

**Department of  
Health and Human Resources**  
**Bureau for  
Health and Health Facilities**

*HHR11047 - Energy Efficiency Projects*

*Architectural Consulting and  
Architectural & Engineering Services for  
Prioritizing the Capital Improvements  
for Lakin Hospital, Mildred Mitchell-  
Bateman Hospital, William R. Sharpe Jr.  
Hospital, Welch Community Hospital,  
John Manchin Sr. Healthcare Center and  
Hopemont Hospital*

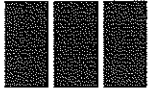
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PROCUREMENT DIVISION  
STATE OF WV



**McKINLEY & ASSOCIATES**  
ARCHITECTS • ENGINEERS • INTERIOR DESIGN



October 18, 2010

Roberta Wagner, Senior Buyer  
Purchasing Division  
Building 15  
2019 Washington Street, East  
Charleston, WV 25305-0130

Dear Ms. Wagner and Members of the Selection Committee;

We are pleased to provide the West Virginia Department of Health and Human Resources, the Bureau for Health and Health Facilities with our Expression of Interest to provide Architectural Consulting and Architectural & Engineering Services for Prioritizing the Capital Improvements for Lakin Hospital, Mildred Mitchell-Bateman Hospital, William R. Sharpe Jr. Hospital, Welch Community Hospital, John Manchin Sr. Healthcare Center and Hopemont Hospital. Your project will be led by **Bradley A. Crow, PE, LEED AP**, our Director of Engineering Services whom is a mechanical (HVAC) engineer, as well as a LEED Accredited Professional.

McKinley & Associates has been providing design services since 1981. With offices in Charleston and Wheeling, WV and Washington, PA, we support a professional staff of 40+ that includes: architects, mechanical, electrical, plumbing/life safety engineers (MEP engineers) as well as a certified interior design department. Our architects, engineers and technicians are all "**In-House**", creating optimum communication and collaboration. We are proud to be considered the largest full service A/E firm in the State of West Virginia.

The Sisters of St Joseph – Mount St Joseph, in Wheeling, WV is a recent project we completed which is very similar to your facilities. This project consisted of converting a historic resident convent into a Retirement/Assisted Care Facility for the Sisters. The project involved evaluating the entire building envelope and the MEP systems prior to defining the scope required for this renovation project. Once completed, we were then able to meet with our clients and prioritize the scope; upgrading the facility so that it was brought up to code for its intended use. We also identified additional items that would need upgraded in the future, which the Sisters were able to complete in multiple phases.

We have 4 LEED Accredited Professionals (LEED APs) on staff, in both the architectural and engineering fields, which will all be utilized to determine ways to increase energy efficiency and reduce energy costs.

We currently are contracted with Fourteen West Virginia School Counties to provide their 10 year Comprehensive Educational Facilities Plans (CEFP 2010-2020) which comprises over 160 schools. A major aspect of this plan is to re-evaluate its energy and operating efficiencies and prioritizing the replacements or upgrades that will lead to a more energy efficient operating system. The process provided two major advantages to our clients. First, they were better enabled to plan for these capital improvements in the future and secondly, they were prepared with budgets for each of these upgrades when a non-traditional funding source became available, such as the American Recovery & Investment Act.

We love what we do, so we care about the results you get. We know we can provide you with a successful project and are very excited about the possibility of building a long-lasting relationship with you. Thank you for reviewing our submission and considering McKinley & Associates for your project.

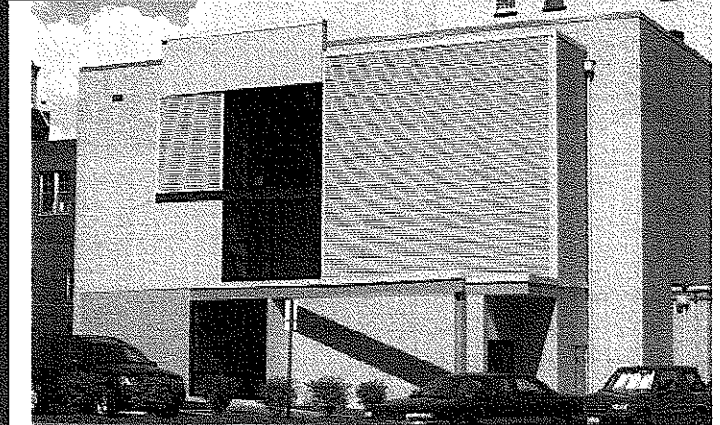
Sincerely,

  
Ernest Dellatorre  
McKinley & Associates

# 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 and construction administration. We have a broad range of skill and experience for projects involving medical, educational, governmental, commercial, religious and recreational operations. In January 2007, McKinley & Associates established a partial **Employee Stock Ownership Plan (ESOP)**, which is a benefit plan that gives our employees ownership of stock in our company. This is a contribution to the employee, not an employee purchase.



Dr. Ganzer Office Building

OVMC - Nurses Residence



OVMC - Radiation and Oncology Center

## Firm Information

**David McKinley, PE**  
Principal

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

**Gregg Dorfner, AIA, REFP**  
Director of Architecture

**Brad Crow, PE**  
Director of Engineering

## Date of Incorporation

1981 Wheeling, West Virginia

## Number of Professionals

Total Size	40+
Architects & Interns	12
Engineers	6
Construction Admins	4
Quality Control	2
Arch./Eng. Designers	11
Interior Designer	1
MIS	1
LEED APs	4

OVMC

## Location

### Headquarters

**The Maxwell Centre**  
Thirty-Two - Twentieth Street  
Suite 100  
Wheeling, West Virginia 26003  
P: 304-233-0140  
F: 304-233-4613

### Satellite Offices

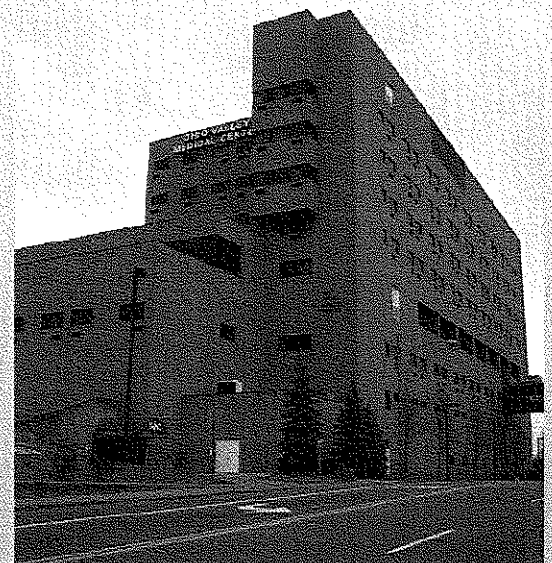
**Charleston Area Alliance Building**  
1116 Smith Street  
Suite 406  
Charleston, West Virginia 25301  
P: 304-340-4267  
F: 304-340-4269

### 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, AIA, WVEDC, AIA, NFPA, NCARB, ASCE, ASPE, BOCA, ASHRAE, ACI International



# HEALTH CARE FACILITIES

Our firm has completed many projects for health care facilities, including renovations and expansions of existing structures as well as new buildings. We have completed over a dozen projects for six Veterans Affairs Medical Centers in West Virginia and Pennsylvania as well as numerous local and regional health care providers. From planning and implementing a feasibility study for a retirement community, to design of an assisted living center, to additions to house MRI equipment, to outpatient surgical centers, to freestanding outpatient facilities and much more, our team has the ability to handle your project.

## **WHEELING HOSPITAL**

Wheeling, West Virginia

- \*Design of new Ultra-Sound Suites.
- \*Feasibility study for Retirement Community
- \*Training Center for Continuing Education
- \*Renovation of semi-private rooms into private rooms
- \*Center for Nursing Continuing Education
- \*Renovation of Professional Suites

## **OHIO VALLEY MEDICAL CENTER**

Wheeling, West Virginia

- \*Renovation of Nurse Residence into Professional Suites
- \*MRI addition
- \*Fire suppression system
- \*Outpatient Surgical Center

## **REYNOLDS MEMORIAL HOSPITAL**

Moundsville, West Virginia

- \*Physicians' offices/exam rooms

## **HERITAGE POINT ASSISTED LIVING CENTER**

New Martinsville, WV

- \*Design of Senior Living Facility with detachment homes

## **OHIO VALLEY PROFESSIONAL BUILDING**

Wheeling, West Virginia

- \*Physicians offices
- \*Outpatient Surgical Center / Exam Rooms

## **WETZEL COUNTY HOSPITAL**

New Martinsville, WV

- \*Community addition
- \*New emergency department

## **PETERSON HOSPITAL**

Wheeling, West Virginia

- \*Fire Suppression system
- \*General renovations

## **VA MEDICAL CENTERS**

### **VAMC / CLARKSBURG, WEST VIRGINIA**

- \*Clinical addition
- \*Emergency room
- \*Surgery and recovery suites
- \*15-bed ICU
- \*Expanded clinical laboratory
- \*Modernized imaging service that includes CT scan and diagnostic nuclear medicine capabilities
- \*Inpatient and outpatient pharmacies.
- \*Primary care outpatient clinics
- \*Specialty clinics for oncology, mental hygiene, PTSD, urology, surgery, dermatology, optometry, and otolaryngology
- \*Doors and latches program

### **VAMC / MARTINSBURG, WEST VIRGINIA**

- \*Renovation of electrical systems in operating room suites
- \*Nurses call stations

### **VAMC / HUNTINGTON, WEST VIRGINIA**

- \*Replacement of all clinical areas
- \*Renovation of original hospital into hospital rooms
- \*Medical air and Vacuum systems

### **VAMC / BECKLEY, WEST VIRGINIA**

- \*Renovation of central computer room
- \*Motion-sensing lighting controls
- \*Same Day Surgery Center
- \*Oncology Center
- \*Addition for specialty clinics
- \*Renovation of recovery area for outpatient surgery

### **VAMC / BUTLER, PENNSYLVANIA**

- \*Various Renovations to Buildings #1, #2, and #3

### **VAMC / PITTSBURGH, PENNSYLVANIA**

- \*Expansion of central computer facility
- \*Renovation of pneumatic laundry system
- \*Replacement of steam traps
- \*Fire suppression system - five story building

