

Firm Overview

RFQ Number WSH12067

**William R. Sharpe, Jr. Hospital
New Patient Care Unit**

Bid Opening Date: 10.27.2011

Bid Opening Time: 1:30 PM

OAA
LEED Accredited

**BUILDING
Green**



OAA

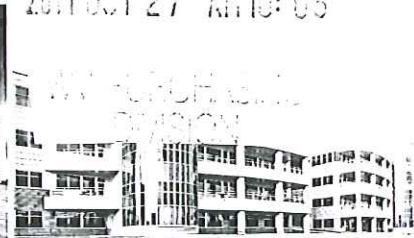
OMNI ASSOCIATES
Architects

www.omniassociates.com email: info@omniassociates.com



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2011 OCT 27 AM 10:05





Omni Associates - Architects

October 27, 2011

WV Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

Re: Proposal for Architectural and Engineering Services
Buyer: Roberta Wagner-File 22
Req#: WSH12067
Opening Date: 10/27/2011
Opening Time: 1:30 PM

Dear Ms. Wagner:

Omni Associates-Architects is pleased to submit our Proposal to the State of West Virginia Department of Administration for architectural and engineering design services for a new 27,000 square foot 50 bed patient care unit at the William R. Sharpe, Jr. Hospital in Weston. Omni recognizes the importance of this project to our State. We possess the experience necessary to assist Sharpe Hospital in meeting the changing needs of patients, staff, and administration, and we are dedicated realizing the project on time and within budget.

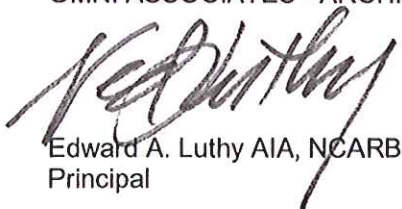
Omni has extensive experience in the design and construction administration of health care facilities. We know that patient care is paramount, and our designs reflect that priority. We understand that a pleasant and functional environment for hospital staff is integral to providing high quality care and fostering high levels of professional conduct. Omni also has the experience necessary to phase the design and construction process in such a way as to minimize disruptions of existing operations and to provide hospital staff, patients, and visitors with a safe environment during the construction process.

I will serve as Principal in Charge of the Project. It has always been Omni's practice that a principal remains with the project from commencement to completion in order to guarantee a constant level of dedication and commitment. As the primary contact with the hospital, I intend to foster mutual respect and facilitate effective communication, which are the basis of all of Omni's client relationships, with you, the Owner, as well as with ZDS Design in order to maximize the coordination of our projects. I will also assume direct responsibility for all projects, personnel, and sub-consultants assigned to perform any work under our contract.

I am pleased to include **Harper Engineering, Allegheny Design Services, and Terradon Corporation** in our specialized design team. We have specifically selected our team based upon our experience in working with these consultants and our knowledge of their skills, experience, and superior services. Omni has a long and successful history of collaboration with these consultants. We are a proven team that listens, produces a quality product, and provides professionalism and attention to detail from the first sketch to the completed project. Together, we look forward to bringing our expertise to the **William R. Sharpe, Jr. Hospital** and being able to deliver a contextual design that meets your program, schedule and budget restraints.

Thank you for giving us the opportunity to present our credentials. We would enjoy the opportunity to personally meet with the selection committee to discuss our professional experience in greater detail.

Best regards,
OMNI ASSOCIATES - ARCHITECTS



Edward A. Luthy AIA, NCARB
Principal



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

Request for Quotation

RFQ NUMBER

WSH12067

PAGE

1

ADDRESS CORRESPONDENCE TO ATTENTION OF:

ROBERTA WAGNER
304-558-0067

RFQ COPY

TYPE NAME/ADDRESS HERE

Omni Associates - Architects, Inc.
1543 Fairmont Ave., Ste. 201
Fairmont, WV 26554

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

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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
10/13/2011				

BID OPENING DATE: 10/27/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
1. QUESTIONS AND ANSWERS ARE ATTACHED. 2. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID.						
EXHIBIT 10						
REQUISITION NO.: WSH12067						
ADDENDUM ACKNOWLEDGEMENT						
I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.						
ADDENDUM NO.'S:						
NO. 1 ✓						
NO. 2						
NO. 3						
NO. 4						
NO. 5						
I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE 304-367-1417	DATE 10/27/2011
TITLE Principal	FEIN 55-0747253	ADDRESS CHANGES TO BE NOTED ABOVE

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



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

Request for Quotation

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PAGE

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ADDRESS CORRESPONDENCE TO ATTENTION OF:

ROBERTA WAGNER
304-558-0067

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HEALTH AND HUMAN RESOURCES
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10/13/2011				
BID OPENING DATE: 10/27/2011		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.						
<p>..... SIGNATURE Omni Associates - Architects, Inc. COMPANY 10/27/2011 DATE</p>						
NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.						
REV. 09/21/2009						
END OF ADDENDUM NO. 1						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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



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

Request for Quotation

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3

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

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TYPE NAME/ADDRESS HERE

Omni Associates - Architects, Inc.
1543 Fairmont Ave., Ste. 201
Fairmont, WV 26554

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

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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/23/2011				

BID OPENING DATE: 10/27/2011 BID OPENING TIME 01:30PM

10/27/2011			BID OPENING TIME 01:30PM			
LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR EOI:						
				304-367-1418	-----	
CONTACT PERSON (PLEASE PRINT CLEARLY):						
				Edward A. Luthy AIA, NCARB	-----	
***** THIS IS THE END OF RFQ WSH12067 ***** TOTAL: _____						

SIGNATURE	TELEPHONE	DATE
	304-367-1417	10/27/2011
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Principal	55-0747253	

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

RFQ No. WSH12067STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT**

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATUREVendor's Name: Omni Associates - Architects, Inc.Authorized Signature:  Date: 10/26/2011State of West VirginiaCounty of Marion, to-wit:Taken, subscribed, and sworn to before me this 26th day of October, 2011.My Commission expires February 9, 2021.

AFFIX SEAL HERE

NOTARY PUBLIC



William R. Sharpe, Jr. Hospital New Patient Care Unit

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Purchasing Affidavit

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- Technical Competencies
- Project Team Qualifications
- References
- Project Experience

Omni Associates - Architects, Inc.—Architectural / Project Lead

Allegheny Design Services—Structural Engineering

Harper Engineering, Inc.—MEP HVAC Engineering

Terradon Corporation—Civil Engineering



William R. Sharpe, Jr. Hospital New Patient Care Unit

Proposal

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

Voice.304.367.1417
Facsimile.304.367.1418

Email: dave@omniassociates.com
World Wide Web: www.omniassociates.com



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Purchasing Division

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Project Understanding, Approach and Plan

The design of any great facility is derived from the aspirations, goals and limiting restraints that are involved in the evolution of the project. Omni Associates – Architects, Inc. has had a successful history of designing intimately with each client and working out collaborative solutions that meet the goals of the project. 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. We believe that our variety of work, combined with our specific experience with educational facilities, sets us apart as the best qualified architectural firm for your project.

Patient care is paramount.

Omni has extensive experience in the design and construction administration of health care facilities. We know that patient care is paramount, and our designs reflect that priority. We understand that a pleasant and functional environment for hospital staff is integral to providing high quality care and fostering high levels of professional conduct. Omni also has the experience necessary to phase the design and construction process in such a way as to minimize disruptions of existing operations and to provide hospital staff, patients, and visitors with a safe environment during the construction process.

We listen, then lead.

