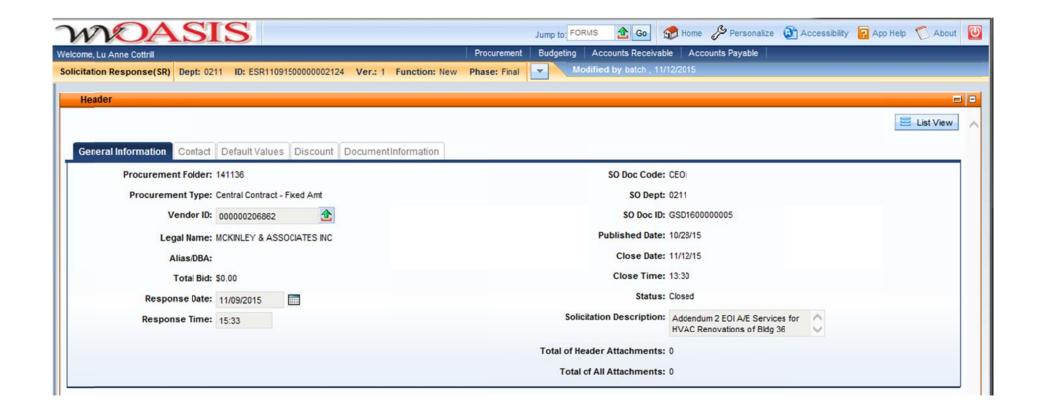


2019 Washington Street, East Charleston, WV 25305 Telephone: 304-558-2306 General Fax: 304-558-6026

Bid Fax: 304-558-3970

The following documentation is an electronicallysubmitted vendor response to an advertised solicitation from the West Virginia Purchasing Bulletin within the Vendor Self-Service portal at wvOASIS.gov. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at WVPurchasing.gov with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.





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

State of West Virginia Solicitation Response

Proc Folder: 141136

Solicitation Description: Addendum 2 EOI A/E Services for HVAC Renovations of Bldg 36

Proc Type: Central Contract - Fixed Amt

Date issued	Solicitation Closes	Solicitation No	Version
	2015-11-12 13:30:00	SR 0211 ESR11091500000002124	1

VENDOR

000000206862

MCKINLEY & ASSOCIATES INC

FOR INFORMATION CONTACT THE BUYER

Laura E Hooper (304) 558-0468 laura.e.hooper@wv.gov

Signature X FEIN # DATE

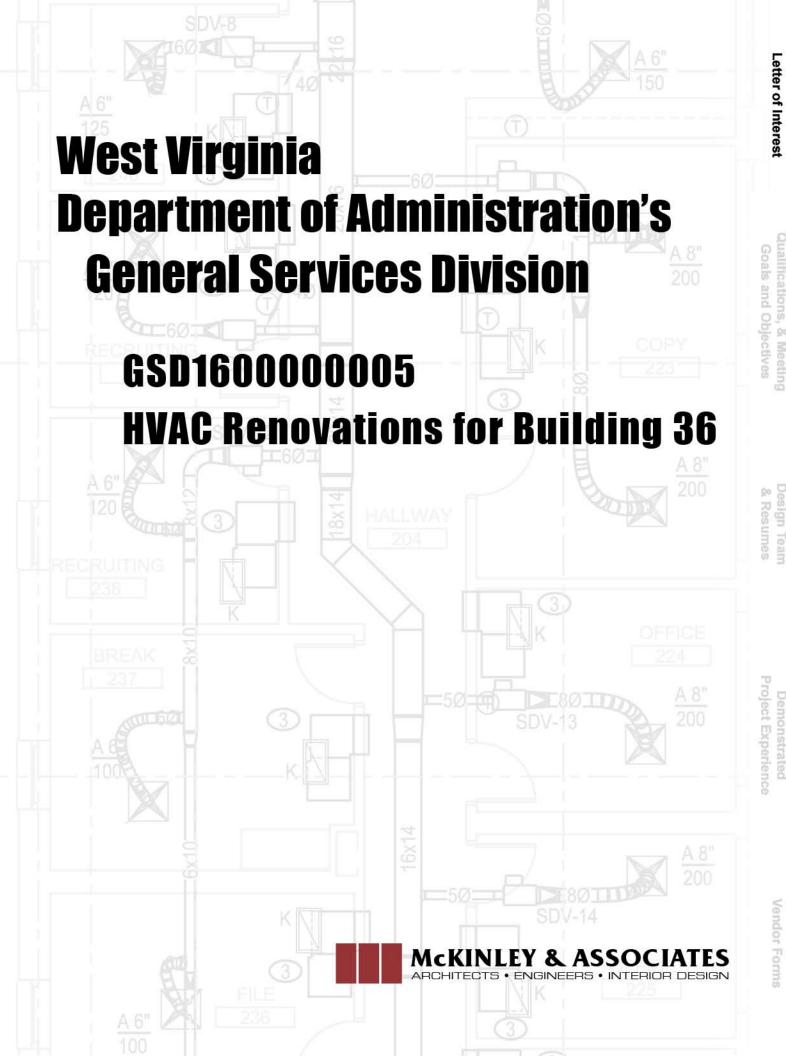
All offers subject to all terms and conditions contained in this solicitation

Page: 1 FORM ID: WV-PRC-SR-001

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	EOI A/E Services for HVAC Renovations of Building 36				\$0.00
	<u> </u>			·	<u> </u>
Comm Code	Manufacturor	Specification		Model #	

Comm Code	Manufacturer	Specification	Model #	
81100000				
Extended Descrip	otion: EOI A/E Services	for HVAC Renovations of Building	36	







November 9, 2015

Ms. Laura E. Hooper Bid Clerk Department of Administration, Purchasing Division 2019 Washington Street East Charleston, WV 25305-0130

Dear Ms. Hooper and Member of the Selection Committee;

We are pleased to provide the West Virginia Department of Administration, General Services Division with our expression of interest to provide professional architectural and engineering services to design the HVAC renovation of GSD Building 36. This modernization package will be compliant with ASHRAE, NFPA, NEC and all other State or Federal regulations as required. As you review this submission, we emphasize the following strengths of McKinley & Associates with respect to your project:

Your project will be led by **Tim E. Mizer, PE, RA, QCxP**. He is a very talented and unique professional being a **Professional Engineer**, a **Registered Architect**, as well as a **Qualified Commissioning Process Provider**. He has a complete understanding of projects from both the engineering and architectural disciplines, and as a commissioning process provider **he has been formally trained to fully understand how integrated HVAC systems function and how systems interface with others to run your building efficiently. He will assure that your project is completed to your specifications on time and within budget, will meet the needs of the DHHR and the GSD, and will also meet the current building codes.**

McKinley & Associates has been providing design services since 1981. With offices in **Charleston (less than 2 minutes from your facility!)** and Wheeling, WV and Washington, PA, we support a professional staff of **mechanical**, electrical, plumbing/fire protection Engineers (**MEP Engineers**); **Architects**; **Construction Administrators**; **Commissioning Process Provider**; Historic Preservationist; LEED Accredited Professionals with a Building Design and Construction specialty; Interior Designer; and more. We are members of many organizations, and follow their standards, such as NFPA, CEFPI, AWI, WVEDC, AIA, NCARB, ASCE, ASPE, BOCA, ASHRAE, and ACI International among others.

Our **mechanical/HVAC engineering staff** is known for innovative solutions, and has recently had special opportunities and experience related to various typical and atypical building types. We designed the first Chilled Beam HVAC System in the State of West Virginia, one of the first Variable Refrigerant Volume / Air-Cooled DX Multi-Zone System in the State, and more. We have a well-rounded range of experiences, we know the new technology, and we know how and when to apply it effectively.

With our previous experience on **hundreds of projects which involve HVAC renovations, upgrades, and repairs,** our vast experience with codes, and our great working relationship with various state agencies; we are confident that we have the talent and technology needed to make this successful. Also, as your Engineers / Architects and single point of responsibility, you can be reassured of smooth project delivery and sensitivity to all relevant guidelines in our state.

Thank you for reviewing our submission and considering McKinley & Associates for your proposed project. We are proud of our past experiences with the GSD and the DHHR, and look forward to continuing our relationship with you.

