electrical, plumbing, and fire protection engineering for all his projects for 15 years. Market sectors such as hospitality, higher education, and commercial office are areas where he has significant experience. Additionally, Kurt has experience with LEED Certified projects and energy modeling.



EDUCATION

Penn State University
B.S. Architectural Engineering

PROFESSIONAL AFFILIATIONS & REGISTRATIONS

Registered Engineering in:
West Virginia
New Jersey
Pennsylvania

Member:
US Green Building Council

ASHRAE
ASPE

YEARS OF EXPERIENCE

23 years

SELECTED EXPERIENCE

Brooke County Commission
Wellsburg, WV
Brooke County Judicial Center

Tyler County Commission
Middlebourne, WV
Tyler County Judicial Building

City of Moundsville
Moundsville, WV
Municipal/Public Safety Building

Fort Henry Building
Wheeling, WV
Fourth Floor office build-out

City of Steubenville
Steubenville, OH
Municipal Building interior renovations

City of Weirton
Weirton, WV
Park Drive/Three Springs Drive development and streetscape

WV High Technology Foundation
Fairmont, WV
NOAA renovations

Williamson Hospital
Williamson, WV
Mechanical Renovations

City of Cadiz
Cadiz, OH
Cadiz Fire Department

Nicholas County Division of Homeland Security
Summersville, WV
E-911 and Emergency Management Services Center

YWCA
Wheeling, WV
Various renovations

Wyngate Senior Living Community
Weirton, WV
Weirton Senior Center HVAC renovations

Carnegie Robotics
Pittsburgh, PA
Third floor renovations

Glenville State University
Glenville, WV
School of Health Sciences study

Glenville State University
Glenville, WV
Mollohan Building Renovations

Glenville State University
Glenville, WV
We Proudly Serve

West Liberty University
West Liberty, WV
Elbin Library HVAC renovations

Fayette County Schools
Meadow Bridge, WV
New Meadow Bridge PK-12 School and health clinic

Harrison County Schools
Clarksburg, WV
Gore Elementary School build-out renovation/addition

Wirt County Schools
ESSERF Projects



ALAN M. GABER PE

SENIOR ELECTRICAL ENGINEER

Mr. Gaber is an Electrical Engineer, who for over 37 years, has a broad range of electrical and professional experiences designing building systems. He has experience working collaboratively with others to research and identify the clients' needs, and successfully meeting those needs. Alan takes pride in providing designs that are concise, efficient and within the client's budget. Mr. Gaber's experiences include K-12 & post secondary education, commercial, industrial, institutional, municipal/civic, personal care/senior living, and other sectors of business.



EDUCATION

Ohio Northern University
B.S. Electrical Engineering with a
Computer Science Option

PROFESSIONAL AFFILIATIONS & REGISTRATIONS

Registered Engineering in:
West Virginia
New Jersey
Ohio
Pennsylvania

YEARS OF EXPERIENCE

37 years

SELECTED EXPERIENCE

Brooke County Commission

Wellsburg, WV
Brooke County Judicial Center

City of Steubenville

Steubenville, OH
Municipal Building interior
renovations

City of Moundsville

Moundsville, WV
Municipal/Public Safety Building

City of Cadiz

Cadiz, OH
Cadiz Fire Department

West Virginia Department of Transportation,

Huntington, WV
Division of Highways, District 2
Headquarters

West Virginia Department of Transportation,

New Martinsville, WV
Division of Highways, District 6
Facility

Fort Henry Building

Wheeling, WV
Fourth Floor office build-out

Glenville State University

Glenville, WV
School of Health Sciences study

Fayette County Schools

Meadow Bridge, WV
New Meadow Bridge PK-12
School and school-based health
clinic

Cabell County Schools

Milton, WV
New Milton Elementary School

Fayette County Schools

Oak Hill, WV
Fayette Institute of Technology
renovations

Hampshire County Schools

Slanesville, WV
New Ice Mountain Elementary
School

Hampshire County Schools

Romney, WV
New South Branch Elementary
School

Hampshire County Schools

Augusta, WV
New Windy Ridge Elementary
School

Ohio County Schools

Wheeling, WV
Elm Grove Elementary School
renovations

Summers County Schools

Talcott, WV
Talcott Elementary School Gym
renovation

Tyler County Schools

Sistersville, WV
Tyler Consolidated MSHS Gym
Entrance & Practice Room
addition

Wayne County Schools

Fort Gay, WV
Tolsia High School Gym



SCOTT D. KAIN

ENGINEERING PRODUCTION MANAGER

Mr. Kain, our Engineering Production Manager, 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 McKinley Architecture and Engineering's 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 Architecture and Engineering. He joined McKinley in 2001.



EDUCATION

Technology Education College /
Ohio State University
Associates in Mechanical Design

YEARS OF EXPERIENCE

30 years

SELECTED EXPERIENCE

State of West Virginia

Logan, WV
Building 55: WV State Office
Complex
LEED Certified
ENERGY STAR Rating of 91

Nassimi Realty

Wheeling, WV
General Services Administration -
Social Security Office build-out

West Virginia Department of Health & Human Resources

Wheeling, WV
Ohio County Office Building fit-out
/ renovations

Brooke County Commission

Wellsburg, WV
Brooke County Judicial Center

Tyler County Commission

Middlebourne, WV
Tyler County Judicial Building

Belmont County Commission

St. Clairsville, OH
Courts & Offices build-outs

City of Moundsville

Moundsville, WV
New Municipal Public Safety Bldg

West Virginia University

Morgantown, WV
University Police Building build-
out renovations

City of Wheeling

Wheeling, WV
Wheeling Island Fire Station

Fort Henry Building

Wheeling, WV
Fort Henry Building build-out

Jefferson County Commission

Steubenville, OH
Tower Building renovations &
build-out

Ohio County Development Authority

Triadelphia, WV
The Cornerstone Group -
Highlands Office Building

McKinley Properties LLC

Wheeling, WV
Bennett Square Business Center
build-out

Panhandle Cleaning & Restoration

Triadelphia, WV
Panhandle Cleaning & Restoration
warehouse, office, and garages

West Virginia State Police

Logan, WV
New Logan Detachment / Back-
Up Data Center for the WVSP
Headquarters

Veterans Affairs Medical Centers

Beckley, WV
VAMC Beckley

Dr. Ganzer

Wheeling, WV
Dr. Ganzer Medical Office Building
renovations



MICHAEL J. CLARK, SR.

SENIOR ELECTRICAL ENGINEERING DESIGNER

Mr. Clark is an Electrical Engineering Designer and a Certified Journeyman Electrician who brings a cross-trained background to our projects; being skilled in both the design and the construction ends gives him a unique ability to understand all aspects of a project. He is knowledgeable in all areas of the national electrical code and excels in analyzing and solving problems with various electrical controls and systems. 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.



EDUCATION

Eastern Gateway Community College
A-ATS Electro-Mechanical
Engineering

Jefferson Community College
A-ATS Electrical Trade Technology

PROFESSIONAL AFFILIATIONS & REGISTRATIONS

Certified in SMAW Weld Process &
Basic Welding and Applications 2002

West Virginia Journeyman License

Ohio Fire Alarm License

OSHA 30 Certified

YEARS OF EXPERIENCE

40+ years

SELECTED EXPERIENCE

City of Moundsville

Moundsville, WV
New Municipal Public Safety Bldg

City of Cadiz

Cadiz, OH
Cadiz Fire Department

Brooke County Commission

Wellsburg, WV
Judicial Center & Historic
Courthouse

Tyler County Commission

Middlebourne, WV
Judicial Building

Belmont County Commission

St. Clairsville, OH
Courts & Offices build-outs

State of West Virginia

Logan, WV
Building 55: WV State Office
Complex

LEED Certified
ENERGY STAR Rating of 91

Fayette County Schools

Meadow Bridge, WV
New Meadow Bridge PK-12
School and school-based health
clinic

Hancock County Schools

Weirton, WV
New Weirton Elementary School
and school-based health clinic

Chapman Dental Group

New Martinsville, WV
Dr. Chapman's Office Building

Holiday Inn Express Hotels

5 Hotels in 4 States
Holiday Inn Express Hotels &
Suites

Fort Henry Building

Wheeling, WV
Fort Henry Building build-out
renovations

Wheeling Island Hotel-Casino-Racetrack

Wheeling, WV
Multiple projects

Carenbauer Wholesale Corporation

Wheeling, WV
Warehouse addition and office
renovations

Bennett Square

Wheeling, WV
Bennett Square build-out
renovations

Brooke County Schools

Wellsburg, WV
New Brooke Middle School

Hampshire County Schools

Romney, WV
New Animal Vet Science Center

Harrison County Schools

Bridgeport, WV
New Hilltop Elementary School
ENERGY STAR Rating of 90
NCWV Media's Public Project of
the Year
Collaborative for High
Performance School registered



DAVID A. ULLOM

FIRE PROTECTION ENGINEERING DESIGNER

Mr. Ullom, our BIM Coordinator and Fire Protection Engineering Designer, is a results-driven individual who prioritizes safety, cost-effective solutions, and exceeding customer expectations. He is proficient in Autocad, Inventor, and Revit software. David also has experience as a Sales Engineer, Applications Engineer, and Map Developer, which provides an unique understanding for problem solving.