The design process is integral and requires close communication. The project team, including the owner and 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. Our goal is to foster mutual respect and facilitate effective communication among all interested parties. The consistency afforded by this approach allows us to respond expeditiously and cost effectively to our clients' needs.

The Architect is a liaison for decisions to and from the owner and the prime coordinator to all consulting engineers and contractors during construction.

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.

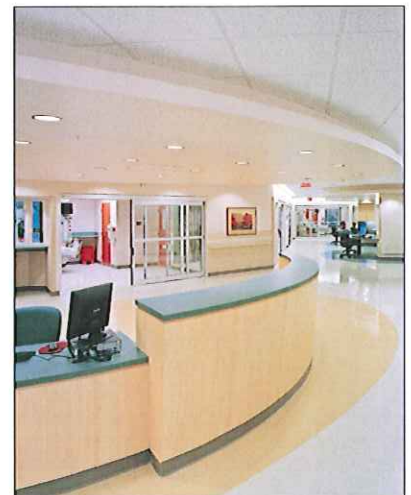
Your project shall be a unique design that derives from strategic planning recognizing the site context along with the design input of all the participants.

To that end, we have implemented a feed-back process for every stage of a project to ensure that the program needs of the client are met and that the Contract Documents reflect the intent as well as the content of the design. Owners' representatives are not only present but heavily involved with all project meetings so that any decisions to confirm or change an owner's program needs can be addressed directly during each step of construction.

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Technical Competencies

Omni Associates – Architects, Inc. is an award-winning architectural firm located in Fairmont, West Virginia. Since its inception in 1980, Omni has earned recognition as a specialist in the programming, planning, and design of a wide variety of facilities including education facilities, healthcare facilities, commercial offices, high technology centers, and military facilities.

Omni's professional staff is comprised of dedicated, experienced, and creative individuals. Our skilled team includes **5 registered architects**, intern architects, computer-aided design specialists, and knowledgeable administrative support staff. Their quality, expertise, and dedication integrate to produce the solid foundation upon which Omni has built its reputation.

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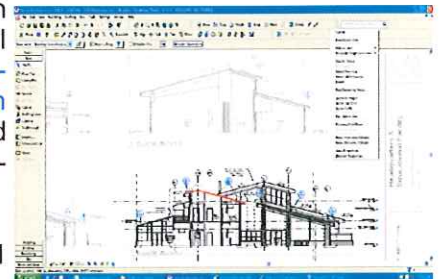
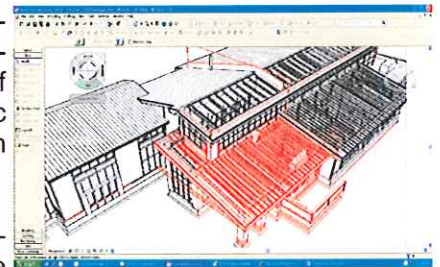
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BIM: Building Information Modeling



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 first considered the transition from traditional CAD software to Autodesk REVIT Building Information Modeling (BIM). We recognized the benefits to both designers and owners of sharing a model among all of the design disciplines: more efficient, cost-effective projects, and an accurate building model that can later assist in energy analysis and building management. **Omni implemented the use of BIM (REVIT) as our primary software platform for all projects in 2006.** As an **authorized BETA software tester for Autodesk**, Omni was provided the opportunity to test next generation software before it was released to the general public.



Omni staff member Reuben Losh is now an Autodesk Revit Architecture 2011 Certified Associate. 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. 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.



In utilizing BIM on these recent projects, we have found that **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.** Sharing the model between all disciplines as the design progresses allows early input from all of the design professionals involved, resulting in efficient designs. 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.



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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 two LEED Accredited Professionals. Terradon Corporation and Tower Engineering also include LEED Accredited Professionals.

Canaan Valley Institute's new 28,866 square foot headquarters and education facility located in Davis, West Virginia serves as a center for research into water and wastewater issues. In accordance with CVI's mission, the Omni design team planned a "green" building that demonstrates environmentally friendly systems to visitors. It is among the first conference facilities in West Virginia to achieve Silver LEED™ Certification.

Omni is also the Architect for the Mon Power Regional Headquarters in Fairmont, West Virginia. The new construction project has recently been LEED™ Certified.

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Our current LEED projects include:

- ♦ WVARNG Fairmont Armed Forces Readiness Center—Following LEED standards but will "self-certify".
- ♦ GSA Fairmont Office Complex—Seeking Certification under LEEDv3
- ♦ GSA Charleston Office Complex—Seeking Silver Certification under LEEDv3

Tower Engineering also takes great pride in implementing environmentally conscious solutions to building issues. Tower designs building systems that use material, energy and water resources efficiently, minimize site impacts, and address health issues relating to the indoor environment. In addition to being a member of the U.S. Green Building Council, Tower Engineering's staff includes LEED Accredited professionals.



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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 between 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.

Cost Estimating

We take pride in our approach to solving our client's aesthetic goals while meeting budgetary constraints. [Public bids for our three most recent projects have come in at or below project budgets.](#) Omni utilizes several methods of cost estimating to assist our clientele in project budgeting. Whenever possible, Omni utilizes historical data from previous projects. Often, we work with leading construction firms in our region and seek their professional guidance in project cost estimating. They evaluate a set of progress prints provided by our firm to determine estimated construction costs. We also subscribe to construction-estimating periodicals such as *Means Square Foot Costs*. These resources provide reliable costs of construction for various construction types.

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.

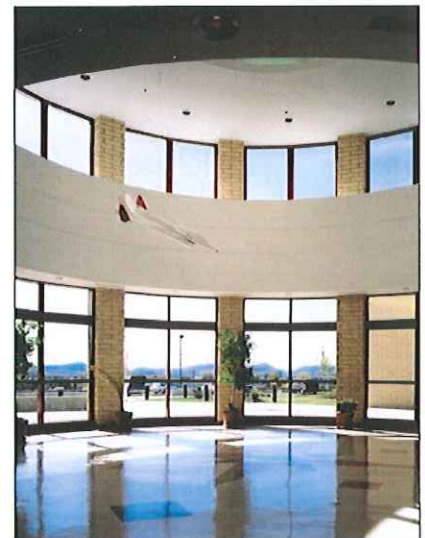
Time and Budget

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. Omni Associates – Architects is a known quality provider with fifteen years of experience in performing for the West Virginia High Technology Consortium Foundation (WVHTCF) in regards to quality of work, cost control, and compliance with performance schedules. We had the unique experience of working on the WVHTCF Incubator Center project which involved four separate government agencies, each with its own quality and performance guidelines. Not only was this project delivered on-time and within the budget but many of these agencies expressed surprise in the ease of the development of the project.

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Building Code Compliance

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 25 years.

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).

Other sources include 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.

Recognized Project Success

We have a feed-back process in place for every stage of a project to ensure that the program needs of the client are met and that the Contract Documents reflect the intent as well as the content of the design. Owner's representatives are not only present but heavily involved with all project meetings so that any decisions to confirm or change the owner's program needs can be addressed directly during each step of construction. Omni Associates – Architects has had a successful history of designing intimately with each client and together working out collaborative solutions that meet the goals of the project. Your project, like each project we undertake, shall be a unique design that derives from strategic planning recognizing the site context along with the design input of all the participants. The process is integral and requires close communication.



Omni Associates - Architects provides clients with the results they value most: innovative designs consistent with the building program, cost effective designs which meet the budget, efficient management to provide on-time deliverables and completion. We are a proven team that listens, produces a quality product, and provides professionalism and attention to detail – from the first sketch to the completed project. 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. We're confident of our reputation and expertise, and our clients are confident that they will receive superior services.