9 1

Ernest Dellatorre

President

McKinley & Associates



Qualifications, & Meeting Goals and Objectives

& Resumes

Project Experience

Vendor Forms



GSD1600000005 HVAC Renovations for Building 36



ACKINLEY & ASSOCIATES

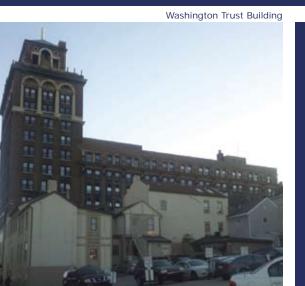
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Corporate Information

Firm History

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





McKinley & Associates' Washington, PA Office

Firm Information

Ernest Dellatorre President

Tim Mizer, PE, RA, QCxP **Director of Operations**

Gregg Dorfner, AIA, NCARB Director of Architecture

Date of Incorporation

July 1, 1981 Wheeling, West Virginia

Number of Professionals

Total Size	30
Architects	6
Engineers	3
Construction Admins.	3
Arch./Eng. Designers	1 0
Interior Designer	1
CEFP	1
REFP	1
LEED AP BD+C	2
Commissioning Provider	1
MIS	1

Locations

The Maxwell Centre

Thirty-Two - Twentieth Street Suite 100

Wheeling, West Virginia 26003

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



Charleston Enterprise Center

1116 Smith Street Suite 406 Charleston, West Virginia 25301

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

Washington Trust Building

6 S. Main Street **Suite 1028** Washington, Pennsylvania 15301

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

Credentials

McKinley & Associates is a member of the following **organizations**: CEFPI, AWI, WVEDC, AIA, NFPA, NCARB, ASCE, ASPE, BOCA, ASHRAE, ACI International



Project Approach

Over the years, McKinley & Associates has designed **hundreds of projects which involve HVAC assessments**, **renovations**, **replacements**, **upgrades**, **and/or repairs**. During this time our expertise has been called upon many



times upgrading outdated machinery, bringing the systems and load requirements up to compliance, and even evaluating and correcting errors in existing design (pipe sizing, piping material errors, control valving etc). With our vast HVAC renovation experience, understanding of codes, and our great working relationship with various state agencies; we are confident that we have the talent and technology needed to make this successful. We will meet your goals and objectives.

Also, as your MEP Engineers/Architects and single point of responsibility, you can be reassured of smooth project delivery and sensitivity to all relevant guidelines in our

state. In addition to A/E design, we also have the ability to complete Building Commissioning Services. McKinley & Associates has the manpower to dedicate additional Engineering Designers, Architects, Interior Designers, LEED Accredited Professionals, and Construction Administrators as needed to make this project a success.

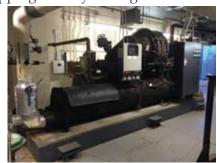
We currently support clients on a number of significant renovation / upgrade projects that illustrate this ability. McKinley & Associates has significant experience with renovation projects divided into multiple **Phases**. If we have to sequence/phase the new installations, say for example, **as to not disrupt the current DHHR occupants of the buildings**, **to allow concurrent occupation and use of the structure**, and/or for maintaining existing heating or cooling through the respective season; we have vast experience with phasing from our hundreds of renovation projects, and will coordinate your renovations as required.

Our philosophy regarding these types of work requires an intimate knowledge of the building so we can determine how to most effectively use the existing resources. Early activity includes carefully mapping out any damaged

areas and formulating a plan of action for repairs. This process targets the areas of greatest need and helps to control cost. It is with this experience that we are able to bring insight to the design of spaces that will retain long term value. We can and will perform for you on time and to your budget.

To start your project, a kickoff meeting / Building 36 facility walkthrough will be held with the General Services Division's and the Department of Health and Human Resources' representatives, along with all our design professionals. From this meeting the Owners Project Requirements will be defined and documented, to be used as a guideline through the design phase. After this, we will verify the existing, or establish a new load of the facility, through the review of the existing conditions, existing drawings if available, and with discussions with the Owner. We will then use all this information to design and specify new equipment and HVAC systems to better fit the standards of design today. Our Design Services will be completed and submitted within 90 days of the receipt of issuance of a Notice to Proceed. Will will provide you with all project drawings in sets of 3 paper and 1 in AutoCAD format to allow future changes to the drawings.

Additionally, years ago the United States Postal Service made commissioning a requirement on all HVAC projects; **therefore**, **your project manager**, **Tim Mizer**, **became a Qualified Commissioning Process Provider**. From this, we commission multiple HVAC project to ensure everything is working properly, and to teach the maintenance personnel how to use the machinery and gives them all the correct manuals. McKinley & Associates can work with the Contractors and Testing Adjusting & Balancing Company to verify proper system operation. The purpose of the verification is to verify all systems and equipment are operating as intended, and to the designed efficiency.







Management and Staffing Capabilities



The work to be performed by your design team is very clear; to evaluate, prioritize and design within budget and schedule to meet the needs of the GSD & DHHR. In the past 34 years we have extensive experience with similar projects. Our project team has been chosen for this project and they are available to dedicate the necessary time to this effort. We are available to start immediately upon our being selected. We can and will perform for you on time. This team is an "In-House" team that works together everyday and has done most of the projects here as a group. These team members have been working up to eighteen years together at McKinley & Associates. The technical depth of our professional staff indicates that this project

can be accomplished without overloading our group or computer graphics systems.

The most important element of the entire process becomes communication from you to our designers. We use and welcome your input throughout the project. We continually achieve success in projects by maintaining **time and cost management**, **quality control** and **excellent communication** amongst the client and contractors.

The areas of expertise for each member coincides with his/her Role in this Contract. With our large staff we have the ability to have **registered architects and engineers designing within their area of expertise**. HVAC design by a Mechanical Engineer, electrical design by an Electrical Engineer, etc. These professionals are not only "In-House," we also have **depth in numbers** of each discipline in our firm.

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 Owner to participate in these meetings.

Our **Quality Assurance Program** starts with a peer review where a registered professional not involved in the design becomes reviewer of the project before going to bid. Additionally, at our regularly scheduled project meetings the entire design team is constantly reviewing the process.

We are confident we can meet your program requirements. We have worked with owners in many different sectors of business and have been **able to comply with their various requirements and standards**, including Federal Agencies such as the USPS, DOD, FAA, HUD, EPA and NPS, and also **State Agencies** such as WVARNG, West Virginia University, Marshall University, WV School Building Authority, West Virginia State Police, DOE, and the Department of Culture & History amojng others. 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.

You appropriately recognize how **codes**, **and state** / **federal regulations** are important to a successful project. Our professional's design within these codes daily, as our practice is and remains a West Virginia practice and we are dedicated more than ever to the state in which we live. All documents will be prepared with the current WV State Building Code and WV State Fire Code as well as all State and Federal Codes, Regulations, and Ordinances. We are members of many organizations, and follow their standards, such as NFPA, CEFPI, AWI, WVEDC, AIA, NCARB, ASCE, ASPE, BOCA, ASHRAE, and ACI International.



Our **Eleven 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. We have been doing this for **16 years** which has now been adopted as an AIA 101 Standard. We also conduct Post Occupancy Evaluations with the Owner to find out how well we matched the Owners' needs.



HVAC Replacement Projects

The following examples are chosen to **exhibit** a partial assortment of **HVAC system replacement** projects:

AEP Building

Wheeling, WV

Barnesville Elementary School Barnesville High School

Barnesville Exempted Village Schools, OH

Braxton County High School
Braxton County Middle School
Braxton County Middle School Gym
Burnsville Elementary School
Davis Elementary School
Sutton Elementary School
Braxton County Schools, WV

Bridge Street Middle School Ritchie Elementary School Warwood Middle School Ohio County Schools, WV

City County Building Wheeling, WV

Hillview Terrace Church of Christ Moundsville, WV

John Marshall High School Sherrard Junior High School Washington Lands Elementary School Marshall County Schools, WV

Kanawha Elementary School Wood County Schools, WV

Long Drain School Wetzel County Schools, WV

Maxwell Centre Wheeling, WV

Maysville Elementary School Grant County Schools, WV

Oak Glen High School
Hancock County Schools, WV

Ohio County Correctional Complex Wheeling, WV

Ohio Valley Distribution Center Clarksburg, WV

Orchard Park Day Care Center Wheeling, WV

Orrick Building Wheeling, WV

Southern WV Comm & Tech College Williamson Campus Southern WV Comm & Tech College Wyoming/McDowell Campus

St. Mark's Lutheran Church Wheeling, WV

St. Mary's Elementary School New Martinsville Pleasants County Schools, WV

United States Postal Service *multiple locations in WV & PA*

Wagner Building Wheeling, WV

West Virginia Independence Hall Wheeling, WV

West Virginia State Police multiple locations in WV

Wheeling Island Race Track & Gaming Center Wheeling, WV

Wheeling Park Commission:
Oglebay Glassworks Restaurant
Wheeling Park Stone Room
Wheeling Park White Palace
Wheeling Park Wilson Lodge
Wheeling, WV

WVU Tech - Conley Hall WVU Tech - Maclin Hall WVU Tech - Technical Center Montgomery, WV



Construction Administration & On-Site Representation

Observe the Construction Progress

Liaison between the Owner, Contractor, and Architect

Responsible for All Construction Progress Meetings and Minutes

Monitor the Construction Schedule

Ensure that the Contractor is Following the Construction Documents

Verify Pay Application and Change Orders

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



Our 4 Construction Administrators / Project Coordinators have an extra responsibility than what most firms' Construction Administrators have; our Project Coordinators 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 Project Coordinators have an important role as being the liaison between the Owner, Contractor, and Architect. The primary objective of the Project Coordination services is to ensure completion of work the way the client wants it - as scheduled and as budgeted. Our Project Coordinators 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 Project Coordinator is typically on-site once every two weeks, but we can provide additional on-site representation if requested.

