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

**Sta West Virginia**
**Ce ized Expression of Interest**
**0 Architect/Engr**

**Proc Folder:** 198605

**Doc Description:** Addendum No. 2 - A/E r services for various projects

**Proc Type:** Central Purchase Order

| Date Issued | Solicitation Closes | Solicitation N | | Version |
|---|---|---|---|---|
| 2016-04-26 | 2016-05-05 13:30:00 | CEOI | DPS1600000001 | 3 |

**BID RECEIVING LOCATION**

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

**VENDOR**

**Vendor Name, Address and Telep umber:**

Omni Associates - Architec .
1543 Fairmont Ave., Ste.
Fairmont, WV 26554
304-367-1417

05/05/16 09:35:44
WV Purchasing Division

**FOR I ATION CONTACT THE BUYER**

Tar
(3 -2544
t e@wv.gov

**ature X** **FEIN #** 55-0747253 **DATE** 05/04/2016

**offers subject to all te s and conditions contained in this solicitation**

**ADDENDUM ACKNOWLEDGEMENT FORM**
**SOLICITATION NO.: CEOI DPS1600000001**

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

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

**Addendum Numbers Received:**
(Check the box next to each addendum received)

| | | | |
|---|---|---|---|
| [✓] | Addendum No. 1 | [ ] | Addendum No. 6 |
| [✓] | Addendum No. 2 | [ ] | Addendum No. 7 |
| [ ] | Addendum No. 3 | [ ] | Addendum No. 8 |
| [ ] | Addendum No. 4 | [ ] | Addendum No. 9 |
| [ ] | Addendum No. 5 | [ ] | 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 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.

Omni Associates – Architects, INC.
Company

Authorized Signature

05/04/2016
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

RFQ No. DPS1600000001

STATE OF WEST VIRGINIA
Purchasing Division

# PURCHASING AFFIDAVIT

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

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

**DEFINITIONS:**

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

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

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

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: OMNI ASSOCIATES – ARCHITECTS, INC.

Authorized Signature: _____ Date: 05/04/2016

State of WEST VIRGINIA

County of MARION, to-wit:

Taken, subscribed, and sworn to before me this 4th day of MAY, 2016

My Commission expires FEBRUARY 9, 2021.

**AFFIX SEAL HERE**

**NOTARY PUBLIC** _____

OFFICIAL SEAL NOTARY PUBLIC
STATE OF WEST VIRGINIA
ANGELA HAMMOND
RR2 Box 331 B Fairmont, WV 26554
My Commission Expires February 9, 2021

Omni Associates - Architects

May 4, 2016

WV Dept. of Administration, Purchasing Division
Tara Lyle, Buyer Supervisor
2019 Washington Street, East
Charleston, WV 25305-0130

Re: DPS1600000001

Dear Ms. Lyle:

**Omni Associates-Architects** is pleased to submit our Statement of Qualifications to the Department of Administration for architectural and engineering services for various projects for the West Virginia State Police. As an in-state firm we maintain an intimate familiarity with state-wide building codes, local contractors and the State Fire Marshal's Office.

Omni's experience with WV OASIS's contracting requirements for a variety of projects with multiple deliverables will provide expedient processing and allow the project to move forward immediately. Our most recent experience is as follows:

- West Virginia Department of Administration Maintenance Projects - 9 renovation projects divided into 6 bid packages which includes:
  - Roof replacements
  - Structural concrete repair
  - Settlement corrections
  - Drain and cast wall replacements
  - HVAC replacements
  - Elevator penthouse and lobby renovation

Our additional experience includes:

- Robert C. Byrd National Aerospace Education Center (34,755 square feet)
  - Roof Replacement of ballasted system to a fully adhered membrane system
  - HVAC Upgrades to replace 12 HVAC units
  - Water-Foam Fire Suppression installed in an Aircraft Hangar
- Fairmont State University Wallman Hall (57,000 square feet)
  - Mechanical and Electrical system complete upgrade and replacement
  - Waterproofing the existing structure with an EPDM system.

OMNI's project team will consist of **Harper Engineering, Allegheny Design Services,** and **Terradon Corporation**. Omni Associates shares a long history of successful project collaboration with these firms. We are a proven team uniquely qualified to offer you an efficient design approach, sustainable building systems, and a realistic design/construction schedule.

We look forward to an opportunity to meet with the selection committee to further discuss our experience and qualifications.

Best regards,
OMNI ASSOCIATES – ARCHITECTS, INC.

Richard T. Forren, AIA, NCARB
Principal

Omni Associates - Architects, Inc.
1543 Fairmont Avenue - Suite 201 • Fairmont, WV 26554
Voice: 304.367.1417 • Facsimile 304.367.1418

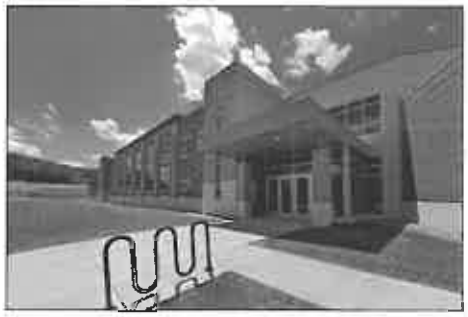
omniassociates.com
info@omniassociates.com

# West Virginia State Police
# Design Services for Various Projects

## Statement of Qualifications

**Omni Associates – Architects, Inc.**
1543 Fairmont Avenue, Suite 201
Fairmont, West Virginia 26554

Voice.304.367.1417
Facsimile.304.367.1418
Email: info@omniassociates.com
www.omniassociates.com



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omni associates ARCHITECTS

# General Qualifications

**OMNI ASSOCIATES - ARCHITECTS** is an award-winning architectural firm located in Fairmont, West Virginia. Our excellent reputation and superior work product are a direct result of mutual respect and effective communication with our clients and consultants, which enables our staff to provide outstanding architectural and engineering design services for our clients.

Since our inception in 1980, OMNI has earned recognition in the programming, planning, and design of a variety of facility types, including office buildings, recreational facilities, education facilities, religious facilities, health care, military, and multipurpose facilities.

Our approach to design has allowed us to avoid the confines of specialization and afforded us the opportunity to create a diverse body of work. Each project is a unique undertaking that begins with analyzing the needs and desires of the client and interpreting them into a distinctive design that meets specific needs and exceeds expectations.

Omni has a successful history of designing intimately with each client and working out collaborative solutions that meet the goals of the project, resulting in an impressive record of customer satisfaction. We are a proven team that listens, provides professionalism and attention to detail, and produces a quality product. These are qualities that draw our clients back, resulting in lasting relationships. That's why we enjoy a repeat client rate of more than 90% - a source of considerable pride.

Omni Associates – Architects' design team has developed designs for numerous projects which must comply with State and Federal regulations. Such projects include working with the following Agencies: Federal General Services Administration (GSA); WV General Services Administration; Corps of Engineers; National Guard Bureau; Federal Aviation Administration; Department of the Navy, Federal EDA; WV EDA; HUD, and the WV School Building Authority (SBA).

Our work has involved a variety of funding sources including the WV Development Office – Small Cities Block Grants, State Revolving Fund Loan, Rural Economic and Community Development Administration (Farmers Home Administration), WV Division of Environmental Protection – Construction Grants Branch, US Department of Commerce-Economic Development Administration, Water Development Authority, West Virginia Infrastructure and Jobs Development Council, and Appalachian Regional Commission, either individually or in combination.

Omni Associates provides clients with the results they value most: innovative designs consistent with the building program, cost effective designs which meet the budget, and efficient project management to provide on-time deliverables. We're confident of our reputation and expertise, and our clients are confident that they will receive superior services.

**Omni Associates—Architects, Inc.**
1543 Fairmont Avenue
Suite 201
Fairmont, WV 26554
304.367.1417 (voice)
304.367.1418 (fax)
info@omniassociates.com
www.omniassociates.com

**OWNERSHIP**
Professional Corporation

**HISTORY**
Established in 1980

**SENIOR PERSONNEL**

Stephen A. Barnum AIA, NCARB
Senior Principal

Richard T. Forren AIA, NCARB
Principal

John R. Sausen AIA, NCARB, LEED AP
Principal

David A. Stephenson
Principal

Edward A. Luthy AIA, NCARB
Principal



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Omni Associates - Architects provides comprehensive, in-depth professional architectural services for new construction, renovation, addition, and adaptive reuse utilizing a variety of delivery methods to best serve our clients' needs.

**Design-Bid-Build Delivery Method**
Omni has performed private and public projects of every building type using this traditional method of project delivery. We organize your entire project in advance of bidding and work extensively with you to achieve alternates to program goals. Construction documents are prepared and bid to multiple general contractors to achieve competitive pricing. Omni has successfully negotiated with contractors to maintain changes and costs to a minimum and still achieve the initial time schedule.

Omni has also worked on "fast-track" and "multiple-prime" contract projects to achieve an accelerated building construction time schedule. As a variation of the traditional design-bid-build delivery, the negotiated select team approach allows for selection of a contractor early in the design process. We prepare construction drawings in stages and bid these "parts" of the total building program so construction can be ongoing as the next phase is programmed and designed. We have worked with General Contractors, Construction Managers and multiple prime subcontractors to successfully complete this type of project delivery.

**Design-Build Delivery Method**
More and more owners and developers are seeking a simpler delivery style with a single point of responsibility for both design and construction. Under design-build, a consolidated entity provides both design and construction services to the owner. A single contract is established between the owner and the architect–contractor or design-builder. Omni has experience with both scenarios and has contracted with owners and with general contractors to achieve this streamlined method of project delivery for two West Virginia schools as well as numerous private Owners. Additionally, Principal Architect Richard T. Forren was recently appointed to the West Virginia Design Build Board.

**Construction Administration**
Omni has worked on projects for only the construction phase of the total building life. This would include projects designed by another firm who needs local supervision or a "pre-designed" project from a national restaurant or store, which requires local implementation. Omni has also performed bank or financing inspections to determine the completion status of the project for periodic applications for payment.

**Omni Associates—Architects**

Conceptual Design & Planning

Site Selection

Master Planning

Program Development

Renderings

Cost Estimation

Schematic Design

Design Development

Construction Document Development

Bidding & Negotiating

Construction Administration

Post-Contract Services

Facility Management Services

Feasibility Studies

Legal Consultation

Historical Restoration

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ARCHITECTS

# Proposed Project Team

Omni Associates – Architects carefully selects its project team based on each member's ability to add directly-related experience, ensuring our ability to meet the specific challenges and goals of each client. Our dedicated and experienced staff brings a unique level of ingenuity to every project. Omni has assembled a team of professionals who provide outstanding services for the specific needs of this project. Our proposed project team consists of **Omni Associates - Architects, Harper Engineering, Allegheny Design Services,** and **Terradon Corporation.**

**Omni Associates – Architects, Inc.**
Omni will provide the link to all communications with regard to interdisciplinary reviews, sub-consultant and contractor coordination, and state agency review and inspections, and will act as the control point to ensure that the Owner's goals and requirements are met. This is critical as project goals are typically not fixed but evolve throughout the design and construction process as new information is gained. It further ensures that operation and maintenance issues are incorporated into the design documents.

**Richard T. Forren AIA, NCARB**
In order to guarantee a constant level of dedication and commitment, it is Omni's philosophy and practice that a principal remains with the project from commencement to closeout. It is essential that a single individual be intimately involved in every aspect of the process to ensure the client's needs are being met in a timely and cost effect manner *and* that the Contract Documents reflect the intent as well as the content of the design.

**Richard T. Forren will serve as Principal-in-Charge** for your project. Mr. Forren has been Project Architect in charge of design and construction for Omni Associates – Architects since 1984. He received a Bachelor of Science degree in Civil Engineering Technology from Fairmont State College and achieved a Masters of Architecture from Virginia Polytechnic Institute and State University. He serves as a Colonel in the United States Army Reserves and is currently assigned to the Fifth United States Army as the Army's Emergency Preparedness Liaison Officer (EPLO) for West Virginia.

As a Principal-in-Charge and Project Architect, Mr. Forren's primary responsibility is to develop the overall concept of design by performing technical tasks which include: Project space programming; Schematic layout of functional spaces; Aesthetic design and development; Concept and coordination of building systems such as mechanical, electrical, plumbing and fire protection; Preparation of bidding documents and material specifications; Project management and Construction administration. These tasks are performed for a wide range of commercial projects that include master planning, land development, building construction and tenant build-out.

# Richard T. Forren AIA, NCARB

**PROJECT ASSIGNMENT**
Principal-in-Charge
Project Architect

**EDUCATION**
Master of Architecture
Virginia Polytechnic Institute, 1983

BS, Civil Engineering Technology
Fairmont State College, 1980

**REGISTRATION**
American Institute of Architects, Member
American Institute of Architects—West Virginia, Member
NCARB: National Council of Architectural Registration Boards
U.S. Green Building Council, Firm Membership
Associated Builders and Contractors Inc., Firm Membership
International Association of Emergency Managers, Member
Registered in West Virginia, Pennsylvania, Ohio, Kentucky, Florida, and New Jersey

**GENERAL EXPERIENCE**
- Project Architect in charge of design and construction for Omni Associates - Architects since 1984.
- Responsible for coordinating and designing all aspects of a project from programming through construction administration and project close-out.
- Previously employed by Robert J. Bennett AIA & Associates, Morgantown, West Virginia 1983 to 1984.

**RELATED EXPERIENCE**
- Colonel in the United States Army Reserves currently assigned to the Fifth United States Army as the Army's Emergency Preparedness Liaison Officer (EPLO) for West Virginia.
- West Virginia Design-Build Board
- City of Bridgeport Emergency Services Council
- Bridgeport City Planning Commission
- Member of the Faculty Advisory Committee for Civil Engineering Technology and Architectural Engineering Technology, Fairmont State College, Fairmont, West Virginia
- Previously a part time Instructor of Architecture at Fairmont State College, Fairmont, WV responsible for the instruction of senior level students in architectural construction and detailing.