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Project Team Qualifications

Project Team Introduction

The project team that you select will be one that will work with you over the upcoming years. Our dedicated and experienced staff brings a unique level of ingenuity to every project. 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.

The Omni project team goes beyond our in-house staff to include consultants, client representatives, owners, and a construction manager, as required. *The involvement of project team members in all phases and facets of a project allows us to combine broad experience and personal accountability.* 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.

It is these sensitivities that have dictated the creation of this team to include *Omni Associates - Architects, Allegheny Design Services, Harper Engineering, and Teradon Corporation.* We have specifically selected our team based upon our experience in working with these consultants and our knowledge of their skills, experience, and superior services. Together, we look forward to bringing our expertise to the **William R. Sharpe, Jr. Hospital** and being able to deliver a contextual design that meets your program, schedule and budget restraints.

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Omni Associates - Architects has created a team of designers and engineers who provide services for the specific needs of this project which includes compliance with performance schedules.



Omni works "hands-on" with the stakeholders of a project and has a very fluid approach to design and documentation. The advantage is that *contact is immediate.* This level of communication is not achieved by long-distance communications and formal meetings. Fairmont State University, the City of Fairmont, WVU Hospitals, Mylan Pharmaceuticals and The West Virginia High Technology Consortium Foundation have selected Omni Associates for numerous projects and have benefited from our accessibility and "hands-on" approach. We believe you will too.

Omni provides clients with the results they value most: innovative designs consistent with the building program, cost effective designs which meet the budget, and efficient management to provide on-time deliverables and completion. We are a proven team that listens to our clients, produces a quality product, and provides professionalism and attention to detail – from the first sketch to the completed project. These are qualities that appeal to our clients and draw them back for future projects, which results in lasting relationships. That's why *we enjoy a repeat client rate of more than 90% - a source of considerable pride.* We're confident of our reputation and expertise, and our clients are confident that they will receive superior services.



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Qualifications of Team Members

Our team consists of professionals with specific project experiences in school campus planning and design. The following is an introduction to our proposed design team. More detailed information, including resumes and relevant project experience, about each of our team members is included in the following sections of our response.

Omni Associates – Architects, Inc.

Omni Associates will serve as the lead firm and coordinator of architectural and engineering services for William J. Sharpe, Jr. Hospital. Omni organizes our 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 to effectively manage and perform multiple task orders of any size.

Omni has extensive experience in the design and construction administration of health care facilities. We know that patient care is paramount, and our designs reflect that priority. We understand that a pleasant and functional environment for hospital staff is integral to providing high quality care and fostering high levels of professional conduct. Omni also has the experience necessary to provide hospital staff, patients, and visitors a safe environment during the construction process.

Edward A. Luthy AIA, NCARB—Principal and Project Architect

In order to guarantee a constant level of dedication and commitment, [it is Omni's philosophy that a principal remains with the project from commencement to completion](#). As a Principal-in-Charge and Project Architect, Mr. Luthy's primary responsibility is to develop the overall concept of design and perform technical tasks including: Project space programming; Schematic layout of functional spaces; Aesthetic design and development; Concept and coordination of building systems; Preparation of bidding documents and material specifications; Project management, and Construction administration.

Mr. Luthy joined Omni Associates in April 2008, and was named Senior Associate in November 2009. During his time at Omni, Mr. Luthy has served as Project Manager for the new Allegheny Energy Transmission Operations Headquarters located at the I-79 Technology Park in Fairmont. He is project architect for the recently completed Shaft Drillers International Headquarters and project manager for the newly designed State Office Building in Fairmont.

Originally from Flagstaff, Arizona, Mr. Luthy received his Bachelor of Architecture degree from the University of Arizona in 1986. He is currently registered in West Virginia and is NCARB Certified. With over 20 years spent in the practice of architecture, Ned's career includes diverse experiences with a strong focus on educational facilities as well as government buildings and detention centers.

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Harper Engineering

Jason E. Harper, PE

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. Their experience with historical renovation includes the Alpha and Bravo Building in Charleston, a \$6,400,000.00, 50,000 square foot project that will house the Kanawha County Sheriff's Department and the Prosecuting Attorney's Office. Harper Engineering's goal is to design optimized systems that meet all of the client's performance, energy use, and budgetary needs.

West Virginia
Department of Administration
Purchasing Division

Buyer:
Roberta Wagner - File 22

RFQ: WSH12067

Allegheny Design Services

David R. Simpson, PE

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 the latest engineering design and drafting software 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

Gregory D. Fox, ASLA

Terradon Corporation offers a wide range of civil engineering and environmental services, and is particularly suited to land and infrastructure design and development in the mountainous areas of West Virginia and the Eastern United States. Formed in 1989, its staff includes engineers, landscape architects, surveyors, land planners, environmental scientists, designers, and technicians. The firm has built its reputation by providing cost effective design solutions and maintaining the highest level of customer service.

Because of the extent of services they offer, Terradon is regarded as one of the region's leading land and infrastructure planning and design firms. Terradon has vast experience working in the challenging mountainous terrain of West Virginia. Established relationships with government agencies facilitate the permitting process. Terradon understands that for the owner, time is money.

Terradon has worked on over 70 educational project throughout West Virginia since 2000.



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Relevant Projects

The following completed and ongoing projects demonstrate this design team's ability to execute projects relevant to the William J. Sharpe, Jr. Hospital addition and renovation. More detailed information for each of the bulleted projects can be found at the end of this proposal.

- ♦ **Sundale Palliative Care Addition**
- ♦ **Ruby Memorial Hospital North/Northeast Expansion**
- ♦ **Rosenbaum Family House at WVU Hospitals**
- ♦ **WVU Hospitals Cheat Lake Physicians Clinic**
- ♦ **WVU Hospitals / University Health Associates MRI**
- ♦ **WVU Hospitals Gamma Knife**
- ♦ **The Madison Nursing & Rehabilitation Center**
- ♦ **Shenandoah Nursing & Rehabilitation Center**
- ♦ **Mylan Executive Offices**
- ♦ **Mylan North Expansion**

West Virginia
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RFQ: WSH12067

WVU Hospitals

Health Sciences Center PET/CT Scanner
ECT Clinic
Sleep Center
Long Term Acute Care
Linear Accelerator #1
Linear Accelerator #2
Eye Center 3rd Floor

Preston Memorial Hospital

MRI Addition
Feasibility Study
ER Renovation
Birthing Center



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Collaborative Project Life-Cycle