EDUCATION

Fairmont State University
B.S. Mechanical Engineering
Technology
Pierpont Community and Technical
College
Associates Degree in Applied
Sciences: Drafting and Design

YEARS OF EXPERIENCE

14 years

SELECTED EXPERIENCE

City of Moundsville

Moundsville, WV
New Municipal Public Safety Bldg

City of Cadiz

Cadiz, OH
Cadiz Fire Department

WVU Medicine

Glen Dale, WV
WVU Reynolds Memorial Hospital
- School of Nursing

Brooke County Commission

Wellsburg, WV
Judicial Center & Historic
Courthouse

Belmont County Commission

St. Clairsville, OH
Courts & Offices build-outs

Jefferson County Commission

Steubenville, OH
Jefferson County Justice Center
renovations

Jefferson County Commission

Steubenville, OH
Jefferson County Jail renovations

Trinity Health System

Steubenville, OH
Crisis Rehabilitation Unit

General Services Administration

Warwood, WV
Social Security Administration
Office build-out / renovations

Main Street Bank

Toronto, OH
Toronto branch

Fayette County Schools

Meadow Bridge, WV
New Meadow Bridge PK-12
School and school-based health
clinic

Fort Henry Building

Wheeling, WV
Fourth Floor office build-out

Harrison County Schools

Clarksburg, WV
Gore Elementary School

Harrison County Schools

Lost Creek, WV
New Lost Creek Elementary
School

Ohio County Schools

Wheeling, WV
Elm Grove Elementary School
renovations

Ohio County Schools

Wheeling, WV
Triadelphia Middle School annex
addition & renovations

Ohio County Schools

Wheeling, WV
Wheeling Park High School
addition and renovations

Ohio County Schools

Wheeling, WV
Woodsdale Elementary School
addition and renovations

Steubenville City School District

Steubenville, OH
Steubenville High School
renovations



HEATH L. FAIN

CONSTRUCTION CONTRACT ADMINISTRATOR

Mr. Fain has vast experience in construction, with construction management, business management, business management, and contract administration. With a proven track record of success within several industries he brings a well-rounded approach to keeping things on task, finding solutions and working to see a job completed in excellence. As your CA, he will observe the construction progress; is the liaison between the owner, contractor, and architect/engineer; will ensure that the contractor is following the construction documents; and more.



EDUCATION

Putnam Career and Technical
College
Certificate in Journeyman Carpentry
West Virginia State University
Associate in Architectural Drafting /
Construction Management

PROFESSIONAL AFFILIATIONS & REGISTRATIONS

Capital Fund Specialist
UPCS Certified Housing Inspector
LEED Green Associates Sustainable
Green Building Practices
HVAC Technician Type I, II
Lead Paint Removal

YEARS OF EXPERIENCE

21 years

SELECTED EXPERIENCE

West Virginia Lottery

Charleston, WV
WV Lottery Building roof

Everstory Partners

Charleston, WV
Kanawha Valley Memorial Garden

Fayette County Schools

Meadow Bridge, WV
New Meadow Bridge PK-12
School and school-based health
clinic

Cabell County Schools

Milton, WV
New Milton Elementary School

Clay County Schools

Clay, WV
Clay Elementary School HVAC

Fayette County Schools

Oak Hill, WV
Fayette Institute of Technology
renovations, including roof

Fayette County Schools

Hico, WV
Midland Trail High School gym
renovations

Fayette County Schools

Oak Hill, WV
Oak Hill High School gym
renovations, including roof

Fayette County Schools

Smithers, WV
Valley PK-8 School renovations

Fayette County Schools

County-Wide Windows & Doors
replacements

Fayette County Schools

6 Outdoor Classrooms County-
Wide

Summers County Schools

Hinton, WV
Summers County MSHS addition
and renovation

Summers County Schools

Talcott, WV
Talcott Elementary School Gym
renovation

Wayne County Schools

Fort Gay, WV
Tolsia High School Gym

Wayne County Schools

County-Wide HVAC upgrades

Wayne County Schools

County-Wide Plumbing
replacements

Wayne County Schools

County-Wide Windows
replacements

Wyoming County Schools

Clear Fork, WV
Westside High School Practice
Facility

Wyoming County Schools

New Richmond, WV
Wyoming County East High
School field renovations

MICHAEL R. MILLER, PE

ROLE: Structural Project Manager

Mr. Miller is a Principal in Charge and Project Manager on commercial, institutional, medical, research and restoration projects. He is experienced in structural analysis and design of new structures; investigation, restoration/renovation and reuse of existing structures; building masonry facade investigation, remediation/restoration; preparation of feasibility studies; contract documents and specifications.

In addition, Mr. Miller's collaborative design approach has allowed his clients to develop and incorporate unique, but practical solutions on their projects. His project structural systems capabilities encompass; steel, composite steel, steel joist and joist girder, wood, timber, masonry, reinforced concrete and precast concrete. Foundation systems design includes conventional spread footings, drilled piers (caissons), auger cast concrete piles and slab-on-grades on expansive soils, as well as performance specifications for concrete underpinning and soil nailing.

Joined the Firm
1990



REPRESENTATIVE EXPERIENCE

PA ARMY NATIONAL GUARD Combined Support Maintenance Shop	Moon Township, PA
OHIO ARMY NATIONAL GUARD ARMORY Brook Park Building Interior and Exterior Renovations	Brook Park, OH
UNITED STATES ARMY CORPS OF ENGINEERS Kirtland AFB Building 201	Albuquerque, NM
BUTLER COUNTY GOVERNMENT CENTER Annex Addition	Butler, PA
CITYNET CENTER The Bridge Sports Complex	Bridgeport, WV
FAIRMONT FEDERAL CREDIT UNION Drive Through Bank	Fairmont, WV
HARRISON COUNTY SCHOOLS Additions and Renovations	Bridgeport, WV
OHIO COUNTY SCHOOLS Additions and Renovations	Wheeling, WV
WEST VIRGINIA UNIVERSITY Advanced Engineering Building	Morgantown, WV
GLENVILLE STATE COLLEGE Science Building Renovations	Glenville, WV
GRAND VUE PARK Tree Top Villas	Moundsville, WV
LOUIS A JOHNSON VA MEDICAL CENTER Addition and Renovations	Clarksburg, WV
PENNSYLVANIA TURNPIKE COMMISSION Central Administration Building Additions and Renovations	Harrisburg, PA
DEPARTMENT OF CONSERVATION & NATURAL RESOURCES (DCNR) District 5 Administration Building Addition	Huntingdon, PA
District 20 Administration Building and Support Structure	Dushore, PA

Education

Cleveland State University, 1996
Master of Science in Civil
Engineering

The Pennsylvania State University,
1990 Bachelor of Architectural
Engineering (Structural)

Registration: PE 1997

Pennsylvania
Ohio
Maryland
New Jersey
New York
Virginia
West Virginia

Professional Affiliations

Structural Engineers Association
of Ohio
Code Management Review Board
for City of Butler, PA
American Institute of Steel
Construction
First Sergeant (retired)
Pennsylvania Army National Guard

barberhoffman.com



Greg Fox oversees TERRADON's Land Development Sector. Fox has been responsible for hundreds of notable commercial, educational and recreational site development projects during his 30 year career. During his time as Land Development Department Head, TERRADON has earned Engineering Excellence Awards from the West Virginia Association of Consulting Engineers, numerous Merit Awards from the American Society of Landscape Architects, and the Gold Award from the American Council of Engineering Companies. Fox has performed a number of site selection and analysis services on projects over the last 30 years.

Project Experience

The Summit Bechtel Family National Scout Reserve, Fayette County, WV

Provide Site Design for the 10,600+ acre site in Fayette County, WV. Responsible for site grading, construction drawings, NPDES design and coordination for all project sub-consultants for NPDES permitting with WVDEP.

Greater Greenbrier Sports Complex, Greenbrier County, WV

Provided Master Planning and Grading Design Services for the Greater Greenbrier Sports Complex located north of Lewisburg, WV. Five phases include: Master Planning, Grading Study, Full Construction Documents, Utility Layout, Road Design, Erosion and Sediment Control.

Grand Vue Park, Marshall County, WV

Created a Master Plan for the expansion of the Marshall County, WV park. The Master Plan was followed by a Phase I design and construction drawing package that included six "tree house"-style lodges and a high adventure park to complement the park's existing zip lines. High adventure features include a 30' high aerial obstacle course, a 28' high rock-climbing wall, a 60' gravity swing, a rappelling wall, a 43 ft mega jump and a giant trampoline.

Shawnee Multi-Sport Complex, South Charleston, WV

Provided Master Planning and Grading Design Services for the Shawnee Sports Complex in South Charleston, WV. Phases include: Master Planning, Grading Study, Full Construction Documents, Utility Layout, Road Design, Erosion and Sediment Control.