# HEALTH CARE FACILITIES

## **SUMMIT CENTER GROUP HOME**

Morgantown, West Virginia  
\*Fire suppression system

## **BRIGHTWOOD NURSING HOME**

Follansbee, West Virginia  
\*Fire suppression system

## **ST. CLAIREVILLE HOSPITAL**

St. Clairesville, OH  
\*General renovations

## **WOODS HEALTH CENTER**

Moundsville, West Virginia  
\*Freestanding Clinic & Outpatient Facility

## **DOCTORS URGENT CARE**

Wheeling, West Virginia  
\*Freestanding Outpatient Facility

## **LOGAN GENERAL HOSPITAL\***

Logan, WV  
\*Hospital addition  
\*Medical Office Building

## **UNIVERSITY SUBURBAN HEALTH CENTER\***

Cleveland, OH  
\*Medical Office Building

## **TRI COUNTY HOSPITAL\***

East Point, GA  
\*Medical addition and remodeling

## **CHIPPEWA VALLEY HOSPITAL & NURSING HOME\***

Durand, WI  
\*Replacement Hospital

## **MENNONITE HOSPITAL\***

Bloomington, IL  
\*Eye Surgery Suite

## **WELKIND NEUROLOGICAL HOSPITAL\***

Chester, NJ  
\*Replacement Hospital

## **ST. JOSEPH HOSPITAL\***

Lorain, OH  
\*New laundry facility  
\*Medical addition & remodeling

## **LAKE COUNTY HOSPITAL\***

Willoughby, OH  
\*West addition and remodeling

## **WESTERN RESERVE PSYCHIATRIC HABILITATION CENTER\***

State of Ohio  
\*Medical renovations

## **UNIVERSITY HOSPITALS OF CLEVELAND\***

Cleveland, OH  
\*Medical remodeling

## **LAKESWOOD RADIOLOGY, INC.\***

Lakewood, OH  
\*Radiology Suite

## **LAKESWOOD HOSPITAL\***

Lakewood, OH  
\*Medical addition and remodeling

## **SOUTHWEST CANCER CENTER\***

Lubbock, TX  
\*HVAC Designs

## **RIVER CANCER CENTER\***

Newark, NJ  
\*HVAC Designs

## **ILLINOIS CANCER CENTER\***

Chicago, IL  
\*HVAC Designs

## **UTAH CANCER CENTER\***

Salt Lake City, UT  
\*HVAC Designs

## **MONROEVILLE MRI\***

Monroeville, PA  
\*HVAC Designs

\*Professional staff's experience prior to joining McKinley & Associates

# HISTORIC PRESERVATION

**Historic Preservation** is a passion for our firm. Having an "in-house" staff of architects and engineers has allowed us to provide innovative, cost effective rejuvenation of historic buildings. We are very familiar with the **Secretary of Interior (NPS) Standards** and have completed many listings on the **National Register** as well as rehabilitated numerous buildings for **Historic Tax Credits**. We have completed over 60 historic projects throughout the tri-state region. Projects such as the Maxwell Centre and the Orrick Building were built by following **the Secretary of the Interior Standards**, and these buildings **both won awards** from the **American Institute of Architects**.

We have vast renovation experience and are familiar with projects that **respect the historic nature of the building**. At McKinley & Associates we are committed to saving and rehabilitating our past. Our team is uniquely experienced in renovation projects because Mr. David B. McKinley and our Firm are similarly involved in the development of multiple structures. Many of these projects are very similar to your Shaw Hall Project where an existing space is renovated and converted entirely for another use. As you will see the Orrick Building was converted from a manufacturing/warehouse to state of the art office space. It is with this experience that we are able bring insight to the design of spaces that will retain long term value.

We have a great working relationship with the **Division of Culture and History**. Our past Historic Preservation experience includes extensive interaction with **The Secretary of the Interior's Standards for the Treatment of Historic Properties**. Our efforts include **qualifying structures for the National Register of Historic Places**, renovations of contributing buildings in **Historic Districts**, and qualifying clients for **Historic Rehabilitation Tax Credits**. Furthermore, Mr. McKinley is a Commissioner on the West Virginia Division of Culture and History's Capitol Building Commission.

Bishop's Residence / Wheeling, WV  
Brock Reed & Wade Building / Morgantown, WV  
Catholic Heritage Center / Wheeling, WV  
Chalfonte Hotel / Cape May, NJ  
Charleston Enterprises Center / Charleston, WV  
Dad's Sweet Tooth / Wheeling, WV  
Dr. Morano; Warwick China / Wheeling, WV  
Egerter Building / Wheeling, WV  
Federal Building / Clarksburg, WV  
Hampshire County Courthouse / Romney, WV  
Klos Towers / Wheeling, WV  
Larkin Apartments / Wheeling, WV  
The Linsly School / Wheeling, WV  
Main Post Office Building / Clarksburg, WV  
Maxwell Centre / Wheeling, WV  
McLaughlin Building / Webster Springs, WV  
Mount De Chantal Academy / Wheeling, WV  
Old Governors Mansion / Wheeling, WV  
Orrick Center / Wheeling, WV  
OVMC Nurses Residence Hall / Wheeling, WV

Parkersburg High School / Parkersburg, WV  
Phillips Gardill Building / Wheeling, WV  
Popodican; Shepherd College / Shepherdstown, WV  
Professional Building / Wheeling, WV  
Rectory, Diocese of Wheeling/Charleston / Wheeling, WV  
St. James Church / Wheeling, WV  
St. Matthew's Church / Wheeling, WV  
Stone & Thomas Building / Wheeling, WV  
US Postal Service / Gerrardstown, WV  
Wagner Building / Wheeling, WV  
West Liberty State College / West Liberty, WV  
West Virginia Capitol Complex / Charleston, WV  
West Virginia Independence Hall / Wheeling, WV  
Wheeling Artisan Centre / Wheeling, WV  
Wheeling Suspension Bridge / Wheeling, WV  
Willow Glen / Woodsdale, WV  
WVNCC B & O Building / Wheeling, WV  
WVNCC - Hazel Atlas Building / Wheeling, WV  
WVU Colson Hall / Morgantown, WV

# HISTORIC PRESERVATION

Many of our projects over the years required our referencing the Secretary of the Interiors Standards for Rehabilitation. There is both a historic component and a carefully balanced practical side to the Standards and Guidelines. First and foremost, we endeavor to protect the original features of a property. Research and on-site inspections occur to ascertain the beginning course of action.

Typical recommendations to the Owners include: repair rather than replace, conceal and rebuild around contemporary corrections, especially structural, and adapt the modern tenant space planning needs to the existing character and physical features of the building rather than destroy the historic infrastructure.

When a client's program needs are in conflict with the existing physical possibilities, we assist the owner/tenant in prioritizing the scope of the project in order to preserve the historic qualities that most exemplify the original attributes of the structure. Restoration and modernization do not have to be mutually exclusive.

Each project has to be evaluated on its own. Each project has historic possibilities and economic limitations. For instance, energy efficiency or a high R-Value conflicts with solid masonry walls with plaster, but improvements in other areas might be possible – replacing an old steam boiler heating system with energy efficient equipment and retrofitted radiators with controls is often doable. These improvements can be made within the Guidelines.

Our starting point begins with referencing the Secretary of the Interiors Standards for Rehabilitation and with educating our clients about the Standards. Many of our restoration projects were privately owned by clients who had the misperception that the Standards are "Not Applicable" to them. McKinley has participated in several restoration/preservation projects which would have been abandoned, had we not engaged in open discussions with clients about costs and about historic possibilities. Our commitment to historic preservation has turned many renovation projects into carefully orchestrated preservation projects.

We have experience with drafting Request for Proposal and technical scopes of work for building rehabilitation, and we can prepare a detailed RFP based on the scope of work for each project. It could include the standard items such as: bid date, pre-bid meeting date, schedule for completion and qualifications of the bidders if necessary. We would expound on the bidder qualifications to include specific skill sets such as window restoration experience, repointing of masonry, stone reconstruction or metal fabrication if appropriate to the project. Qualification type documents can be a required submittal with the bids. Failure to demonstrate a background in restoration construction would allow you to select the most qualified contractor rather than feel an obligation to accept the lowest bid.

Qualification stipulations should also be included in the front end documents of the project prior to advertising for the project. We can assist the Architect of Record with a review of the Division One Section of the specifications to assist in determining qualifications for the bidders. For instance, when we wrote the RFP for the Independence Hall Building Rehabilitation project we included an Allowance for a special roofing consultant to be on site eight hours a day for 25 days: their task is to perform direct on-site observation and evaluation of the soldering and metal connections.

# ARRA EXPERIENCE



## Williamson Campus HVAC (*Williamson, WV*)

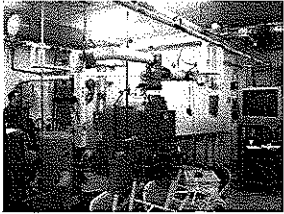
Customer: Southern WV Community and Technical College

Project Cost: \$500,000

Date of Completion: August 2010

Reference: Rita Roberson

304/236-7648



## Wyoming/McDowell Campus HVAC (*Pineville, WV*)

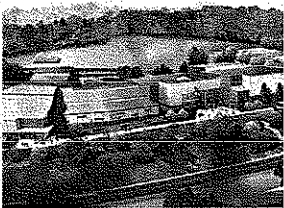
Customer: Southern WV Community and Technical College

Project Cost: \$200,000

Date of Completion: August 2010

Reference: David Lord

304/294-2010



## Cameron Middle School / High School (*Cameron, WV*)

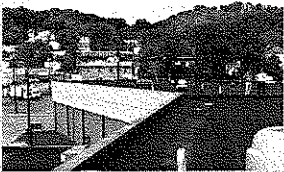
Customer: Marshall County Schools

Project Cost: \$27 million

Date of Completion: In construction

Reference: Fred Renzella

304/843-4405



## SVRTA Administrative and Maintenance Complex roof (*Steubenville, OH*)

Customer: Steel Valley Regional Transit Authority

Project Cost: \$225,000

Date of Completion: In construction

Reference: Frank Bovina

740/282-6145



## New Martinsville School HVAC (*New Martinsville, WV*)

Customer: Wetzel County Schools

Project Cost: \$2.5 million

Date of Completion: August 2010

Reference: William Jones

304/455-2441



## Oak Glen High School HVAC (*New Cumberland, WV*)

Customer: Hancock County Schools

Project Cost: \$2.2 million

Date of Completion: In construction

Reference: Suzan Smith

304/564-3411



# ARRA EXPERIENCE



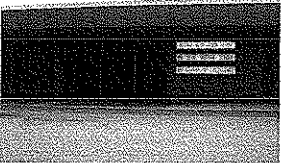
## Maysville Elementary School HVAC (*Maysville, WV*)