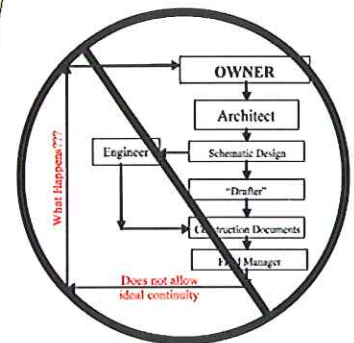
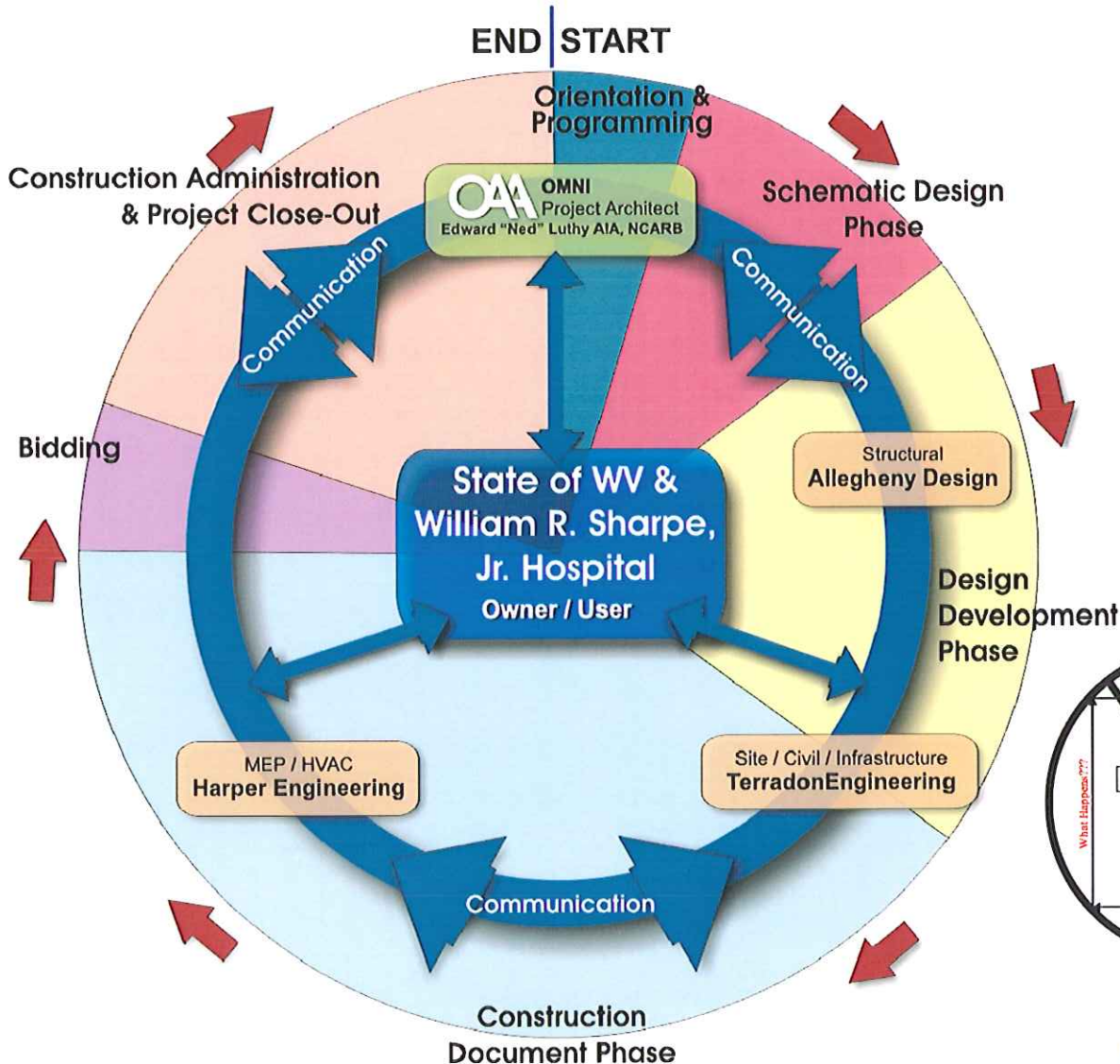
Omni uses a circular communication approach in which all stake-holders are involved throughout the entire project schedule. Many projects that follow a more traditional linear approach eventually suffer from a lack of continuity of ideas. Our approach allows everyone to continuously evaluate and make decisions in an ongoing process and avoids reworking design documents, which can lead to loss of time and money. Owners benefit from this type of organization that manages the flow of information and allows for flexibility during the Project process.

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Buyer:
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RFQ: WSH12067

OMNI Collaborative Project Life-Cycle



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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.

First Energy
800 Cabin Hill Drive
Greensburg, PA 15601-1689

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

City of Fairmont
200 Jackson Street
Fairmont, WV 26554

Canaan Valley Institute
P.O. Box 673
Davis, WV 26260

West Virginia Army National Guard
1707 Coonskin Drive
Charleston, WV 25311-1099

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

Fairmont State University
Locust Avenue
Fairmont, WV 26554

Ms. Linda Moss
Director, Ops Support
301.790.6413

Mr. Brad Calandrelli
Facility and Property Program Manager
304.366.2577 ext. 233

Mr. Jay Rogers
City Planner
304.366.6211

Mr. Dan Wheeler, Construction Manager
Science & Technology Team
304.463.4739

BG Melvin Burch
Div. of Engineering & Facilities
304.561.6450

Mr. Neil Quinn
Clerk of the Works
304.326.7305

Mr. James Decker
Assistant Vice President, Physical Plant
304.367.4861

West Virginia
Department of Administration
Purchasing Division

Buyer:
Roberta Wagner - File 22

RFQ: WSH12067

"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
Former President
Fairmont State University

"...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



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ARCHITECTS

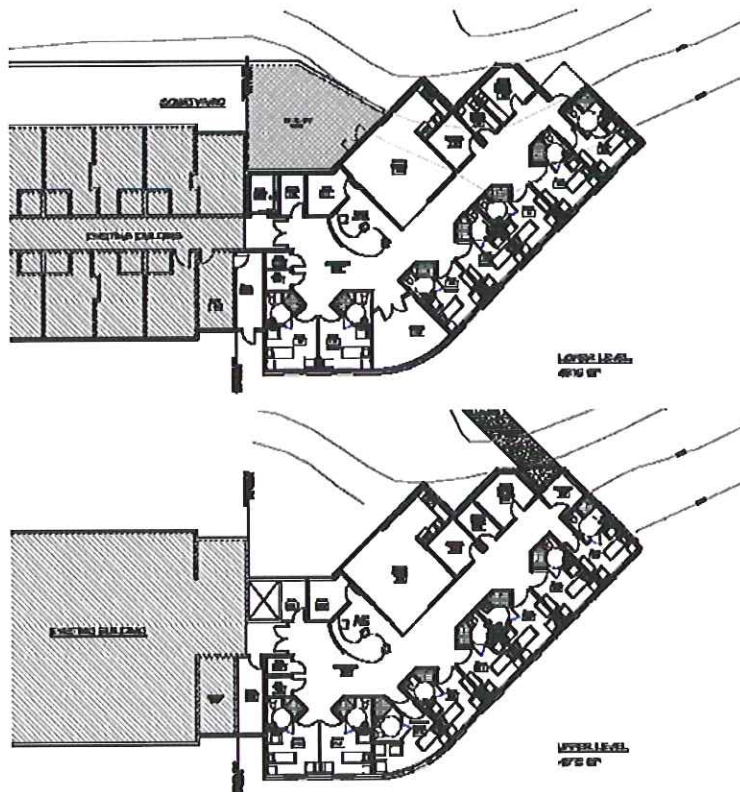
Palliative Care Center Addition at Sundale