Putnam County Parks Master Planning, Putnam County, WV

Provided Master Planning and site civil design services for the expanding Valley Park in Hurricane, Putnam County, WV. This work is part of a nearly \$2 million expansion, which was completed in 2013 and adds an additional 6 acres to the park. The project included planning for athletic fields, multiple parking lots, access roads and greenspace, but also incorporated a walking trail that ties into existing park trails. The plan was produced in coordination with the WVDOT to determine roadway/walkway ingress/egress and designed in accordance with local, state and federal regulations.

Fairmont Riverfront Park Master Plan, Fairmont, WV

The City of Fairmont and the Fairmont Renaissance Corporation intend to develop new recreation opportunities and at the same time enhance economic development opportunities for the community. The main goal

Education

B.A. Landscape
Architecture
West Virginia
University

B.A. Geography
& Planning
West Virginia
University

Certifications

Registered
Professional
Landscape
Architect: WV

LEED Accredited
Professional

**Total Years
Experience**
+35

Shawn Gray is an experienced Site Designer and Land Planner who serves as an integral part of the TERRADON design team. He offers experience on many of TERRADON's highest profile projects, focusing on large scale site development and parks and recreation projects. Gray also provides site design and landscape architecture services for K-12 and Higher Education projects. He is responsible for developing site, grading, landscape and utility plans, site detailing and erosion sediment control plans and permitting.

Project Experience

The Summit Bechtel Family National Scout Reserve, Fayette County, WV

Provide Site Design for the 10,600+ acre site in Fayette County, WV. Responsible for site grading, construction drawings, NPDES design and coordination for all project sub-consultants for NPDES permitting with WVDEP.

Greater Greenbrier Sports Complex, Greenbrier County, WV

Provided Master Planning and Grading Design Services for the Greater Greenbrier Sports Complex located north of Lewisburg, WV. Five phases include: Master Planning, Grading Study, Full Construction Documents, Utility Layout, Road Design, Erosion and Sediment Control.

Grand Vue Park, Marshall County, WV

Created a Master Plan for the expansion of the Marshall County, WV park. The Master Plan was followed by a Phase I design and construction drawing package that included six "tree house"-style lodges and a high adventure park to complement the park's existing zip lines. High adventure features include a 30' high aerial obstacle course, a 28' high rock-climbing wall, a 60' gravity swing, a rappelling wall, a 43 ft mega jump and a giant trampoline.

Shawnee Multi-Sport Complex, South Charleston, WV

Provided Master Planning and Grading Design Services for the Shawnee Sports Complex in South Charleston, WV. Phases include: Master Planning, Grading Study, Full Construction Documents, Utility Layout, Road Design, Erosion and Sediment Control.

Putnam County Parks Master Planning, Putnam County, WV

Provided Master Planning and site civil design services for the expanding Valley Park in Hurricane, Putnam County, WV. This work is part of a nearly \$2 million expansion, which was completed in 2013 and adds an additional 6 acres to the park. The project included planning for athletic fields, multiple parking lots, access roads and greenspace, but also incorporated a walking trail that ties into existing park trails. The plan was produced in coordination with the WVDOT to determine roadway/walkway ingress/egress and designed in accordance with local, state and federal regulations.

Fairmont Riverfront Park Master Plan, Fairmont, WV

The City of Fairmont and the Fairmont Renaissance Corporation intend to develop new recreation opportunities and at the same time enhance economic development opportunities for the community. The main goal of the planning process was to develop a plan that will allow for the

Education

B.A. Landscape
Architecture
West Virginia
University

**Total Years
Experience**
+15

"Pete" Williams is a graduate of West Virginia University with a Bachelor of Science in Landscape Architecture. His responsibilities include landscape architectural design, grading and storm water drainage design, the design of pedestrian circulation systems and related amenities, roadway design, site planning, and quality control. Mr. Williams is registered as a professional Landscape Architect in West Virginia with more than 15 years of experience at TERRADON and more than 25 years of overall experience.

Project Experience

Grand Vue Park, Marshall County, WV

Created a Master Plan for the expansion of the Marshall County, WV park. The Master Plan was followed by a Phase I design and construction drawing package that included six "tree house"-style lodges and a high adventure park to complement the park's existing zip lines. High adventure features include a 30' high aerial obstacle course, a 28' high rock-climbing wall, a 60' gravity swing, a rappelling wall, a 43 ft mega jump and a giant trampoline.

Shawnee Multi-Sport Complex, South Charleston, WV

Provided Master Planning and Grading Design Services for the Shawnee Sports Complex in South Charleston, WV. Phases include: Master Planning, Grading Study, Full Construction Documents, Utility Layout, Road Design, Erosion and Sediment Control.

Fairmont Riverfront Park Master Plan, Fairmont, WV

The City of Fairmont and the Fairmont Renaissance Corporation intend to develop new recreation opportunities and at the same time enhance economic development opportunities for the community. The main goal of the planning process was to develop a plan that will allow for the comprehensive development and implementation of new elements to the river-front. The elements planned will include rehabilitation of an existing park and new recreation, commercial, and residential opportunities.

WVANG Headquarters & Campus, Charleston, WV

Landscape Architect involved in the design & production of drawings for project. Site Development work for establishment of a new headquarters building and secured campus.

WVARNG Eleanor Readiness Center, Eleanor, WV

Project Manager involved in the design, production of drawings and construction administration for the project. Site Development work for new secured administration and maintenance facilities encompassing one large campus.

WVANG Fire / Rescue Station at Yeager Airport, Charleston, WV

Project Manager involved in the design, production of drawings and construction administration for the project. Site Development work for a new secured Fire / Rescue Station at Yeager Airport.

Fairmont Fire Station & Public Safety Building, Fairmont, WV

Provided site civil engineering design for the Fairmont Public Safety Building in Fairmont, WV. The Public Safety Building houses the Fairmont Public Works Department, the Fire Department and the Police Department. TERRADON services included: Geotechnical Engineering; Design and Boundary Survey, Full Site Engineering Drawings, Layout, Grading, and Drainage and Erosion Control. The team considered site layout options in order to maximize land use while minimizing earthwork and utility installations. The team provided landscape and hardscape design as well.

Education

B.A. Landscape
Architecture
West Virginia
University

Total Years Experience

+27

Kristen McClung serves as a Civil-Site Engineer for TERRADON Corporation and is based in the Lewisburg, WV office. She brings over 26 years of engineering practice to public and private sector clients. From conception through acceptance of projects, McClung offers experience in civil, environmental, land development, streetscapes, survey, permitting, water, wastewater, paving, storm drainage, transportation and erosion-sedimentation control.

Project Experience

Tanyard Station Sanitary Sewer Design, Village of Barboursville, WV
McClung performed the Sanitary Sewer for this new commercial, out-door shopping mall. She performed the sanitary sewer calculations for the sizing of the trunk line through the development; for the new sewer pump station within the development for that area of the development that was too low for the primary gravity system; and for the new pumps associated with the Village's existing Pump Station #4. As part of the proposed development, the existing force main for Pump Station #4 had to be re-routed into the development's new sanitary sewer trunk line, resulting a new pump curve for the existing station.

Schoenbaum Tennis Court Asphalt & Storm Drainage Repairs, Charleston, WV

McClung designed a new storm drainage underdrain system for the existing tennis courts. The courts were experiencing weeping from beneath the courts of trapped storm water runoff/ground water. As the existing courts were nearing the end the existing asphalt surface course's useful life, the Parks and Recreation Department decided that this was the appropriate time to install the needed underdrain system and re-surface the course, as the new underdrain system would require the demolition of the existing asphalt surface course. McClung, also developed the Contract Documents and Construction Specifications in coordination with the City of Charleston for the public bidding of this project.

The Greenbrier Sporting Club Driveway Drainage Projects, White Sulphur Springs, WV

McClung was brought in to evaluate various private homes' driveways which were experiencing surface water runoff ponding issues from incorrectly graded driveways and non-functioning/undersized storm drainage systems. McClung developed new driveway grading plans and new storm drainage collection and conveyance systems to alleviate the stormwater runoff ponding.

Center Court at Creekside, The Greenbrier, White Sulphur Springs, WV
Served as the project manager for this project, a 2500 seat outdoor tennis stadium and the historic Greenbrier Resort. Responsibilities included site grading to accommodate the bowl stadium, which required over 30,000 cy of fill material. McClung also sized and designed the storm water drainage system, sanitary sewer system, and water distribution system for the project.