Sustainable "Green" Design

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

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

Our Philosophy is to provide our clients with experienced leadership as well as state-of-the-art and innovative design expertise to accomplish the goals of your projects. Function, economics and versatility, in addition to the development of strong aesthetic



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



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

appeal, are crucial elements in our design process. We also believe that enhancement of the physical environment in which each individual lives and works should add significantly to the enjoyment of life. Our firm has dedicated our professional skills to attain these goals. For a few recent sustainable awards, we were honored to have won 5 Placemakers Awards from West Virginia GreenWorks, at 2013 The Building Conference in Morgantown. In addition, Cameron Middle School/High School won the 2014 Black Bear Award for the Highest Achievement for the West Virginia Sustainable Schools program, and was just selected on April 22nd as a 2014 U.S. Department of Education Green Ribbon School!

Moreover, Hilltop Elementary School is one of our many projects that we designed using **energy efficient** and **sustainable design** approaches. It was not until <u>after</u> construction had commenced that the Owner decided to submit for LEED Certification. This required a great deal of coordination with



the architects, engineers, subcontractors and suppliers. Since we incorporated good sustainable design practices from the beginning, this allowed for an easy transition, and for the project to be successfully completed in July 2009. This is the first LEED Certified school in the state of West Virginia. Hilltop won a 2010 Gold Medal Green Building Award by Building of America. Hilltop also won the 2012 West Virginia Department of Environmental Protection's Clean Energy Environmental Award. Hilltop received the 2012 Black Bear Award for the Highest Achievement for the West Virginia Department of Education's

U.S. DEPARTMENT OF EDUCATION



Green Ribbon Schools program. In addition, in April 2012, Hilltop was one of 78 schools (which span 29 states and D.C.) to be awarded the <u>first-ever</u> U.S. Department of Education Green Ribbon Schools! Moreover, Hilltop won a 2013 Placemaker Award for Leadership of/for Place from the West Virginia GreenWorks.

Leadership in Energy and Environmental Design



LEED® (Leadership in Energy and Environmental Design) Green Building Rating SystemTM developed by the U.S. Green Building Council (USGBC) is the nationally accepted standard for the design, construction, and operation of high performance green buildings (www.usgbc.org). In January 2001, our firm was the first organization in West Virginia to join the USGBC. No other WV firm joined until nearly 2 years later! We have LEED Accredited Professionals on staff, along

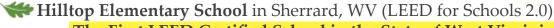
with our skilled architectural/engineering team, who will efficiently and cost effectively achieve certification under this standard or we can guide you through the

process in order to develop sustainability goals specific to your project.

We have LEED® Accredited Professionals on staff:

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

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



- The First LEED Certified School in the State of West Virginia!

**Building 55: West Virginia State Office Complex in Logan, WV (LEED NC 2.2)

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

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

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



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



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

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



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

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

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





Design Team & Resumes



GSD1600000005 **HVAC** Renovations for Building 36



Design Team Flow Chart



Project Manager / Point of Contact

Tim E. Mizer, PE, RA, QCxP

Engineering Team

Tim E. Mizer, PE, RA, QCxP

Director of Operations / Architectural Engineer / Architect / Commissioning Provider

Darren S. Duskey, PE

Electrical Engineer

Michael A. Heath

HVAC / Mechanical & Fire Protection Engineering Designer

Scott D. Kain

Plumbing & Electrical Engineering Designer

Michael J. Clark

Electrical Engineering Designer

Architecture

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

Construction Administration

Robert E. Smith

^{*} McKinley & Associates is willing to dedicate more professionals if they are needed; including Architects and Designers, LEED Accredited Professionals (Energy Efficient "Green" Design), and more.



Tim E. Mizer, PE, RA, QCxP

Architectural Engineer / Architect / Commissioning

Director of Operations

EDUCATION:

Kansas State University B.S. Architectural Engineering - 1983

University of Cincinnati Architecture

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

Registered Engineering in: West Virginia Ohio

Registered Architect in:

Qualified Commissioning Process Provider

PROFESSIONAL EMPLOYMENT:

McKinley & Associates Architect / Engineer Wheeling, WV (1995 to present)

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

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

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

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

SUMMARY OF EXPERIENCE:

Mr. Mizer is a very talented and unique professional being both a Registered Architect and Professional Engineer. In addition, he is also a Qualified Commissioning Provider. He joined McKinley & Associates in 1995, and has over 30 years of experience. Mizer's background as an Architect and Engineer has provided him with a total understanding of the engineering components and the process necessary for integrating architectural design and building systems. As the Director of Operations, Mr. Mizer's presence is a key to the design procedures required to coordinate the functionality of the engineering systems into the aesthetics of a building space.

NOTABLE PROFESSIONAL EXPERIENCES:

WV Department of Health & Human Resources' Ohio County Office Building renovation (adaptive reuse of former car dealership)

Building 55 - West Virginia State Office Complex in Logan (LEED Certified)

Building 34 - West Virginia State Office Complex in Weirton

WVARNG Mountaineer ChalleNGe Academy

WVARNG Multi-Purpose Building at Camp Dawson

West Virginia State Police - dozens of renovations and additions, as well as multiple new detachments. Multiple HVAC modernization projects. Also surveyed, reviewed, projected, budgeted, and documented 72 police facilities State-Wide

United States Postal Service - worked on dozens of Post Offices renovations in multiple states including West Virginia and Pennsylvania. This involved dozens of HVAC projects

Raleigh County Emergency Services Authority HVAC renovations

Wheeling Island Fire Department renovation

Wheeling Island Hotel•Casino•Racetrack - multiple renovations

Ohio County Justice Center renovations

Panhandle Cleaning & Restoration warehouse and office building renovation and addition

Nicholas Co. Division of Homeland Security & Emergency Management

Big Sandy Arena & Conference Center renovations

Orrick's Global Operations Center renovations

Renovations (including HVAC) to dozens of PK-12 Schools, along with higher education clients, across West Virginia



Darren S. Duskey, PE Electrical Engineer

EDUCATION:

The Ohio State University B.S. Electrical Engineer - 1993

Marshall University
Graduate courses in Engineering

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

Registered Professional Engineer in: Ohio Pennsylvania West Virginia

PROFESSIONAL EMPLOYMENT:

McKinley & Associates Wheeling, WV (2002 to present)

Pickering Associates Parkersburg, WV (1997-2002)

Magnetic Specialty, Inc. Marietta, OH (1995-1997)

Inland Products, Inc. Columbus, OH (1993-1995)

SUMMARY OF EXPERIENCE:

Mr. Duskey has over 20 years of experience in the governmental, industrial, commercial, educational, historic preservation, and institutional markets with projects ranging from electrical design of State office complexes, State Police detachments, higher educational projects, PK-12 schools, health care facilities, large and small industrial projects, and commercial properties. He has extensive knowledge and experience with the National Electrical Code, state building codes, building industry standards and practices, and has demonstrated the ability to design qualitative and economic solutions to a myriad of challenges.