Customer: Grant County Schools  
Project Cost: \$740,000  
Date of Completion: In construction  
Reference: Brent Nelson  
304/257-1011



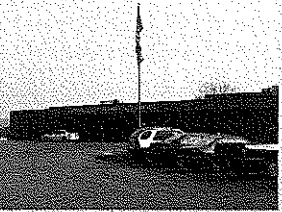
## Madison Elementary School HVAC (*Wheeling, WV*)

Customer: Grant County Schools  
Project Cost: \$4.6 million  
Date of Completion: In construction  
Reference: George Krelis  
304/242-0300



## Arthur I Boreman Elementary School HVAC (*Middlebourne, WV*)

Customer: Tyler County Schools  
Project Cost: \$1.1 million  
Date of Completion: August 2010  
Reference: Jeff Davis  
304/758-4566



## Sistersville Elementary School HVAC (*Sistersville, WV*)

Customer: Tyler County Schools  
Project Cost: \$1 million  
Date of Completion: August 2010  
Reference: Jeff Davis  
304/758-4566



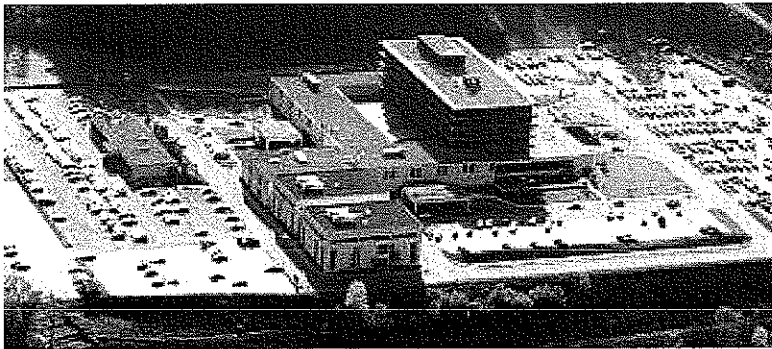
## Middlebourne Pre-K HVAC (*Middlebourne, WV*)

Customer: Tyler County Schools  
Project Cost: \$443,000  
Date of Completion: August 2010  
Reference: Jeff Davis  
304/758-4566

# QUALIFICATIONS

**F**ounded in 1981, McKinley & Associates has become generally accepted as the largest A/E firm in West Virginia. We provided design services for projects representing more than \$100,000,000 annually in construction value.

We have a broad range of skills and experience for projects involving medical, religious, educational, government agencies, manufacturers, commercial and recreational operations, as well as developers. In the past 5 years our firm has been awarded 3 prestigious AIA Honor and Merit Awards for our works.



Wheeling Hospital

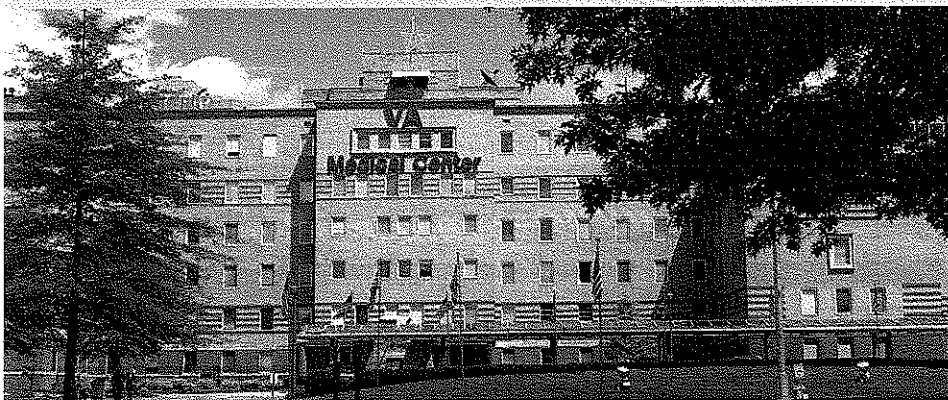
We have completed over a dozen projects for six Veterans Affairs Medical Centers in both West Virginia and Pennsylvania as well as numerous local and regional health care providers.

From planning and implementing a feasibility study for a retirement community, to design of an assisted living center, to additions to house MRI equipment, to outpatient surgical centers, to freestanding outpatient facilities and much more, our team has the ability to handle your next project.

The firm has completed many projects for health care facilities, including renovations and expansions of existing structures as well as new buildings.



Wetzel County Hospital



VA Medical Center - Clarksburg

Generally recognized as West Virginia's largest A/E firm, our 40+ person Professional staff includes: Architects; Civil, Electrical, Fire/Life Safety, Mechanical and Structural Engineers; Interior Designers and Educational Planners. We have provided professional services in all 55 counties of West Virginia.

# HVAC REPLACEMENT PROJECTS

The following examples are chosen to exhibit an assortment of HVAC system replacement projects:

**AEP Building**  
*Wheeling, WV*

**City County Building**  
*Wheeling, WV*

**Hillview Terrace Church of Christ**  
*Moundsville, WV*

**Maxwell Centre**  
*Wheeling, WV*

**Ohio County Correctional Complex**  
*Wheeling, WV*

**Ohio Valley Distribution Center**  
*Clarksburg, WV*

**Orchard Park Day Care Center**  
*Wheeling, WV*

**Orrick Building**  
*Wheeling, WV*

**St. Mark's Lutheran Church**  
*Wheeling, WV*

**USPS**  
*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*

**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*

**Maysville Elementary School**  
*Grant County Schools, WV*

**Oak Glen High School**  
*Hancock County Schools, WV*

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

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

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

**Long Drain School**  
*Wetzel County Schools, WV*

**Kanawha Elementary School**  
*Wood County Schools, WV*

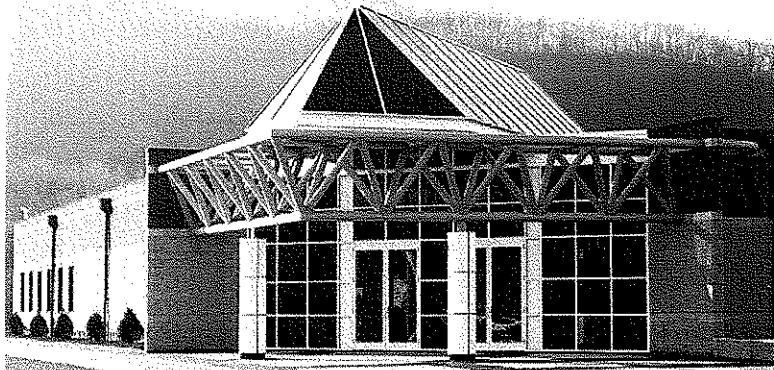
**West Liberty State College**  
*West Liberty, WV*

**WVNCC - B&O Building**  
**WVNCC - Hazel Atlas Building**  
*Wheeling, WV*

**Wheeling Jesuit University**  
*Wheeling, WV*

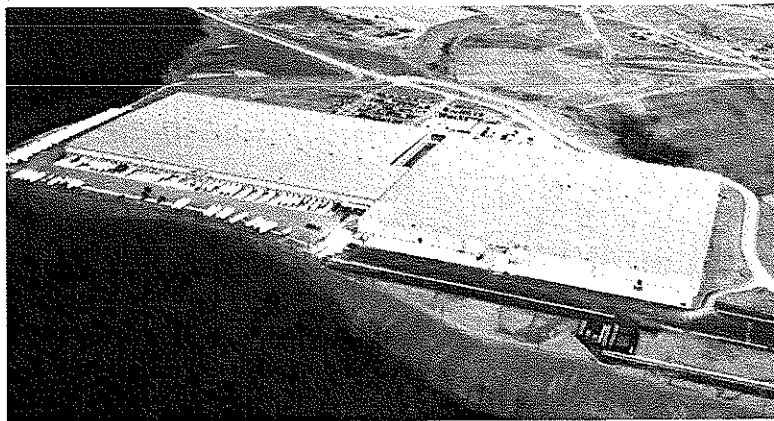
# FAST-TRACKING

Throughout the years we have worked on many "fast-track" projects such as the Cabela's Eastern Distribution Center in Wheeling, WV, Maclin Hall at West Virginia University's Institute of Technology in Montgomery, WV, as well as TeleTech National Call Center in Moundsville, WV. We achieved success by maintaining time and cost management, quality control and excellent communication amongst the client and contractors.



TeleTech National Call Center

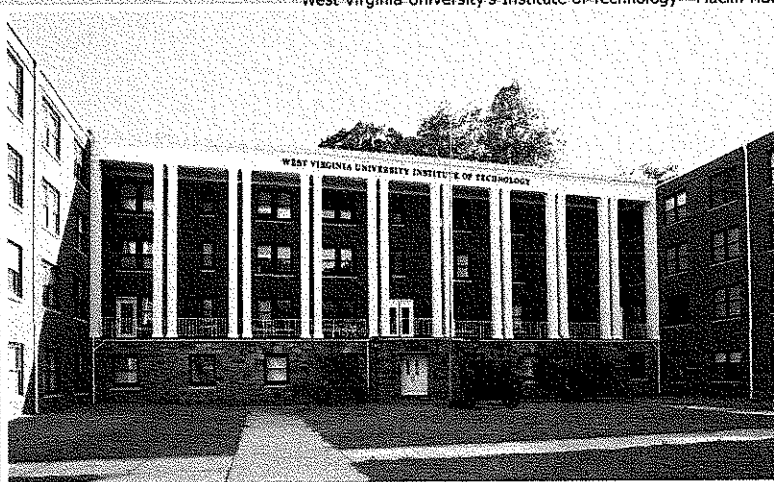
When **TeleTech** needed to move into a new call center in **6 months**; McKinley & Associates got the call. TeleTech is a **\$10 million** project, and included in the structure are the following: sophisticated computer and communication systems with over 450 stations, 500 employee parking spaces, cafeteria, office and training rooms along with calling areas. The **58,000 SF** building came in on time, on schedule, and on budget, and it became a prototype for all of the company's buildings.



Cabela's Eastern Distribution Center

The **Cabela's Eastern Distribution Center** is a commercial warehouse that was completed in two phases. The building measures **1.2 million SF**, and is one of the largest buildings in the State of West Virginia. Included with the **\$40 million** structure are 300 trailer parking spaces, 750 employee parking spaces and storage area.

West Virginia University's Institute of Technology - Maclin Hall



In 2006, we designed an extensive (**\$5M**) renovation of **Maclin Hall**, a historic **53,900 SF** dormitory building on the campus of WV Tech, in **less than a month**. The project included redesigning the shared areas, new finishes, new roof, and restoration of the exterior. We also replaced the entire HVAC, lighting, fire protection, data systems and renovated the shared restrooms.