## Select Project Experience

**New West Virginia State Office Complex**
*Fairmont, WV*

**Mon Power Regional Headquarters**
*Fairmont, WV*

**West Virginia High Technology Consortium**
*Fairmont, WV*
5000 NASA Boulevard
Allan B. Mollohan Innovation & Incubator Center

**West Virginia Army National Guard**
*Buckhannon, WV*
Armed Forces Readiness Center
*Fairmont, WV*
Armed Forces Readiness Center
*Eleanor, WV*
Armed Forces Readiness Center
Maintenance Facility
Access Road & Guard House

**Fairmont State University**
*Fairmont, WV*
Wallman Hall Renovations
Engineering Tech Addition and Renovations
Library Addition & Renovation
Feaster Center Addition & Renovation
Colebank Hall Renovation
Inner Campus Renovation
New Education and Health Sciences Bldg
Robert C. Byrd Aerospace Center

**Pendleton County Schools, WV**
Franklin Elementary School

**Harrison County Schools, WV**
Lumberport Elementary School
Lumberport Middle School

**Marion County Schools, WV**
West Fairmont Middle School
Fairmont Sr. High School Cafeteria

**City of Fairmont, West Virginia**
Public Safety Building
Municipal Complex

**General Services Administration**
Federal Building Renovations
*Wheeling, WV*
*Martinsburg, WV*
*Huntington, WV*
*Beckley, WV*

**Canaan Valley Institute Headquarters**
*Davis, WV*

# David E. Snider AIA

**PROJECT ASSIGNMENT**
Project Manager

**EDUCATION**
Master of Architecture
Virginia Polytechnic Institute, 2001

B.S. Engineering Technology *(Architecture)*
Fairmont State College, 1989

Associate of Applied Design *(Drafting and Design)*
Fairmont State College, 1989

**REGISTRATION / PROFESSIONAL AFFILIATIONS**
American Institute of Architects, Associates Member
American Institute of Architects—West Virginia, Associate Member
National Council Architectural Registration Board
U.S. Green Building Council, Firm Membership
Associated Builders and Contractors Inc., Firm Membership

**GENERAL EXPERIENCE**

- Joined Omni Associates in 1995.
- Practice has included diverse project types including primary, secondary, and higher-education education facilities, office buildings, health care facilities (including hospitals, clinics, and assisted living facilities), commercial design, multifamily and single-family housing, and manufacturing facilities.
- Extensive experience with the preparation of construction documents, material specifications, and bidding documents as well as construction administration.
- One of Omni's most effective project managers with a strong background in K-12 and higher education projects.
- Demonstrated skill and success in such notable projects as Lumberport Elementary School and West Fairmont Middle School as well numerous projects for Fairmont State College and the West Virginia High Technology Consortium Foundation.
- Mr. Snider has also developed solid credentials in historic restoration and adaptive reuse with Riverview at Clendenin and First Ward School Apartments.

**RELATED EXPERIENCE**

- Leadership Marion XXVI
- Vice President/Board of Directors of Dayspring Camp and Conference Center
- Former Deacon of Christ Community Church, PCA

**Select Project Experience**

New Construction:

- Lincoln Middle School
- Franklin Elementary School
- Mon General Hospital Medical Office Complex
- Lumberport Elementary School
- West Fairmont Middle School
- Genesis Youth Crisis Center
- WVHTCF 5000 NASA Boulevard Tenant Fitouts
- WVU Healthcare Cheat Lake Physicians
- Fairmont Senior High School Cafeteria
- Mylan Pharmaceuticals Manufacturing North Expansion
- Mylan Pharmaceuticals Warehouse

Fairmont State University:

- Wallman Hall Renovations
- Robert C. Byrd Aerospace Center Renovations
- Colebank Hall Renovations

Renovations:

- Christ Episcopal Church *Fairmont, WV*
- Gabriel Brothers Store *Bridgeport, WV*
- South High Station *Morgantown, WV*

Historical Restoration and Adaptive Reuse:

- First Ward Apartments *Elkins, WV*
- Riverview at Clendenin *Clendenin, WV*

Historical Restoration:

- Fairmont Senior High School Auditorium

**Harper Engineering**
**MEP Engineering Consultant**

Harper Engineering was founded in 2008 to provide innovative engineering design services to architects, owners and contractors throughout the state. The firm consists of a unique combination of proven experience and eager young talent that is prepared to serve all building systems design needs. The staff at Harper Engineering has a combined 80 years of experience working in a variety of fields including medical services, education, office, and industrial facilities. Harper Engineering's goal is to design optimized systems that meet all of the client's performance, energy use, and budgetary needs.

Harper's experience with historical renovation includes Riverview at Clendenin, First Ward School Apartments, and the Alpha and Bravo Building in Charleston, a $6,400,000.00, 50,000 square foot project that houses the Kanawha County Sheriff's Department and the Prosecuting Attorney's Office.

**Allegheny Design Services (ADS)**
**Structural Engineering Consultant**

Allegheny Design Services is a consulting engineering firm specializing in structural building design and building analysis. With over 25 years of experience, ADS provides all phases necessary for the successful completion of a building project from schematic design studies to construction administration. ADS currently utilizes Autodesk REVIT for the development of project work.

ADS consistently delivers projects up to $25 million in construction value. Building systems delivered by ADS include structural steel, reinforced concrete, precast concrete, and structural timber.

**Terradon Corporation**
**Civil Engineering Consultant**

Terradon Corporation offers a wide range of civil engineering and environmental services, and is regarded as one of West Virginia's leading land and infrastructure planning and design firms. Formed in 1989, its staff includes engineers, landscape architects, surveyors, land planners, environmental scientists, designers, and technicians.

Terradon has vast experience working in the challenging mountainous terrain of our state. Understanding that for the owner, time is money, the firm has built its reputation by providing cost effective design solutions and maintaining the highest level of customer service.

More information about our consulting engineers can be found in the tabbed sections following Omni's Statement of Qualifications.

# Management and Staffing Capabilities

Omni Associates - Architects firmly believes that the best gauge in determining our performance and abilities is the quality of the personnel of which we are comprised. Omni's greatest resource is our professional staff of dedicated, experienced, and creative individuals.

Our skilled team includes **7 registered architects**, intern architects, computer-aided design specialists, an interior designer, and knowledgeable administrative support staff. Their quality, expertise, and dedication integrate to produce the solid foundation upon which Omni has built its reputation.

OMNI organizes its staff into several teams or "studios." A specific project team is established for each commission. Studio resources are combined for larger projects. Younger staff members bring a fresh perspective and gain valuable knowledge under the guidance of more experienced staff. Utilizing this approach, we are able provide the human resources required for all types of projects, including large and complex projects.

The project team, including the principal-in-charge, actively participates in the project from start to finish. The same professionals who develop an understanding of your needs in programming generate design alternatives, oversee the production of construction documents, and implement the concepts during construction. The consistency afforded by this approach is a benefit to OMNI and you.

In reality, the OMNI project team goes beyond our in-house staff. It includes consultants, client representatives, owners, and a construction manager, as required. It is the mutual respect of each team member's skills and perspectives that enables the design process to conclude with a successful project of which we all can be proud.

Throughout our years of experience, we have worked with a variety of consultants specializing in structural engineering, civil engineering, mechanical and electrical engineering, and other disciplines as each project dictated. You can be assured that the consultants we select for your project are selected for their particular and relevant expertise as well as their superior work ethic.

In short, we carefully staff the design team, including in-house professionals and outside consultants, with the type of personnel we would want working for us to work for you

**Omni Associates -Architects, Inc.**

Omni Associates has successful project experience throughout the East Coast of the United States. Our architects are licensed in the following states:

Florida
Kentucky
Maryland
New Jersey
New York
North Carolina
Ohio
Pennsylvania
South Carolina
Virginia
West Virginia

Firm Memberships:

American Institute of Architects
U.S. Green Building Council
West Virginia High Technology Consortium
Marion County Chamber of Commerce

# Technical Expertise

## BIM: Building Information Modeling

Omni is committed to continually upgrading existing technology and driving the evolution of design tools. This commitment springs from the firm belief that the responsible use of technology facilitates innovative design, results in economic benefits for our clients, and assists in efficient communication with clients and consultants.

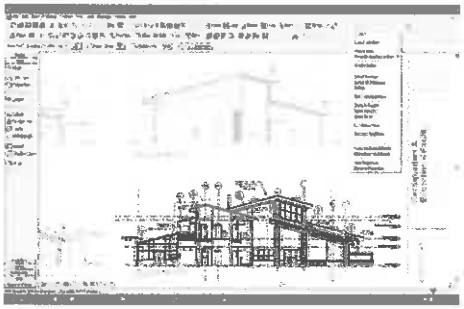
In 2006, Omni Associates began the transition from traditional CAD software to Autodesk® Revit® Building Information Modeling (BIM). We immediately recognized the basic benefits to both designers and owners: more efficient, cost-effective project delivery and an accurate building model that can later assist in energy analysis and building management.

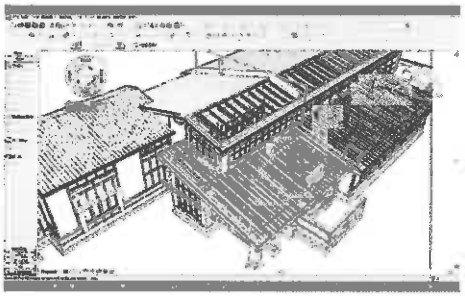
Omni implemented the use of BIM as our primary software platform for all projects in 2006. In utilizing BIM, we discovered the real depth of its value:

- With a virtual model of the building, clients can clearly see the design intent as the project progresses and design options can be explored with greater ease than ever before.
- Sharing the model among all disciplines as the design progresses allows early input from all of the design professionals involved, resulting in efficient designs.
- Creating a building in the virtual world before constructing it in the "real" world allows the design team to anticipate conflicts and objections before they arise, eliminating many issues which could result in project change orders or Requests For Information from the contractor.

Omni is proud to show that we don't just use Revit software, but we are adept at using it and can provide skilled support as needed. Omni staff member Reuben Losh is now an Autodesk Revit Architecture 2011 Certified Associate. Mr. Losh plans to test soon for the next level of certification, Autodesk Revit Architecture 2011 Certified Professional.

Obviously, using the latest computer software does not guarantee good design. Good design is built upon having a complete understanding of the client's needs and the knowledge & experience to create a space which addresses those needs in an elegant and practical manner. We see BIM as an advanced tool in making that goal a reality for each project that we undertake.





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omni associates ARCHITECTS

## Electronic Submission of Project Documents

Since 2007, Omni has utilized a web-based solution for secure file storage and project team collaboration. The site employs a simple and intuitive interface, similar to social networking sites, that is much easier to navigate than an FTP site. This encourages communication among team members while leveraging the security of data encryption and controlled access.

This tool supports building information modeling (BIM) workflows and can be used throughout all phases of a project for such tasks as file storage, RFI and Shop Drawing management, and project milestone tracking. Since these processes are electronic, the time it would take to mail or fax documents is eliminated and project information is centralized. Project information is hosted on secure third-party servers, which means that it is available to team members from wherever they have internet access. The Owner and Architect work together to determine to whom and to what extent site access is given.

### Case Study

Prior to its merger with First Energy, Allegheny Energy selected Omni Associates – Architects via a competitive selection process to provide all Architectural and Engineering services for its new transmission operations headquarters in Fairmont, West Virginia. Now the **Mon Power Regional Headquarters**, the environmentally friendly facility is located on a 9-acre parcel of land in the I-79 Technology Park.

Close communication was a critical part of this fast-track project with an aggressive design and construction schedule. Midway through the design process, the design team learned that the specialized technology for the building had advanced, prompting quick redesign work. The necessary changes could have greatly slowed progress, but because the design team was already utilizing collaborative tools such as building information modeling (BIM), electronic submission of project documents, and virtual meetings, impact on the project timeline was minimal.

### Bidding and Construction Administration Services

Omni provides construction administration services on all of the projects we undertake. We also provide full bidding services on all projects utilizing the traditional design-bid-build delivery method. We organize your entire project in advance of bidding and work extensively with you to achieve alternates to program goals. Construction documents are prepared and bid to multiple general contractors to achieve competitive pricing.

### Time and Budget

Omni has always provided timely performance on many aggressive schedules as well as funding constraints. We have successfully negotiated with contractors to keep change orders and costs at a minimum and achieve the initial time schedule.

### Occupancy, Commissioning, Permits and Plan Approvals

West Virginia codes have a major influence on the design of any building. A good working relationship with local and state building agencies is critical for a successful project. Omni has extensive experience with code compliance and we have enjoyed an exceptionally compatible working relationship with The West Virginia State Fire Marshal's office for over 30 years. Omni has made it a practice to have face-to-face reviews with the WVSFM, which provide valuable feedback and result in many hours saved during design and production.

## Cost Estimating

We take pride in our approach to solving our client's aesthetic goals while meeting budgetary constraints. Omni utilizes several methods of cost estimating to provide reliable cost of construction estimates for various construction types.

- Historical data from previous projects
- Construction-estimating periodicals such as *Means Square Foot Costs*
- Consultation with leading construction firms in the project region
- Professional cost estimators who evaluate a set of specifications and/or progress prints provided by our firm to determine estimated construction costs based on the project's specific location. For this project, cost estimation will be performed by **Blundall Associates**, a construction cost consulting firm with whom we've established a very successful working relationship over the past few years.

The combination of these resources provides reliable costs of construction for various building types.

| Project | Budget | Bid |
|---|---|---|
| WV Army National Guard<br>Armed Forces Readiness Center<br>Fairmont, WV | $23,210,000.00 | $22,800,000.00 |
| Lumberport Elementary School<br>Harrison County, WV | $10,000,000.00 | $8,600,000.00 |
| Mon Power Regional Headquarters<br>Fairmont, WV | $35,000,000.00 | $33,000,000.00 |
| Canaan Valley Institute Headquarters<br>Davis, WV | $5,900,000.00 | $5,154,000.00 |
| WVU Child Learning Center<br>Morgantown, WV | $5,700,000.00 | $5,485,000.00 |
| WV High Technology Consortium<br>5000 NASA Boulevard<br>Fairmont, WV | $18,339,281.00 | $16,331,589.91 |
| WVU Hospitals<br>North and Northeast Towers<br>Morgantown, WV | $36,000,000.00 | $35,000,000.00 |

## LEED® (Leadership in Energy and Environmental Design)

The LEED Green Building Rating System provides standards for environmentally sustainable construction. LEED Accredited Professionals demonstrate a thorough understanding of green building practices and principles and familiarity with LEED requirements, resources, and processes. Omni Associates currently has three LEED Accredited Professionals and one LEED Green Associate on staff.

A new headquarters for Canaan Valley Institute (CVI) near Davis, West Virginia completed construction in 2010. In accordance with CVI's mission, the Omni design team planned a "green" building that demonstrates environmentally friendly systems to visitors. The team utilized a number of "green" technologies and achieved its goal of LEED Silver certification.