Education

M.B.A. University of Georgia

M.S. Civil Engineering, Auburn University

B.C.E. Civil Engineering, Auburn University

Certifications

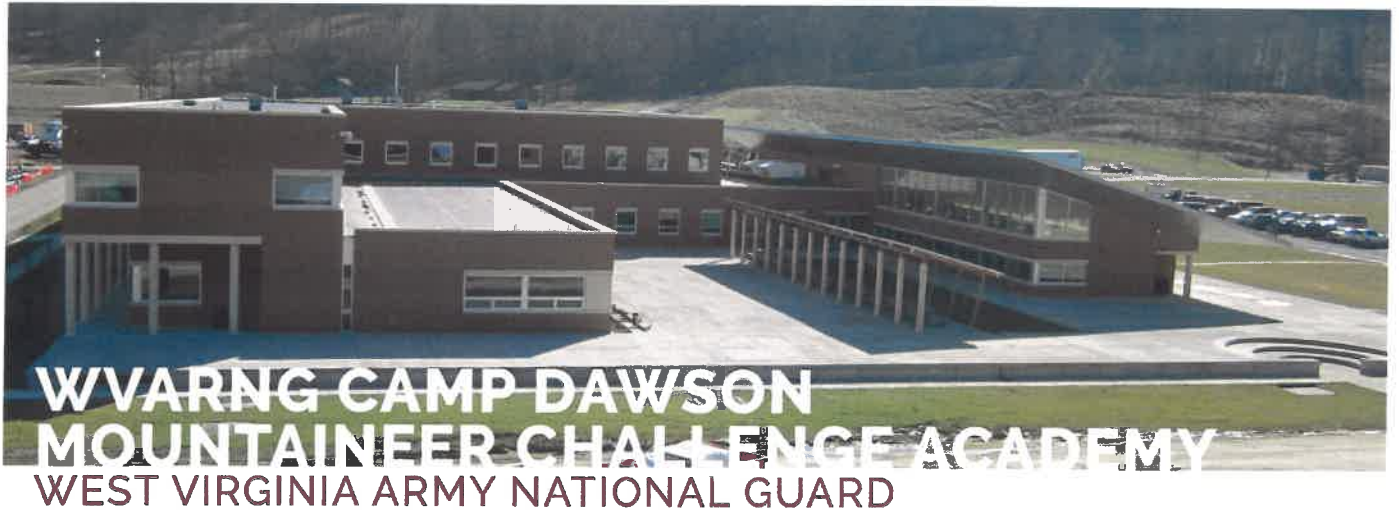
Georgia Soil & Water Conservation Commission

Level II Certified Design Professional

Professional Engineer: WV, GA, AL

Total Years Experience

+26



CLIENT

West Virginia Army National Guard

LOCATION

Kingwood, WV

PROJECT DATA

54,800 SF

\$16.0 M

The new Mountaineer ChalleNGe Academy (capital "NG" for National Guard) is the first nationwide educational program for at-risk children in a quasi-military setting. 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 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, wellness / fitness rooms, locker and shower rooms, restrooms, and a community room / dining facility with an adjacent full service kitchen.

The multi-purpose areas accommodates wellness, physical activity, weight training, assemblies, banquets, and receptions, and serves as the central hub of the complex.

This project won a 2011 WV AIA Merit Award.





WVARNG CAMP DAWSON MULTI-PURPOSE BUILDING WEST VIRGINIA ARMY NATIONAL GUARD



CLIENT

West Virginia Army National Guard

LOCATION

Kingwood, WV

PROJECT DATA

55,000 SF

\$12.7 M

The mission of the Multi-Purpose Building at Camp Dawson is a new structure that serves as the primary wellness / physical training and event space for military units of the WVARNG. Design was in conjunction with Assemblage Architects. Our involvement in this project includes MEP engineering and construction administration.

The facility houses a large open space gymnasium/assembly room, a physical fitness area, locker rooms, 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.

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.

This project won a 2014 West Virginia AIA Honor Award.





WEST VIRGINIA STATE POLICE PROJECTS

WEST VIRGINIA STATE POLICE



CLIENT

West Virginia State Police

LOCATION

State-wide, WV

Throughout the years, McKinley has been honored to have been selected for multiple consecutive West Virginia State Police open-ended contracts for all architectural and engineering services throughout West Virginia.

McKinley has completed design services on multiple new detachments in Berkeley, Logan, Morgantown, Rainelle, and Wheeling to name a few.

Moreover, we have also completed numerous renovations as well as additions on police detachments throughout the State, such as in Clarksburg, Franklin, Jackson County, Lewisburg, Moundsville, Romney, etc.

Various detachments have E911 Centers which have a higher level of security, such as in Doddridge, Franklin and Romney. Many include garages (some have multiple bays) for their various vehicles. Various detachments have bunk rooms.

We also created a Master Plan where we surveyed, reviewed, projected, budgeted, and documented 72 police facilities throughout the State.





WVSP NEW LOGAN DETACHMENT

WEST VIRGINIA STATE POLICE



CLIENT

West Virginia State Police

LOCATION

Logan, WV

PROJECT DATA

13,000 SF

\$4.5 M

We designed a new detachment in Logan County for the West Virginia State Police, which is now the Back-Up Data Center for the WVSP Headquarters facility in South Charleston; therefore, it needed much of the same emergency and power distribution systems since the facility must remain in operation 24/7. For this Logan facility, we designed a 350 kW backup generator for the entire building, as well as an Uninterruptible Power Supply (UPS) room, raised access floors, secured entrances, and more.

This building also includes a Dispatch Center with a dispatch room, radio room, and a computer rooms with raised access floors. Furthermore, the detachment has a two-bay garage, several offices, squad bay for 25 Troopers w/workstations, receptionist area, file rooms, dayroom, evidence room, 30 lockers, conference rooms, processing room, witness interview room, and more.

There are multiple energy-efficient and sustainable design aspects to the building. The Detachment uses a daylight clearstory to let natural daylight into the internal squad and conference rooms. This is the first time Insulated Concrete Forms (ICF) have been used for State Police Buildings; ICF's are an almost perfect fit since they are cost effective to construct, energy efficient, and secure. The HVAC System included the installation of 2 high efficiency condensing boilers, pumps with variable speed drive control, custom air handling unit with DX (remote condensing unit) and hot water coils, variable air volume boxes with hot water heating coils, computer room units with remote condensing units, and direct digital controls.



Lights Turned Off -
Showing Natural Day-Lighting

WVSP ACADEMY'S PHYSICAL TRAINING & WELLNESS FACILITY

WEST VIRGINIA STATE POLICE



CLIENT

West Virginia State Police

LOCATION

Dunbar, WV

PROJECT DATA

12,544 SF

\$1.85 M



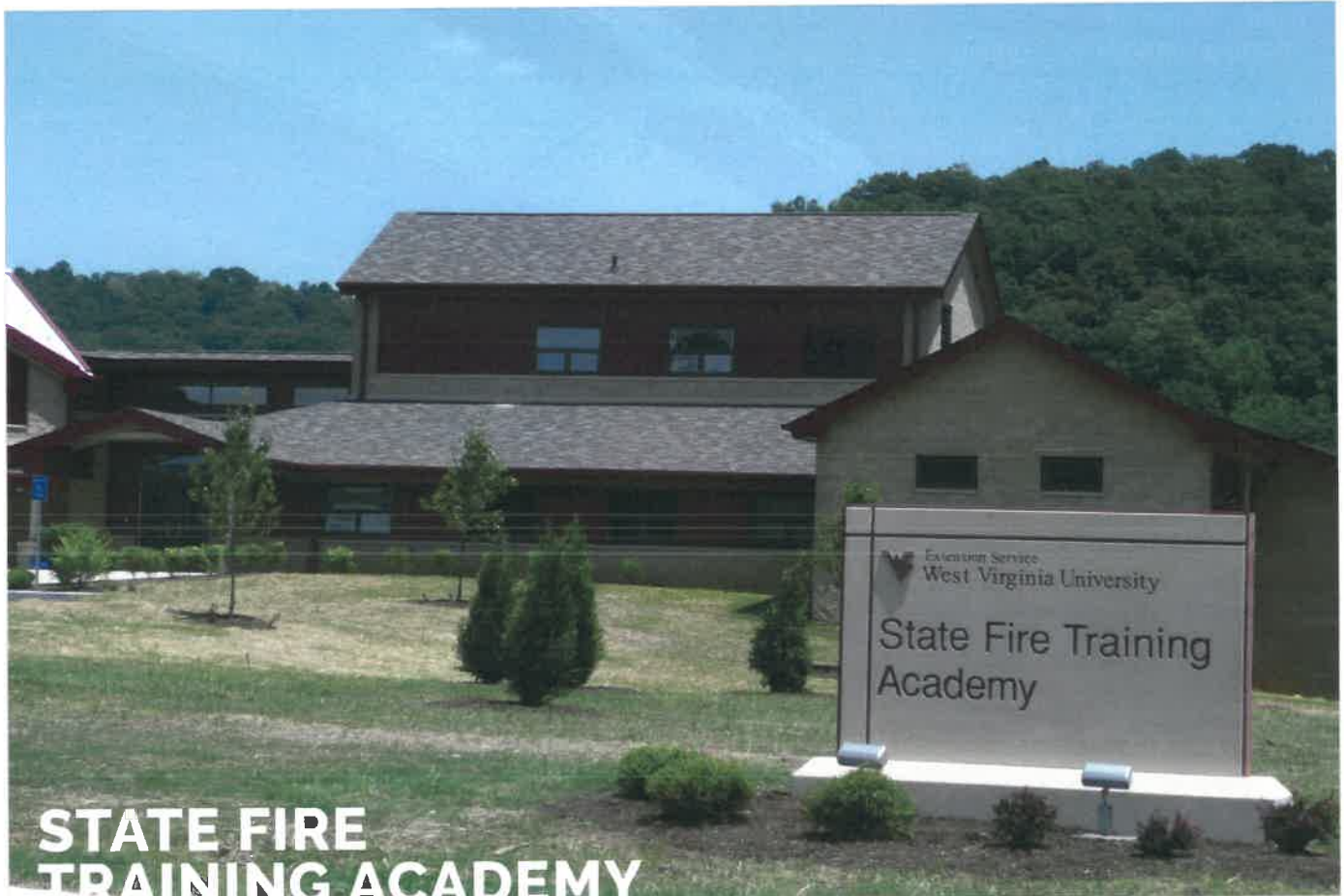
We completed campus-wide improvement projects for the WV State Police Academy which included 5 buildings, and was completed in phases, on a building-by-building basis. This included the renovation of 3 existing dormitory/classroom buildings, the demo of a shooting range and replacing that building with a brand new upgraded shooting range control center, and this new Physical Training & Wellness Facility / Multi-Purpose Building.