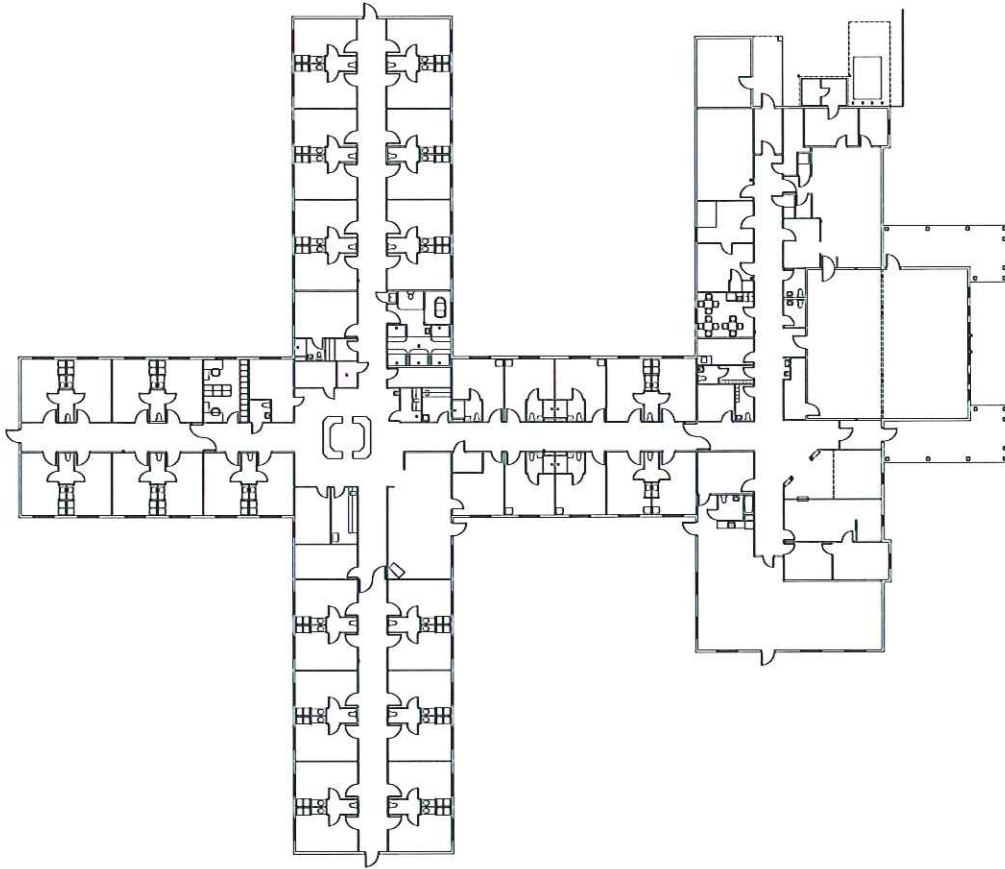
Palliative Care Center at Sundale
Morgantown, West Virginia

9,085 Square Feet

2 Floors—15 Private Rooms



Shenandoah Nursing & Rehabilitation Center



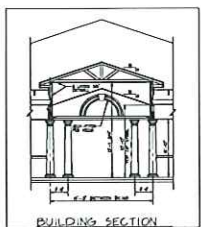
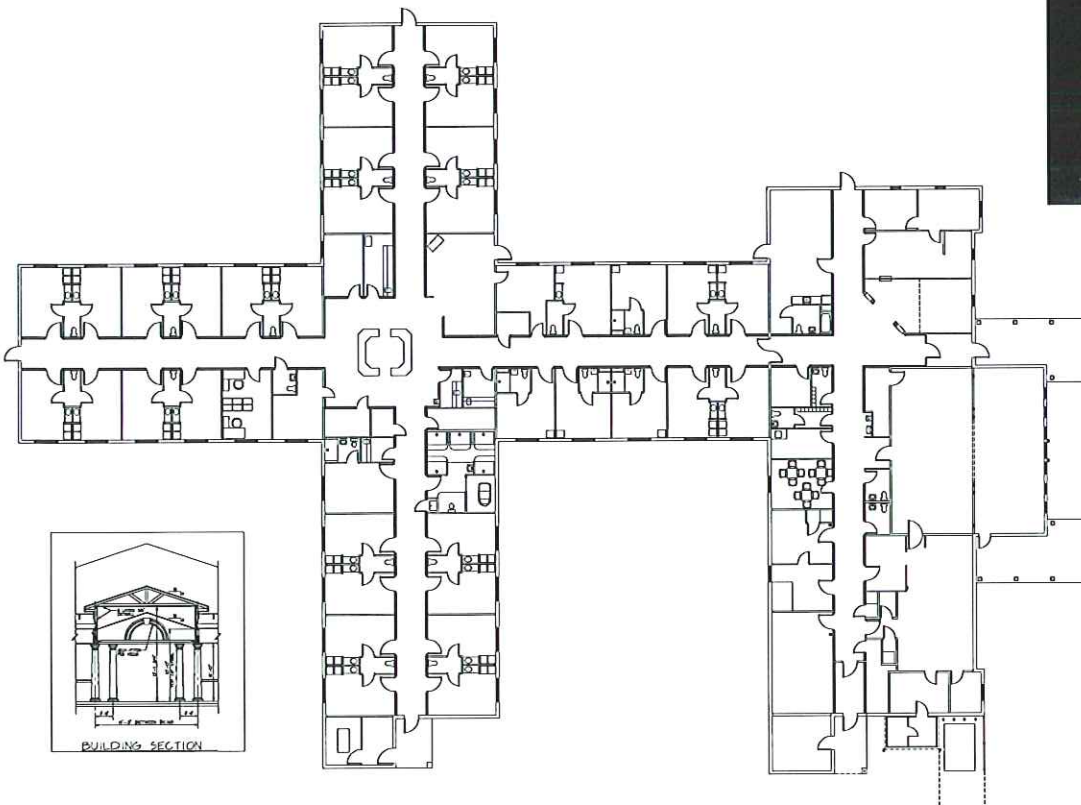
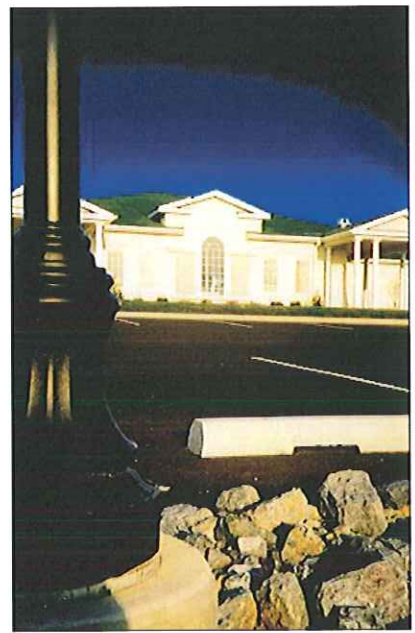
Shenandoah Nursing & Rehabilitation Center
Glenmark Associates
Charles Town, West Virginia
78 Bed Facility
27,677 Square Feet



The Madison: Nursing & Rehabilitation Center



The Madison: Nursing & Rehabilitation Center
 Glenmark Associates
 Morgantown, West Virginia
 62 Bed Facility
 23,800 Square Feet



Genesis Youth Crisis Center

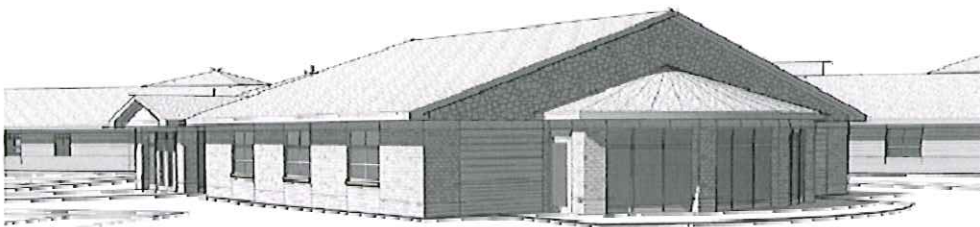


Genesis Youth Crisis Center, Inc. provides a temporary safe haven and nutritional, educational, and supportive services for children who have been removed from their homes as a result of domestic violence, abuse, neglect, or have run away or are homeless.