Omni was also the Architect for the Mon Power Regional Headquarters in Fairmont, West Virginia. Completed in 2011, this project also incorporated LEED design features and is LEED Certified.

Also Certified:

- Charleston Professional Building—LEED Silver

Current LEED Project:

- GSA Fairmont Office Complex—Seeking LEED Silver under LEEDv3

Projects Designed to LEED Standards:

- WVARNG Fairmont Armed Forces Readiness Center—Designed to be LEED Certified
- WVARNG Buckhannon Armed Forces Readiness Center—Designed to be LEED Silver under LEEDv3

# Awards / Accolades / Publications

*Omni Associates - Architects has been recognized for outstanding architectural services by several highly regarded industry organizations:*

**First Ward School Apartments**
Elkins, West Virginia
***American Institute of Architects—West Virginia***
**2012 Merit Award for Achievement in Architecture**

***National Housing & Rehabilitation Association***
**2013 J. Timothy Anderson Award for Excellence in Historic Rehabilitation**
Category: Best Historic Rehab Utilizing LIHTCs – Small (Under $5 Million Development Costs)
with AU Associates

***Preservation Alliance of West Virginia***
**2013 Historic Preservation Award**
Category: Best Use of Historic Preservation Tax Credits
with AU Associates

**Mon Power Regional Headquarters**
*Fairmont, West Virginia*
***American Institute of Architects—West Virginia***
**2012 Merit Award for Achievement in Architecture**

***Associated Builders and Contractors***
**2011 Excellence in Construction Awards**
Category: Commercial $25 to $100 Million
with March Westin Company

**Jerry Dove Medical Office Building**
Bridgeport, WV
***Associated Builders and Contractors***
**2012 Excellence in Construction Awards**
Category: Healthcare Less than $10 Million
With March Westin Company
Category: Specialty Construction Under $1 Million
with Contracting Engineering Consultants

**General Services Administration Office Building**
Charleston, West Virginia
***Associated Builders and Contractors***
**2012 Excellence in Construction Awards**
Category: Federal Government Less Than $10 Million
with March Westin Company

**Twin Falls Resort State Park Lodge Addition**
Mullens, West Virginia
***Associated Builders and Contractors***
**2011 Excellence in Construction Awards**
Category: Commercial $5 to $10 Million
with Swope Construction

**Shaft Drillers International**
Mt. Morris, Pennsylvania
***Associated Builders and Contractors***
**2011 Excellence in Construction Awards**
Category: Specialty Construction Under $1 Million
with Contracting Engineering Consultants

**Riverview at Clendenin**
Clendenin, West Virginia
***Preservation Alliance of West Virginia***
**2011 Historic Preservation Award**
Category: Best Use of Tax Credits
with AU Associates

**Mon Power Regional Headquarters**
Fairmont, West Virginia
***Associated Builders and Contractors***
**2010 Excellence in Construction Awards**
Category: Specialty Construction Under $1 Million
with Contracting Engineering Consultants

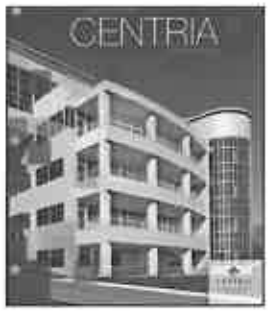
**Suncrest Towne Centre**
Morgantown, West Virginia
***Annual Varco Pruden Annual Hall of Fame Competition***
**2010 Best Of: Retail Category**
with Accelerated Construction

**Pierpont Corporate Center**
Morgantown, West Virginia
***Annual Varco Pruden Annual Hall of Fame Competition***
**2010 Best Of: Office Category**
with Accelerated Construction

## West Virginia High Technology Consortium
## 5000 NASA Boulevard

*CENTRIA 2009/2010 National Product Catalog*

**Cover Feature**



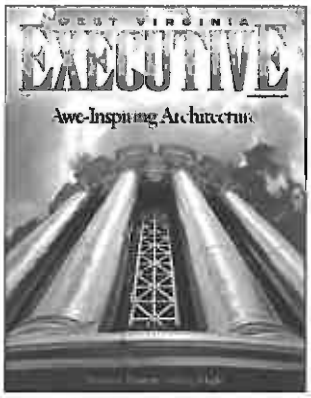

5000 NASA Boulevard was selected for the cover photograph of the CENTRIA 2009/2010 product catalog. Centria is a national leader in manufacturing architectural metal wall and roof systems.

## West Virginia High Technology Consortium
## 5000 NASA Boulevard

*West Virginia Executive Magazine*

VOULUME III 2008

**Featured as one of ten examples of "Awe Inspiring Architecture"**




"The new towers at the Technology Park in Fairmont, WV are an outstanding addition to an already exceptional park; the towers were put in place by the West Virginia High Technology Consortium Foundation (WVHTC). Site work began in the fall of 2005; the buildings themselves are approximately 130,000 square feet and cost $24 million with 95 percent of the workers coming from West Virginia. The buildings sport a 6,000-square-foot conference center that spans the top of the towers and connects the two buildings with 5,700-square-foot working balconies and 2,200-square-foot roof-top gardens.

The view from the conference room on the fifth floor is one of the best in the state with the ISR building, the NASA building and the Innovation Center all in view."

## Fairmont State University
## Engineering Technology Building Addition

*Master Builders' Association of Western Pennsylvania*

**2008 Building Excellence Award Finalist**

**Category: Best New Construction Over $10 Million**

The Design Alliance / Omni Associates - Architects
Landau Building Company (General Contractor)
Fairmont, West Virginia



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## Mid-Atlantic Sports Cars

*Annual Varco Pruden Annual Hall of Fame Competition*

**2009 Hall of Fame Award: Automotive Category**

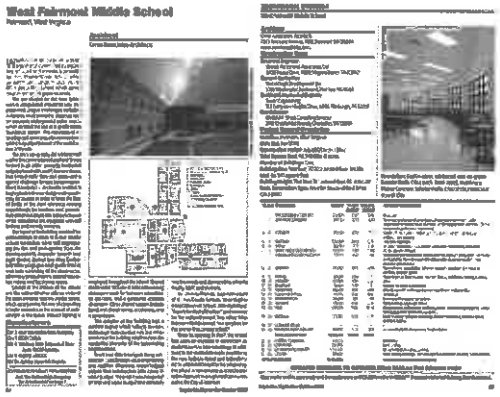
**2009 Best Of Category**

General Industries, Inc. (General Contractor)

## West Fairmont Middle School

*Published project: DCD Magazine (Design Cost Data)*

**September - October 2008**





## City of Fairmont Public Safety Building

*Main Street West Virginia*

**2007 Best Exterior Renovation Project**

Fairmont, West Virginia

## Mylan Pharmaceuticals Executive Offices

*American Institute of Architects—West Virginia*

**2001 Honorable Mention - Excellence in Design**

Morgantown, West Virginia

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**St. Bernard Chapel**
*American Institute of Architects—West Virginia*
**2008 Merit Award - Achievement in Design**
Snowshoe, West Virginia

**City of Fairmont**
**Public Safety Building**
*Main Street West Virginia*
**2007 Best Exterior Renovation Project**
Fairmont, West Virginia

**Mylan Pharmaceuticals**
**North Expansion**
*Associated Builders and Contractors*
**2007 Excellence in Construction Award**
**Category: Mega Projects: More than $100 Million**
MARCH-WESTIN CO. (General Contractor)
Morgantown, West Virginia

**Mylan Pharmaceuticals Executive Offices**
*American Institute of Architects—West Virginia*
**2001 Honorable Mention - Excellence in Design**
Morgantown, West Virginia

**Mylan Pharmaceuticals**
**East Wing Executive Offices**
*Associated Builders and Contractors*
**2001 Excellence in Construction**
MARCH-WESTIN CO. (General Contractor)
Morgantown, West Virginia

# References

Omni Associates realizes that our relationships with our clients is a vital component in the success of realizing their goals and needs. We encourage you to contact any of the following references in assisting you with your selection of a professional architectural firm.

**State of West Virginia**
1900 Kanawha Blvd., East
Bldg 1, Room MB-60
Charleston, WV 25305

**Mr. Bob Krause**
Architecture & Engineering
304.957.7143

**City of Fairmont**
200 Jackson Street
Fairmont, WV 26554

**Ms. Eileen Layman**
Finance Director
304.366.6212 Ext. 328

**WVARNG**
1705 Coonskin Drive
Charleston, WV 25311-1085

**LTC David P. Shafer**
Former CFMO
304-541-6539

**Braxton Co. Development Authority**
P.O. Box 1925
Charleston, WV 25314

**Ms. Terrell Ellis**
Executive Director
304.342.6972

**West Virginia HighTechnology Consortium Foundation**
1000 Technology Drive, Suite 1000
Fairmont, WV 26554

**Mr. Brad Calandrelli**
Facility and Property Program Mgr
304.366.2577 ext. 233

**Harrison County Schools**
408 E.B. Saunders Way
Clarksburg, WV 26554

**Dr. Mark Manchin**
Superintendent
304.326..7345

**First Energy**
Toledo Edison
6099 Angola Road
Holland, OH 43528

**Ms. Linda Moss**
President
800-447-3333

"...this (West Virginia High Technology Consortium) is indeed an important economic development project for West Virginia, and I wish to thank Omni Associates for the predominant role that they played in making this endeavor, as well as many other significant projects across the state, a reality..."

**Robert C. Byrd**
**United States Senate**

"In appreciation of all of your hard work, dedication, and technical support to the Eleanor Maintenance Complex, West Virginia Army National Guard. Your expertise has helped create one of the finest Maintenance Shops in the United States."

**Robert D. Davis, CPT, OD, WVARNG**
**CSMS Superintendent**
**Warren T. Huxley, LTC, EN, WVARNG,**
**Surface Maintenance Manager**

"Omni has been an integral part of this entire process. The architects worked quickly to assess our needs and develop the frame work for this building and worked closely with us to ensure the final product would be efficient as well as beautiful. The team environment encouraged a collaborative effort to meet our specific needs."

**Linda Moss**
**Project Manager,**
**Mon Power Regional Headquarters**

"You have been an excellent team player, and we surely appreciate the quality of the building (Fairmont State University Education and Health Careers Building) you helped develop."

**Robert J. Dillman**
**President**
**Fairmont State University**



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# West Virginia State Office Complex


Omni Associates—Architects was selected by the West Virginia General Services Division to provide all architectural and engineering services for a new state office building located in downtown Fairmont.

It was important that the new building fit within the context of the downtown area's historical buildings while reflecting an era of progress and new growth. To that end, the building's exterior features traditional brick and cast stone masonry integrated with insulated formed metal panels and an aluminum curtainwall.

The building will be occupied by eight state agencies and include offices for the Secretary of State. Programming services included interviews of the individual agencies to determine the specific requirements of each. Interior fitouts include a variety of user-specific spaces including training rooms, interview rooms, waiting areas, individual offices, large open offices, break rooms, and kitchenettes.

Omni also provided all necessary surveying of the site, and all existing infrastructure systems and material to determine appropriateness for construction. Pre-construction services also included the verification, coordination, and documentation of extensions, tie-ins, and relocations of all utilities as well as an extensive demolition package released prior to the new construction package.

In addition to compliance with all applicable local, State, and Federal regulations as well as ADA requirements, the Owner requested that the building be designed with the goal of achieving LEED™ Silver certification. Current calculations suggest the project could achieve LEED Gold.

**West Virginia State Office Complex**
Fairmont, West Virginia

Contact:
Mr. Robert P. Krause, PE, AIA
West Virginia General Services Division
1900 Kanawha Blvd. East
Building 1 Room MB-60
Charleston, WV 25305
304-558-9018

# City of Fairmont, West Virginia
# Public Safety Building

After nearly a decade of effort trying to modernize its 100-year-old public safety buildings, The City of Fairmont selected Omni Associates - Architects to help realize its goals.

Design services performed by Omni included the development of a building program and a site analysis study to determine the feasibility of utilizing an existing structure versus constructing a new structure on various sites recommended by Omni. Ultimately, the design team, including the Owner, decided to utilize an exisiting structure located at 500 Quincy Street in Downtown Fairmont. The building originally housed a department store, but had long since been vacant.

Development of the Building Program involved in-depth functional and spatial studies of all component spaces This required extensive discussion with the Police Chief, Fire Chief, and department heads as well as various police officers and firefighters. Many considerations were investigated and prioritized including design flexibility, public image, impact on downtown, maneuverability of fire apparatus, public zones, secure zones, and the image and morale of the officers and firemen. These considerations along with budget cost controls, construction materials and schedule combined to complete the total building design.

The 38,700 square foot renovated facility appropriately stands on a hill overlooking the entire Downtown Fairmont area. It houses the Fire Administration and Central Station of the Fairmont Fire Department, the entire Fairmont Police Department, and the Municipal Court as well as several administrative offices.

**Fairmont Public Safety Building**
City of Fairmont
Fairmont, West Virginia

Renovation and Adaptive Reuse
38,700 Square Feet
Construction Cost: $2,900,000.00

*Main Street West Virginia*
**2007 Best Exterior Renovation Project**

info@omniassociates.com 304.367.1417 www.omniassociates.com **Omni** Associates - Architects, Inc.

# George M. Jacobs Building

**George M. Jacobs Building**
312-316 Monroe Street
Fairmont, West Virginia

Exterior Restoration
Renovation and adaptive re-use of 5,000 sf of interior space.

The George M.Jacobs Building, located at 314 Monroe Street in downtown Fairmont, is listed on the National Historic Registry. Andrew C. Lyons designed the neo-classical structure, which was constructed in 1903. The five-story, nine bay structure was planned as a mixed-use building with the first floor intended as commercial space and the upper floors comprised of professional offices. In 1904, the Racket Department Store and The West Virginian Newspaper opened on the first floor. The building was also temporary offices for the City of Fairmont as well as the municipal court. The Union Business College occupied the 5th floor in late 1910, and in 1918, Hartley's Department Store, located in the adjacent Jacobs-Hutchison Block, expanded into the first floor and basement of the Jacobs Building, giving the store a Monroe Street entrance and an additional 10,000 square feet of space. A fire damaged the building in 1976 causing the second through fifth floors to be condemned.

Restoration efforts began in 2005 by the Marion County Commission. Omni Associates was selected to return the exterior facade back to its original condition as well as adapt approximately 5,000 square feet of interior space on the first and second floors for reuse and occupancy. The structure now houses the Marion County Sheriff's Department and Probation Office.