NOTABLE PROFESSIONAL EXPERIENCES:

Electrical Engineer

WV Department of Health & Human Resources' Ohio County Office Building renovation (adaptive reuse of former car dealership)

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

Building 34: West Virginia State Office Complex in Weirton

West Virginia Army National Guard - Mountaineer Challenge Academy at Camp Dawson in Kingwood, WV

West Virginia Army National Guard - Multi-Purpose Building at Camp Dawson in Kingwood, WV

United States Postal Service - multiple post office renovations in West Virginia and Pennsylvania

West Virginia State Police - multiple buildings state-wide, including new buildings, additions, and renovations

Raleigh County Emergency Services Authority renovations

Wheeling Island Fire Station renovations

Follansbee City Building renovations

Jefferson County Courthouse Electrical renovations

Panhandle Cleaning & Restoration warehouse and office renovations

Orrick's Global Operations Center renovations

Hancock County Schools Bond Project (\$56 million)

Cabela's Eastern Distribution Center [New large (~1,200,000 SF) distribution center services, electrical design]

WVU Institute of Technology - Maclin Hall Dormitory (Upgrade electrical service, renovations)

West Virginia University - Colson Hall (Upgrade electrical service, including medium voltage distribution, renovations)

Marshall County Schools - Hilltop Elementary (LEED Certified)

Marshall County Schools - Cameron Middle/High School (LEED Registered project)



Michael A. Heath

HVAC & Fire Protection Engineering Designer

EDUCATION:

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

PROFESSIONAL EMPLOYMENT:

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

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

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

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

SUMMARY OF EXPERIENCE:

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

NOTABLE PROFESSIONAL EXPERIENCES:

West Virginia Health & Human Resources Wheeling Office

Building 55 - West Virginia State Office Complex in Logan (LEED Certified)

West Virginia Army National Guard - Multipurpose Building at Camp Dawson

Wheeling Island Hotel • Casino • Racetrack - various renovations

Bennett Square Office Building renovations

Holiday Inn Express Hotel & Suites - multiple projects

Panhandle Cleaning & Restoration warehouse & office building

Cabela's Eastern Distribution Center

Silver Company - Moss Neck Storage Building

Carenbauer Wholesale Corporation office renovations & warehouse addition

PWP Industries

Capitol Theatre renovations

West Virginia Independence Hall renovations

Boone County Schools - multiple projects

Marshall County Schools - multiple projects

Ohio County Schools - multiple projects

Hancock County Schools - multiple projects

Ritchie County Middle/High School

Tyler County Schools - 3 HVAC projects

Wetzel County Schools - Long Drain Elementary

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

Scott D. Kain

Plumbing & Electrical Engineering Designer

EDUCATION:

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

PROFESSIONAL EMPLOYMENT:

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

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

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

SUMMARY OF EXPERIENCE:

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

NOTABLE PROFESSIONAL EXPERIENCES:

Building 55 - West Virginia State Office Complex in Logan (LEED Certified)

Building 34 - West Virginia State Office Complex in Weirton

West Virginia Department of Health & Human Resources' Ohio County (Wheeling) office building renovations

Maxwell Centre (office building) renovations

Orrick Building (office building) renovations

Wagner Building (office building) renovations

Bennett Square Office Building renovations

Catholic Heritage Center (office building) renovations

United States Postal Service - multiple renovation projects

West Virginia State Police - multiple renovation projects

Wheeling Island Hotel • Casino • Racetrack - multiple renovation projects

West Virginia Army National Guard - Mountaineer Challenge Academy at Camp Dawson in Kingwood, WV

West Virginia Army National Guard - Multi-Purpose Building at Camp Dawson in Kingwood, WV

Wheeling Island Fire Station renovations

WVU Institute of Technology - Maclin Hall Dormitory renovations

Millennium Centre Technology Park - multiple projects

Panhandle Cleaning & Restoration warehouse and office building

Cameron Middle School/High School (LEED Registered)

Hilltop Elementary School (LEED Certified)

West Virginia University - multiple renovation projects

WV Independence Hall renovations

Sisters of St. Joseph's Convent renovations

Holiday Inn Express & Suites - multiple projects

Hancock County School Bond Project (\$56+ million)

Marshall County School Bond Project (\$38+ million)

Wood County School Bond Project (\$63+ million)

Michael J. Clark Sr.

Electrical Engineering Designer

EDUCATION:

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

Jefferson Community College A-ATS Electrical Trade Technology - 2003

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

Certified in SMAW Weld Process & Basic Welding and Applications 2002

West Virginia Journeyman License

Ohio Fire Alarm License

OSHA 30 Certified

PROFESSIONAL EMPLOYMENT:

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

Arcelor Mittal Maintenance Technician Electrician Weirton, WV (2012)

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

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

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

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

SUMMARY OF EXPERIENCE:

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

NOTABLE PROFESSIONAL EXPERIENCES:

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

Bennett Square office build-out

Follansbee City Building renovations

Wellsburg City Building renovations

Jefferson County Courthouse renovations

Big Sandy Arena & Convention Center renovations

Silver Company - Moss Neck Storage Building

Carenbauer Wholesale Corporation warehouse addition/renovations

Holiday Inn Express Hotel & Suites / multiple locations

Candlewood Suites Hotel Morgantown

Grave Creek Mound Museum renovations

Union Bank renovations

City of Steubenville - Parks Lighting

West Liberty University - Football Field Lighting

Brooke County Schools - Adult Learning Center (ALC)

Grant County Schools - Maysville renovations

Hampshire County Schools - Animal Vet Science Center

Hancock County Schools - Weirton Elementary

Hancock County Schools - Oak Glen High renovations

Hancock County Schools - Weir High renovations

Marshall County Schools - Cameron High

The Linsly School's 200th Anniversary Campaign renovations

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

Architect / LEED Accredited Professional



EDUCATION:

Virginia Polytechnic Institute & State University Master of Architecture - 1992

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

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

Registered Architect in:

West Virginia Ohio Pennsylvania Tennessee Virginia

National Board Certification:

NCARB



West Virginia Society of Architects

Member:

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

Former voting member:

ASHRAE 90.1 International Energy Code Committee

PROFESSIONAL EMPLOYMENT:

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

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

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

TAG Architects Charleston, WV (1985-1990)

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

SUMMARY OF EXPERIENCE:

Thomas R. Worlledge is a skilled Architect with over 30 years experience who has received state wide design awards and placed in national design competitions. As a LEED Accredited Professional and a recognized sustainable design expert, he has had articles published in state and national trade publications, has 2 LEED Certified Projects, multiple LEED Registered projects, spoken on sustainable design issues, and was also a featured speaker at the 2001 Governor's Conference on the Environment, 2001 Sustainable Fair, 2013 Create WV Conference, and more. He also teaches other design professionals in the art of High Performance School design, as a professional trainer for the Sustainable Building Industries Council. Mr. Worlledge is a former voting member of the ASHRAE 90.1 Standards committee that forms the basis of the International Energy Code and was the president of the state chapter of the AIA. 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 the state of West Virginia! He believe energy efficient design is simply good design practice. In fact, he wrote portions of the 2007 International Energy Code which is used by other architects as a guide for energy efficient design. He is also a Founder & Chairman of the Board for the US Green Building Council's West Virginia Chapter. Thom won a 2013 Placemaker Award for "Leadership, Inspiration, Stewardship" from West Virginia GreenWorks, at The Building Conference in Morgantown. He has projects that not only won State Awards, but National Awards as well!