Genesis selected Omni Associates – Architects via a competitive selection process in 2000. Omni worked with the client for several years developing numerous programs and schematic layouts for all of its facilities, including Genesis Youth Center and Alta Vista Shelter, until a piece of property was purchased in Harrison County for a new 14,400 square foot Youth Center.

The program requirements created an opportunity for the architect to design a residential structure that would also house the crisis center, administrative offices, classrooms, kitchen and gymnasium. Two wings of the building house the residential board and care unit. They include 8 single occupancy bedrooms of approximately 110 square feet and 4 double occupancy bedrooms of approximately 165 square feet. The bedrooms are connected by a lounge and clerestory recreation area. Four residential style bathrooms are provided along with staff offices and a laundry room. The service wing houses the classroom and cafeteria with occupancy for 20 people. The business wing is located at the front of the building with its only connection via a common secured entrance. The business wing consists of eight offices, a break room and a conference /training room.

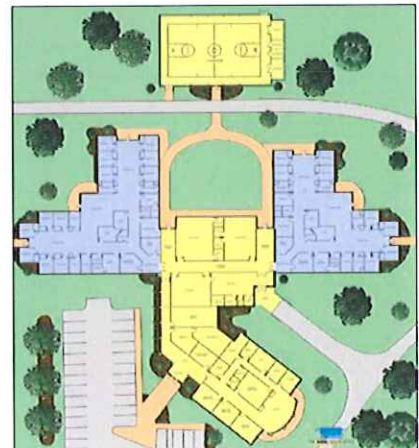
The new campus will nearly double the number of beds provided by Genesis Youth Center and Alta Vista Shelter combined in the hopes that no child will be turned away for lack of room.



Genesis Youth Center Clarksburg, West Virginia

Estimated Construction Cost: \$6 Million
Project Status: Fund Raising

Main Facility: 23,173 Square Feet
Gymnasium: 4,588 Square Feet
Total Project: 27,761 Square Feet





Ruby Memorial Hospital North / Northeast Expansion



Clinical Expansion

Ruby Memorial Hospital
WVU Hospitals
Morgantown, West Virginia

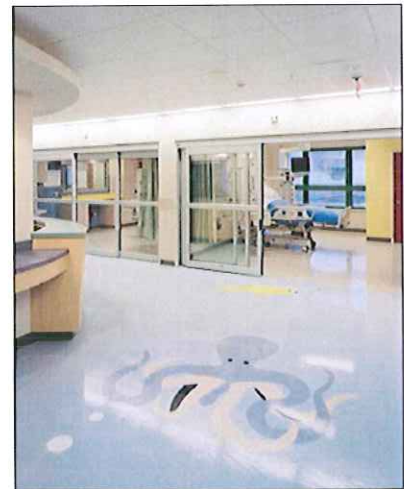
Total Project: \$39 Million
North Addition - 46,324 Square Feet
Northeast Addition - 134,454 Square Feet
Total Project: 180,778 Square Feet

Services Provided: Full Architectural /
Architect of Record

Owners Representative:
Robert Carubia AIA, Asst. Vice President:
WVU HSC Facilities Planning
304.598.4274

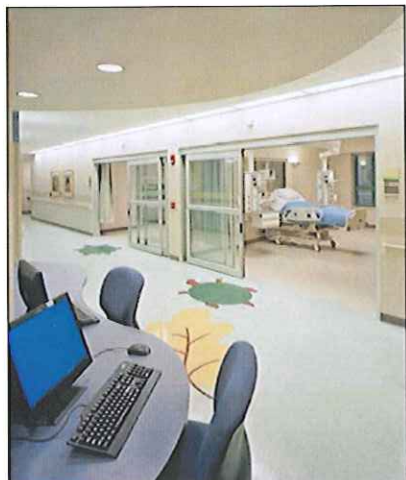
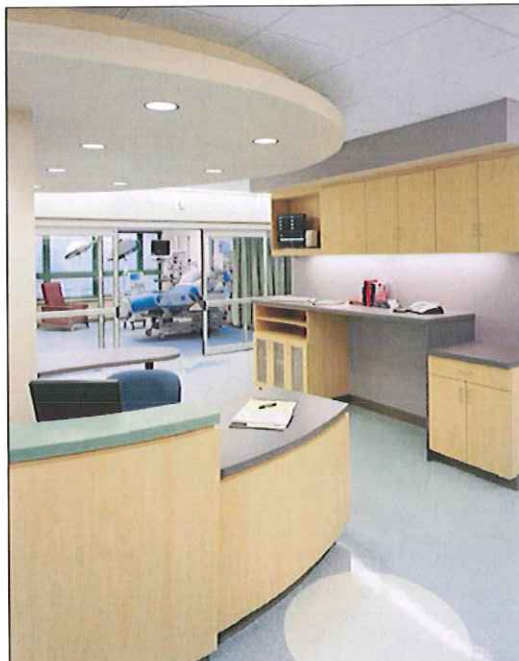
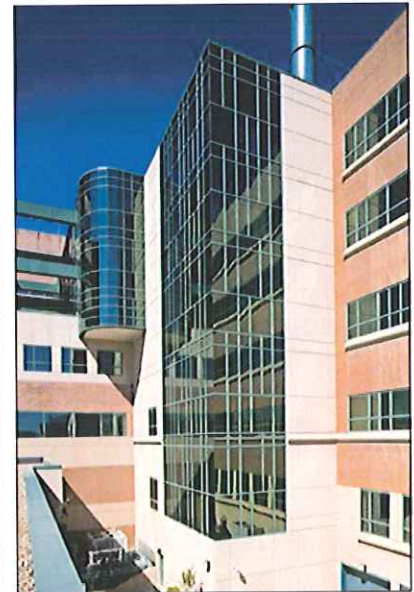
The North & Northeast Additions to WVUH comprise an integral part of the hospital's overall Master Plan. The North addition is approximately 40,000 sq. ft. in area and adds two stories to the existing structure. A new surgical suite on the 5th floor includes 6 new operating rooms and extra space for 4 future ORs necessitated by the rapid expansion of the hospital. The 6th floor boasts a much improved Biomedical Engineering area and other staff offices.

The Northeast addition totals at approximately 125,000 sq. ft. and is 8 stories in height. This structure allows for the expansion of several of the existing hospital departments and for the creation of some new ones as well. These include enlarged shipping & receiving areas, conference rooms, Intensive Care Unit, and Pediatric Intensive Care Unit. There is also a new Skilled Nursing Unit (SNU) and a Long Term Acute Care Hospital (LTACH). These provide the hospital with a total of 82 new patient rooms, with space for future expansion.