# Kanawha Valley Community and Technical College & West Virginia Higher Education Policy Commission

One goal of recent higher education reform is to create a stronger community and technical college system able to provide specialized industry training as well as general college level education curriculum. In order to better facilitate that vision, Kanawha Valley Community and Technical College needed a new Headquarter Building to serve as its flagship structure and provide state-of-the-art space for administration, student services, current program offerings and future program expansion.

Phase I of the project was an in-depth evaluation of the existing 196,800 sf Dow Chemical Building to determine its suitability for continued use as a community and technical college with office space for an existing tenant. The initial evaluation included building codes compliance, ADA accessibility, building envelope analysis, MEP analysis, an existing conditions report, and conceptual energy calculations. Phase II was the development of retrofit alternatives for the existing building to house KVCTC utilizing a revised 85,925 square feet program. Services provided included the development of base plans of the existing facility, schematic design alternatives, assisting the owner with selecting a preferred scheme, determining the scope of work, preparation of a preliminary construction cost estimate as well as a design and construction schedule.

One challenge with this project, which is currently under construction, is that the project funding is coming from two different sources requiring separate Schedules of Value and Applications for Payment. Additionally, the project is being constructed in three phases in order to rotate three separate tenants while space is being renovated. KVCTC is scheduled to occupy the new space by January 2012. Project completion is scheduled for September 2012.

**Kanawha Valley Community and Technical College & West Virginia Higher Education Policy Commission Headquarters**
*Institute, West Virginia*

KVCTC Renovation: 70,953 sf
KVCTC Addition: 14,174 sf
HEPC Renovation: 124,692 sf

KVCTC: $11,350,000.00
HEPC: $13,830,000.00
**Total Budget: $25,180,000.00**

Under construction

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# Twin Falls Resort State Park
# Lodge Addition and Renovations

**Twin Falls Resort State Park**
Mullens, West Virginia
West Virginia Department of Natural Resources
Parks and Recreation Division

28,000 Square Foot Expansion
Construction Cost: $7.3 Million

27 additional rooms
New Guest Services, Main Lobby, Indoor Pool, Fitness Area, and Courtyard.
Improved Gift Shop and Enlarged Conference Rooms.

Omni Associates – Architects was selected by the West Virginia Division of Natural Resources Parks and Recreation Division to design a new wing adjoining the Twin Falls Resort State Park lodge. According to Twin Falls State Park Superintendent Scott Durham, the changes at Twin Falls mark the park's maturing and coming into its own. "The architects have done a wonderful job putting together two dramatically different styles and preserving both."*

With the expansion project, the guest capacity has more than doubled, from 20 to 47 rooms. Other changes include a new courtyard, a transformed lobby, an indoor pool and fitness area, an improved gift shop, and enlarged conference rooms. Accessibility was also a design consideration. Although the original structure's multitiered steps present an obstacle for some guests, the new wing is fully accessible. The entrance to the new addition is on the same level as the restaurant and primary conference area, and an elevator provides easy access to other floors.

Although the new lodge is different architecturally, Omni Associates aimed to ensure it was compatible with the original. In 1967, Walter Gropius, the father of modern architecture, led The Architects Collaborative (TAC) in the design of the lodges at Twin Falls Resort, Hawks Nest, and Pipestem Resort state parks. The modernist style eliminates ornamentation and uses steel, glass, and concrete. The original Twin Falls lodge has a flat roof and box shape, while the new addition has a more Alpine appearance, with a peaked roof and exposed timbers. The original building was not altered in this expansion, except where the two sections join. Matching brick was used in the new structure for continuity between the two buildings. The original lodge's architectural details, such as railings and windows, harmonize with those elements in the new structure.

Following the park's tradition of using names from nature to identify its structures, the original Twin Falls lodge is now designated as the Monarch wing, after the state butterfly. The new addition is the Cardinal wing, after the state bird.

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Omni Associates - Architects, Inc.

# Charleston Professional Building

The 19,427 SF two story building is located in the central business district of Charleston, West Virginia. The project was completed utilizing design/build delivery.

The facility was designed to house FBI offices, including service bays to modify surveillance vehicles, forensic evidence labs, and investigators' work and technology spaces. The one acre site has a security perimeter fencing system and the exterior of the building is designed to resist high pressure intrusion as well as radio frequency shielding.

The basic shell of the building is a pre-engineered structure with a mixture of metal panels and masonry veneer materials that create an image of a standard office structure to fit into the business environment.

The project was designed as a LEED Silver rated project with much of the landscape around the building being restored to natural plantings that retain the storm water, energy efficient mechanical and electrical systems, and close proximities to city services.

**Charleston Professional Building**
Charleston, West Virginia

19,427 square feet
$6 Million

Client: Glenmark Holding
Contact: Nick Colasante
304-599-3369

Completed in 2012

# Riverview at Clendenin School


Omni Associates – Architects was chosen by Kentucky-based developers AU Associates to design the historic preservation, renovation, and conversion of the historic Clendenin School into a mixed-use building. Riverview at Clendenin School opened in October 2011 with two main uses: a non-profit community health center and 18 units of safe, quality, affordable housing for seniors. The health clinic includes an onsite dentist, radiology department, fully stocked pharmacy and physical therapy center. The project was recognized by the Preservation Alliance of West Virginia for "Best Use of Tax Credits."

Completed in 1912, Clendenin Middle School was originally known as the Big Sandy District High School. The building attests to the early twentieth century growth of public education in the state. The town of Clendenin was the first community in West Virginia to take advantage of a new law allowing Boards of Education to sell bonds for school construction. For the sum of $35,000, the Board of Education built a marvelous Neo-Classical Revival building that represented the aspirations of a growing community. In 1996, the school was listed on the National Register as part of the Clendenin Historic District. In 2002, the school closed its doors and remained vacant and for sale until August 2004, when the school board donated it to a local economic development group, "25045—A New Clendenin," formed in 2003 to revitalize the historic town. * Many people in the area wanted to see the building torn down, saying it would never again serve the community, but commitment by the community to utilize the historic structure drove the project.

Funding for the renovation came from a combination of local, state and federal funding, with large portions coming through federal economic stimulus money, including a $2.7 million grant from the West Virginia Neighborhood Stabilization Program and $400,000 from the U.S. Department of Health and Human Services. Both grants were part of the American Recovery and Reinvestment Act. The U.S. Department of Agriculture is providing a $1.2 million loan for 40 years at no more than 4.5 percent interest. About $1 million in state and federal historic tax credits also will help fund the project.

*(source: http://www.pawv.org/endgrd05/clendenin.htm)

**Riverview at Clendenin School**
Clendenin, West Virginia
SF: 40,000
Cost: $5.5 Million

Total renovation and adaptive re-use of a three-story historic school building. The building is masonry bearing walls with wood floor joists.

Contact:
Ms. Terrell Ellis
Braxton County Development
PO Box 1925
Charleston, WV 26554
304-342-6972

# First Ward School Apartments


**First Ward School Apartments**

Elkins, West Virginia
SF: 27,000
Cost: $3 Million

***National Housing & Rehabilitation Association***
**2013 J. Timothy Anderson Award for Excellence in Historic Rehabilitation**

***Preservation Alliance of West Virginia***
**2013 Historic Preservation Award**

Owner's Representative:
Mr. Johan Graham
AU Associates
859.233.2009

Total renovation and adaptive reuse of a three-story historic school building.

With the recent success of, Riverview at Clendenin School, Omni Associates – Architects was again chosen by developer AU Associates to bring the Elkins First Ward School restoration and adaptive reuse project to fruition. With the help of AU, the project received funding from the West Virginia Housing and Development Fund in the fall of 2011. Ground broke in August 2012 to begin the renovation for 16 affordable one- and two-bedroom apartments. The exterior was completely restored to its early 1900s Georgian-Revival style, and many of the key interior features reminiscent of the school days have been retained and preserved. The building was opened to tenants in July 2013.

First Ward School was constructed between 1908 and 1909 as a facility to educate the children of Elkins' rapidly expanding population at the turn of the 20th century. Its design of is attributed to Fairmont Architect Andrew C. Lyons, who is credited with the design of two similar schools -- Elkins' Third Ward School and Fairmont's Fifth Ward School. First Ward is designed in the Georgian-Revival style and is constructed of locally available building materials, including hand-cut sandstone, brick, and native hardwoods.

First Ward was completed and opened for class in the fall of 1909.The eight room schoolhouse stands two-stories tall and has a full basement. The floor plan, very modern for its day, used a modified "H" and rows of large double-hung windows to flood the rooms in natural light for children's health. The floor plan also featured large open rooms, twin sets of staircases, and wide hallways. In 1910, First Ward School's modern design and architecture were highlighted in a publication by the WV Department of Free Schools on school architecture in West Virginia.

First Ward served as a school until 1976, when it was converted into a warehouse for the county school board Fortunately, changes were minor, but little maintenance had been done since. The board transferred the vacant and deteriorated building to a local civic group (C-HOPE), which obtained a grant to repair the roof and stabilize the structure with a deadline to rehabilitate the building for community use within five years. Funding sources for the project included equity generated by federal housing and federal and state historic tax credits (syndicated by Community Affordable Housing Equity Corporation), general partner equity, and a first mortgage from C-HOPE.

# Feaster Center Renovations at Fairmont State University


Recognizing that equal access to all campus facilities was essential for garnering the support of alumni and friends, Fairmont State University commissioned Omni Associates to transition the Feaster Center into an ADA accessible facility. The building houses the Joe Retton Arena, the Department of Health and Human Performance, and the Athletic Offices. The renovation project included the addition of an exterior design element at the main entrance that created a first-floor entrance, incorporated an elevator, and provided Athletic Offices with a sweeping view of the football field. Interior renovations included moving the athletic trainers' facility to a larger space that included whirlpools and additional taping stations. Air handling units were replaced, upgrading the HVAC system. As the venue for the Falcons' basketball games, as well as other university and community events, maximizing the building's accessibility for spectators and other users also meant moving Fairmont State athletics forward.

**Feaster Center Renovations & Additions at Fairmont State University**
Fairmont, West Virginia

ADA Entrance/Elevator:
3,000 square feet

Other Interior Renovations:
2,600 square feet

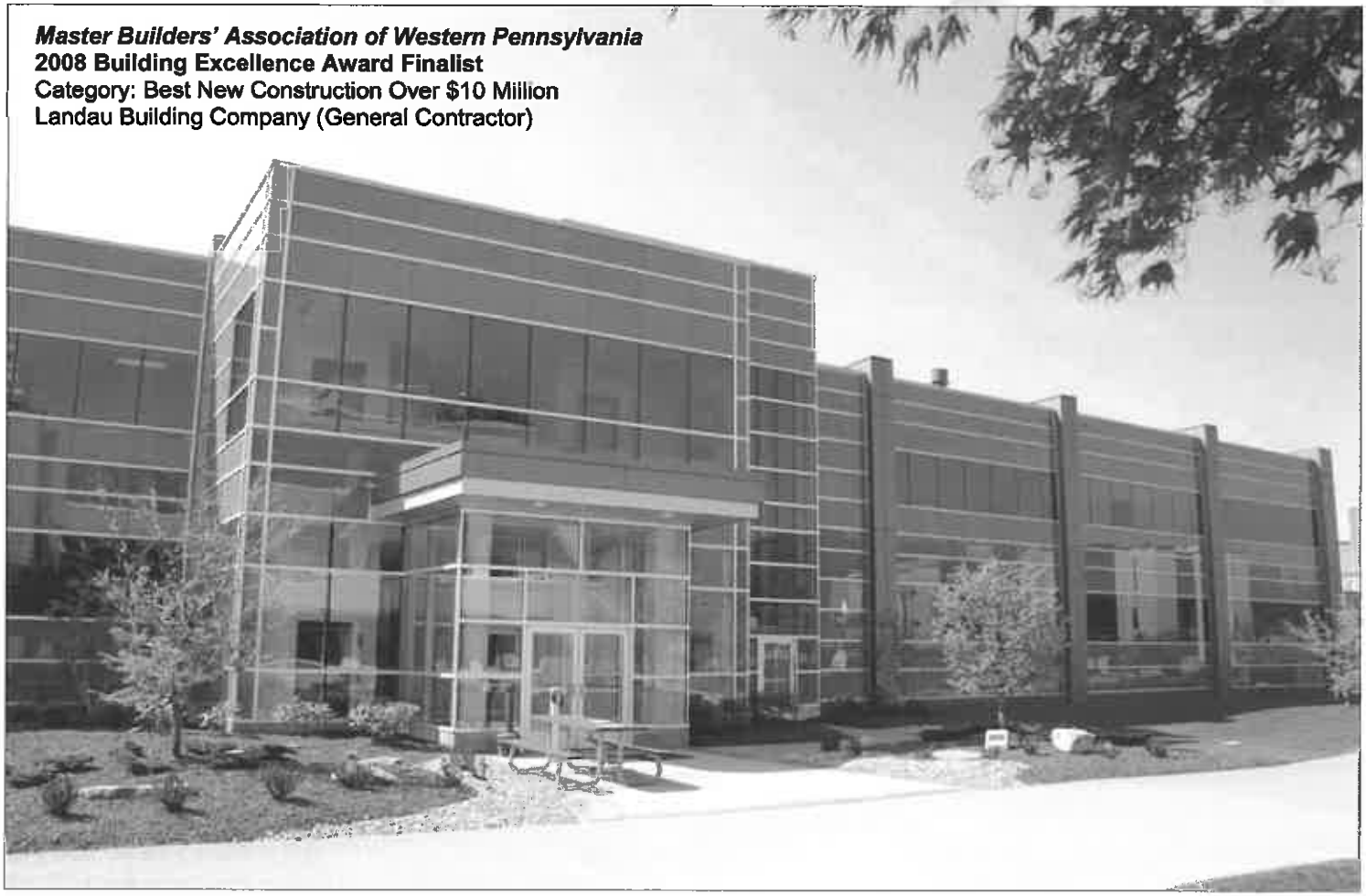
Construction Cost:
$1,300,000.00

Completed in 2009

info@omniassociates.com 304.367.1417 www.omniassociates.com Omni Associates - Architects, Inc.

# Engineering Technology Building Addition at Fairmont State University

***Master Builders' Association of Western Pennsylvania***
**2008 Building Excellence Award Finalist**
Category: Best New Construction Over $10 Million
Landau Building Company (General Contractor)



Omni Associates – Architects teamed with The Design Alliance to provide architectural services to Fairmont State University in order to renovate and double the size of an existing out-dated educational facility. The new $15 million addition involved extensive renovation of the existing two-story Technology Wing of Wallman Hall. Two floors and about 40,000 square feet have been added above the existing building, which encompassed 40,000 square feet of technology labs and classrooms.