This building includes a gymnasium, workout and wellness rooms, locker rooms, an office, server room, and more. Everything was designed to be functional; for example, there are various interior windows throughout so an instructor could have cadets doing weights, cardio, and be in the gym - utilizing all portions of the building at the same time - and the instructor could still simultaneously supervise all three groups.

The 5,500 SF gymnasium is comprised of a full-size basketball court with retractable basketball goals, an indoor track integrated into the gym floor, ceiling-mounted speakers for when they are in assembly, and storage room.

For wellness, there is a 1,100 SF strength training / weight room with a large storage room with kettle bells, weigh machines and dumbbells from 5 pounds to 120 pounds apiece. Next to this is a 1,100 SF cardio training room with dozens of cardiovascular equipment. Next to the cardio is a 784 SF "Force on Force" physical training room with mixed-martial art grade mats in a completely padded room. There are adjacent mens & womens locker rooms.

Furthermore, this was built with energy efficiency in mind, with the use of natural daylighting, self-supporting translucent 2 "skyroofs" in the gymnasium, kalwalls, and more. The occupancy sensors in every room, and skylight photo sensors in the gym, save an average of 40% on energy costs.



STATE FIRE TRAINING ACADEMY WEST VIRGINIA UNIVERSITY



CLIENT

West Virginia University

LOCATION

Jackson's Mill, WV

PROJECT DATA

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

McKinley has worked with West Virginia University since the 1980s, and currently has an open-ended contract with them.

For one of our many projects, the new \$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. The exterior brings to mind a barn set into the sloping terrain in an agricultural setting. 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.

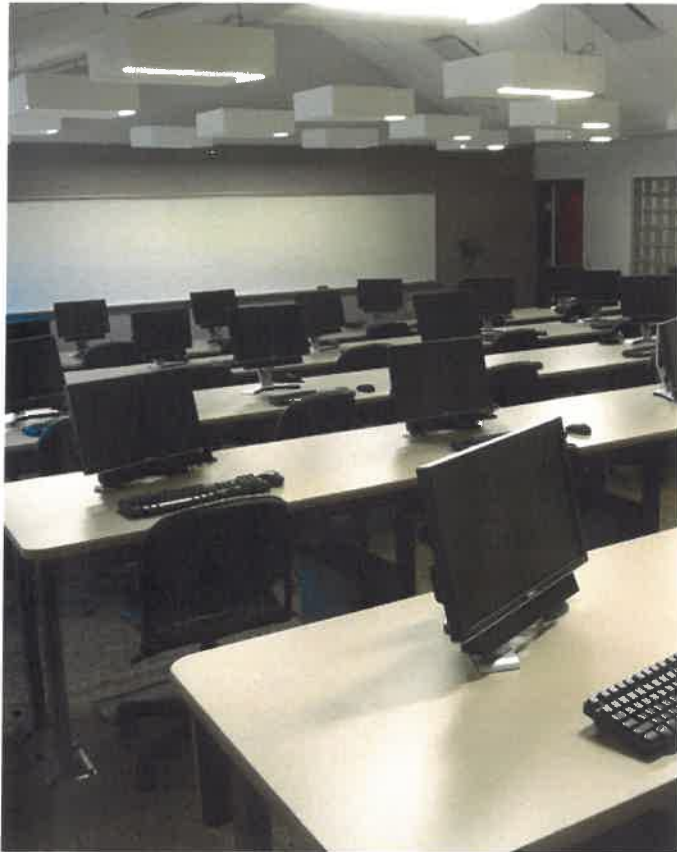
There are two major components to the 25,752 SF building; the first is the Classroom Wing. This wing is comprised of a multi-tiered 30-seat distance learning room, two other connected instructional classroom spaces that allow for a range of class sizes, 4 administrative offices, 6 cubicle offices, a conference room/library, and a lounge/dining area. The administrative area is private but easily accessible from all classrooms. The multi-use facility is ideal for community group meetings and other events.





Continued State Fire Training Academy

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. A custom metal building skeleton with a board & batten metal skin was designed. The siding is representative of rural, vertical barn siding and serves as an integrating element throughout the large complex.





WHEELING ISLAND FIRE STATION CITY OF WHEELING



CLIENT
City of Wheeling

LOCATION
Wheeling, WV

The Wheeling Island Fire Station proved to be a very exciting and interesting project for McKinley Architecture and Engineering. The station was built for the Wheeling Fire Department's Engine Company No. 5, who not only work here, but also live in this building during their shifts.

The living quarters feature a full kitchen and shared living/dining space as well as two semi-private bedrooms plus captain's bedroom and office. There is also an equipment/storage area, locker room, laundry room, exercise room/gym, as well as a shower rinsing area for the firemen when they return from a call.

The firehouse is equipped with three truck bays for Engine 5, the Regional Emergency Response Vehicles, and also houses the Fire Department's boat during the winter months.

The building is designed to resist flood damage with vents at the bottom floor line installed to equalize pressure of flood water. All living space was placed on the second floor, which is out of the floodplain.

Additionally, there is a platform generator at the top of the 35-foot hose tower. All mechanical equipment is also on the second level.

The building was designed to accommodate the modern fireman and to fit into the neighborhood, while still having the qualities of a traditional firehouse with a look that is recognizable from the street.





BUILDING 55 WEST VIRGINIA STATE OFFICE COMPLEX STATE OF WEST VIRGINIA



CLIENT

State of West Virginia

LOCATION

Logan, WV

PROJECT DATA

53,200 SF

LEED Certified

ENERGY STAR Rating of 91

AIA Craftsmanship Award



City leaders were searching for a catalyst to stimulate community efforts to revitalize downtown Logan, WV. This office building 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 office 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. There are dozens of offices, multiple open work areas, conference rooms, etc.

The 53,200 SF building provides current technology, flexibility for future growth, and security features for existing and future tenants.

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





Continued Building at West Virginia State Office Complex

energy recovery ventilator, and direct digital controls. In addition, a tight building envelope was created with closed cell foam insulation and thermal efficient windows. In March 2014, this project became **LEED Certified**.

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.





Continued Building at West Virginia State Office Complex

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.

After completed, the firm *alliantgroup* completed an Energy Efficient Commercial Building Tax Deduction study regarding the energy efficient features of the building (*seen on the following pages*), and they projected the building's total energy costs and power costs to have savings of \$34,231 annually!





September 5, 2014

Sent Via CMRRR: 7013 2630 0000 2069 4021

Mr. David J. Hildreth
West Virginia Department of Administration
900 Pennsylvania Ave., Ste. 500
Charleston, WV 25302

Re: Logan State Office Bldg. – Energy Efficient Commercial Building Deduction

Mr. Hildreth:

alliantgroup has completed an Energy Efficient Commercial Building Tax Deduction study for Logan State Office Bldg. for Massaro Corporation. As required by U.S. Tax Code § 179D, notification must be given to the building owner regarding the energy efficient features of the building and the building's projected annual energy costs.

Below is a list of the energy efficient features of the building which were installed on or in the building as part of a plan designed to reduce the total annual energy and power costs in comparison to a reference building which meets the minimum requirements of ASHRAE (American Society of Heating and Refrigeration, and Air-Conditioning Engineers) Standard 90.1-2001.

Heating, Ventilation, and Air Conditioning Systems:

- Boilers
- Unit Heaters
- Chillers
- Energy Recovery Ventilation

Interior Lighting Systems:

- Fluorescent Bulbs
- LEDs
- Occupancy Sensors

Building Envelope System:

- Pre-Cast Panels
- Rigid Polyisocyanurate
- Gypsum Board

3009 POST OAK BOULEVARD, SUITE 2000 | HOUSTON, TEXAS 77056
www.alliantgroup.com | 800.564.4540

The projected annual energy cost for Logan State Office Bldg. was calculated to be \$34,231. Please note that the projected annual energy costs may vary from the building's actual energy costs due to the exclusion of process loads, exterior lighting, variations in occupancy, and variations in usage schedules among other variables.