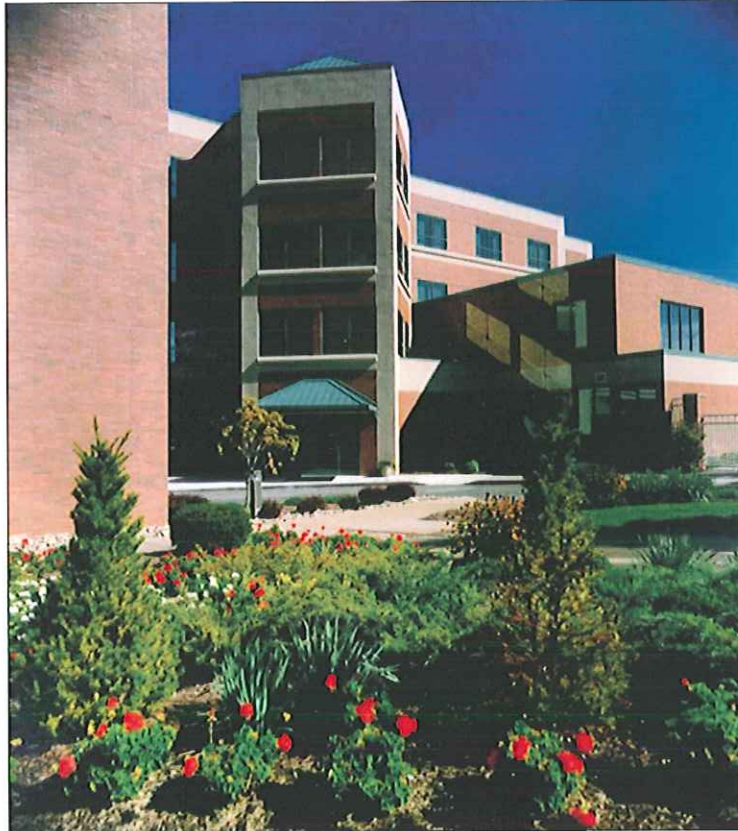
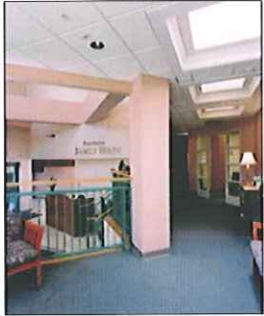




Ruby Memorial Hospital North / Northeast Expansion



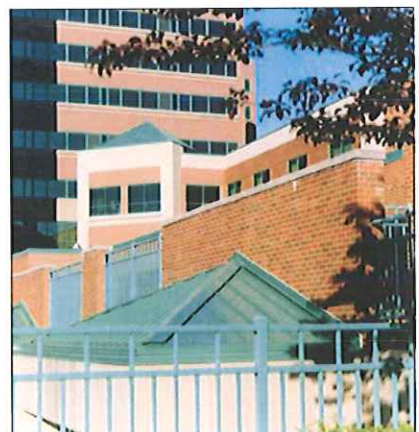
Rosenbaum Family House at WVU Hospitals



WEST VIRGINIA UNIVERSITY HOSPITALS

Rosenbaum Family House

WVU Hospitals
Morgantown, West Virginia
28,000 Square Feet
20 Rooms
5 Apartments



The Family House was created to form an environment for patients and their families who require a long stay at the hospital, but do not require a bed in the hospital. As a part of the treatment for organ transplant and cancer patients, it is beneficial to provide a place where the patient can be away from the institutional environment and spend valuable time with their families both before and after the treatments.

The site required that the building be connected to the hospital so patients can freely go to the proper care areas and even use the hospital's cafeteria and other services. The site was difficult due to the severely sloping site and the confined area between the hospital to the west, the access drive on the south, the day care center to the east and large buried utilities on the north. The lower two floors connect the hospital to the conference rooms of the day care center and the upper two floors create a private environment for the Family House guests. The elevator and upper floor connections are controlled by card access to members only.



Rosenbaum Family House at WVU Hospitals

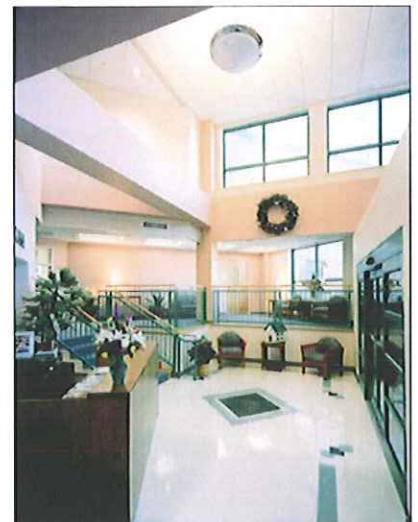
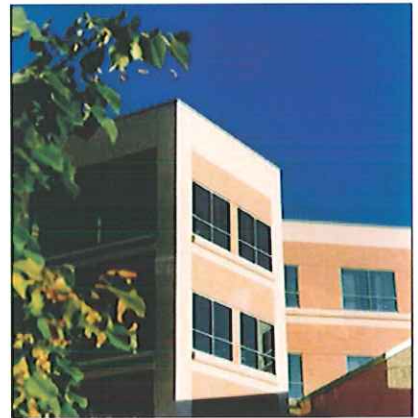
The building massing was required to "blend" with the existing institutional urban articulation of the existing buildings. However, the interior of the lobby and the guest room areas needed to be an inviting and warm atmosphere that provided a sense of shelter and private care.

The Family House provides an internal environment of hospitality that gives the "guests" a level of pampered care. It contains hotel-like rooms, apartments for longer stays, a "quiet" lounge and an "activity" lounge. Each floor has a community kitchen and the third floor opens out to a semi-private outdoor garden space. The corridors open up to sequential entrances to the rooms. The interior spaces have large windows to flood the rooms with light and allow views out to the stadium on one side and the garden space on the other side.

Each family has private access to their room and can use the community spaces for group activities. Colors were selected to be elegant and give a sense of charm. Laundry and storage for personal possessions is also provided. The "bridge" connections allow patients direct access to the hospital for their care and emergency needs. Before this facility, patients had to travel for daily treatments or consultations and then try to secure hotel space in the area.

The lower lobby provides a guest entrance for the Family House but also is a breakout lounge for the adjacent conference rooms and provides direct access to the hospital's lobby and gift shop. This area has become a major connection for the three connected facilities.

The Family House has become an uplifting experience for the patients and the families that use the rooms and activity spaces as a part of their health recovery.



West Virginia University Hospitals Cheat Lake Physicians Clinic



A reclaimed fill site on the edge of a valley view was selected by a multidiscipline health care group for their outpatient clinic. The triangular site was barely enough space to fit the program that included the need for a future expansion space. The clinical space had to be divided into five sub-groups yet flexible enough to act as flex space if one group needed exam space adjacent to another grouping.

The overall experience was to be one of arrival to a relaxing and inviting space that dispelled the common institutional environment. The large vaulted entry and waiting area was more like a hotel lobby and allowed light to filter into warm and soft surroundings. The seating was grouped so children and their parents could have a place next to but segregated from other patients. The multiple entry points into the exam pods allowed for easy flow of the various patient care needs.

Each exam group was accented by some special feature like the skylight areas, lighting or other references so flow through an otherwise uniform geometry could have identity for various areas. The desire for light and openness combined with the requirement for privacy and security had to be integrated into the design. The common spaces are high, open and well lit with natural light while the triage and exam areas allow for privacy even if doorways are slightly ajar. This allows staff and patients to flow freely without interfering with proper concern for patient care.



Cheat Lake Physicians Clinic

WVU Hospitals
Morgantown, West Virginia
Outpatient Healthcare Clinic

Main Floor: 13,595 Square Feet
Lowe Floor: 2,465 Square Feet
Total Project: 16,060 Square Feet
Construction Cost: \$2,571,743.00

Services Provided: Full Architectural /
Architect of Record

Owners Representative:
Robert Carubia AIA, Asst. Vice President:
WVU HSC Facilities Planning
304.598.4274



West Virginia University Hospitals Cheat Lake Physicians Clinic

Special procedure rooms were tucked into strategic corners so that they are easily accessible. Minor procedures, testing and diagnostic can all be performed in a comforting environment. Windows were placed high on the elevations to allow for daylight into the exam rooms without patients feeling as if the world was looking into the space.