The design team was also charged with the task of modernizing a dated façade to compliment the massive renovations and upgrades recently completed on the campus. This glass and metal panel addition transformed the look of the existing brick and pre-cast structure and reoriented the main entrance of the facility.

The new facility houses programs for drafting/design engineering technology, graphics technology and mechanical, civil and electronics engineering technology and occupational safety. It features two large lecture rooms, which are used by multiple departments, and about 12 smaller laboratory classrooms. The building opened for classes in January 2008.

Fairmont State University is part of the West Virginia's growing high technology corridor with a metro area of about 50,000 residents. With an enrollment of 4,600, FSU offers more than 90 baccalaureate degrees and graduate programs in business, criminal justice, education and human services.

**Engineering Technology Building Addition at Fairmont State University**
Fairmont, West Virginia

Construction Cost: $15 Million

Existing: 40,000 square feet
Addition: 40,000 square feet

info@omniassociates.com 304.367.1417 www.omniassociates.com
Omni Associates - Architects, Inc.

# Ruth Ann Musick Library Renovations at Fairmont State University

Since 1973, Fairmont State University's enrollment has increased by 48 percent and the curriculum and programs have expanded significantly. The Library was previously housed in a 52,000 square foot facility that was renovated and expanded in 1973. However, the expansion fell far short of meeting the College's needs. With the advent of the Community and Technical component in 1974, program offerings have increased fivefold to approximately 40 distinct, identifiable programs. Besides being woefully in need of "book" space, the library's greatest need was additional people space that enabled students to utilize the technology that is available. Additionally, the facility needed to be more acclimated to user needs by establishing a milieu that encouraged usage.

To that end, the entrance was relocated from the second floor to the first floor. The Library was expanded by approximately 5000 square feet to accommodate an Internet cafe/lounge area, service units such as an Internet help desk, and a printing/photocopy service center. Various multi-media classroom areas were also upgraded.

The addition to the Library also addressed campus-wide ADA accessibility compliance concerns. Although the campus elevation rises 300 feet from the entrance on Locust Avenue to the football field, creative planning by Omni Associates has made it possible for persons with disabilities to access the majority of the inner campus without encountering major obstacles. Students now have ground level access to all buildings that make up the academic core of the campus.

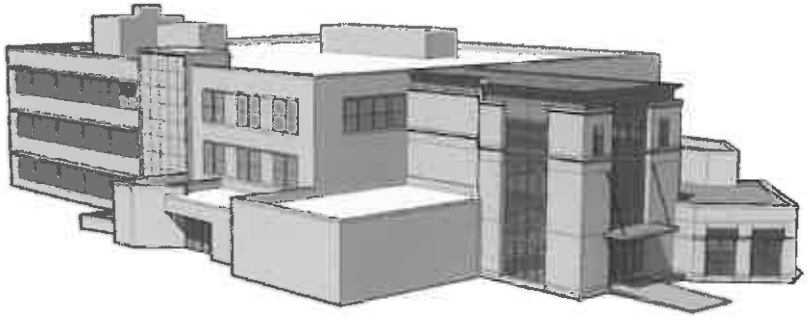
**Ruth Ann Musik Library**
**Renovations & Additions**
**at Fairmont State University**
Fairmont, West Virginia

Renovation:
1st Floor: 4,428 square feet
2nd Floor: 2,531 square feet
3rd Floor: 466 square feet
Total Renovation: 7,425 square feet

Addition:
1st Floor: 1,730 square feet
2nd Floor: 1,502 square feet
3rd Floor: 1,648 square feet
Total Addition: 4,880 square feet

The expansion and renovation includes:

- *A facility that allows for greater utilization of technology in the delivery of Library Services.*
- *A more user friendly facility by establishing informal areas (e.g., Internet Café, Computer Lounge) for Library usage and by increasing overall accessibility to campus information resources.*
- *Definitive areas for library services, media service and Internet user services.*
- *Space to provide supplemental services that enhance library usage, e.g., Internet help desk, photo copying/ printing service center, etc.*
- *A facility that can be oriented to twenty-four hour usage.*
- *A facility that will not only serve the college community more effectively but also the public schools and general public.*



- *Benchmark ADA compliant, wheelchair ground level access to buildings located in the academic core of the campus.*

info@omniassociates.com 304.367.1417 www.omniassociates.com Omni Associates - Architects, Inc.

# Colebank Hall
## Fairmont State University

The program for Colebank Hall consisted of the renovation and adaptive re-design of a recreation building to contain a gymnasium, multi-purpose room, computer area, classrooms, and offices.

The entire building was gutted including the removal of part of the second floor to create a three-story lobby. A new stair tower, elevator, and front entrance were added to the building. It was essential to maintain a traditional appearance that was in keeping with the balance of the campus while incorporating elements to accommodate up-to-date building usages.

The classrooms and administrative offices for the departments of Business, Athletics, and Fine Arts along with Health Services and the Security Office were accommodated. The programs of each of these areas were integrated to maximize building efficiency.

The existing gym area was completely renovated to be a multi-use space. Intramural sports including basketball and volleyball as well as space for the drama department and campus assemblies were all accommodated.

The existing floor was refinished and relined. New lighting including colored stage lighting were added. The projection and sound booth is at one end while an alcove was created on the other end for removable stage platforms. Acoustical baffles and insulation were added so adjacent classroom areas would no t be disturbed.

**Colebank Hall**
Fairmont State University
Fairmont, West Virginia
40,000 Square Feet
OMNI/WTW

Harper Engineering, pllc

52 B Street
St. Albans, WV 25177
Office: 304.722.3602 Fax: 304.722.3603

Harper Engineering, pllc was founded in 2008 to provide innovative engineering design services to architects, owners and contractors throughout the state. We are a unique combination of eager young talent and proven experience fused together to serve all of your building systems design needs including HVAC, Plumbing, Lighting, Electrical, Fire Alarm and Sprinkler Suppression systems.

Our goal is to design optimized systems that meet all of our client's performance, energy use, and budgetary needs. The staff at Harper Engineering has a combined 85 years of experience working with clients in a variety of fields including but not limited to K-12 Schools, hospitals, offices, airports, manufacturing, and water treatment plants.

## Services:

HVAC Design
- Heating and Cooling load calculations
- Ductwork sizing
- Hydronic pipe sizing
- Equipment selection

Electrical Design
- Electrical load calculations
- Panel and switch gear selection
- Lighting
- Fire alarm
- Site Utilities
- Emergency Generators
- Security and communications

Plumbing Design
- Pipe Sizing
- Fixture Selection
- Sprinkler design
- Site Utilities

Drafting
Specifications
Project Management
Construction Documents

Harper Engineering,pllc

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Riverview at Clendenin: HVAC, Plumbing, Electrical, Fire Alarm, and Sprinkler design for a renovation of a historic school into multifamily housing and doctor office.

Elkins First Ward School: HVAC, Plumbing, Electrical, Fire Alarm, and Sprinkler design for a renovation of a historic school into multifamily housing.

Frank and Jane Gabor WV Folklife Center at Fairmont State University: HVAC, Plumbing, Electrical, Fire Alarm, and Sprinkler design for a renovation to a 6,100 sq ft historic building.

W. Kent Carper Justice and Public Safety Complex: HVAC, Plumbing, Electrical, Fire Alarm, and Sprinkler design for renovations to the 62,400 sq ft Justice and Public Safety Complex.

Office Addition to Boone Co. Courthouse Annex: HVAC, Plumbing, Electrical, Fire Alarm, and Sprinkler design for a 20,000 square foot addition and renovations to the Boone Co Courthouse Annex.

Rahall Technology and Business Center Community Based Outpatient Clinic: HVAC, Plumbing, Electrical, Fire Alarm, and Sprinkler design for an 8,500 sq ft VA outpatient clinic.

Dominion Gas Office Building: HVAC, Plumbing, Electrical, Fire Alarm, and Sprinkler Design for a 20,000 square foot office.

New Martinsburg USARC Boiler Replacement: Replaced (4) 250 MBH Natural Gas Boilers.

Cross Lanes USARC Boiler Replacement: Replaced (4) 250 MBH Natural Gas Boilers.

Harper Engineering,pllc

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Jason E. Harper, PE
(304)-541-1390
jason@harperengwv.com

## Education

West Virginia University Institute of Technology
Montgomery, WV
Bachelor of Science-Mechanical Engineering

## Registrations/Professional Affiliations

Licensed Professional Engineer – WV, KY, MD
ASHRAE
NFPA
LEED Green Associate

## Experience

Jason E. Harper, PE brings 10 years design experience to our firm. He has experience with HVAC, Electrical, plumbing, and fire alarm system design. His projects include educational facilities (including colleges and universities), health care facilities, office buildings, banks, emergency services facilities, postal facilities, and government buildings.

## Projects

Addition and Renovation to Geary School
Baileysville Elem. HVAC Renovations
W. Kent Carper Justice and Public Safety Complex
Dominion Gas Office Building
Renovations to Glenville ES
Addition to Shady Spring Middle School
Addition and Renovations to Flinn Elementary
Renovations to Park Middle School

Harper Engineering,pllc

52 B Street
St. Albans, WV 25177
Office: 304.722.3602 Fax: 304.722.3603

Kevin Mark King, PE
mark@harperengwv.com

## Education

West Virginia University Institute of
Technology Montgomery, WV
Bachelor of Science-Electrical Engineering

Bluefield State College
Bluefield, WV
Bachelor of Science-Computer Science

## Registrations/Professional Affiliations

Licensed Professional Engineer – WV, KY, PA, OH, VA
WV licensed Master Electrician
LEED Green Associate
NFPA

## Experience

Kevin Mark King, PE brings 9 years of electrical design experience and over 11 years of electrical construction/maintenance experience to our firm. His projects include educational facilities (including colleges and universities), health care facilities, office buildings, emergency services facilities, government buildings and industrial projects.

## Projects

Fayette Co. 911 Center
Wanye County 911 Center
Marsh Fork Elementary School
Pineville Elementary School
Renovations to TTA Office
Kia Dealership Beckley, WV

Harper Engineering

PO Box 874
St. Albans, WV 25177
Office: 304.722.3602 Fax: 304.722.3603

Richard M. Standish
(304)-722-3206
Rick@harperengwv.com

## Registrations/Professional Affiliations

ASHRAE

## Experience

Richard M. Standish brings 36 years design experience to our firm. He has experience with HVAC, plumbing, and electrical design. His specialty is the electrical design of water treatment and wastewater treatment plants. Rick's projects include treatment plants, educational facilities (including colleges and universities), health care facilities, office buildings, banks, emergency services facilities, postal facilities, and government buildings.

## Projects

Brooke County High School
University of Charleston Dorm
Tri-State Gaming Center
Mylan Pharmaceuticals Expansion
Mason Co. 911 Center
Oak Hill Police Station
Kenova WTP
Boone County WWTP
Salt Rock PSD
Eleanor Maintenance Facility
Wyoming West High School
WVU- Boreman Hall
Greenbank Observatory
Robert Byrd Health Science Center
WV DEP Consolidated Offices
Flatwoods-Canoe Run PSD
Union PSD
City of St Mary's WWTP
St. Albans WTP
Dominion Gas Office Building

Harper Engineering,pllc

52 B Street
St. Albans, WV 25177
Office: 304.722.3602 Fax: 304.722.3603

Scott D. Phillips
(304)-722-3602
Scott@harperengwv.com

## Registrations/Professional Affiliations

American Society of Plumbing Engineers

## Experience

Scott D. Phillips brings 30 years design experience to our firm. He has experience with mechanical, electrical, plumbing and fire suppression system design. His projects include educational facilities (including colleges and universities), health care facilities, office buildings, banks, emergency services facilities, postal facilities, and government buildings.

## Projects

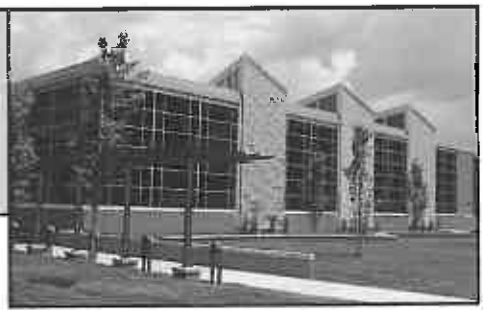
W. Kent Carper Justice and Public Safety Complex
Renovations to Burnsville Elementary School
Pioneer Community Bank
Bible Center Recreation and Ministry Building
Pulmonary Associates Office Building
Additions and Renovations to Little Birch Elementary School
Moses Factory Outlet- Teays Valley
Dominion Gas Office Building
Fairmount State University WV Folk Life Center
South Preston Pre K-8 School
Rahall Technology and Business Center Community Based Outpatient Clinic
Renovations to Davis Elementary School

# Allegheny Design Services

Consulting Engineers

102 Leeway Street
Morgantown, WV 26505
Phone: (304)599-0771
Fax: (304)212-2396
www.alleghenydesign.com

## *CONSULTING ENGINEERING FIRM SPECIALIZING IN STRUCTURAL BUILDING DESIGN AND BUILDING ANALYSIS*



Allegheny Design Services is a consulting engineering firm specializing in structural building design and building analysis.

Dedicated to serving West Virginia and the surrounding region, *ADS* recognizes the need for reliable and full service structural engineering support. *ADS* provides all phases necessary for the successful completion of a building project including schematic design studies, design development, construction documents and specifications, and construction administration.

Over 20 years in Design and Project Management of:

- Commercial
- Industrial
- Institutional
- Educational Facilities

MIXED USE

HOTEL
CONFERENCE CENTERS

SECONDARY EDUCATION

OFFICE BUILDINGS

PARKING GARAGES

ATHLETIC FACILITIES

METAL BUILDING SYSTEMS

HEALTH CARE

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**Web: www.AlleghenyDesign.com**

# FIRM PROFILE

Allegheny Design Services is a consulting engineering firm specializing in Structural & MEP building design and building analysis.

Dedicated to serving West Virginia and the surrounding region, ADS recognizes the need for reliable and full service engineering support. ADS provides all phases necessary for the successful completion of a building project including schematic design studies, design development, construction documents and specifications, and construction administration. We currently hold licenses in West Virginia, Pennsylvania, Maryland, Virginia, District of Columbia, South Carolina and Ohio.