Please be advised that the amount of the deduction that has been allocated to Massaro Corporation is \$98,658 for the building envelope, HVAC and hot water, and lighting systems in the building. For more information on the allocation of the section 179D deduction, please refer to the U.S. Tax Code § 179D and IRS Notice 2008-40. A copy of the notice can be found at www.irs.gov

If you have any questions, please do not hesitate to contact me.

Very truly yours,



Rizwan Virani
Managing Director



www.alliantgroup.com | 800.564.4540



BROOKE COUNTY JUDICIAL CENTER BROOKE COUNTY COMMISSION



CLIENT

Brooke County Commission

LOCATION

Wellsburg, WV

PROJECT DATA

33,000 SF

\$11.0 M

McKinley led the team that recently designed the new Judicial Center for the Brooke County Commission.

It was recently completed; A Grand Opening Celebration and Ribbon-Cutting Ceremony was held on March 26th.

A lack of space in the older courthouse and concerns about security led current and former county commissioners to pursue the new building.

This 3-story, 33,000 square foot building is on the site directly south of the existing courthouse annex. It has been situated so that first floor is out of the 100 year flood plain, and it is still completely accessible to the public.

The Judicial Center includes the Circuit Court, Magistrate Court, Family Court, Prosecutors office, Probation office, secure holding cells on each floor and all supporting staff for each. Security for the entire building was important.

The building is steel framed with a brick and stone veneer. There is a large glass entry facing the Ohio River.





TYLER COUNTY JUDICIAL BUILDING

TYLER COUNTY COMMISSION



CLIENT

Tyler County Commission

LOCATION

Middlebourne, WV

PROJECT DATA

\$10.0 M

McKinley Architecture and Engineering will provide the Tyler County Commission with architectural and engineering design services for renovations to the Tyler County Courthouse, and connected Sheriff's Office/g11 building, and for the design of a new Judicial Building.

The first phase is the Judicial Building, which was recently completed, and had a Ribbon-Cutting Ceremony on August 30th.

The original intention was for the proposed building to be located directly behind existing courthouse, which is currently an asphalt parking lot; however, the site consists of fill that wasn't placed, and the addition would take all the courthouse parking. Therefore, we worked with the Commissioners to study other potential sites, and decided to build the facility on Main Street.

Replacing aging and insufficient facilities, the new brick and stone clad facility will primarily house the county magistrate and family courts in new courtrooms for each with space for public officers, staff, public transactions, and in-custody. McKinley worked with local members of the judicial system, commissioners, law enforcement and State Supreme Court in planning the Secure and modern spaces appointed for the dignified and efficient carriage of justice in 21st century proceedings.

The general contractor effectively coordinated the work on a tight site. The skilled tradesmen expertly executed the McKinley Teams' designs of street arcade masonry archways (honoring the aesthetics of the nearby historic courthouse), intricate wood paneling and terrazzo finishes, and efficient MEP systems to name a few.





MOUNDVILLE MUNICIPAL / PUBLIC SAFETY BUILDING

CITY OF MOUNDVILLE



CLIENT

City of Moundsville

LOCATION

Moundsville, WV

PROJECT DATA

27,000 SF

\$12.0 M

McKinley Architecture and Engineering led the team that recently designed a new Municipal/Public Safety Building for the City of Moundsville. This project is under construction.

As part of the design process, we proposed several layouts to the City from which to choose and we walked them through the decision making process to ensure that they are getting a building that meets their needs.

After planning meetings and design discussion, the building has developed into a 3 story structure. It will hold the Municipal Offices, Fire Department, Police Department, and Utility Departments. The 3rd story will be a wide-open storage area, which is currently a critical issue facing city employees.

The building is situated at a corner allowing easy access for the three bay Fire Department and easy access for the Police Department Sallyport. They also have Decon, hose storage, gear storage / locker room, offices, kitchen, fitness areas, and more.





TSITOUCH MANUFACTURING WAREHOUSE

TSITOUCH



CLIENT
TSITouch

LOCATION
Dunbar Township, PA

PROJECT DATA
31,190 SF
\$4.0 M

TSITouch is known for their Touchscreen Technology.

We designed a 31,190 SF Pre-Engineered Metal Building (PEMB), which will be used for TSITouch's warehouse / manufacturing, testing, distribution, and administration offices.

Our design increased the client's efficiency by creating a smooth systematic path from receiving to assembly to shipping / loading dock.

The building is climate controlled.

Our design exceeded the minimum energy requirements for the project.

There is nearly a 29' clear height ceiling at the manufacturing portion of the facility.

The design was completed ahead of schedule. The bid results were on the budget estimate.





CABELA'S EASTERN DISTRIBUTION CENTER



CLIENT
Cabela's

LOCATION
Triadelphia, WV

PROJECT DATA
1,200,000 SF
\$40.0 M

Located at The Highlands off of Interstate 70 is a \$40 million commercial warehouse/distribution center that was built in 2 fast-tracked phases. The building measures 1,200,000 square feet (600,000 SF for each of Phase I and Phase II), making it one of the largest buildings in West Virginia!

Phase I included 32,000 SF of administrative offices and a large employee lunch room. Phase 2 included a 15,000 SF storage/maintenance shop and battery charging room.

The warehouse features 30-FT high-bay ceilings to accommodate large automated storage/retrieval mezzanines and high-tech racking; the building's floor was designed to withstand continuous fork lift traffic.

In order to facilitate construction during winter climate, a precast concrete wall panel system was designed for the building shell, and erected onto steel framing.

The project was developed on a deep-fill, greenfield site with massive retaining walls, and new utilities. We worked closely with the site engineers to coordinate exterior vehicle circulation and fire protection systems. This included particular attention to building and dock access for the 90 dock positions.

The project also included a large parking and shipping area around the facility; 300 trailer parking spaces and 750 employee parking spaces. Security lighting was designed for these areas, with careful attention paid to illumination levels to permit camera operation in the parking lot areas.





Continued Cabela's Eastern Distribution Center

This facility is a key link in Cabela's retail expansion, serving as their primary distribution center for the East Coast. In addition to keeping their retail stores fully stocked, it also benefits their direct business by reducing delivery times and lowering transportation costs to their catalog and Internet customers in the eastern United States.

From this, certain areas of the facility need to be in operation 24/7; therefore, we designed an emergency backup generator and uninterruptible power supply (UPS) for the main data server room and for life safety systems.





MILLENNIUM CENTRE TECHNOLOGY PARK

OVIBDC



CLIENT

Ohio Valley Industrial & Business
Development Corporation

LOCATION

Triadelphia, WV

PROJECT DATA

Multiple Phases, Sizes, & Costs

The Millennium Centre is a 20-acre technology park located along Interstate 70. McKinley Architecture and Engineering is proud to have participated in creating these state of the art facilities with the Ohio Valley Industrial & Business Development Corporation, through the Design/Build process with Cattrell Companies, Inc.

There are various buildings and tenants on the site, which include multiple phases and expansions. With our Clients being confident their businesses would "take off," but did not have the finances to build exactly what they were hoping for; we designed these buildings in such a way that they all could easily expand in the future. Therefore, many of these buildings have had multiple additions, and we successfully used a phasing technique to accomplish these expansions.

For example, Phase II was a 15,000 SF masonry and frame building, including complete electrical, plumbing, mechanical, fire protection, landscape, and paving work. Shortly after, a 6,620 SF addition to this building was completed, and included sitework, paving, foundations, slab on grade, superstructure, exterior closure, roofing, interior construction, mechanical, plumbing, and electrical.

One of the main tenants in this advanced industrial park is Touchstone Research Laboratory, who occupy Building #4, which is 42,875 square feet and \$2.2 million. This is the largest privately owned commercial laboratory in the region. They have a full blown research and development facility with electron microscopes, chemistry laboratories, mechanical testing laboratories, finite element analysis, a design center, scientists and





Continued Millennium Centre Technology Park

engineers of all types and much more. Touchstone also built a manufacturing plant at the Millennium Centre. These are Research & Development facilities that adapt to their clients' needs – not built for narrow goals – but built to be innovative. In addition to its R&D services, Touchstone offers failure analysis and materials testing. The magazine *Advanced Materials & Processes* has called Touchstone, "One of the best equipped labs of its size in the country." Touchstone has various spin-out organizations on-site, such as Touchstone Advanced Composites, and Touchstone manufactures multiple products, such as CFOAM, MetPreg, ceramic matrix composites, and much more.



There were also multiple specialized design elements throughout the buildings. One building tenant had requested 20' - 35' roof clearances; another requested reinforced foundations to withstand 100,000 pounds compressive loads. There are multi-bay shipping docks, specialty HVAC (especially laboratory exhaust, ventilation, dust collection, etc.) systems, floors and pits requirements for autoclaves and kilns, and "Raw Material Handling" rooms among these unique specifications. There is also materials characterization equipment, microbiological laboratory, hundreds of pieces of analytical equipment, machine shops, foundry, rolling mills, a composite facility, and much more. We designed a medium-voltage service from the utility, with medium-voltage service and distribution equipment. We also designed medium-voltage underground feeders to two transformer/low-voltage substations.