We are confident that our design team can meet your timeline.

# 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**.

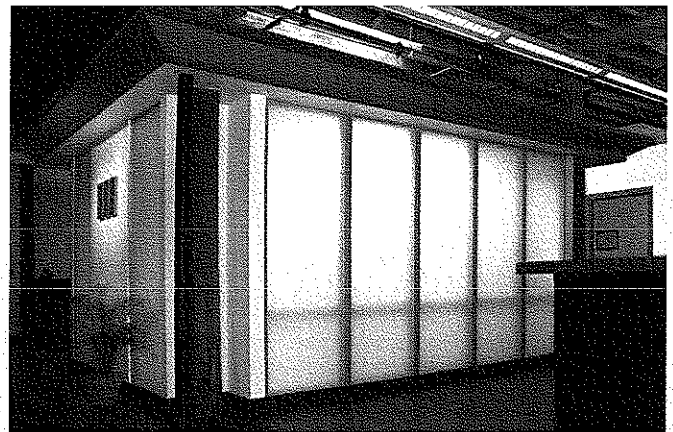
McKinley approaches ecological design from a business perspective, offering **proactive** solutions to complex problems such as indoor air quality, energy efficiency, resource depletion, and water quality. With commercial and institutional project experience, the McKinley Team can work alongside local 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 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.

Hilltop Elementary School is one of our many projects that we designed using **energy efficient** and **sustainable design** approaches. It was not until after construction had commenced that the Owner decided to submit for LEED certification. This required a great deal of coordination with the architects, engineers, subcontractors and suppliers. Since we incorporated **good sustainable design practices** from the beginning, this allowed for an easy transition, and for the project to be successfully completed in July 2009.



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 2009 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.

# LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN



LEED® (Leadership in Energy and Environmental Design) Green Building Rating System™ developed by the U.S. Green Building Council (USGBC) is the nationally accepted standard for the design, construction, and operation of high performance green buildings. LEED recognizes that sustainable design requires a **team approach** to achieve the desired goals, and we have LEED Accredited Professionals (LEED AP and LEED AP BD+C) in both the architectural and engineering fields. We have **4 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 **4 LEED® Accredited Professionals** on staff (including the Project Manager for your proposed project) in **both the architectural and engineering fields:**

Michael S. Betsch, LEED AP  
Bradley A. Crow, PE, LEED AP  
Christina Schessler, AIA, LEED AP  
Thomas R. Worlledge, AIA, LEED AP BD+C, REFP

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)  
Hilltop Elementary School in Sherrard, WV (LEED for Schools 2.0)  
West Virginia State Office Building in Logan, WV (LEED NC 2.2)

All 4 of our LEED Registered Projects are either under construction or under design with potential **LEED Certification** (Bellann) or potential **LEED Silver Certification** (Cameron Middle School/High School, Hilltop Elementary School, and the West Virginia State Office Building).



The LEED AP Specialty Logos signify advanced knowledge in green building practices and specialization in a particular field. The LEED AP BD+C 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 and has served on the committee that sets the standards for the international energy code.

**McKINLEY & ASSOCIATES**  
ARCHITECTS • ENGINEERS • INTERIOR DESIGN

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

# McKinley & Associates CHARLESTON OFFICE

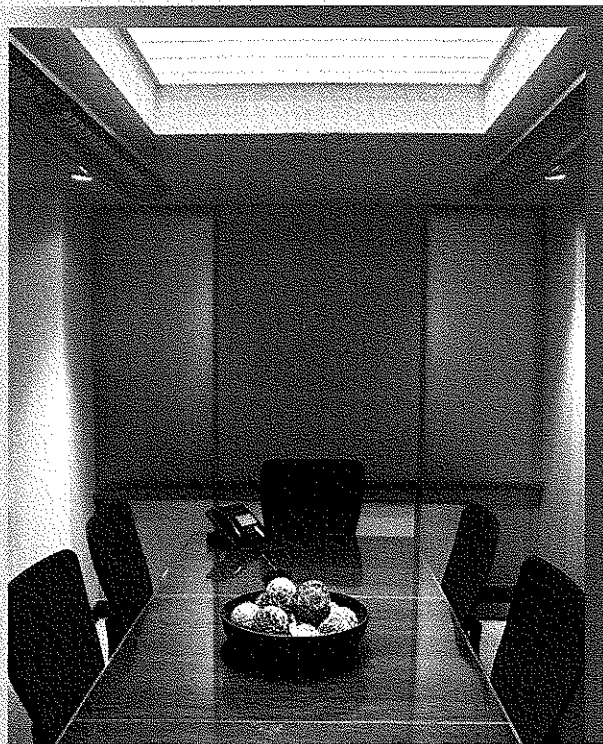
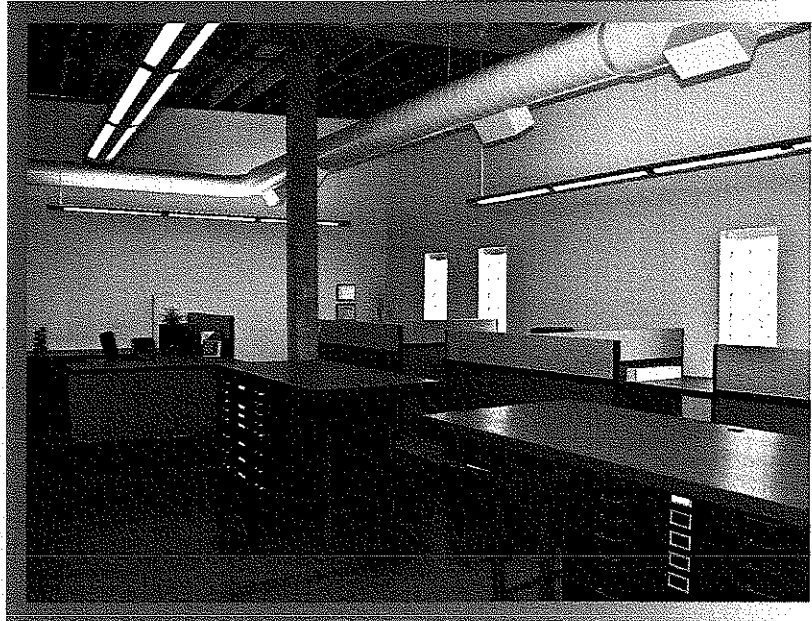


## Besides the paint, what makes this office "green"?

McKinley & Associates has been practicing "green" for years and has won awards for converting unused warehouse space into striking modern office buildings. One of the best ways to build green is to adapt an existing building; twenty percent of a building's energy consumption is embodied in the building's physical structure itself.

We recently won a West Virginia Chapter of the American Institute of Architects 2009 Merit Award for our newly renovated Charleston Office. The first thing you will notice is we left most of the existing structure exposed; this minimizes the amount of new materials required to define the space and allowed us to utilize some special features. For example, our centrally located conference room "Lantern" glows all day long from natural sunlight from above. This room's ceiling acts as a reflector, bouncing natural light throughout the space.

In addition to reusing the space, we also reused doors to make all of the desks, workstations and conference table. The top of the dividers is made from "Homosote", a board made from 100% recycled newspapers and covered with a fabric made from 100% recycled polyester. An office full of unique, durable office furniture for less than 1/10<sup>th</sup> of the cost of standard modular furniture is another advantage.



The office chairs are new, but the "Zody" chair by Haworth is the first chair to be Cradle to Cradle Gold Certified. This certification means that the manufacturer will take back the chair at the end of its useful life to disassemble and make a new chair, completing the cycle.

Yes, the paint on the walls is green, but it also has very low volatile organic compounds (VOC's) which keeps the air we breathe cleaner, and contains an anti-microbial which inhibits the growth of mold and mildew.

Most of the floor we chose to clean and seal with water based polyurethane, leaving the natural distressed state of the floor. The remainder of the space, we used a carpet tile by LEES which minimizes waste, has 35% recycled content and is Green Label Certified, meaning it meets stringent indoor air quality requirements.

The window blinds allow the control of glare while maintaining the view and minimizing heat gain. The direct/indirect lights are controllable so we can adjust the amount of electric lighting dependant on the amount of natural light coming in from the windows and the skylight. Even the bowl on the conference room table is recycled from the original fire bell that used to be on the exterior of the building.

# WV STATE OFFICE BUILDING

Logan, West Virginia

Owner  
State of West Virginia

Size  
53,200 SF approx.

Construction Cost  
\$12 million

Project Architects-Engineers  
McKinley & Associates

Project Architect  
Thomas Worlledge, AIA



Currently out-to-bid is this \$12 million project for the West Virginia General Services Division. This 5 story, 53,200 SF (not including basement area) State Office Building is intended to consolidate office space of state agencies currently located in Logan, West Virginia as well as provide moderate space for future customers. This office building will be part of a new generation of State office buildings that will provide flexibility for future growth and/or office renovations and be cost effectively adaptable when relocating other agencies into the space. The State of West Virginia has chosen to try and achieve a **silver Leadership in Energy and Environment Design (LEED NC 2.2)** rating as awarded by the US Green Building Council (USGBC) for the new office structure. This State Office Building will accommodate the **Division of Rehabilitation Services, the Department of Health and Human Resources, the Insurance Commission, General Services Division, the Tax Department, and the Work Force Division.**

There are secure storage areas, such as evidence storage areas in the insurance investigation area, with mesh reinforced gypsum board walls. We are using recovered material, such as brick from the street outside the build and using it to enhance the streetscape. For security features, the building has a security standoff distance at the front entrance; access controls with proximity cards; two closed-circuit security cameras currently being used for the construction and then will be incorporated into the security system, as well as CCTV's throughout the public areas; two magnetometer metal detectors at the entrance; employee-only access areas at the rear hall of the building; as well as an intrusion system that will be provided by the State. There is a complete building automation system which incorporates the entire security system, automated temperature control, and lighting.



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# Hilltop Elementary School MARSHALL COUNTY SCHOOLS

## Glen Dale, West Virginia

Owner  
Marshall County Schools

Size  
49,700 SF approx.