ADS's experience in Design and Project Management includes:

Commercial Facilities

Industrial Facilities

Institutional Facilities

Educational Facilities

ADS was established by David Simpson, PE, MBA, in 2002 as a result of a need in North Central West Virginia for reliable structural engineering services. In 2009 MEP engineering services were added, led by Mike Chancey, PE. ADS utilizes a combination of office technology and a motivated staff to deliver projects typically up to $50 million in construction value. Our clients include architects, contractors, developers, attorneys, and insurance companies.

ADS currently utilizes the latest engineering design and BIM software for the development of project work.

Allegheny Design Services
Consulting Engineers

# ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH OMNI ASSOCIATES-ARCHITECTS, INC.

## Fairmont Senior High School Cafeteria Addition
**Fairmont, WV**

ADS was a consultant to Omni Associates for the Fairmont Senior High School Cafeteria Addition. Completed in 2000, this $2.5 Million addition consists of a cafeteria and mechanical space on the lower level

## MSHA Offices - District 3 - Coal Mine Safety & Health Office
**Morgantown, WV**

ADS is a consultant to Omni Associates for the MSHA Offices. The 21,000 sq. ft. facility serves the District 3 Mine Safety Division. It features a load bearing light gage wall system with wood trusses and metal bar joists. This project was completed in 2002 for approximately $2 Million.


## Mylan Corporate Office Parking Garage
**Morgantown, WV**

ADS is a consultant to Omni Associates for the Mylan Corporate Office Parking Garage. The 400 car parking structure was completed in 2004. The $5.5 Million facility is set into a terraced hillside.

Allegheny Design Services
Consulting Engineers

## ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH OMNI ASSOCIATES-ARCHITECTS, INC.

### St. Bernard Chapel
**Snowshoe, WV**

ADS was a consultant to Omni Associates for the St. Bernard Chapel. This 7,200 square foot facility was completed in 2005. Consisting of a timber frame structure at a cost of $1.5 Million. Received a Merit Award from AIA West Virginia.

### Lakeside Physical Therapy
**Morgantown, WV**

ADS was a consultant to Omni Associates for the Lakeside Physical Therapy Building. The 8,700 square foot facility was completed in 2006. It consists of offices, treatment rooms and aerobic area. Construction cost was approximately $1.4 Million.

### Gabriel Brothers—Bridgeport Hill
**Bridgeport, WV**

ADS was a consultant to Omni Associates for the Gabriel Brothers—Bridgeport Hill Renovation. Project consisted of an addition and renovation to existing store. Foundation Repair due to expansive soiis. Compieted in 2008 for approximately $2 Million

Allegheny Design Services
Consulting Engineers

## ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH OMNI ASSOCIATES-ARCHITECTS, INC.

### Canaan Valley Institute Headquarters/ Educational Facility
**Davis, WV**

ADS was a consultant to Omni Associates for the Canaan Valley Institute Headquarters/Educational Facility.CVI Headquarters houses research facilities, offices, and public service facilities. Construction cost was approximately $6.5 Million. It was completed in 2009.

### Fairmont State University Feaster Center Addition
**Fairmont, WV**

ADS was a consultant to Omni Associates for the Fairmont State University Feaster Center Addition. An entrance addition was added to the existing facility. Completed in 2009 for approximately $1.1 Million.

### Suncrest Towne Centre Building 600
**Morgantown, WV**

ADS is a consultant to Omni Associates for the Suncrest Towne Centre Building 600. This 13,000 square foot facility was completed in 2009 for approximately $3 Million. The lower level consists of retail space with the upper floors consisting of offices.

Allegheny Design Services
Consulting Engineers

## ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH OMNI ASSOCIATES-ARCHITECTS, INC.

### Suncrest Towne Centre Office Buildings 451, 453 & 455
**Morgantown, WV**

ADS is a consultant to Omni Associates for the Suncrest Towne Centre Office Buildings 451, 453 & 455. These three office buildings are a total of 44,000 square feet in office space. The project was completed in 2009 for approximately $4 Million.

### Suncrest Towne Centre Site C
**Morgantown, WV**

ADS is a consultant to Omni Associates for the Suncrest Towne Centre Site C. Engineering was provided for foundation design, miscellaneous structural consultation for a prefabricated metal building frame clad in masonry. Total retail space is approximately 60,000 square feet. This Project was completed in 2009 for approximately $6 Million.

### WVU Child Development and WVU Nursery School
**Morgantown, WV**

ADS is a consultant to Omni Associates for the WVU Child Development and WVU Nursery School. The WVU Child Development Center is 18,907 Sq. Ft. and the WVU Nursery School is 4,163 Sq. Ft. This project was completed in Fall of 2009 for approximately $6.1 Million

Allegheny Design Services
Consulting Engineers

## ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH OMNI ASSOCIATES-ARCHITECTS, INC.

### BFS Fairmont
**Fairmont, WV**

ADS was a consultant to Omni Associates for the BFS Fairmont. This project consists of retail and auto center. Construction cost was approximately $750,000 and it was completed in 2010.


### Fairfield Inn/Marriott
**Morgantown, WV**

ADS was a consultant to Omni Associates for the Fairfield Inn/Marriott. Full Engineering Services were provided Construction cost was approximately $5.8 Million. It was completed in 2010.

### Mon Power Regional Headquarters
**Fairmont, WV**

ADS was a consultant to Omni Associates for the Mon Power Regional Headquarters Building. This building consists of Transmission Control Center; Offices, Conference Rooms; and Maintenance Center. It was completed in 2010.

Allegheny Design Services
Consulting Engineers

## ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH OMNI ASSOCIATES-ARCHITECTS, INC.

### Sundale Nursing Home
**Morgantown, WV**

ADS is a consultant to Omni Associates for the Sundale Nursing Home. This project consisted of a Sundale Hospice Care Addition consisting of Load Bearing Light Gage Construction. The project was completed in 2010 for approximately $2 Million.


### GSA Building
**Charleston, WV**

ADS was a consultant to Omni Associates for the GSA Building in Charleston, WV. The facility consists of Offices and Operations Facility. Completed in 2011 for approximately $3 Million.

### Jerry Dove Medical Office Building
**Bridgeport, WV**

ADS was a consultant to Omni Associates for the Jerry Dove Medical Office Building. This building consists of Structural Mat Foundation System and Steel Framing. The facility was completed in 2011 for approximately $6 Million.

Allegheny Design Services
Consulting Engineers

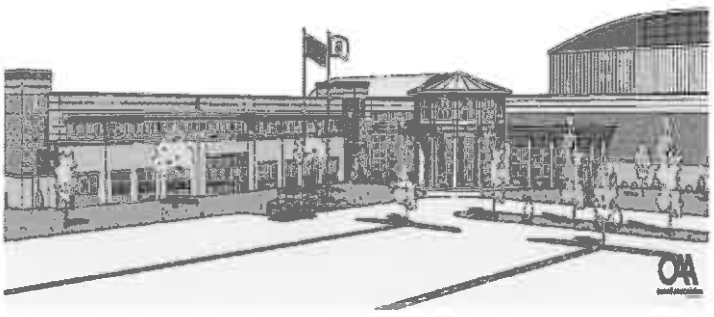
## ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH OMNI ASSOCIATES-ARCHITECTS, INC.

### Lumberport Elementary School
**Lumberport, WV**

ADS was a consultant to Omni Associates for the Lumberport Elementary School. It consists of insulated concrete form (ICF) walls; steel joist floors and roof; and concrete on metal deck floors. This project was completed in the Spring of 2012 for approximately $10 Million.

### Fairmont AFRC
**Fairmont, WV**

ADS was a consultant to Omni Associates for the Fairmont AFRC. Design is currently underway for a National Guard Readiness Center. It includes space for training, offices and multi-use public space.



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Web: www.AlleghenyDesign.com

# KEY PERSONNEL

**David R. Simpson, PE, SECB, MBA, President**

West Virginia Institute of Technology, BS Civil Engineering
West Virginia University, MBA
Structural Engineering Certification Board
National Council of Examiners for Engineering and Surveying
PE Licenses in the following States:

| | |
|---|---|
| West Virginia | District of Columbia |
| Pennsylvania | South Carolina |
| Maryland | Ohio |
| Virginia | |

**Michael W. Howell, PE, SE, Sr. Structural Engineer**

University of Pittsburgh, BS Civil Engineering
PE Licenses in the following States:

| | |
|---|---|
| Virginia | Maryland |
| West Virginia | Pennsylvania |

American Society of Civil Engineers
Richmond Branch Past President
Richmond Joint Engineers Council - Past Chairman
American Council of Engineering Companies

**Jason D. Robinson, PE, Associate Engineer**

West Virginia University, BS Civil Engineering
PE License - West Virginia

**Jillian R. Nutter, EIT, Jr. Structural Engineer**

West Virginia University, BS Civil Engineering
WV EIT Certification

Allegheny Design Services
Consulting Engineers

# DAVID R. SIMPSON, PE, SECB, MBA
## PRESIDENT / PRINCIPAL ENGINEER

**Education:**

West Virginia Institute of Technology - B.S. Civil Engineering
West Virginia University - Masters Business Administration
West Virginia State College - Architectural Technology Courses

**Professional Registrations:**

Year first registered: 1984
West Virginia, Pennsylvania, Maryland, Virginia, District of Columbia, South Carolina, Ohio, Structural Engineering Certification Board and National Council of Examiners for Engineering and Surveying

**Professional Memberships:**

American Society of Civil Engineers, Structural Engineering Institute, Charter Member, American Concrete Institute, American Institute of Architects – West Virginia Chapter, American Institute of Steel Construction, Inc., American Iron and Steel Institute Member, Associated Building Contractors (ABC)

**Professional Experience:**

Responsible for strategic management, marketing, quality control, personnel development, business development, project management and design at Allegheny Design Services. Experience includes over 32 years in structural design and project management for industrial, commercial, institutional, and nuclear/chemical facilities utilizing steel, concrete, masonry, and wood. Past accomplishments include design and construction administration of health care facilities, hotels, schools, shopping centers, aircraft hangars, numerous retail facilities, and numerous forensic engineering assignments. Experience has been obtained from the following assignments:

**Experience Record:**

| | |
|---|---|
| Allegheny Design Services, LLC, President, | May 2002 to Present |
| R.M. Gensert and Associates, Vice President, | August 1998 to May 2002 |
| WVU, Assoc. Director of Planning, Design & Construction | August 1988 to August 1998 |
| Simpson Engineering, Owner | August 1988 to August 1998 |
| CECO Buildings Division, Senior Structural Engineer | April 1985 to August 1988 |
| Rockwell International, Facility Structural Engineer | March 1982 to April 1985 |
| Bellard Ladner & Assoc., Staff Structural Engineer | Sept. 1981 to March 1982 |
| PPG Industries, Facility Structural Engineer | January 1980 to Sept. 1981 |

**Project Experience Includes:**

Morgantown Event and Conference Center, Morgantown, WV
Phipps Conservatory Addition, Pittsburgh, PA
Waterfront Hotel and Conference Center, Morgantown, WV
WVU Basketball Practice Facility
WVU Mountaineer Field North Luxury Suites
UPMC Hillman Cancer Center
William Sharpe Hospital Addition
Chestnut Ridge Church
University of Pittsburgh Bio Medical Tower
Glade Springs Hotel & Conference Center
Fairmont State University Parking Garage

Allegheny Design Services
Consulting Engineers

# MICHAEL W. HOWELL, PE, SE
## SENIOR STRUCTURAL ENGINEER

**Education:**

University of Pittsburgh - B.S. Civil Engineering
West Virginia University - Master of Business Administration (2014 expected graduation)

**Professional Registrations:**

Professional Engineer – Virginia, West Virginia, Maryland and Pennsylvania
NCEES Record Holder

**Professional Memberships:**

American Society of Civil Engineers - Past Branch President
Richmond Joint Engineers Council - Past Council Chairman
Structural Engineering Institute - Member

**Continuing Education:**

Blodgett's Welding Design Seminar – April 2013 – Cleveland, OH
Simpson Strong-Tie Continuous Load Paths in Wood Structures – November 2011 – Charlottesville, VA
Kaplan 28 Hour SE Exam Review Course – August 2011 – Richmond, VA
Emerging Leaders Alliance Workshop – November 2010 – Denver, CO
OSHA 10 Hour Safety Course for Construction Personnel – April 2006 – Alexandria, VA
SE University multiple structural technical training webinars.

**Professional Experience:**

Responsibilities at Allegheny Design Services include project management and structural design. Professional experience is comprised of a wide variety of roles as both a designer and contractor. Past accomplishments include a mix of residential, commercial, industrial, military and government facilities utilizing all major building elements including steel, concrete, masonry, wood, and aluminum. Experience includes domestic as well as international projects for a variety of public and private clients from the following assignments:

**Experience Record:**

| | |
|---|---|
| Allegheny Design Services, LLC, Sr. Structural Engineer | June 2012 to Present |
| Austin Brockenbrough and Associates, Structural Engineer | March 2008 to June 2012 |
| McKinney and Company, Civil Engineer | March 2007 to March 2008 |
| American Bridge Company, Field Engineer | May 2005 to March 2007 |

**Project Experience Includes:**

Project experience (past and present) includes:

Puskar Center Vertical Expansion Analysis, West Virginia University, Morgantown, WV
Milan Puskar Stadium Handrail Analysis & Repair, West Virginia University, Morgantown, WV
Puskar Center Auditorium Expansion, West Virginia University, Morgantown, WV
White Oaks Office Development Building II, Bridgeport, WV
College Park Apartments, Morgantown, WV
University Park Dormitory, West Virginia University, Morgantown, WV
Brownsville Marine Product Plant Upgrade and Repairs, Brownsville, PA
Clarksburg Credit Union, Clarksburg, WV
High Bridge Trail State Park Pedestrian Bridges, Prince Edward County, Virginia
Observation Platform, Midlothian Mines Park, Chesterfield County, Virginia
Fuel System & Facility Upgrades, Fort Drum, NY
Eppington Plantation Restoration and Structural Stabilization, Chesterfield County, Virginia
Old City Hall Plaza Replacement, Richmond, Virginia
Woodrow Wilson Bascule Replacement, Alexandria, Virginia
WVU Baseball Stadium and Ball Park, Morgantown, WV

Allegheny Design Services
Consulting Engineers

# JASON D. ROBINSON, PE
## ASSOCIATE STRUCTURAL ENGINEER

**Education:**
West Virginia University - B.S. Civil Engineering

**Professional Registrations:**
Professional Engineer – West Virginia, Pennsylvania, Maryland

**Professional Memberships:**
Member of AISC
Associate Member of ASCE

**Continuing Education:**
WVU Steel Design—Fall 2007
AISC - Façade Attachments to Steel Frames - September 20, 2007
ASCE - Reinforced Masonry: Design and Construction - November 8, 2007
TSN - Cold-Formed Steel Seminar – Load Bearing and Curtain Wall Systems - December 4, 2008
Lincoln Electric Co. - Blodgett's Welding Design Seminar - October 13-16, 2009
Steel Camp – November 4-5, 2010
The New 14th Edition Steel Manual – October 25, 2011
ASCE-Design and Renovation of Wood Structures - October 2012
SE University multiple structural technical training webinars.