NOTABLE PROFESSIONAL ACHIEVEMENTS:

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

WV Department of Health & Human Resources' Ohio County office

United States Postal Service - multiple projects across WV

Charleston Enterprise Center office renovation (2009 WV AIA Design Award winner / energy efficient "green" design)

West Virginia University - University Police Building renovations

WVSU's Gus R. Douglass Economic Development Center / DigiSo

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

West Virginia Plaster and Cement Masons Training Building

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

Natural Energy Design (NēD) Building (energy efficient "green" / 2013 Placemaker Award)

Bellann in Oakhill, WV (LEED Registered)

West Virginia State Police - New Logan Detachment

West Virginia State Police Academy - Renovations to Buildings A, B, and C; New Buildings D, Shooting Range, and Multi-Purpose Building

Marshall County Schools - Hilltop Elementary School (**LEED Certified - won multiple WV and National Awards & Recognitions**)

Big Sandy Arena & Convention Center

Robert E. Smith

Construction Administrator (Project Coordinator)

EDUCATION:

University of Pittsburgh M.S. Industrial Engineering - 1989

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

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

Board Member:

Indian Creek School District (elected in 2009)

Instructor:

Mechanical Engineering, Eastern Gateway Community College

President:

Mingo Business Association (2007 to present)

Commander:

American Legion Post 351 (2008 to present)

PROFESSIONAL EMPLOYMENT:

McKinley & Associates

Construction Administrator / Project Coordinator

Wheeling, WV (2009 to present)

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

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

MILITARY SERVICE:

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

Randolph Air Force Base - San Antonio, TX

Chief, Test Construction Section
Occupational Measurement Center (1987-1988)

Quality Control Psychologist

Occupational Measurement Center (1985-1987) Supervisor of Test Construction Team

Occupational Measurement Center (1983-1985)

SUMMARY OF EXPERIENCE:

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

NOTABLE PROFESSIONAL EXPERIENCES:

Construction Administration / Project Coordination for:

USPS Parkersburg Carrier Annex & Hub renovations

Follansbee City Building renovations

Jefferson County Commission - Ohio Valley Towers office building renovations

Jefferson County Jobs & Family Services office renovations

Steel Valley Regional Transit Authority renovations

Lincoln National Bank Building renovations

Cabela's Eastern Distribution Center

City of Steubenville Parks Lighting & Security Project

Cameron American Legion Exterior renovations

Brooke Co. Schools - Follansbee Middle renovations

Grant Co. Schools - Maysville HVAC/Windows

Grant Co. Schools - Union Educational Complex renovations

Hancock Co. Schools - A.T. Allison Elementary renovations

Hancock Co. Schools - John D. Rockefeller Career Center renovations

Hancock Co. Schools - New Manchester Elementary renovations

Hancock Co. Schools - Oak Glen High HVAC and renovations

Hancock Co. Schools - Oak Glen High Field of Dreams

Hancock Co. Schools - Oak Glen High Multi-Sports Complex

Hancock Co. Schools - Oak Glen High Wrestling Room

Hancock Co. Schools - Weir High Multi-Sports Complex

Hancock Co. Schools - Weir MS/HS renovations

Hancock Co. Schools - NEW Weirton Elementary

Marshall Co. Schools - NEW Cameron Middle / High School (LEED Registered)

Marshall Co. Schools - NEW Hilltop Elementary School (LEED Certified)

Tyler Co. Schools - 3 HVAC projects

Tyler Co. Schools - Bus Maintenance Garage renovations

The Linsly School - Banes Hall renovations

The Linsly School - Behrens Gym renovations



Project Experience Demonstrated



GSD1600000005 **HVAC** Renovations for Building 36



WV Department of Health & Human Resources' new Ohio County office renovation / fit-out

Project Location

Wheeling, West Virginia

Project Description

We were asked by our client to adaptively reuse a car showroom and service area into an office building (now called the Mary Margaret Laipple Professional Building). The first fit-out includes space for the Department of Health and Human Resources (DHHR). The 56,783 SF building was concrete and designed for cars; not people. The first challenge of the renovation was to remove a large ramp that connected two floors of the building and level the concrete floors. We worked with our client to fit the DHHR's program into the space and maximize the use of the space. We had to work around the existing structural walls and columns and provide fire escapes at the different floor levels of the floor structure.

The initial \$2 million fit-out project was built in three phases: the exterior was completed first (including new security doors, windows, skin, etc.), next the interior design and renovations including major HVAC / mechanical and electrical systems to provide a state of the art facility for the DHHR's use, and then the parking lot and emergency exit fire stair tower so the project could be fast tracked to meet the Owner's 2013 move-in requirements. We worked with the local and state code officials to



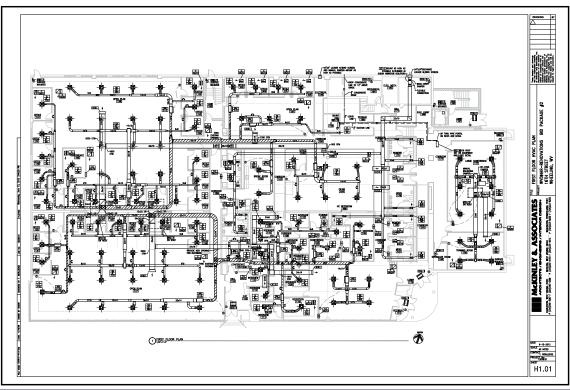
bring the building into compliance with the current building and fire codes and provide access to all of the occupied areas of the building. The fit-out was divided into three distinct spaces: secure office space, Client space, and training areas. There are dozens of individual offices, open office work areas, a large video conference room, smaller conference rooms, training rooms, interview rooms, and much more. The Office space is secured from the client area by an access control system. The training space was designed to be stand alone for use by other State staff training. We provided a separate entrance for future tenants of the upper two floors and to keep the future renovation cost to a minimum. There are multiple entryways and doors, both interior and exterior, with different levels of security access. The showroom windows were mostly in-filled because of the sensitive nature of the materials in the DHHR's office, but windows high on the wall provide natural daylighting.

Name of Project Owner

Mr. David J. Hildreth WV Department of Administration 1409 Greenbrier Street Charleston, WV 25311 304/558-1295

Date of project completion 2013





Building 55: West Virginia State Office Complex

Project Location

Logan, West Virginia

Project Description

This new five story building underscores its major role in the development and revitalization of downtown Logan by uniting office space for various state agencies under one roof, whom were once scattered throughout the city. The agencies include the **Department of Health and Human Resources**, WorkForce West Virginia, Division of Rehabilitation Services, the Offices of the Insurance Commissioner, State Tax Department and Workforce Investment Board; a total of 127 state employees are now working at this location. The 53,200 SF building is 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** and meet sustainable design goals, confirmed by LEED and energy star requirements. This building is **LEED Certified**. To help achieve this, the HVAC System included the installation of 2 high efficiency condensing boilers, pumps with variable speed drive control, custom air handling units with chilled and hot water coils, variable air volume boxes with hot water heating coils, water cooled chiller with cooling tower, packaged rooftop energy recovery ventilator, and direct digital controls. In addition, a tight building envelope

was created with closed cell foam insulation and thermal efficient windows. One of the unique features of the building is the daylight system. The design 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. The streetscape design will act as a template for all future sidewalk development; major brick patterns intersect at a paver quilt star, a symbol of West Virginia heritage that is carried into the foyer of the building. The stained glass window in the entry was custom designed to reflect the culture and history of the area; this won a 2013 AIA Craftsmanship Award. By incorporating history, technology, security and structure; this building has successfully created the desired catalyst for the future of Logan.

Name of Project Owner

Mr. Robert P. Krause, PE, AIA State of West Virginia General Services Division 1900 Kanawha Boulevard East Charleston, WV 25305 304/558-9018

Date of project completion

Dedicated on August 16, 2013













Building 34: West Virginia State Office Complex

Project Location

Weirton, West Virginia

Project Description

To better serve the citizens of the Northern Panhandle of the State, the State of West Virginia established an office building in the City of Weirton. This Weirton State Office Complex (also known as Building 34) is a \$4 million state-of-the-art building that accommodates the Department of Health and Human Resources, the Bureau of Employment Programs, the Division of Motor Vehicles, the Lottery Commission, Rehabilitation Services and the Work Force Investment Board. This two-story, 39,500 SF office building was constructed with a rooftop HVAC System, structural steel frame and concrete foundations, cast concrete floors, precast concrete panel system, EPDM roof, and building automation system among others. The DHHR spaces on the second floor includes waiting room, reception, 14 offices, "open" office east and west, work rooms, classroom/conference, regular conference room, resource room, interview room, family visitation room, multiple swipe-card access doors, server rooms, and more.