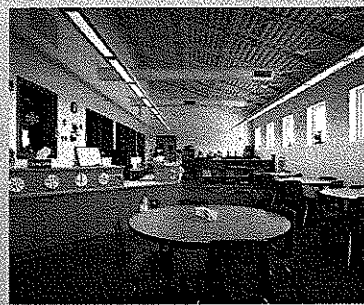
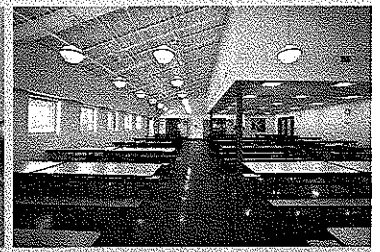
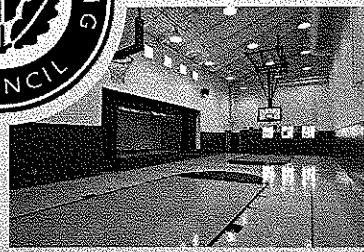
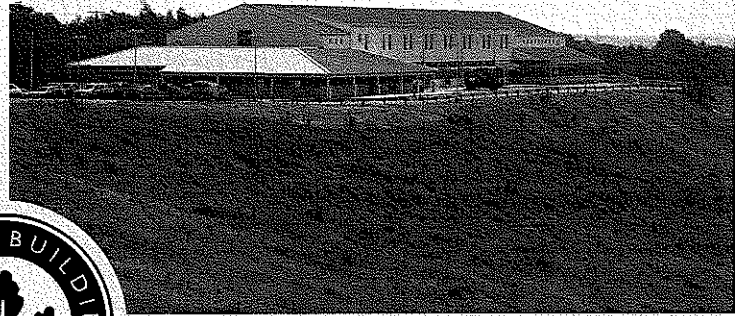
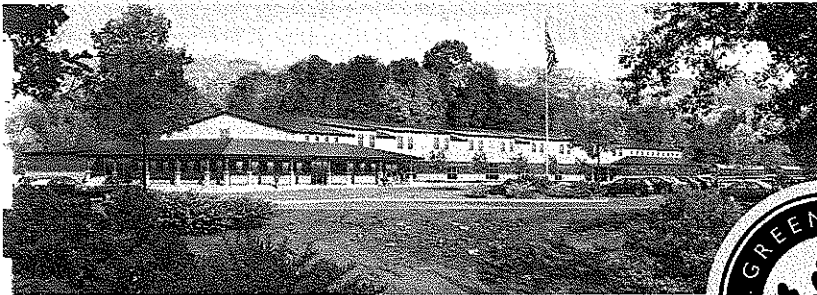
Construction Cost  
\$8.4 million

Project Architects-Engineers  
McKinley & Associates

Project Architect  
Thomas Worlledge, AIA

Contractor  
Grae-Con Construction

This project for Marshall County Schools is nearing completion and has been under construction with potential LEED Silver Certification. A lot of time was spent researching LEED-approved furnishings, finishes, etc. to make the indoor environmental quality conducive to learning, and to minimize maintenance. In addition, this school has been designed with cost effectiveness in mind; the School Building Authority's 2009 Limit on New Elementary School Design is \$217/SF, but Hilltop Elementary's final price is **less than \$170/SF**. This school is 49,700 Square Feet, and the total non-owner change orders is 0.83%.



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# Cameron Middle School / High School

# MARSHALL COUNTY SCHOOLS

## Cameron, West Virginia

Owner  
Marshall County Schools

Size  
117,000 SF approx.

Construction Cost  
\$27 million

Project Architects-Engineers  
McKinley & Associates

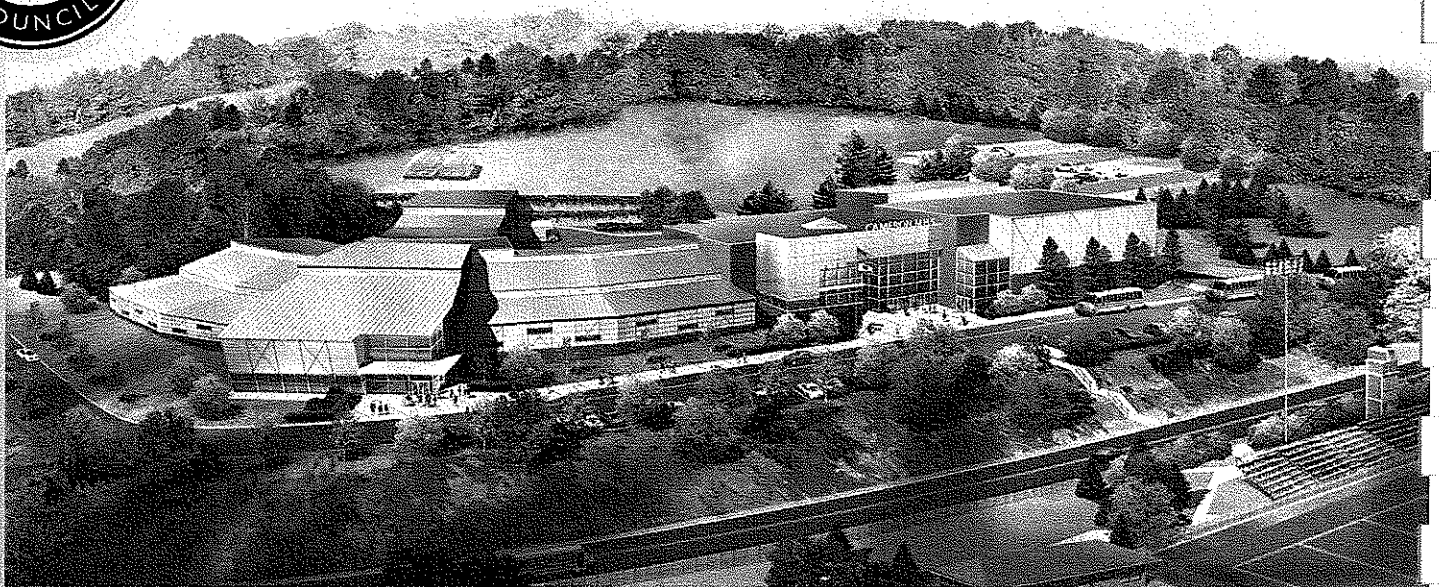
Project Architect  
Gregg P. Dorfner, AIA

Contractor  
Nello Construction

Awaiting construction is the new Cameron Middle School / High School for Marshall County Schools (MCS). This is a 270-student High School, to which a 155-student Middle School program and a HS-level Agricultural Sciences program are added; total school capacity is 425 students attending grades 6 thru 12. This facility was designed with potential LEED Silver Certification, incorporating sustainable, "green" concepts. The facility will be serviced by four parking areas, a bus loop, and associated drainage control structures. In addition to the main facility, the school will include two greenhouses which will service the Agricultural Science vocational program, as well as an Exergaming and Wellness Center. The Agricultural Science programs include Horticulture, Meat Processing Labs, and Agricultural Mechanics. The proposed site has been selected based on economic viability as well as its location adjacent to existing athletic facilities.

The plan has incorporated green design practices such as a predominately south facing orientation, extensive use of daylighting, and inherent thermal mass of the earth for passive heating & cooling. **The Chilled Beam HVAC System will be the first of its kind in the state.** The school is designed so that the building itself is used as a retaining wall in the hill, allowing the school to be built in agreement with the existing topography. MCS has made an extensive effort to make the school both economically feasible and environmental sensitive.

The Exergaming and Wellness Center will be available for both student and public use. The new facility is designed with better security for students and will be configured as a local "safe center" to be utilized by the community during times of natural disasters or possible terrorist actions. This school will not only benefit students and parents, it will contribute to the community as a whole.



# MANAGEMENT AND STAFFING CAPABILITIES

In the past 30 years we have extensive experience with similar projects. The technical depth of our professional staff indicates that this project can be accomplished without overloading our group or computer graphics systems. 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 fifteen years together at McKinley & Associates.

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.

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.

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, fire and life safety design by a Fire Protection Engineer. The Professional Engineers (PE) 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 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.

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 13 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.

# RESOURCES

Our firm utilizes a state of the art computer system, which allows all professionals to access the central computer server based in the Wheeling office. This system is operated by a full time MIS Director, who is responsible for daily backups and maintains the system integrity as to security and working efficiency. We are always connected to the internet.

Here is a partial list of our software we use:

ACT! 2000  
Adobe Acrobat 9.0 Professional  
Adobe Creative Suite 3 Design Premium  
AIA Contract Documents Electronic Format  
Architectural Graphic Standards V 3.0  
ASCE Standard  
Autodesk Autocad Architecture 2011  
Autodesk Autocad MEP 2011  
Autodesk Autocad Civil 3D 2011  
Autodesk Ecotect Analysis  
Carmel Design Build 4.0  
Climate Consultant 3  
COMcheck 3.2.1  
Corel Draw 12  
Cummins Power Suite  
Deltek Vision  
Dreamweaver  
EELabs 3.1  
Enercalc 5.6  
eQUEST 2.02  
HAP 4.34  
Lite Pro  
Macromedia Freehand 8  
Masterspec  
Microsoft Office 2007  
Ram Advantage 6.0  
Storm Water detention/Retention Design Tool  
Sweet's  
USPS Building Design Standards

For all of our Clients we require a set of Operation & Maintenance Manuals be submitted as Close-out Documents. Often a videotaped demonstration of the instruction session(s) for each piece of equipment is required for future reference by the Owner's staff. Equipment specific Maintenance Agreements can be incorporated into the construction documents if the Owner believes staff availability might be sporadic. Also, testing, adjusting and balancing are provided by a third party entity to insure proper operation of MEP equipment. The Eleven-Month Walk-thru is specified to follow-up on the status of the completed work and to make it possible to review equipment maintenance and operation before the warranties expire. Lastly, modern HVAC systems have electronic monitoring options so that alerts are issued immediately upon detection. In addition, third party monitoring agreements of HVAC systems and Security Systems can be specified.