**Professional Experience:**
Responsibilities include structural engineering design, construction documents, quality control and field engineering.

**Experience Record:**
Allegheny Design Services, LLC, Associate Engineer — June 2007 to Present

**Project Experience Includes:**
University Park Mixed Use Building, Morgantown, WV
White Oaks Hawthorn Suites, Bridgeport, WV
BFS Suncrest, Morgantown, WV
Pikewood Creative Addition and Renovation, Morgantown, WV
GSD Fairmont, Fairmont, WV
Homewood Suites-Charles Pointe, Bridgeport, WV
Bridgeport Public Safety Substation, Bridgeport, WV
Canaan Valley Institute, Davis, WV
Charles Pointe BFS, Bridgeport, WV
Fairmont AFRC, Fairmont, WV
Gabriel Brothers Renovation, Clarksburg, WV
Genesis Youth Crisis Center, Clarksburg, WV
Goshen Baptist Church, Morgantown, WV
GSA, Charleston, WV
GSA DOE, Morgantown, WV
ICC Parish Center, Clarksburg, WV
Mason Dixon, Bridgeport, WV
Mylan Upper Warehouse to Labs, Morgantown, WV
Progress Centre 2, Bridgeport, WV
WVU Child Development, Morgantown, WV
White Oaks Progress Center, Bridgeport, WV
Thrasher Office Building, Bridgeport, WV
WVU Greenhouse Building, Morgantown, WV

Allegheny Design Services
Consulting Engineers

# JILLIAN R. NUTTER, EIT
## JR. STRUCTURAL ENGINEER

**Education:**
West Virginia University – B.S. Civil Engineering

**Professional Registrations:**
WV EIT Certification

**Professional Memberships:**
American Society of Civil Engineers
Chi Epsilon

**Continuing Education:**
North Carolina State University – Master of Civil Engineering — August 2012 – Present
SE University multiple structural technical training webinars.

**Professional Experience:**
Responsibilities include engineering design of structural steel, reinforced concrete, reinforced masonry, wood, foundations and analysis of existing systems.

**Experience Record:**
Allegheny Design Services, LLC, Jr. Structural Engineer — January 2013 to Present
North Carolina Department of Transportation, Engineering Technician — September 2012 to December 2012

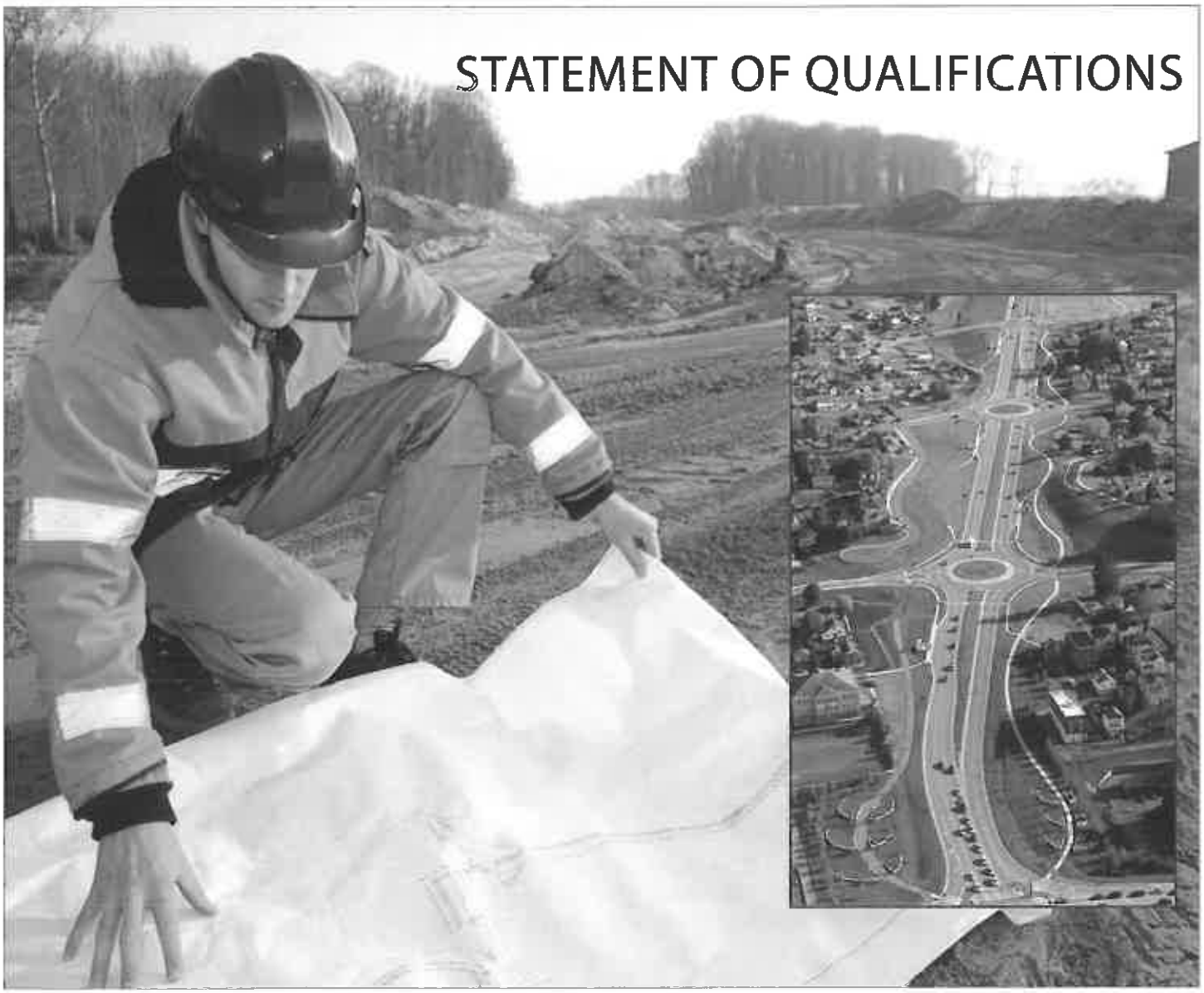
**Project Experience Includes:**
Project experience (past and present) includes:

Triple S. Harley Davidson, Morgantown, WV
Clarksburg Credit Union, Clarksburg, WV
College Park Apartments, Morgantown, WV
West Union Bank, Salem, WV
Urlings General Store, Wayne, WV
Mt. Morris BFS, Mt. Morris, PA
Sabraton Shoney's, Morgantown, WV
Suncrest BFS, Morgantown, WV
WVU Puskar Stadium AD Suite, Morgantown, WV
Elkins Coal & Coke Building, Masontown, WV
Total Dental– New Multi-Tenant Building, Clarksburg, WV
Webster 911 Center, Webster Springs, WV
Gateway Commercial Building, Morgantown, WV
Wesley United Methodist Church, Morgantown, WV
Arthurdale High School Renovation, Arthurdale, WV
Preston Contractors Office Addition, Kingwood, WV

TERRADON CORPORATION

Engineering . Land Planning . Surveying . Testing & Inspection

# STATEMENT OF QUALIFICATIONS

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Lewisburg, WV
425 North Jefferson Street
Lewisburg, WV 24901
304-645-4636

Charlton Heights, WV
P.O. Box 307
Charlton Heights, WV 25040
304-541-7655

ALL LOCATIONS Phone: 304.755.8291 Fax: 304.755.2636

www.terradon.com

## CORPORATE OVERVIEW

TERRADON Corporation offers a multi-faceted approach to design engineering and consulting services. For more than 20 years TERRADON staff has provided a wealth of engineering solutions blanketing the Ohio Valley and the Appalachian Region with successful projects. The company built its reputation on expert personnel and quality, time-sensitive service. Those same founding principles hold true today.

Staff includes engineers, landscape architects, surveyors, planners, environmental scientists, designers, technicians and LEED Accredited Professionals.

The company maintains approximately 60 leading-edge staff in four locations: Columbus, Ohio; Nitro/Poca, WV; Lewisburg, WV; and Charlton Heights, WV. TERRADON'S departments work cohesively to provide turn-key solutions that strive to exceed client expectations.

## ABOUT TERRADON

The family-owned business has built a strong reputation by providing flexible, cost effective design solutions and maintaining the highest level of customer service. TERRADON is particularly suited to design engineering within the mountainous areas of the Ohio Valley and Appalachian Regions. The firm has been recognized through numerous awards from professional organizations and agencies including the several State Divisions of Highways, Departments of Environmental Protection and the American Institute of Architects state chapters.

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

## SERVICE OFFERINGS

- Civil Engineering
- Environmental
- Geotechnical Engineering
- Surveying and Mapping
- Water/Wastewater
- Land Planning and Site Design
- Transportation Engineering
- Structural Engineering

# ENVIRONMENTAL SERVICES



**Constantly changing federal and state environmental requirements are difficult to track and can have a serious impact on businesses and other organizations. TERRADON offers a strong environmental services team to manage issues in a complex environment. Staff is well-versed on environmental permitting processes and regulations as well as site assessment and reporting.**

**TERRADON closely follows environmental activities on the local, state and federal levels. TERRADON has a thorough understanding of state and federal environmental permitting processes and regulations. This expertise applies to both the initial permit preparations, as well as subsequent negotiations affecting the permit. The firm's strength in addressing environmental issues is built on the diversity of its staff with credentials in chemistry, civil engineering, geotechnical engineering and geology.**

## SERVICES INCLUDE

- Environmental Site Assessments
  - Phase I ESA
  - Phase II ESA
- Hazardous Waste
- Process Water
- Wastewater
- Storm Water
- Groundwater
- Air Permitting
- Risk Management Plans
- Wetland Delineation
- Tier II Reporting
- Emergency Response Plans
- Environmental Audits
- Environmental Remediation
- NEPA Compliance
- Asbestos and Lead Inspection
- Underground Storage Tanks
- Impoundment Stabilization and Closure
- SPCC Planning
- BMP Planning

# GEOTECHNICAL ENGINEERING

TERRADON offers some of the most experienced staff in the region for local geotechnical expertise. This team of experts brings a distinctive, specialized understanding of the difficult soil and groundwater conditions found in the Ohio Valley and Appalachian Regions of the United States.

The Geotechnical group has provided investigations associated with earthen dams, mining, waste disposal, new building construction, landslides analysis and remedial design, cell and high mast towers, landfill permitting and cap design, flexible/rigid pavement design, and environmental remediation.

## SERVICES INCLUDE

- Test Borings
- Test Pit Excavations
- Monitoring Well and Piezometer Installation
- Soil and Rock Logging, Sampling and Testing
- Landslide Analysis and Remedial Design
- Stability Analysis
- Retaining Structure Design
- Earthen Dams
- Foundation Design
- Municipal and Industrial Landfills
- Flexible and Rigid Pavement Design

## GEOTECHNICAL DESIGNS INCLUDE

- Complete Removal for Landslide Repair
- Removal, Stabilization, Replacement
- Buttressing and Regrading
- Subsurface Drainage
- Structural Corrections
- Retaining Walls
- MSE Walls and Other Gravity Walls
- H-Piles and Lagging
- Anchors (Rock or Soil Nailing) In Combination with Above if Applicable

# WATER & WASTEWATER

Since 1989, TERRADON has provided planning, design and construction administration for millions of dollars worth of environmental projects including wastewater, water, and storm water improvement projects. The company has designed more than one million feet of water main – enough pipe to stretch from Charleston, WV to Charlotte, NC.

Basic engineering services include planning, design, construction specifications, bid and contract documents, bidding phase, construction phase and post-construction phase engineering, administration and project management.

TERRADON engineers have numerous resources within the company, such as surveying, geotechnical engineering, environmental services, landscape architecture, materials testing, and construction monitoring. This allows the project engineer to manage and control all phases of the design process, from initial site reconnaissance through construction.

## SERVICES INCLUDE

- Wastewater Collection, Pumping and Treatment
- Water Treatment, Storage and Distribution
- Natural Stream Design and Mitigation
- Mine Reclamation
- Utility Planning and Layout
- Cut and Fill Analysis
- Erosion and Sediment Control
- Computer Modeling
- Stormwater Management Design
- Operation and Maintenance Manuals

TERRADON is typically responsible for preliminary engineering, funding source applications, Infrastructure and Jobs Development Council applications, Public Health applications and all supporting documentation for these applications. TERRADON also prepares environmental permit applications for the National Environmental Policy Act, US Army Corps of Engineers, Division of Environmental Protection, Public Lands Corporation and National Pollutant Discharge Elimination System.

**Federal & State Grant Experience**

TERRADON has experience with nearly all state and federal funding programs. In fact, all of TERRADON's public sector water and wastewater construction projects have received grant funds. Most recently, TERRADON has been successful in securing HUD/SCBG funding for water and wastewater projects.