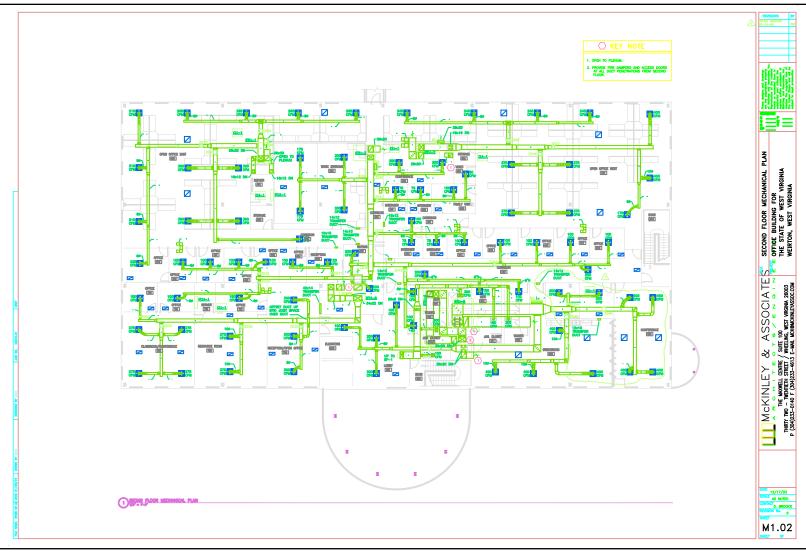
Name of Project Owner

Mr. David Oliverio State of West Virginia, General Services Division 1900 Kanawha Boulevard East Charleston, WV 25305 304/558-2317

Date of project completion

2006





Orrick's Global Operations Center

Project Location

Wheeling, West Virginia

Project Description

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

Extensive restoration of the exterior was needed first. The entire exterior shell was designed and constructed in 6 months to attract a new tenant (it quickly became the home to the international law firm Orrick. This building soon became the company's Global Operations Center; no other firm has a 24/7 facility that rivals it. It provides the firm and its clients with a central business infrastructure that delivers comprehensive and reliable support services around the world, and around the clock). The exterior renovations included reconstructing 120 dilapidated steel windows and glazing, extensive brick repointing, and construction of a new public entrance and parking lot were just the beginning. The entire brick envelope was sealed and painted with a red brick paint following the repointing. Insulating and replacing of the roof of the entire facility was also required. Galvanized metal wall panels and downspouts now enhance the industrial style of the building. That siding is now juxtaposed by a new four story all glass entrance, which allows a glimpse of the atrium balconies and walkways inside.

The building was partially occupied while renovations continued. Architecture & engineering design was completed in-house and included a completely new mechanical/HVAC system, structural, civil, electrical and fire suppression systems. On the interior, the original facility was almost void of the vertical circulation needed a modern day, team oriented work environment. An exposed steel atrium/elevator/stair core connects the four 22,000 square foot floors while introducing the industrial metals into the interior. Perforated columns, beams, and wire meshes allow daylight to filter in through usually solid steel construction. Two exposed, glass backed passenger elevators with stainless steel interior finishes now traverse the four floors allowing passengers a dynamic view through the atrium and walkways out to Main Street. The stainless steel and galvanized finishes of the exposed



spiral ductwork, electrical conduits and cable trays, sprinkler piping, and perforated metal light fixtures further enhance the industrial concept of the design. The interior structure itself required reinforcing of the exposed wood columns and joists in a historically correct manner. Solid wood knee braces add character to the existing wood columns while providing the necessary bracing. Security for the facility was to be comparable to the rest of the firm's nation-wide facilities; however, one of the challenges we had to overcome was creating a design which did not appear to be fortress-like. One unique feature, the atrium/lobby, included a four-story open-air design, a skylight, a glass wall for the entryway, 2 new elevators, a stair tower, and multiple bridges/walkways. We provided a new parking with around 85 spaces, which included ADA handicapped accessible spaces. A few years later, when the company increased the amount of their employees, we added a second parking lot with around 112 spaces, which included more ADA handicapped accessible spaces.

Name of Project Owner

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

Date of project completion

Multiple phases/years - most recent was 2008





Raleigh County Emergency Services Authority's 911 & Emergency Operations Center HVAC

Project Location

Beaver, West Virginia

Project Description

McKinley & Associates was commissioned to investigate and provide Construction Documents to repair the ill-functioning HVAC system in the Raleigh County Emergency Services Authority's office building (911 Center and Emergency Operations Center) in Beaver, WV. In addition to HVAC renovations, the \$250,000 project also includes associated electric work, miscellaneous interior renovations and insulation work. Construction is underway, and the contractor is Pennington Plumbing & Heating.

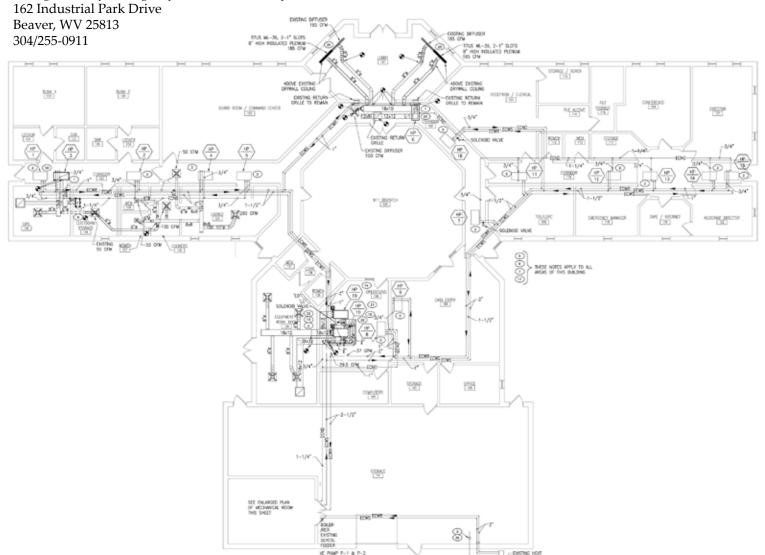
Upon investigation of this 13,000 SF facility, it was determined that many of the heat pumps were undersized within the 911 Center's most critical areas (such as the Dispatch Room). More importantly, it also was determined that the building was not constructed architecturally as designed and this deficiency greatly influenced the total building's HVAC system's performance. Since the facility is a 911 Center, it must remain in operation 24/7; therefore, the pumps will be replaced one at a time so that the building can remain in operation, while the building is being occupied.

Name of Project Owner

Ms. Margaret Agee

Director

Raleigh County Emergency Services Authority



USPS Charleston Processing & Distribution Center HVAC Renovation

Project Location

Charleston, West Virginia

Project Description

Like many USPS projects, this P&DC project originally started out as a report (investigation study, feasibility study, etc.), we gave them various recommended options to choose from, and it turned into a project.

The main goal of this \$375,000 HVAC renovation project involved the removal of all the Thermofusers and the ceiling fan coil units, and the installation of 8 Fan Powered VAV Boxes and 3 Single Duct VAV Boxes with Hot Water Reheat Coils. The existing DDC Control System was extended to control these new items.

In addition, the 3 Existing Rooftop Heat Pumps Units were in need of repair, as two compressors had failed; therefore, they were replaced with Rooftop Units with electric heat. These new RTUs have economizers to allow the unit to provide free cooling whenever the outside air temperature is below 55° F, by modulating the amount of outside air delivered through the unit.

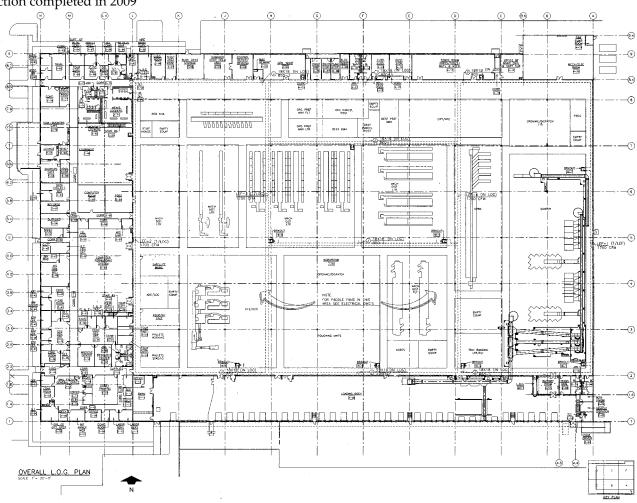
Finally, the UPS Room did not have any mechanical cooling, and so two new 5-Ton Sanyo Mini Split air conditioning units were installed. The controls for these units include a sequencer to assure equal runtime on the units.

Name of Project Owner

Mr. Don Mackey United States Postal Service 27497 Albert Pick Road Greensboro, NC 27498 336/665-2894

Date of project completion

Construction completed in 2009



USPS Clarksburg HVAC Renovation

Project Location

Clarksburg, West Virginia

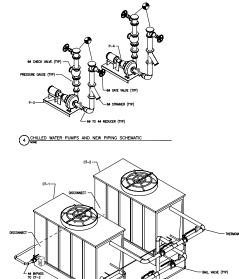
Project Description

Since the 1980s, we have worked dozens of times for the USPS in the Clarksburg; the newest project is a \$375,000 elevator renovation which is about to be constructed. Another project, which was completed in 2009, is an HVAC renovation.