CARENBAUER'S DISTRIBUTION WAREHOUSE

CARENBAUER WHOLESALE CORPORATION



CLIENT

Carenbauer Wholesale Corporation

LOCATION

Wheeling, WV

PROJECT DATA

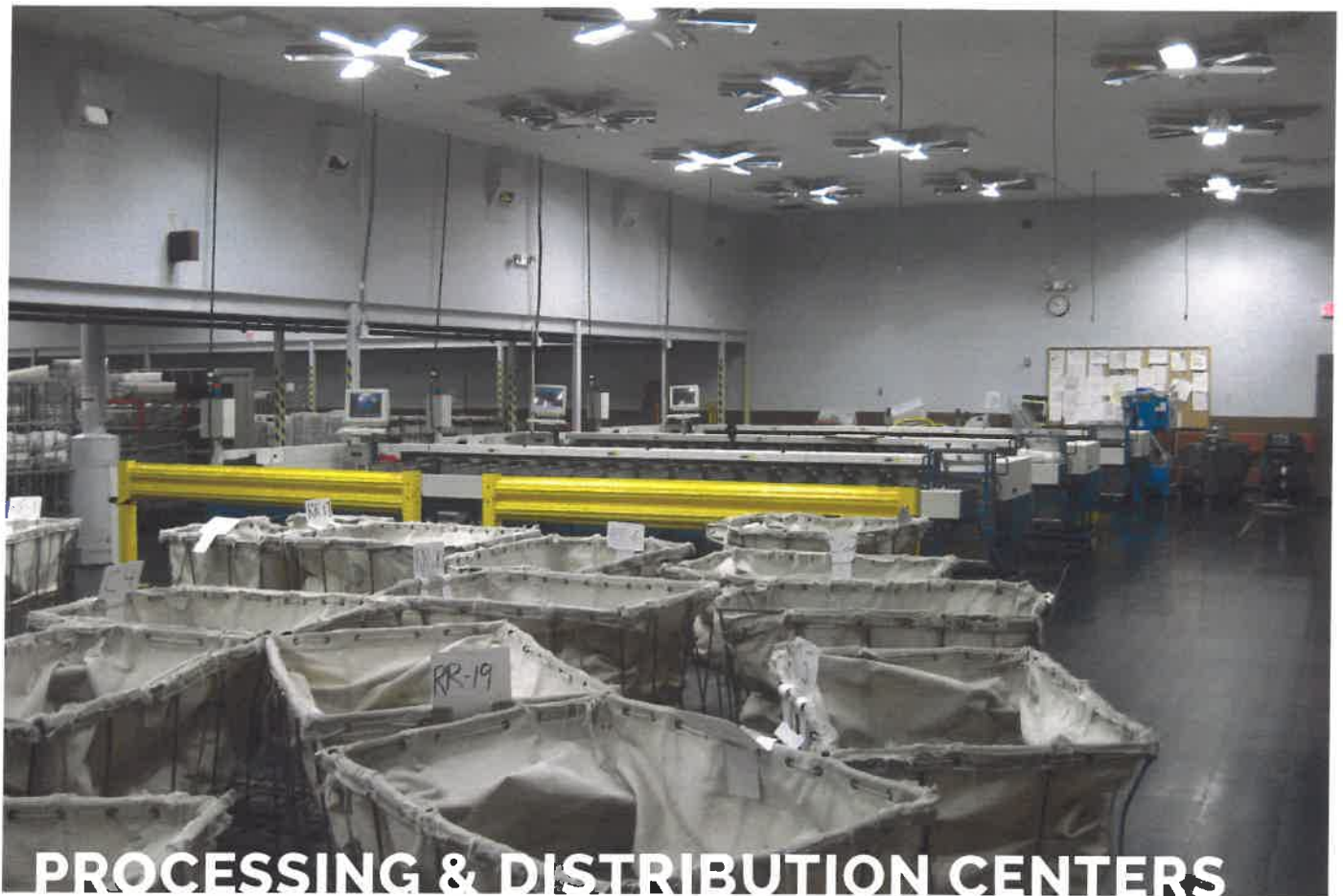
11,800 SF

We completed an 11,800 square foot warehouse expansion - as well as existing warehouse and office building renovations - of the Carenbauer Wholesale Corporation building. Carenbauer's presently carry over 100 brands of beer in 250 different types of packages, and they represent 15 different breweries across the US and world.

The building addition included a large open-span cold storage warehouse with a 26' clear height ceiling. This room needs to have temperature setpoints for every month of the year, ranging from 60 to 67 degrees.

The building addition holds a point-of-sales storage room and mezzanine, a staging area, and a loading dock with 3 bays. The docks included levelers, bumpers, trailer restraints, bollards, etc. There was new site access road to get to these loading docks. The addition is connected to the existing structure via motion-activated overhead metal rolling doors. The building's floor was designed to withstand continuous fork lift traffic.





PROCESSING & DISTRIBUTION CENTERS UNITED STATES POSTAL SERVICE



CLIENT

United States Postal Service

LOCATIONS

Appalachian Area (West Virginia & Virginia)
and Erie/Pittsburgh District in Pennsylvania

PROJECT DATA

Multiple Buildings, Sizes, & Costs

McKinley Architecture and Engineering has had 2 multiple year open-ended Indefinite Deliver / Indefinite Quantity (IDIQ) contract agreements with the United States Postal Service. One is for the Appalachian Area (State of West Virginia, and 49 counties and/or independent cities in Virginia). We have been working throughout West Virginia since the 1980s. The second is for the Erie/Pittsburgh District in Pennsylvania.

We have designed dozens of facilities for the USPS, including demolitions, new construction, additions / expansions, renovations, modernization, and rehabilitations in numerous cities within these areas. Most of the addition/renovation projects were completed while the buildings remained occupied.

This includes work at multiple Processing & Distribution Centers (P&DCs), as well as Carrier Annexes and Hubs, which are large span facilities, and range in size from tens of thousands of square feet to over 250,000 SF. They hold various machinery, floors to withstand forklift traffic, have high roof clearances, multiple loading docks and bays, specialty HVAC systems, etc. Many are prefabricated metal buildings, and the exterior walls are finished with masonry infill and metal siding. The interiors have areas that are broken into multiple rooms with concrete block walls, such as work rooms, offices, and more.

For the newest projects, they incorporate energy efficient design which follow the USPS Standards compliance to provide a more efficient systems. For example, the energy saving on a recent HVAC replacement project was achieved with the use of economizers to allow free cooling when ambient temperatures are below 60° F, and there was commissioning provided on the roof-top units (RTUs).





COLLEGE APARTMENTS HOUSING COMPLEX FAIRMONT STATE UNIVERSITY



CLIENT
Fairmont State University

LOCATION
Fairmont, WV

PROJECT DATA
\$30.0 M
3-Building Complex
105, 706 GSF

CONTRACTOR
Massaro Corporation





University Terrace is so popular with students that it is already 95% filled for the upcoming year.

- Alicia Lalka
Director of Housing & Residence

McKinley Architecture and Engineering led the team that designed the three-building, \$30M, 560-bed University Terrace College Apartments Housing Complex at Fairmont State University.

The project included the construction of a new housing complex on an existing parking lot, followed by the demolition of four wood-frame three-story apartment buildings beyond their lifespan. Along with new parking lots built on the site of the former apartment buildings. The demolition and construction were well-planned to minimize the impact to students.

The new complex has become a recruitment tool for the university, with students demanding state-of-the-art facilities.

The apartments provide a welcoming, comfortable, home-like environment conducive to student life. The building offers fully furnished living space to students; this living space will consist of both apartment and suite-style living.

There are 103 units in the three buildings, including 41 quads, 14 doubles, 35 semi-suites, and 13 singles; there are multiple ADA Compliant rooms. These all have their bedroom, living, kitchen, and bathroom spaces.

Multiple lobbies, lounges, multi-purpose areas, study halls, laundry rooms, staff spaces, offices, elevators, stairwells, and more exist. The support spaces include rooms for plumbing/fire protection, electrical, data/telecom, housekeeping, and maintenance storage.

The building placement creates a large courtyard that encourages student interaction, collaboration, and a sense of community. The quad includes landscaping and a small amphitheater.

For interior design and FF&E, specific colors and textures were selected, along with lighting that enhanced the space. Focus on incorporating a timeless neutral-toned color palette with fresh accents. All materials and finishes selected followed detailed sustainability criteria.

One design element that promoted efficiencies were the LED interior and exterior lighting, which had a similar cost of less green, fluorescent lighting but with more significant electrical savings.



OFFICE, WAREHOUSE, WORKSHOP, AND GARAGE BUILDING

PANHANDLE CLEANING & RESTORATION



CLIENT

Panhandle Cleaning & Restoration

LOCATION

Wheeling, WV

PROJECT DATA

32,000 SF

\$3.5 M

Panhandle invested in an office building renovation and a new prefabricated metal building expansion project for a warehouse, workshop, garage, and office building.

This renovation / expansion of the original business now allows Panhandle to employ about 100 workers.