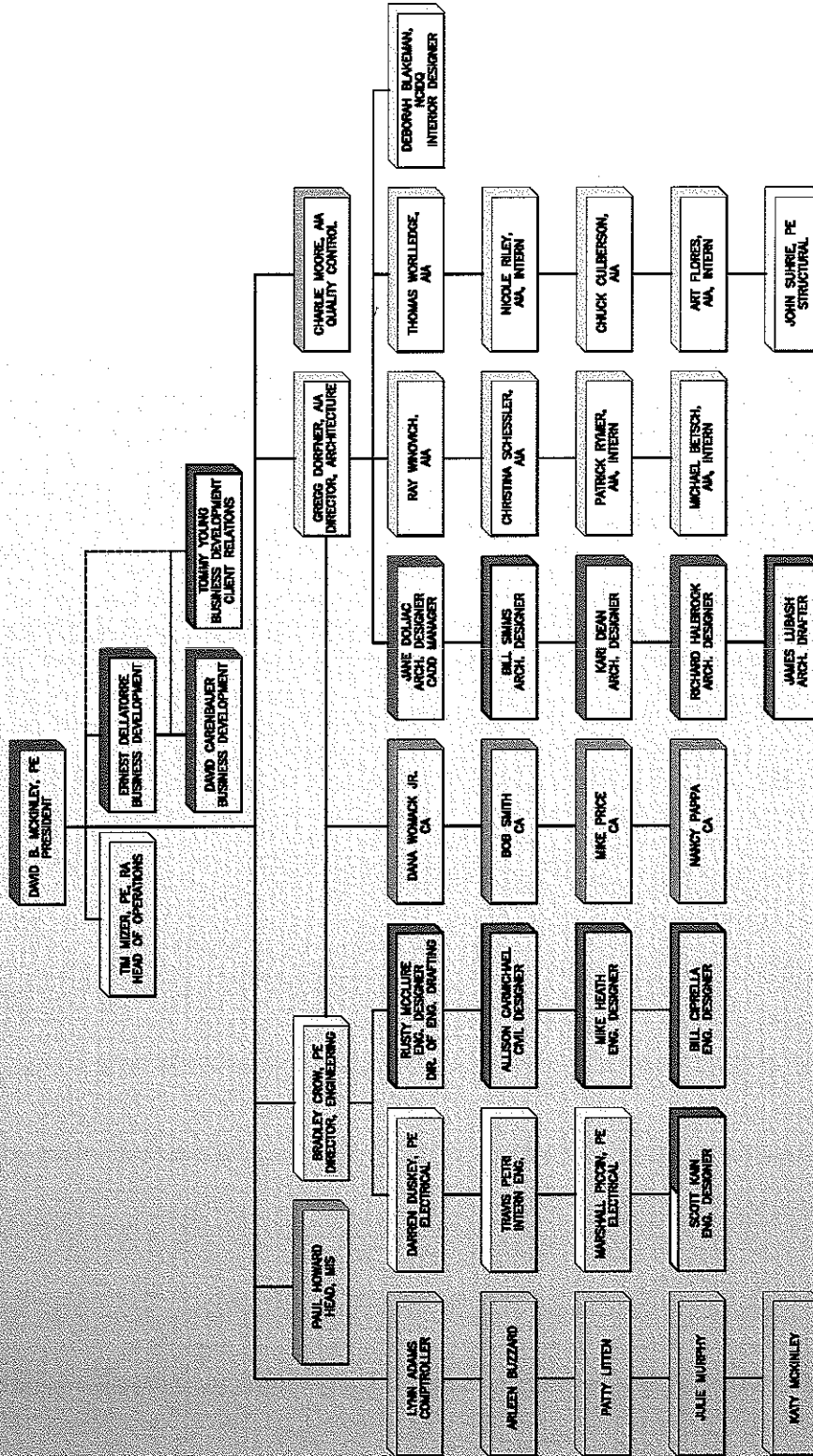
The time frame expectation for Project Closeout is defined in the front end of the Project Manual in the Specifications so that the contractors are aware of the requirements before submitting a bid. Our Construction Administrators monitor progress during the project and verify that closeout documents 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.

# ORGANIZATION CHART

REVISED 11-9-2009



## ORGANIZATION CHART



# Mechanical Engineer / LEED Accredited Professional **BRADLEY A. CROW, PE, LEED AP**

## Director of Engineering Services



### EDUCATION:

West Virginia Institute of Technology  
B.S. Mechanical Engineering

### PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

Registered Engineering in:  
West Virginia  
Pennsylvania

LEED® Accredited Professional

### PROFESSIONAL EMPLOYMENT:

McKinley & Associates  
Director of Engineering Services  
Wheeling, WV (2005 to present)

BDA Engineering  
Design Engineer  
Pittsburgh, PA (2001-2005)

Tri-State Roofing  
Sales Engineer  
Davisville, West Virginia (2000-2001)

Ravenswood Polymers  
Site Engineer  
Ravenswood, West Virginia (1997-2000)

### SUMMARY OF EXPERIENCE:

Mr. Crow is an exciting and innovative Engineer who is on the cutting edge of his profession, being both a Professional Engineer as well as a LEED® Accredited Professional. His passion for his work translates into incredible design for his clients. His broad experience includes design for HVAC and plumbing for educational facilities, office buildings, shopping centers, apartment buildings, and other commercial and institutional facilities. Brad also has experience as a Site Engineer and Sales Engineer, which provides an unique understanding for problem solving.

### NOTABLE PROFESSIONAL EXPERIENCES:

#### Mechanical Engineer

Southwest Cancer Institute Treatment Center (50,000 SF)

River Cancer Center / New Jersey

Illinois Cancer Center

Utah Cancer Center

Monroeville MRI

Marshall County Schools - Sherrard HVAC

Summers County Middle School HVAC

Wetzel County Schools - New Martinsville HVAC

Wood County Schools (\$63+ million renovations)

WVU Colson Hall Renovations

WVU State Fire Training Academy / Jackson's Mill

West Virginia Army National Guard (WVARNG) - Multi-Purpose Building at Camp Dawson

WVARNG Mountaineer Challenge Academy

USPS - Charleston P&DC HVAC Renovation

USPS - Clarksburg Chiller Replacement

California University of PA (2-170 Bed Dorms). Geothermal Heating & Cooling System

Independence Hall HVAC

Wheeling Island Fire Station

Mt. Lebanon Municipal Building renovation (70,000 SF)

# Architectural Engineer / Architect

# TIM E. MIZER, PE, RA

## Director of Operations

### EDUCATION:

Kansas State University  
B.S. Architectural Engineering - 1983

University of Cincinnati  
Architecture

### PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

#### Registered Engineering in:

West Virginia  
Ohio

#### Registered Architect in:

Ohio

### 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:

A very talented and unique professional who is registered both in engineering and architecture. Mizer's background as an Architectural Engineer has provided him with a total understanding of the engineering components which provides a cohesiveness on all of his projects. Being also a Registered Architect, he understands designing to allow for the engineering disciplines, including his responsibility of project management and design. Mr. Mizer is the Head of Operations for the company.

### NOTABLE PROFESSIONAL EXPERIENCES:

#### Project Coordinator

Marshall County Schools (38+ mil.)

#### Design Engineer

West Virginia State Police - new detachments in Morgantown, Wheeling and Berkeley.

Also surveyed, reviewed, projected, budgeted, and documented 72 police facilities statewide

#### Site Engineer

Hancock County Middle School - new building & site

#### Site Engineer

WVU Fire Academy - new building & site

#### Project Architect / Engineer

Hope VI Phase II - new building development

#### Design Engineer

Barnesville (OH) Schools - new buildings

#### Design Engineer

Wheeling Island Casino - various projects

#### Design Architect / Engineer

USPS - designed over 100 Post Offices throughout West Virginia for ADA compliance

#### Design Architect / Engineer

USPS Clarksburg - MPO Renovation to historic building  
Work also included HVAC and cooling tower

#### Design Engineer

WV Army National Guard - Mountaineer Challenge Academy

# Electrical Engineer

# DARREN S. DUSKEY, PE

## EDUCATION:

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

Marshall University  
Graduate courses in Engineering

## PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

**Registered Professional Engineer in:**  
West Virginia  
Ohio  
Pennsylvania

## 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 15 years of experience in the industrial, commercial, institutional, and educational markets with projects ranging from State Police detachment offices, electrical design of 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

Wetzel County Hospital (*Addition and renovation*)

Marietta Memorial Hospital (*Addition and renovation*)

WVSP Headquarters (*Upgrade electrical service*)

WVSP detachment in Berkeley County (*Upgrade electrical service, renovations*)

United States Postal Service - statewide post offices

West Virginia State Building in Weirton, WV

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

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

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

WVU State Fire Training Academy in Jackson's Mill, WV

Chapmanville Regional High School - Logan County Schools (*New school service, electrical design*)

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

Weir High School - Hancock Co. Schools (*Upgrade electrical service*)

West Virginia Northern Community College - The Education Center (*Upgrade electrical service, renovations*)

Parkersburg High School - Wood County Schools (*Upgrade electrical service, including medium voltage distribution, and renovation work*)

Parkersburg South High School - Wood county Schools (*Upgrade electrical service, renovations*)



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# Architect / LEED Accredited Professional

# CHRISTINA SCHESSLER, AIA, LEED AP



## EDUCATION:

The Pennsylvania State University  
Bachelor of Architecture - 1986

## PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

### Registered Architect in:

West Virginia  
Pennsylvania  
Ohio

### NCARB Certificate - 2005

### LEED® Accredited Professional

### Member:

American Institute of Architects  
City of Wheeling - Building Codes Board  
of Appeals

### Former Member, Board of Director, & Treasurer:

The Midwife Center for Birth & Women's  
Health / Pittsburgh, PA

## PROFESSIONAL EMPLOYMENT:

McKinley & Associates  
Wheeling, WV (2004 to present)

MacLachlan, Cornelius & Filoni Architects  
Pittsburgh, PA (1999-2004)

Perfido Weiskopf Architects  
Pittsburgh, PA (1996-1999)

T.L. Cox & Associates  
Beaver, PA (1990-1996)

Valentour-English Bodnar Architects  
Mt. Lebanon, PA (1989-1990)

Kenny Williams & Williams Building Diagnostics  
Maple Glen, PA (1988)

## SUMMARY OF EXPERIENCE:

Ms. Schessler has 20 years of experience working one on one with a wide range of educational, professional, liturgical, medical and commercial clients. She is adept at developing space and utilization programs with clients who are unfamiliar with the architectural design process. Christina can provide direction to Clients who wish to develop a design and document program that is intended to achieve LEED Certification. Her skills include construction document preparation, consultant coordination and construction administration experience. As a volunteer and as a professional, Ms. Schessler has developed several projects for non-profit agencies on limited budgets.