The main objective of this \$460,000 project was the replacement of the 120-ton Water Cooled Chiller, which was 24 years old. The typical useful life for a water-cooled chiller, located indoors is approximately 15 to 20 years.

This replacement included new piping from the existing shutoff valves to the Chiller, strainer, thermometer, pressure gauge and flexible connectors. In addition to the chiller, was the replacement of two 107-ton Cooling Towers. These towers had rust on them, patches had been welded onto the panels, the controls had been rewired and there were clamps holding the motor mounts in place. This task involved new shutoff valves to the Cooling Tower and Pumps, strainer, thermometer, pressure gauge and flexible connectors; moreover, new piping from the existing shutoff valves.

Also, this project involved the replacement of 4 Pumps (2 new Condenser Water Pumps and 2 new Chilled Water Pumps), the installation of new 6' wide door out of the mechanical room, and a Hydronic System Balancing. The demolition included the existing chiller, 2 cooling towers, 4 pumps, and miscellaneous piping, fittings and equipment.



5 COOILING TOWERS AND NEW PIPING SCHEMATIC

Name of Project Owner

Mr. Don Mackey United States Postal Service 27497 Albert Pick Road Greensboro, NC 27498 336/665-2894

Date of project completion

Multiple years/phases - The HVAC was completed in 2009.





USPS Martinsburg Processing & Distribution Center HVAC Renovation

Project Location

Martinsburg, West Virginia

Project Description

The \$280,000 USPS Martinsburg Facility HVAC Renovation project consisted of replacing (4) Packaged Rooftop Units with new, like-in-kind, Packaged Rooftop Units. While the RTUs are similar, there were some design changes made to bring the units in to USPS Standards compliance and to provide a more efficient system. The new units were installed on the existing RTU curbs and tied into the existing duct systems. In order the meet the USPS Standards, the units all utilized R-410A refrigerant. Pappy's Air Comfort helped perform the commissioning on the RTUs.

The energy saving mentioned above were achieved with the use of economizers to allow free cooling when ambient temperatures are below 600 F. The existing equipment consists of Packaged Rooftop Heating and Cooling Units with DX Cooling and Gas Heating. The workroom, which makes up the majority of the building square footage houses high amounts of equipment providing high levels of internal heat gain, requiring DX Cooling when the outside air temperatures are below the economizer enable setpoint. As a result, currently to maintain space comfort the RTUs must operate DX Cooling into the heating months or the units are turned off, to save energy. The new equipment provides increased operating efficiencies with the addition of Economizers.

Name of Project Owner

Mr. Don Mackey United States Postal Service 27497 Albert Pick Road Greensboro, NC 27498 336/665-2894

Date of project completion

Construction completed in 2009









Big Sandy Arena & Convention Center

Project Location

Huntington, West Virginia

Project Description

The \$800,000 Big Sandy Superstore Arena (the former Huntington Civic Center) project for the City of Huntington includes the renovation and redesign of the Convention/ Conference Center meeting rooms, where we converted 6 Break out rooms into 3 "smart rooms" with 80" LED media screens, smartboard controls, and multi media capabilities. One of the rooms is designed as a "Life Size" video conference room for up to 50 local participants and video conference participants from 8 different locations. The Conference Center is a 15,000 square foot facility. It houses a registration area, suites, large meeting rooms, small meeting rooms, and banquet facilities for up to 350 persons. The center is served by its own entry lobby, lounge, restroom facilities and catering kitchen. The center hosts weddings, receptions, reunions, proms, tradeshows, holiday parties, office functions, job fairs, conferences and more. In addition to the media rooms, we replaced the Conference Center acoustical dividing walls; we renovated the restrooms and added a family ADA restroom in the front lobby; and and we built a catering room in the backstage area for the performers and their crews. McKinley & Associates completed the architecture and HVAC/MEP engineering on this 100,000+ GSF building. All of this work was completed while the conference center was open for business.

McKinley & Associates was also instrumental in modernizing the existing HVAC system and boiler, and added independent controls for the Conference Center. We replaced an existing Cleaver-Brooks Model CB-200-150 Combination Gas-Oil Hot Water Boiler and Pump with 2 Fulton VTG-3000DF Combination Gas-Oil Condensing Boilers (Gas only) having a capacity of 2,640 MBH output each, and two 800 GPM Pumps (1 normal and 1 stand-by).

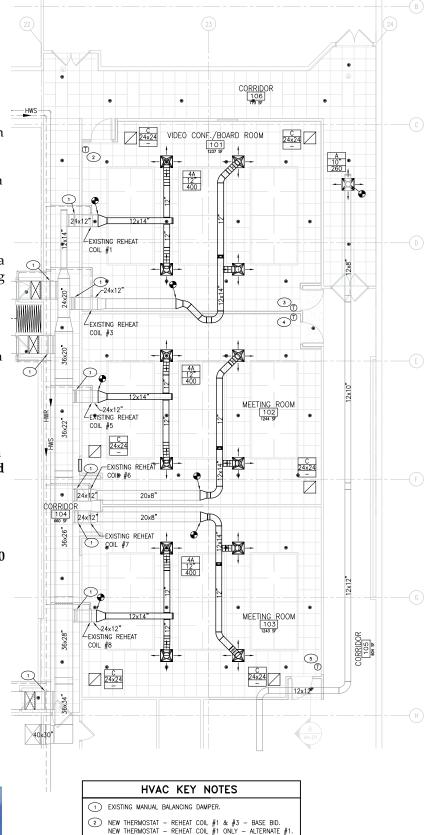
Name of Project Owner

Mr. Brian Sipe Big Sandy Superstore Arena 1 Civic Center Plaza Huntington, WV 25701 304/466-6000

Date of project completion

December 2013





- 3 NEW THERMOSTAT REHEAT COIL #3 ONLY ALTERNATE #1
- 4 NEW THERMOSTAT REHEAT COIL #5 & #6.
- 5 NEW THERMOSTAT REHEAT COIL #7 & #8.

CONVENTION CENTER HVAC RENOVATIONS—BASE BID & ALTERNATE #1





Mount St. Joseph Convent Renovation Project

Project Location

Wheeling, West Virginia

Project Description

Listed on the National Register of Historic Places, the Mount St. Joseph Convent is a five story building that provides all living accommodations on site. Modern infrastructure was installed to accommodate state of the art video conferencing equipment in the main conference room, dining room and social hall. Except for non-public service entrances and mechanical spaces, we upgraded the building to be fully ADA accessible.

In addition to upstairs individual apartments designed for independent living, the 71,000 SF facility includes a floor dedicated to full nursing care and a floor especially for assisted (limited or select services) living accommodations. There is also a library, a hair salon, laundry services, social hall, formal dining room for 100, a complete commercial kitchen, a chapel and an exercise space. Meeting rooms and private apartments are also available for visiting lecturers and seminars. This project was completed in multiple phases.

The HVAC portion of the Phase I renovations to the building included the installation of 6 high efficiency boilers, pumps with variable speed drive control, custom air handling units with hot and chilled water coils, unit ventilators with hot and chilled water coils, vertical stacked fan coil units with hot and chilled water coils, and an air cooled chiller. In order to hide the new ductwork and piping, we installed new acoustic tile ceilings with high efficiency, dual switch lights.

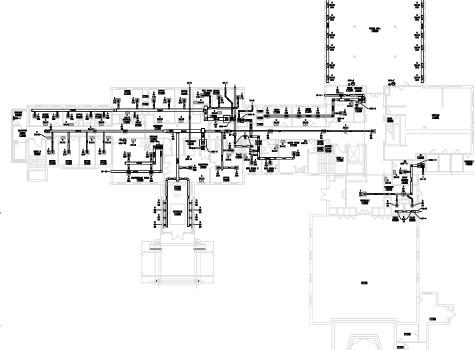
In Phase II, the HVAC portion of the renovations to the laundry room included the installation of custom air handling units with chilled and hot water coils, as well as vertical stacked fan coil units with chilled and hot water coils. The new piping for Phase II was routed where the chilled and hot water pipes were installed in Phase I.

Name of Project Owner

Sister Marguerite O'Brien Sisters of St. Joseph 137 Mount St. Joseph Rd Wheeling, WV 26003 304/232-8160

Date of project completion

Multiple phases/years - most recent was 2010





Logan Detachment

Project Location

Logan, West Virginia

Project Description

For over 15 years, McKinley & Associates has been honored to have been selected for multiple West Virginia State Police open-ended contracts for all architectural and engineering services throughout West Virginia.