A new 8,600 SF, 2-story office building is attached along the high side of the warehouse. This includes multiple offices, open work areas, large and small conference rooms, training room, reception and waiting area, kitchen/breakrooms, copy room, restrooms, storage, etc. The office building includes custom furnishings and finishes.

Panhandle required specialized components and considerations we had to design, such as flex spaces, furnishings and finishes, casework, workbenches, various countertop heights, flooring, roller conveyors, mobile rolling racks, rinse stations, as well as specialty plumbing, mechanical, electric, and data systems, to name a few.





PARK DRIVE / THREE SPRINGS DRIVE DEVELOPMENT AND STREETScape

CITY OF WEIRTON



CLIENT

City of Weirton

LOCATION

Weirton, WV

PROJECT DATA

48 Acres approx.

This development will include multiple tenants. This project will adhere to TIF & USDA Grant Funds regulations. There are 8 parcels, involving approximately 48 acres of land to be developed. There are 3 Tasks for this project:

TASK #1 - 8,000 feet of ADA accessible sidewalks, with 3 options on lighting (approx. 75 poles) adhering to City of Weirton's Unified Development Ordinance (Section 11.6) and the WVDOT Transportation Alternatives program.

TASK #2 - Site Preparation and infrastructure upgrades to access approximately 20 acres for immediate development and future development of an additional 29 acres along Park Drive. Scope to include site grading, permits, stormwater management, construction of a two lane road, sidewalks and street lighting, and additional segments of access roads and appurtenances.

TASK #3 - Developing a master plan for the 20 acres to include commercial, retail, residential, restaurant, hotel/conference center, and public spaces.





BUS MAINTENANCE FACILITY

TYLER COUNTY SCHOOLS



CLIENT
Tyler County Schools

LOCATION
Middlebourne, WV

PROJECT DATA
16,500 SF
\$3.5 M

McKinley has an on-going relationship with Tyler County Schools, and we have completed multiple projects for them since 2003, including various renovations, HVAC upgrades, School Access Safety project, and more.

For one project; we recently completed their new Bus Maintenance Facility. This 16,500 SF building includes a 1,375 SF storage mezzanine.

There are 7 bays in this facility, including a dry wash bay and a wet wash bay.

The maintenance spaces includes an area for parts/storage/dispensing, rooms for fluids, tire storage, tools, welding/machine, locker, additional storage, and utilities.

The administrative spaces includes the Transportation Director's office which includes dispatch, mechanics office, conference room, waiting area with reception, break room, and more.

The site includes a fuel dispensing tank / station, security fencing, bus parking lot, regular parking lot, and paved storage area.





WV LOTTERY HEADQUARTERS WEST VIRGINIA LOTTERY



CLIENT

West Virginia Lottery Commission

LOCATION

Charleston, WV

PROJECT DATA

4,000 SF roof

CONTRACTOR

Harris Brothers Roofing

McKinley Architecture and Engineering worked with the West Virginia Lottery Commission to provide a method of correction for the pooling of water on the roof of the WV Lottery HQ Building.

We first completed a roof assessment which included identifying the roof structural and decking issues, water pooling investigation, curbing detail for all mechanical equipment located on the roof, and rain-water collection system analysis.

We provided plans for a low maintenance EPDM roof that meets current code and addresses all issues discovered in our Roof Assessment Report.

The construction involved the replacement of the upper roof on the high rise building, above the 13th floor. This portion of the roof is separated into 4 sections, since the penthouse is in the middle. Project also included ladders, safety rail, and secondary roof drain scuppers.

There is a lot of equipment on the roof that had to be worked around, including cell towers. This included extra planning and coordination with cellphone tower providers.

Project was completed in October 2023.





TERRADON Corporation completed site planning and site civil engineering for the 83,900 Square Feet Armed Forces Readiness Reserve Center in Eleanor, WV.

The site is home to stationed units: 111th Engineer Brigade (WVARNG) (the largest brigade in the WVARNG), Troop B, 1st Squadron, 150th Cavalry Regiment (WVARNG), 3664th Ordnance Company (WVARNG), and Detachment 3, Company D, 230th Brigade Support Battalion (WVARNG).

The WVARNG negotiated with the US Army Corps of Engineers for the site (with the maintenance center) totaling 43 acres at the base of the Winfield Locks and Dam site in Eleanor, WV. The building is located adjacent to the new Maintenance Facility on the site, with the main entrance facing east toward the main access to the site. The orientation of the building takes advantage of views of the wetland area and the Kanawha River. The Armory houses units of the state Army National Guard and one unit of the Navy.

Project Owner

WVARNG



TERRADON Corporation provided full service site civil engineering services for the design and completion of the WVARNG Eleanor WV Maintenance Center.

The Eleanor Maintenance Complex, in Eleanor, WV, is a 132,000 square foot state-of-the-art repair and maintenance facility for the West Virginia Army National Guard (WVARNG). The specially designed Army "Combined Logistic Support Facility" will house the Combined Support Maintenance Shop (DSMS), an Organizational Maintenance Shop (OMS) and United States Property and Fiscal Office (USPFO) parts and storage warehouse.

The facility provides a full range of maintenance support for all WVARNG military vehicles throughout the state. It includes 28 maintenance work bays with overhead bridge cranes, an engine rebuild shop, a body shop with blast and paint booths, a carpentry shop, a machine shop, a canvas shop, a small arms repair shop and an electrical communications repair shop. The facility also has specialized testing capabilities in the form of an engine transmission dynamometer.

Project Owner

WVARNG

REFERENCES

We feel that the best way to demonstrate our strengths and leadership in Architectural/Engineering design is by referring to our clients. We also have an ever-growing list of repeat clients, which include having multiple open-end contracts with organizations; we are able to respond to their needs, and we are certain that we are able to respond to all of your needs as well. So that you don't only have to take our word for it; here is a list of references that we encourage you to call (we would be happy to provide more references, if requested):

State Fire Training Academy

Mr. Murrey Loflin
WVU Fire Extension Services
2600 Old Mill Road
Weston, WV 26452
(304) 269-0872

Panhandle Cleaning & Restoration Warehouse

Mr. Bob Contraguerro, Jr.
Panhandle Cleaning and Restoration
42 38th Street
Wheeling, WV 26003
(304) 232-2321

Cabela's Eastern Distribution Center

Mr. Rick Boccetti
Facilities Project Manager
Cabela's
1 Cabela's Drive
Sidney, Nebraska 69160
(860) 290-6251

Brooke County Judicial Center

Mr. A.J. Thomas
Brooke County Commission
201 Courthouse Square
Wellsburg, WV 26070
(304) 737-4024





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

State of West Virginia
Centralized Expression of Interest

Proc Folder: 1611706

Doc Description: National Guard Readiness Center Bluefield-Design EOI

Reason for Modification:

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2025-01-24	2025-02-05 13:30	CEOI 0603 ADJ2500000017	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code: *000000206862

Vendor Name : McKinley Architecture and Engineering

Address :

Street : 129 Summers Street - Suite 201

City : Charleston

State : West Virginia

Country : USA

Zip : 25301

Principal Contact : Ernest Dellatorre

Vendor Contact Phone: (304) 340-4267

Extension: 115

FOR INFORMATION CONTACT THE BUYER

David H Pauline
304-558-0067
david.h.pauline@wv.gov

Vendor
Signature X

FEIN# 55-0696478

DATE 5 February 2025

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.

(Printed Name and Title) Ernest Dellatorre, Director of Business Development

(Address) 129 Summers Street - Suite 201, Charleston, West Virginia 25301

(Phone Number) / (Fax Number) (304) 830-5359 | (304) 233-4613

(email address) edellatorre@mckinleydelivers.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

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

McKinley Architecture and Engineering

(Company)


(Signature of Authorized Representative)

Ernest Dellatorre, Director of Business Development 5 February 2025

(Printed Name and Title of Authorized Representative) (Date)

(304) 830-5359 | (304) 233-4613

(Phone Number) (Fax Number)

edellatorre@mckinleydelivers.com

(Email Address)



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

State of West Virginia
Centralized Expression of Interest

Proc Folder: 1611706

Doc Description: National Guard Readiness Center Bluefield-Design EOI

Reason for Modification:

Addendum No. 1

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2025-01-28	2025-02-10 13:30	CEOI 0603 ADJ2500000017	2

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code: *000000206862

Vendor Name : McKinley Architecture and Engineering

Address :

Street : 129 Summers Street - Suite 201

City : Charleston

State : West Virginia

Country : USA

Zip : 25301

Principal Contact : Ernest Dellatorre

Vendor Contact Phone: (304) 340-4267

Extension: 115

FOR INFORMATION CONTACT THE BUYER

David H Pauline
304-558-0067
david.h.pauline@wv.gov

Vendor
Signature X

FEIN# 55-0696478

DATE 5 February 2025

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

State of West Virginia
Centralized Expression of Interest

Proc Folder: 1611706

Doc Description: National Guard Readiness Center Bluefield-Design EOI

Reason for Modification:

Addendum No. 2

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2025-01-28	2025-02-10 13:30	CEOI 0603 ADJ2500000017	3

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code: *000000206862

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Street : 129 Summers Street - Suite 201

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State : West Virginia

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