# LAND DEVELOPMENT

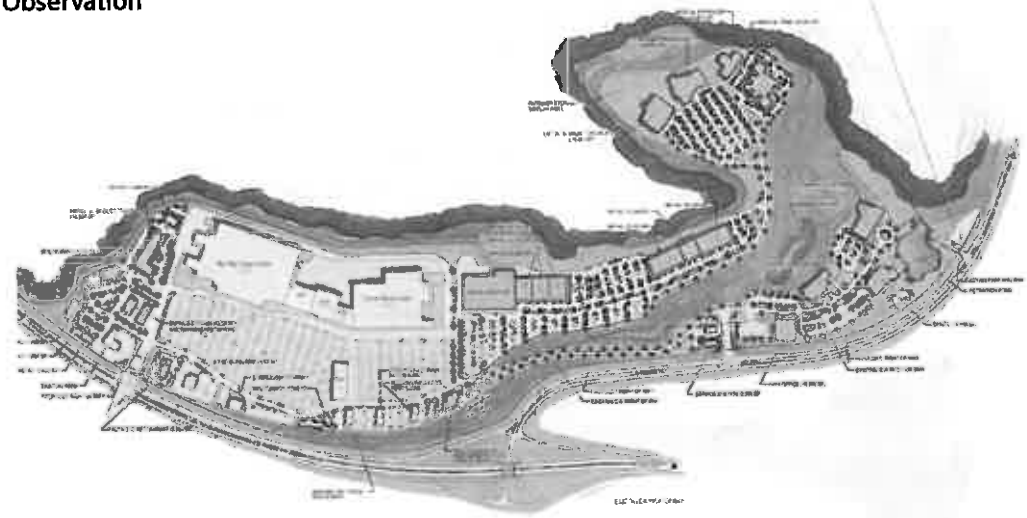
Land Development covers a broad swath of TERRADON's service offerings and sees a large percentage of its annual revenue from repeat clients or referrals. The group is comprised of Engineers, Landscape Architects and CAD designers who work closely with every other department within the company. TERRADON's Land Development department works with public and private entities and has a strong presence in the commercial, educational and recreational development sectors.

TERRADON is recognized as a leader in providing site design and land planning services. The firm's professional landscape architects work closely with the client from the project's initial phase through a schematic design, construction documents and project delivery.


TERRADON Landscape Architects remain on the forefront of sustainable design, providing LEED Accredited Professionals. Projects utilizing sustainable design best practices aid clients in significantly reducing energy costs on projects.

## SERVICES INCLUDE

- Master Planning
- Site Feasibility Studies
- Schematic Design
- Layout Plans
- Grading Plans
- Stormwater Management Plans
- Erosion Control Plans
- Planting Plans
- Presentation Drawings/Renderings
- Graphic Design
- Construction Observation



# TRANSPORTATION

Whether the job requires project planning, preliminary engineering studies or detailed roadway design, TERRADON has a history of resources to successfully complete transportation projects. Success on each project is achieved by using advanced technology to produce innovative, award-winning design. Construction costs and design projects are important to TERRADON, and the firm plans and manages according to each client's needs.

TERRADON is prequalified to provide engineering design services for the West Virginia Department of Transportation (WVDOT) through a Statewide Engineering Consulting Contract and for Design-Build services. TERRADON is also prequalified with the Ohio Department of Transportation (ODOT) for Roadway and Bridge Design, Geotechnical Services and Environmental Services.

## ROADWAY & BRIDGE DESIGN

TERRADON's Roadway and Bridge Design group is one of the most respected in the region. The department is well-known for its structural design capabilities and expert knowledge in bridge erection planning. TERRADON's Transportation sector has enjoyed a long-standing relationship with several states' Departments of Transportation. The group is led by an experienced transportation engineer and includes veteran staff with demonstrated experience.

TERRADON routinely works on transportation and structural projects, ranging from coordinating survey, right of way, utilities, and specifications with DOT personnel. Additionally, TERRADON has been recognized for outstanding engineering work on several occasions with engineering excellence nominations and awards. TERRADON's expertise in providing engineered drawings per local, state and federal specifications provide expedited timelines and aide in controlling costs throughout a project.

## SERVICES INCLUDE

- Roadway Design
- Structural Engineering/Bridge Design
- Maintenance of Traffic
- Traffic Analysis
- Right of Way Plans
- Grading Studies
- Survey
- Environmental Engineering

# SURVEYING & MAPPING

TERRADON is well-versed in completing successful transportation survey projects, having provided design and construction survey services for numerous projects during the company's 24-year history. An expert staff of professional surveyors provides mapping, construction layout, ALTA survey, topographic survey, GPS network control surveys for aerial and LiDAR mapping projects, and boundary survey services. Efficient and accurate results are ensured by prioritizing the use of modern technology, including state of the art GPS and robotic total stations, with the latest design software.

TERRADON maintains five full-time Professional Surveyors on staff. The firm services projects through the use of seven in-house field survey crews who are backed by 60 corporate staff members, including an experienced team of CAD designers. TERRADON's transportation survey group is experienced in preparing highway right of way plans, including courthouse research and right of way questionnaires, and writing legal descriptions for right of way take parcels, temporary construction easements and permanent drainage easements.

TERRADON surveyors are currently providing design survey services for several Ohio Department of Transportations (ODOT) projects. Additionally, TERRADON maintains an on-call survey contract with the West Virginia Department of Transportation (WVDOT), where it has provided design and construction surveys for numerous bridges and highway projects. TERRADON has also provided design and/or construction surveys for Virginia Department of Transportation (VDOT) projects.

TERRADON's Professional Surveyors are licensed in Ohio, West Virginia, Kentucky, Virginia, Pennsylvania and Tennessee.

# TESTING & INSPECTION




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

## SERVICES INCLUDE

### Materials Testing & Inspection

- **Slump of Portland Cement Concrete (AASHTO-T119)**
- **Air Content of Freshly Mixed Concrete (AASHTO-T196 and T152)**
- **Unit Weight and Yield (AASHTO-T121)**
- **Making and Curing of Concrete Test Specimens (AASHTO-T23)**
- **Compressive Strength of Concrete Specimens (AASHTO-T22)**
- **Fine and Course Aggregate Gradations (AASHTO-T11 and T27)**
- **Specific Gravity of Aggregates (AASHTO-T84 and T85)**
- **Atterberg Limits (ASSHTO-T89 and T90)**
- **Moisture Content of Soil (ASTM-D2216)**
- **Nuclear Compaction Testing of Soil, Stone, and Hot Mixed Asphalt**
- **Preparation of Certification Forms and Construction Reports**
- **Welder Certification**

### Specialty Testing and Inspection

- **Floor Flatness Testing**
- **Fireproofing**
- **Masonary Testing**
- **Structural Steel Inspection**
  - **Certified Welding Inspection**
  - **Dye Penetrant Testing**
  - **Bolt Testing**
- **Project Safety Monitoring**
- **FAA Eastern Regional Laboratories List**

### Construction Monitoring

- **Document compliance with project design specifications**
- **Ensures compliance with regulatory requirements**
- **OSHA 10-Hour and 30-Hour Construction Safety & Health Certified**

TERRADON CORPORATION

## CORPORATE CULTURE

TERRADON Corporation offers a multi-faceted approach to design engineering and consulting services. For the past 25 years TERRADON staff has provided a wealth of engineering solutions blanketing the Appalachian and Mid-Atlantic region with successful projects. The company built its reputation on expert personnel and quality, time-sensitive service. Those same founding principles hold true today.

The second-generation, family-owned business has built a strong reputation by providing flexible, cost effective design solutions and maintaining the highest level of customer service. The firm has been recognized through numerous awards from professional organizations and agencies including the American Society of Civil Engineers, State Highway Departments, the Department of Environmental Protection and the American Institute of Architects.

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

Certified WBENC Women's Business Enterprise

NWBOC WBE CERTIFIED

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

## CONTACTS

Project Opportunities
**Ryan Wheeler**
ryan.wheeler@terradon.com

Environmental, Geotechnical, Testing & Inspection
**Bill Hunt, PG, LRS**
bill.hunt@terradon.com

Land Development
**Greg Fox, ASLA, LEED AP**
greg.fox@terradon.com

Survey & Mapping
**Robert Thaw, PS**
robert.thaw@terradon.com

Energy
**Philip Reed, PE**
phil.reed@terradon.com

Transportation, Abandoned Mine Lands
**Joe Saunders, PE**
joe.saunders@terradon.com

General Civil
**Will Thornton, PE, PS**
will.thornton@terradon.com

Water, Wastewater & Stormwater
**Jim Downey**
jim.downey@terradon.com

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TERRADON CORPORATION

## Jim Nagy, PE
Senior Engineer

As a Senior Engineer at TERRADON, Jim Nagy's primary focus is on designing civil engineering projects for public and private development projects throughout West Virginia. Nagy specializes in the design of water distribution systems as well as sewage collection systems. Nagy offers decades of hands-on experience and has previously provided design engineering services for schools, commercial developments, residential developments, public utilities and more. He earned a B.S. in Civil Engineering from West Virginia University and is a Professional Engineer in the State of West Virginia.

Relevant Project Experience

- **School Projects**
  Responsible for layout, design, and permitting of water and sewer lines for numerous school projects in WV. Projects entailed coordination with PSDs, municipal water and sewer departments, State and Federal regulatory agencies for design of facilities. Schools include: Blue Ridge Community and Technical College, Blue Ridge K-12, Burnsville Elementary, Flatwoods Elementary, Davis Elementary, Sutton Elementary, Little Birch Elementary, Frametown Elementary, Buffalo High School, Clay-Battelle High School, Confidence Elementary, Jefferson Elementary, East Hardy High School, Eastwood Elementary, Flinn Elementary, Geary Elementary, Gilbert High School, Greenbrier West high School, Hampshire High School, Harpers Ferry High School and 19 additional schools.
- **Commercial Developments**
  Responsible for layout, design, and permitting of water and sewer lines for numerous commercial developments in WV. Projects entailed coordination with PSDs, municipal water and sewer departments, State and Federal regulatory agencies for design of facilities. Developments include: Fairmont Federal Credit Union, Allegheny Energy Union (Fairmont), First Ward (Clendenin) Apartments, Milton Crossing, Tri-State Hotel and multiple convenience store sites throughout WV.
- **Charleston Replacement Housing**
  Utility design, primarily water, sewer and stormwater, and coordination of overall site activities with the project developer for multi-unit housing development. Each phase entailed the design and layout of several hundred feet of water, sewer and stormwater line, including multiple connections with the utility providers, i.e., the Charleston Sanitary Board and West Virginia American Water, and applicable permit applications. Also responsible for construction monitoring and provision of as-built drawings as required by the respective utility providers.
- **Cathcart – Devonshire Development, Scott Depot, WV**
  Designed sanitary sewer and water distribution system to serve more than 900 housing units in this private development.
- **Washington Woods Subdivision, Ravenswood, WV**
  Designed more than 9,000 feet of water and sewer line and a 500 gpm fire pump water booster station to serve a 150 lot subdivision.
- **Sawmill Village, Snowshoe, WV**
  Designed approximately 2,800 feet of 8" water line and sanitary facilities to serve the Sawmill Village development project in Snowshoe, WV.
- **Cabell County Water Main Extension Project**
  Worked on design and layout of approximately 46,000 feet of water main for the Salt Rock PSD/WVAW. Responsible for bidding, contract award, and project management.
- **Putnam County Water Main Extensions**
  Worked on design and layout of approximately 63,000 feet of water main and a booster pumping station for the Putnam County Commission/WVAW. Responsible for bidding, contract award, and project management.
- **Manila Ridge Water Main Extension Project**
  Worked on design and layout of approximately 38,000 feet of water main for the Putnam County Commission/WVAW. Project has not received funding yet. However, will be responsible for bidding, contract award, and project management.

**Education**
B.S. Civil Engineering
West Virginia University

**Work Experience**
TERRADON Corporation
2007-Present

WV American Water
1991-2007

AWW SC
1984-1991

WV DNR
1982-1984

VTN, Inc. Consulting Engineers
1978-1982

J.H. Milam Consulting Engineers
1977-1978

WV DNR
1976-1977

WV Department of Highways
1975-1976

**Registration**
Professional Engineer: WV

TERRADON CORPORATION

## Joe Saunders, PE
### Senior Structural Engineer

Joe Saunders is a Professional Engineer with 16 years of project management and design experienced and licensed in West Virginia, Ohio, Virginia and North Carolina. He offers a wealth of experience related to engineering design and plan development.

Saunders is responsible for engineering studies, analysis and design, and projects for the development of construction plans for transportation, including: structural retaining walls, foundations, bridge replacements and rehabilitations, roadway and highway design, right-of-way plans, and ancillary design. Additional responsibilities include preliminary design and reports, construction plans and specifications, construction estimates, contracts and bidding review, and construction engineering.

Saunders directs design teams at TERRADON by performing design tasks, QA/QC checking and reviewing and hydrology and hydraulic calculations. Saunders also works with the design teams to schedule manpower and capacity for projects and provides daily coordination of project tasks with clients/owners.

- **Structural Design and Inspections Include:**
  - **Bluestone Dam Structural Inspection, Summers County, WV**
    Senior Design Engineer for the Bluestone Dam Phase IV Construction team. Designs have included structural cantilevered steel framing anchored to the sloped downstream face of the dam that is able to support not only the drilling operations for anchor installation, but also support a 150 ton crane. The cantilevered platform extends 32' from the face of the dam, with supports spaced up to as much as 15'. This spacing required not only for each main support member to be able to support the full weight of the 150 ton crane and support vehicles, but also required a detailed examination of fatigue prone members for the design service life of the project. An additional design concern was that all members below high water level had to be designed not only to support full loadings, but also force effects from water and debris collisions.
  - **Noise Wall Design, Montgomery County, OH.**
    Structural Design Engineer assisting in the design of the drilled shaft foundations, FAA aeronautical clearance requirements and plan review of the free standing noise wall located adjacent to I-75 near Dayton, OH.
  - **Glengarry Residence**
    Designed multiple foundation and retaining walls. Retaining walls varied between 3 feet and 20 feet in height, and had vehicular live loading. Foundations were strip footings on rock and piers on rock. Bearing material was Karst limestone, and some voids were present. Designed 52 steel beams for load bearing wall openings throughout the structure. House was approximately 5500 square feet.
  - **Joe Pope House**
    Designed 2 steel beams and supporting columns. Steel beam spans were 60 feet and 30 feet. 60 foot beam supported floor with 100 pound per square foot live load and roof loads. Beam was double W36x170 and supporting columns were double HP 12x84. 30 foot beam supported roof loads. Beam was W24x146 and supporting columns were HP 10x57. In addition, all connections were designed and detailed. The analysis required moment distribution calculations to determine the design moment for the moment connections.
  - **Waterfront Place Hotel**
    Performed periodic inspections of the hotel to verify plan conformance and verify quantities for pay items for the client.
- **Saunders is an accomplished bridge engineer who has served as the Lead Designer for more than 25 bridges throughout West Virginia and Ohio.**

**Education**
B.S. Civil Engineering,
West Virginia University
Institute of Technology

**Work Experience**
TERRADON Corporation
2012-Present

ms consultants
2003-2012

Buchart Horn
1998-2003

Laborers Union
1990-1998

**Registration**
Professional Engineer,
West Virginia, Ohio, Virginia,
North Carolina