## NOTABLE PROFESSIONAL EXPERIENCES:

### Project Architect

Beaver Valley Burn Building site development  
Valley Ambulance addition  
Bethany College Health and Wellness Center, renovation  
The Beaver County Medical Center, Women's Health Center  
The Beaver County Medical Center, Rheumatology Expansion  
Braxton County Senior Citizen Center  
Wheeling Island Fire Station  
WVU Fire Training Academy / Jackson's Mill, WV  
Grant County Schools / Multiple Projects  
New Hope Youth Home addition / Beaver, PA  
City Theatre, Storefront Restoration / Pittsburgh, PA  
Passavant Memorial Homes, Kohler Hall Renovation

### Architect

The Midwife Center for Birth & Women's Health, Birthing Suites / Pittsburgh, PA (**Non-Profit**)  
Master Plan study for DePaul Institute for the hearing impaired  
Indiana University of PA, Uhler Hall Additions and Renovations

### Project Designer

United Cerebral Palsy Center, renovations and additions / Washington, PA (**Non-Profit**)  
St. Clair Hospital, Woman's Breast Cancer Health Clinic  
Children's Home of Pittsburgh, interior renovations (**Non-Profit**)

# Architect / LEED Accredited Professional

# THOMAS R. WORLLEDGE, AIA, LEED AP, REFP

## Charleston Office Area Manager



### 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  
Virginia  
Pennsylvania  
Ohio

#### National Board Certification:

NCARB #48600

#### President:

West Virginia Society of Architects

#### Member:

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

#### Former voting member:

ASHRAE 90.1 International Energy Code  
Committee

### PROFESSIONAL EMPLOYMENT:

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

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

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

TAG Architects  
Charleston, WV (1985-1990)

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

### SUMMARY OF EXPERIENCE:

Thomas R. Worlledge is a skilled Architect with over 20 years experience who has received state wide design awards and placed in national design competitions. As a recognized sustainable design expert, he has had articles published in state and national trade publications, spoken before architectural students, ASHRAE chapters, and business groups on sustainable design issues and was also a featured speaker at the 2001 Governor's Conference on the Environment and the 2001 Sustainable fair. Mr. Worlledge is a former voting member of the ASHRAE 90.1 Standards committee that forms the basis of the International Energy Code and is the president of the state chapter of the AIA.

### NOTABLE PROFESSIONAL EXPERIENCES:

#### VAMC Addition/Renovation, Huntington, WV

Addition to replace all the clinical areas, renovation of the original hospital into hospital rooms, and the addition of medical air and vacuum systems. A total of 192,600 SF combining new addition and renovation of an existing VA Hospital. These additions and renovations cost \$47 million.

#### VAMC Addition/Renovation, Clarksburg, WV

Addition to replace all the clinical areas and renovation of the original hospital into hospital rooms. The clinical addition includes an emergency room, surgery and recovery suites, a 15-bed ICU, an expanded clinical laboratory, a modernized imaging service that includes CT scan and diagnostic nuclear medicine capabilities, and inpatient and outpatient pharmacies. The primary care outpatient clinics are supported by specialty clinics for oncology, mental hygiene, PTSD, urology, surgery, dermatology, optometry, and otolaryngology.

#### VAMC Addition/Renovation, Beckley, WV

A 14,000 SF renovation project of the Oncology Center including a first floor build out, a second floor structure without finishes, and a foundation system and structural system to support the third floor of the Oncology Suites / Security Police Suites (2003). Also, the renovation of the recovery area for out patient surgery at Wing 5 West's Same Day Surgery Center and an addition for Specialty Clinics. These projects included a renovation of the central computer room and motion-sensing lighting controls (2005).



**McKINLEY & ASSOCIATES**  
ARCHITECTS • ENGINEERS • INTERIOR DESIGN

LEED Accredited Professional

**MICHAEL S. BETSCH, LEED AP**



**EDUCATION:**

Drexel University (Philadelphia, PA)  
Bachelor of Architecture - 2007

Delaware Technical and Community College  
Associate, Architectural Engineering - 2000

**PROFESSIONAL AFFILIATIONS  
AND REGISTRATIONS:**

U.S. Green Building Council

LEED® Accredited Professional

**PROFESSIONAL EMPLOYMENT:**

McKinley & Associates  
Wheeling, WV (2008 to present)

Stantec Architecture  
Wilmington, DE; New York; and Vancouver  
(2007-2008)

The Breckstone Group  
Wilmington, DE (2006-2007)

Stalkos Associates Architects  
Wilmington, DE (2000-2006)

**SUMMARY OF EXPERIENCE:**

Mr. Betsch's project experience includes new construction as well as renovation of existing structures. Projects types include government, liturgical, private high security, educational, office, retail, institutional, residential, and historic preservation.

Mr. Betsch has proven success working with highly intricate project delivery scenarios such as phased renovations to active mission critical command and control centers, and modernization of highly publicized actively used government historical centers such as New York City's City Hall. With over 8 years of experience Mr. Betsch has had the opportunity to work for a varied group of clients in the US, Canada, and the Middle East. These clients have included Foreign Governments, Integrated Defense Providers, State and local governments, Historic Societies, Educational Providers, Public and Private Corporations, Condo Associations, and Private Home owners. As a LEED® Accredited Professional Mr. Betsch works to bring sustainable design solutions to work for the benefit of his clients and the community.

**NOTABLE PROFESSIONAL EXPERIENCES:**

**Arkansas Emergency Operations Center / Little Rock, AR**  
Programming, master planning, and design development documentation for this statewide emergency operations center

**Burnaby Mountain Sports and Medicine Center / Simon Fraser University in Vancouver, British Columbia**  
Design charette for a new facility which includes a roof top soccer field, clinics, offices, a field house, retail, grocery store, and aquatic center with an Olympic sized swimming pool

**Pelleport Wellness Center / Wilmington, DE**  
Schematic and design development for adaptive use of a historic carriage house for use as a wellness center with aquatic therapy suite

**Montgomery County Emergency Operations Center / Montgomery County, MD**  
Programming, planning, design and contract documents for a 10,500 SF multimedia operations theater for 45 responders with support spaces, media briefing, etc.

**Montgomery County Emergency Communications Center / Montgomery County, MD**  
Programming, master planning, design and preparation of contract documents for a 57,000 SF emergency communications facility

**Connections / Smyrna, DE**  
Renovation and expansion of a halfway house serving mentally challenged and addiction rehabilitation patients

# Construction Administrator

# MICHAEL L. PRICE

## EDUCATION:

Belmont Technical College  
Certified Surveyor

Licensed E.I.F.S. Technician

## PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

### Member:

Wheeling Central Catholic Boosters  
Our Lady of Peace Church  
O.L.P. Basketball Coach

### Vice President:

Circus Saints & Sinners

### Former President:

Mt. Olivet Baseball Association

## PROFESSIONAL EMPLOYMENT:

McKinley & Associates  
Project Coordinator  
Wheeling, WV (2009 to present)

Wheeling Hospital  
Project Administration Carpentry Dept.  
Wheeling, WV (2006-2009)

Main Street Bank  
Foreclosure Property Inspector  
Wheeling, WV (2003-2009)

Michael Price Construction, LLC  
Owner  
Wheeling, WV (2004-2007)

J.D. Fletcher Construction  
Foreman, Supervisor and Estimator  
St. Clairsville, OH (1989-2004)

National Road Utility Company  
Sales, Product Inventory and Delivery  
(1987-1989)

Real Contracting and Drywall  
Framer, Finisher  
(1985-1987)

## SUMMARY OF EXPERIENCE:

Mr. Price has 26 years of experience in residential and commercial construction, and his previous job was a Project Administration for the Carpentry Department at Wheeling Hospital. He was a project administrator for the Wheeling Hospital Cancer Center, Wheeling Hospital Children's Rehab Center, Wheeling Hospital Breast Center Expansion, Wheeling Clinic Visiting Nurses Association (VNA) Expansion, and the Howard Long Wellness Center renovation to name a few health care clients. He will bring the following expertise to your projects: Qualified in commercial building in medical environment; Responsible for scheduling and project completion; Supervisor over employees and subcontractors; Management experience as job superintendent and owner; Quality control of all trades; Maintained good working conditions and safety standards according to building codes; Close work with architects, project managers in print takeoff and redesign; Performed purchasing and inventory of construction project materials; Experience in bidding and estimating; Excellent communication skills, works extremely well with employees and customers, highly dependable and responsible; Highly skilled in framing and finished carpentry, synthetic stucco, all types of drywall work; Qualified heavy machine operator such as skid steer and backhoe, etc.; Qualified residential housing inspector for Main Street Bank; and finally, Technical experience in plumbing and electrical.

## NOTABLE PROFESSIONAL EXPERIENCES:

### Construction Administrator for:

West Virginia Independence Hall renovations

Capitol Theatre building renovations

Pedestrian Bridge - West Virginia Northern Community College

J.B. Chambers Performing Arts Center at Wheeling Park High School - Ohio County Schools

Madison Elementary - Ohio County Schools

The Highlands Public Services Center

Community Action Southwest Senior Center

Maysville Elementary - Grant County Schools

New Martinsville Elementary - Wetzel County Schools

### Project Administrator for:

Wheeling Hospital - Cancer Center, Children's Rehab Center & Breast Center Expansion

Wheeling Clinic - Visiting Nurses Association (VNA) Expansion

Howard Long Wellness Center renovation



**McKINLEY & ASSOCIATES**  
ARCHITECTS • ENGINEERS • INTERIOR DESIGN

# CONSTRUCTION ADMINISTRATION & ON-SITE REPRESENTATION

**Observe the Construction Progress**

**Liaison between the Owner, Contractor, and Architect**

**Responsible for All Construction 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 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.

# PROJECT APPROACH & PERFORMANCE DATA

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 West Virginia Department of Health and Human Resources, the Bureau for Health and Health Facilities.

The most important element of the entire process becomes communication from you. We use and welcome your input throughout these projects.

The services we provide are different than most others. With our 40+ member 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, Fire and Life Safety design by a Fire Protection Engineer. The Professional Engineers (PE) are not only "In-House," we also have depth in numbers of each discipline in our firm. Our Architectural staff provides you with an exceptionally talented group that will walk you through your project to competition. Day by day, side-by-side, our architects and engineers provide a daily cohesiveness to your project.

Our Quality Assurance Program starts with our 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.

The firm uses a number of different cost estimating procedures depending on the type and size of project. Our ability to design within budget is shown in the following, which represent some of our recently bid projects:

<u>PROJECT</u>	<u>BUDGET</u>	<u>ACTUAL</u>	<u>DIFFERENCE</u>
Maxwell Centre	\$1,800,000	\$1,734,000	-3.81%
Weirton State Building	\$4,291,000	\$4,083,000	-5.09%
WV Northern Annex	\$7,900,000	\$6,850,000	-15.33%
WV Northern Phase II	\$1,200,000	\$1,194,000	-0.50%
Hancock Co. Schools	\$11,000,000	\$11,260,000	+2.36%
Wood Co. - Williamstown HS	\$11,635,000	\$11,253,000	-3.39%
Ohio Co. Schools	\$2,800,000	\$2,675,000	-4.67%
Wheeling YMCA	\$2,200,000	\$2,100,000	-4.76%
WVU Colson Hall	\$5,400,000	\$5,500,000	+1.85%
Central Elementary	\$3,037,000	\$3,017,000	-0.66%
John Marshall Fieldhouse	\$3,755,000	\$3,518,000	-6.73%

# QUALITY CONTROL

Quality control at McKinley & Associates, Inc. is a constant process which begins with the initial project activity and continues through document submissions, construction and owner occupancy. The longevity and size of the firm and our history of success completing complex and innovative projects is founded upon our commitment to this process.