A new 13,000 SF detachment in Logan County includes a Dispatch Center with a dispatch room, radio room, a computer rooms with raised access floors, and an uninterruptible power supply (UPS) room with raised access floors. Also included in the detachment is a District Commander's office, Detachment Commander's office, Assistant Commanders' offices, Lieutenant Inspector office, Lieutenant offices, squad bay for 25 Troopers w/workstations, receptionist area, file rooms, dayroom, evidence room, 30 trooper lockers, a two bay garage, conference rooms, processing room, witness interview room, commons spaces, conference room, and more. This is the first time Insulated Concrete Forms (ICF) have been used for State Police Buildings. ICF's are an almost perfect fit for the detachments they are cost effective to construct, energy efficient, and secure. The \$4.5 million Detachment also uses a daylight clearstory to let daylight into the internal squad and conference rooms. The site required close coordination with the Department of Highways because the DOH will be placing their building on the same site in the near future. The contractor was W. Harley Miller Contractors, Inc.

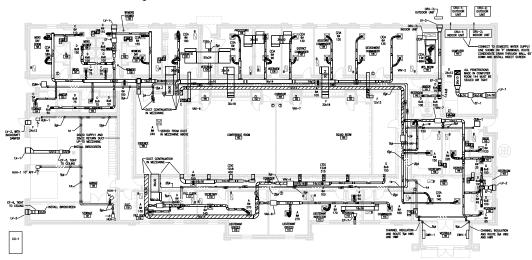
The HVAC System included the installation of 2 high efficiency condensing boilers, pumps with variable speed drive control, custom air handling unit with dx (remote condensing unit) and hot water coils, variable air volume boxes with hot water heating coils, computer room units with remote condensing units, and direct digital controls.

Name of Project Owner

Colonel C. R. "Jay" Smithers West Virginia State Police 725 Jefferson Road South Charleston, WV 25309 304/746-2115

Date of project completion

Construction completed in October of 2011















West Virginia University's Colson Hall

Project Location

Morgantown, West Virginia

Project Description

McKinley & Associates completed a \$5.6 million renovation/restoration project on Colson Hall at the downtown campus of West Virginia University in Monongalia County, West Virginia. This project involved renovation and restoration to this approximately 35,000 SF historical facility. The scope of work was to take this existing building and readapt it for use as a faculty office building with additional classrooms. Work included architectural elements as well as major electrical and mechanical systems design. The building was renovated and provided with all new systems. There was also an elevator upgrade. There was also moisture penetration issues that were addressed in the roof, ceiling, and walls; especially with the tile for the front porch. The windows were restored by following the Historic Treatment of Wood Windows specifications. Since this building is now the home to offices, we had to create a quiet and comfortable HVAC system, create adequate lighting, and design a data/ communication system that met the needs of today's faculty requirements, while at the same time still keeping the original design from 1923 in tact.

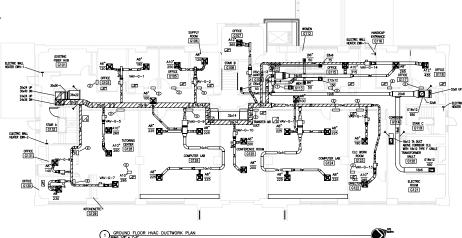
The HVAC System consists of (2) Variable Volume Air Handling Units with Hot Water and Chilled Water Coils, and Enthalpy Controlled Economizer. The AHUs provide heating and cooling through a series of Variable Air Volume Boxes with Hot Water Reheat Coils. The exterior spaces also have finned tube radiation to compensate for the building envelope loss. The Chilled Water is provided from the campus Chilled Water Plant and is fed through the building with (2) Base Mounted pumps with variable speed drives, configured as duty / standby. The Hot Water is developed through a Shell-n-Tube Heat Exchanger. The steam, from the Campus System is converted to Hot Water and distributed throughout the building with (2) Base Mounted pumps with variable speed drives, configured as duty / standby. A complete Direct Digital Control System was installed to provide all programming and alarm notification.

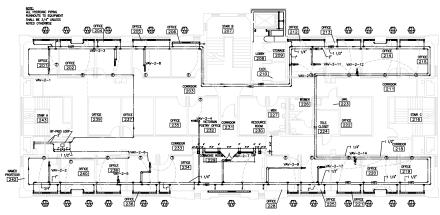
Name of Project Owner

Mr. Robert Moyer West Virginia University 979 Rawley Lane Morgantown, WV 26506 304/293-2873

Date of project completion

November 1, 2007









Vendor Forms



GSD1600000005 **HVAC** Renovations for Building 36





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

State of West Virginia Centralized Expression of Interest

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Proc Folder: 141136

Doc Description: EOI A/E Services for HVAC Renovations of Building 36

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2015-09-16	2015-10-20 13:30:00	CEOI 0211 GSD1600000005	1

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV

25305

US

VENDOR

Vendor Name, Address and Telephone Number:

*00000206862 McKinley & Associates, Inc. 1116 Smith Street - Suite 406 Charleston, WV 25301 304-340-4267

FOR INFORMATION CONTACT THE BUYER

Laura E Hooper (304) 558-0468

laura.e.hooper@wv.gov

Signature X

FEIN# 55-0696478

DATE November 9, 2015

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

Page: 1

FORM ID: WV-PRC-CEOI-001

CERTIFICATIONAND SIGNATURE PAGE

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

McKinley & Associates	
(Company)	
Small Delatur Ern	est Dellatorre, President
(Authorized Signature) (Re	

304-340-4267 | 304-340-4267 | 11/9/15 (Phone Number) (Fax Number) (Date)

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

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

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

DEFINITIONS:

WITNESS THE FOLLOWING SIGNATURE:

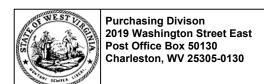
Viciny-two Tanaban Broot Sets 100 Windowing, West Virginia 28003 My Commission Expires June 28, 2024

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

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

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

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



State of West Virginia Centralized Expression of Interest

Proc Folder: 141136

Doc Description: Addendum 1 EOI A/E Services for HVAC Renovations of Bldg 36

Proc Type: Central Contract - Fixed Amt

 Date Issued
 Solicitation Closes
 Solicitation No
 Version

 2015-10-08
 2015-11-12
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BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION 2019 WASHINGTON ST E

CHARLESTON WV 25305

US

VENDOR

Vendor Name, Address and Telephone Number:

*00000206862 McKinley & Associates, Inc. 1116 Smith Street - Suite 406 Charleston, WV 25301 304-340-4267

FOR INFORMATION CONTACT THE BUYER

Laura E Hooper (304) 558-0468 laura.e.hooper@wv.gov

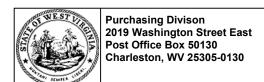
Signature X FEIN # 55
All offers subject to all terms and conditions contained in this solicitation

FEIN # 55-0696478

Page: 1

DATE November 9, 2015

FORM ID: WV-PRC-CEOI-001



State of West Virginia Centralized Expression of Interest

Proc Folder: 141136

Doc Description: Addendum 2 EOI A/E Services for HVAC Renovations of Bldg 36

Proc Type: Central Contract - Fixed Amt

 Date Issued
 Solicitation Closes
 Solicitation No
 Version

 2015-10-28
 2015-11-12 13:30:00
 CEOI
 0211 GSD1600000005
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BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION 2019 WASHINGTON ST E

CHARLESTON WV 25305

US

VENDOR

Vendor Name, Address and Telephone Number:

*00000206862 McKinley & Associates, Inc. 1116 Smith Street - Suite 406 Charleston, WV 25301 304-340-4267

FOR INFORMATION CONTACT THE BUYER

Laura E Hooper (304) 558-0468 laura.e.hooper@wv.gov

Signature X

FEIN # 55-0696478

Page: 1

DATE November 9, 2015

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

FORM ID: WV-PRC-CEOI-001

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: GSD16000000005

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

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

A	Numbers Received: ox next to each addendum re	eceive	d)				
[✓]	Addendum No. 1	[]	Addendum No. 6			
[✓]	Addendum No. 2	E]	Addendum No. 7			
[]	Addendum No. 3	L]	Addendum No. 8			
[]	Addendum No. 4]]	Addendum No. 9			
[]	Addendum No. 5	I]	Addendum No. 10			
I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding. McKinley & Associates, Inc.							
	Company						
	Zun Hallatun						
	Authorized Signature						
	November 9, 2015						
	Date						

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