During the design phases all personnel become fully versed in the client's program, project requirements and design standards. The design team is responsible for identifying for the client any potential conflicts between program criteria and design standards and resolving those conflicts to the client's satisfaction.

As the schematic/concept plans are developed, the Project Manager typically presents the plans for review and comments to a plan group depending on the nature of the work; e.g. engineers commenting on the engineering and architects critiquing the architecture. Once a consensus is reached, the plans advance in the process.

Prior to the completion of each phase, a set of project documents is issued to each discipline and consultant for coordination, cross-checking and review. The following items are checked at that time:

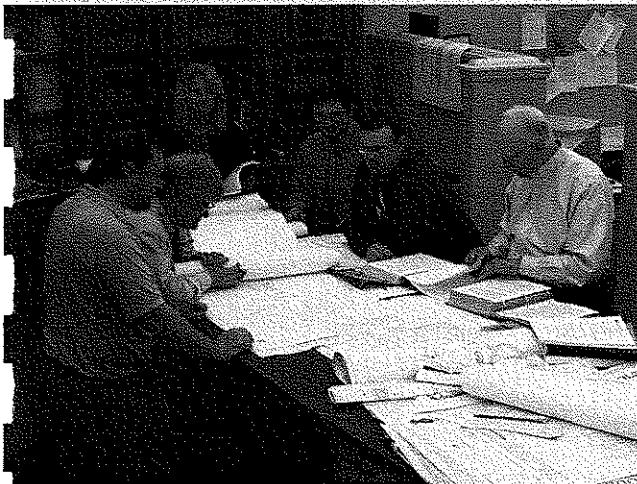
- Drawings and specifications for program compliance.
- Drawings and specifications for internal coordination.
- Cost effectiveness of the design.
- Drawing accuracy.
- Compliance with appropriate codes and client standards.

After coordination check corrections are completed, the project architect reviews the documents and compares the completed documents with check prints to verify that corrections have been made in accordance with the project design criteria. A final review is made by the principal-in-charge.

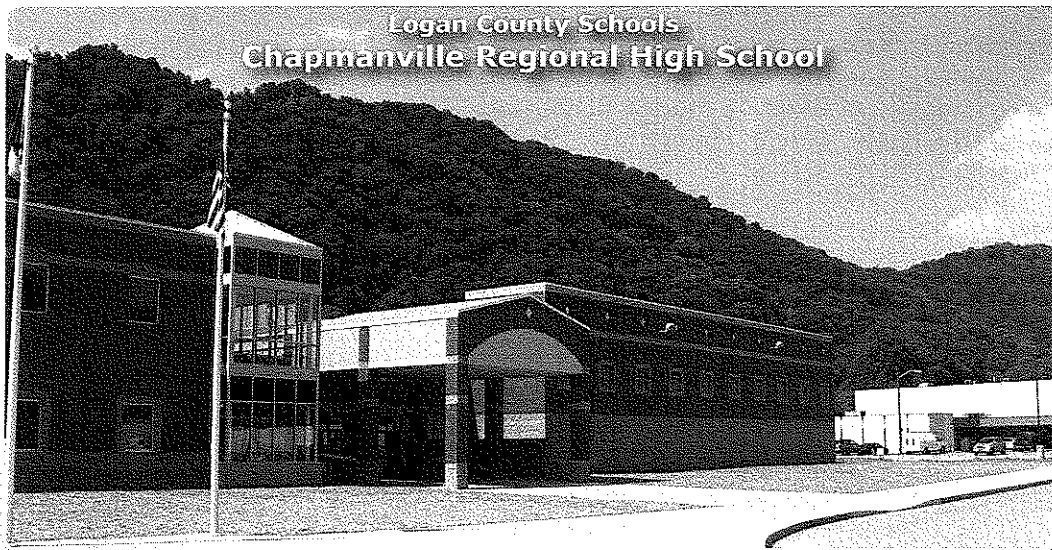
During the subsequent phases of design, all items are checked by persons other than those performing the daily design work in order to provide fresh insight. Prior to the final release of the documents, revisions are checked by the project manager and appropriately referenced on the drawings. Copies of the final documents are distributed to the client and consultants for final review and approval. Comments are incorporated into the documents prior to issuance for bidding and construction.

Bid documents are issued after a final check to verify that all bid packages have current revisions included and are appropriately identified. Bid sets are numbered and registered to bidders so that each bidder may be kept informed of clarifications and addenda.

During the construction, the processing of shop drawings and submittals is controlled and monitored by the project manager. The standard turnaround for the receipt, logging, review and return of submittals is 10 working days. Complicated or specialized submittals may require additional time. Urgent items can often be expedited to satisfy the construction schedule.



# COST EFFECTIVE DESIGN



- **Most Cost Effective New School Design in the Past 4 Years**
- **CRHS's final price ~ \$158.41/SF – source: SBAWV (includes site development, building construction, and all FF&E)**
- **New High School State Average in 2005 ~ \$188.26/SF**
- **138,500 Square Feet**
- **Total Non-Owner Change Orders – 0.65%**
- **Official Dedication – June 1, 2007**



- **SBA's 2009 Limit on New Elementary School Design ~ \$217/SF**
- **Hilltop Elementary's final price ~ \$167/SF (includes site development, building construction, and all FF&E)**
- **49,700 Square Feet**
- **Total Non-Owner Change Orders – 0.83%**
- **Construction complete with potential LEED Silver Certification**





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

# Request for Quotation

RFQ NUMBER  
 HHR11047

PAGE  
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF  
 ROBERTA WAGNER  
 304-558-0067

VENDOR

RFQ COPY  
 TYPE NAME/ADDRESS HERE  
 \*709060537  
 McKinley & Associates  
 The Maxwell Center / Suite 100  
 32 Twentieth Street  
 Wheeling, WV 26003

SHIP TO

HEALTH AND HUMAN RESOURCES  
 OFFICE OF PROPERTY MANAGEMENT  
 VARIOUS LOCALES AS INDICATED

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/21/2010				

BID OPENING DATE: 10/21/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB	EOI	A&E SERVICES FOR LAKIN HOSPITAL CAPITOL IMPROVEMENTS		
<p>EXPRESSION OF INTEREST</p> <p>EXPRESSION OF INTEREST (EOI)</p> <p>PROFESSIONAL ARCHITECTURAL/ENGINEERING SERVICES</p> <p>THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF HEALTH AND HUMAN RESOURCES, IS SOLICITING EXPRESSIONS OF INTEREST TO PROVIDE ARCHITECTURAL CONSULTING AND ARCHITECTURAL &amp; ENGINEERING SERVICES FOR PRIORITIZING THE CAPITAL IMPROVEMENTS FOR LAKIN HOSPITAL, MILDRED MITCHELL-BATEMAN HOSPITAL, WILLIAM R. SHARPE, JR. HOSPITAL, WELCH COMMUNITY HOSPITAL, JOHN MANCHIN SR. HEALTHCARE CENTER AND HOPEMONT HOSPITAL, AS DEFINED PER THE ATTACHED.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO ROBERTA WAGNER VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, VIA FAX AT 304-558-4115, OR VIA EMAIL AT ROBERTA.A.WAGNER@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 10/05/2010 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE <i>Ernest Dellalano</i>	TELEPHONE (304) 233-0140	DATE 10/18/10	
TITLE Dir. of Business Development	FEIN 55-0696478	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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

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 McKinley & Associates  
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 Wheeling, WV 26003

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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICE SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED EOI MUST BE SUBMITTED TO:</p> <p style="padding-left: 40px;">DEPARTMENT OF ADMINISTRATION          PURCHASING DIVISION          BUILDING 15          2019 WASHINGTON STREET, EAST          CHARLESTON, WV 25305-0130</p> <p>PLEASE NOTE 6 (SIX) CONVENIENCE COPIES WILL BE APPRECIATED.</p> <p>THE EOI SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE EOI MAY NOT BE CONSIDERED:</p> <p>SEALED PROPOSAL</p> <p>BUYER: ROBERTA WAGNER-FILE 22</p> <p>EOI NO: HHR11047</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE <i>Ernst Dille</i>	TELEPHONE (304) 233-0140	DATE 10/18/10	
TITLE Dir. of Business Development	FEIN 55-0696478	ADDRESS CHANGES TO BE NOTED ABOVE	

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State of West Virginia  
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 Purchasing Division  
 2019 Washington Street East  
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# Request for Quotation

RFQ NUMBER:  
 HHR11047

PAGE:  
 3

ADDRESS CORRESPONDENCE TO ATTENTION OF:  
 ROBERTA WAGNER  
 304-558-0067

PURCHASING

RFQ COPY  
 TYPE NAME/ADDRESS HERE  
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 McKinley & Associates  
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SHIP TO

HEALTH AND HUMAN RESOURCES  
 OFFICE OF PROPERTY MANAGEMENT  
 VARIOUS LOCALES AS INDICATED

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/21/2010				

BID OPENING DATE: 10/21/2010 BID OPENING TIME: 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
EOI OPENING DATE: 10/21/2010 EOI OPENING TIME: 1:30 PM  PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR EOI: (304) 233-4613 ----- CONTACT PERSON (PLEASE PRINT CLEARLY): Ernest Dellatorre -----  ***** THIS IS THE END OF RFQ HHR11047 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Ernest Dellatorre</i>	TELEPHONE (304) 233-0140	DATE 10/18/10
TITLE Dir. of Business Development	FEIN 55-0696478	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

RFQ No. HHR11047

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**West Virginia Code §5A-3-10a states:** 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

**DEFINITIONS:**

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

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this 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.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: McKinley & Associates

Authorized Signature: *[Signature]* Date: October 18, 2010

State of West Virginia

County of Ohio, to-wit:

Taken, subscribed, and sworn to before me this 19 day of October, 2010.

My Commission expires August 16, 2020.

**AFFIX SEAL HERE**

NOTARY PUBLIC *[Signature]*