The building form was simple geometry to allow for group clusters of similar size on the interior. The entry element acts as an arching connector for the current and future wings and creates the fulcrum to balance the diagonal boxes that fit on the triangular site. The use of common materials in a collage fashion breaks down the low linear scale of the building mass.



WVU Urgent Care and WVU Pain Management Center

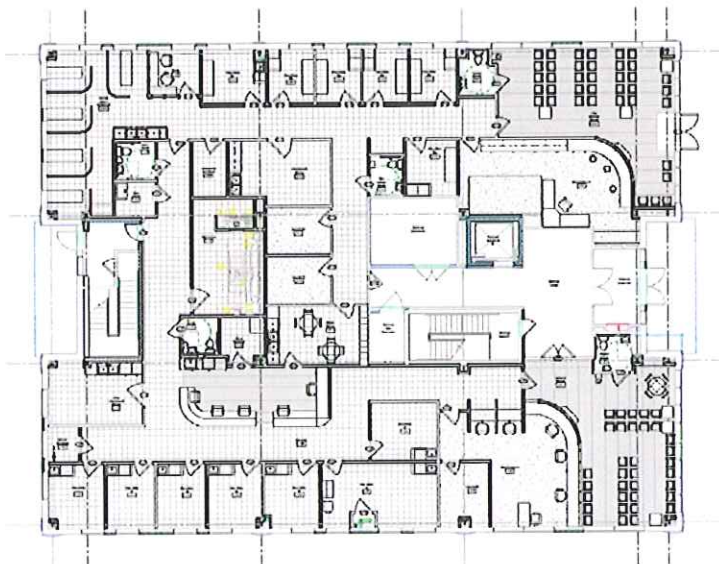
Location: Morgantown, West Virginia
Description: Urgent Care: 4,370 square feet
Pain Management Center: 4,258 square feet
Scope of Services: Architectural Services for a Design-Build delivery of a renovation
Construction Cost: \$480,000.00

Name of Project Owner: Glenmark Holding, LLC
Address: 6 Canyon Road, Suite 300
Morgantown, WV 26508
Phone Number: 304-599-3369
Owner's Project Manager: Mr. Mike Saab
Phone Number: 304-599-3369

Prime Contractor: Glenmark Holding, LLC
Address: 6 Canyon Road, Suite 300
Morgantown, WV 26508
Phone Number: 304-599-3369

Date of Project Completion: 2007

Description: Omni Associates was commissioned by developer Glenmark Holding to design a new urgent care facility and pain management clinic for WVU. WVU Urgent Care is a walk-in clinic that provides a complete range of medical treatment for minor illness and injury. The facility includes on-site x-ray and laboratory services. The Pain Management Center offers various services for people with acute and chronic pain. It is a division of the WVU Department of Neurosurgery and part of the Spine Center at WVU Hospitals.



University Health Associates MRI Installation

Location: Morgantown, West Virginia
Description: 1,490 square feet
Scope of Services: Architectural and Mechanical and Electrical Engineering Services for a Design-Bid-Build delivery of a renovation

Construction Cost: \$620,000.00

Name of Project Owner: West Virginia Medical Corporation
Address: 1 Medical Drive
Morgantown, WV 26506
Phone Number: 304-293-1182
Owner's Project Manager: Ms. Sahar Alshallah
Phone Number: 304-293-1182

Prime Contractor: Landau Building Company
Address: 9855 Ranaman Road
Wexford, PA 15090
Phone Number: 724-935-8800

Date of Project Completion: 2008

Description: Improving patient care is a top priority of the West Virginia Medical Corporation. Although this was a relatively small project, its impact on patient care was great, and Omni Associates was happy to contribute with the renovation of the first floor of the Physicians Office Center to accommodate a new Phillips MRI unit and patient prep room.



Heiskell King Burns & Tallman Surgical Associates

Location: Morgantown, West Virginia
Description: 37,000 square feet
Scope of Services: Full Architectural and Engineering Services for a tenant fit-out in an existing building
Construction Cost: **Unknown.** Because project was Design-Build, Omni did not process applications for payment.

Name of Project Owner: 705-Five Development Group
Address: 1298 Suncrest Towne Centre
Morgantown, WV 26505
Phone Number: 304-599-1232
Owner's Project Manager: Omni Associates—Architects
Phone Number: 304-367-1417

Prime Contractor: General Industries
Address: 15 Arentzen Blvd.
Charleroi, PA
Phone Number: 724-483-1600

Date of Project Completion: 2008

Description: Omni Associates was originally commissioned to design the shell of the three-story, mixed-use building located at 600 Suncrest Towne Centre. When Heiskell King Burns & Tallman Surgical Associates decided to relocate their offices to the third floor of the new building, Omni was retained to provide fit-out services. In addition to exam rooms, physician offices, and other standard patient and administrative spaces, this surgical clinic includes a nationally accredited laboratory offering ultrasound, duplex scans, echocardiogram and other vascular studies.



WVU Health Sciences Center PET/CT Scanner

Location: Morgantown, West Virginia
Description: 2,464 square feet
Scope of Services: Architectural and Mechanical and Electrical Engineering Services for a Design-Bid-Build delivery of a renovation

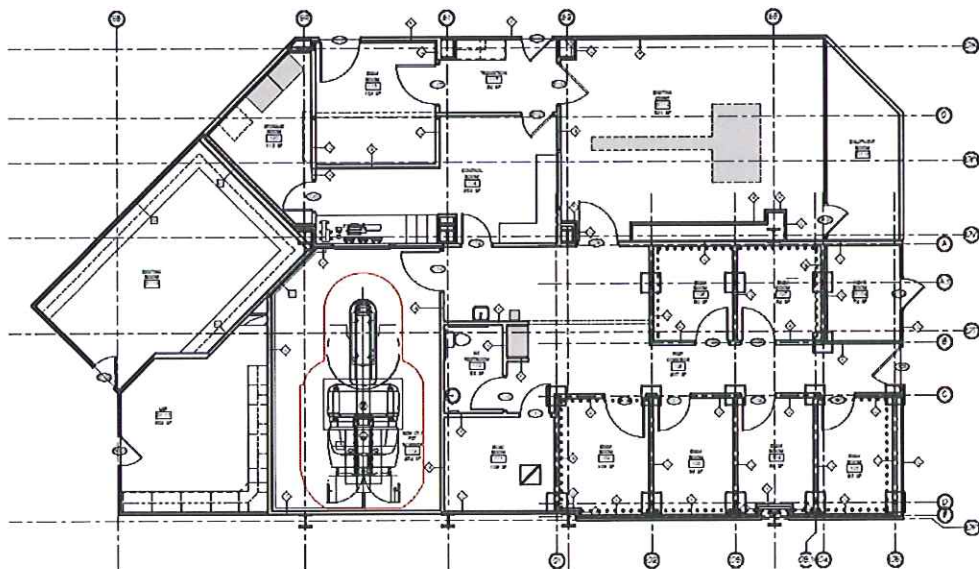
Construction Cost: \$782,000.00

Name of Project Owner: West Virginia University
Address: One Waterfront Place
Morgantown, WV 26506
Phone Number: 304-293-5711
Owner's Project Manager: Mr. Greg Andreas
Phone Number: 304-293-0733

Prime Contractor: Dan Hill Construction
Address: PO Box 685
Gauley Bridge, WV 25085
Phone Number: 304-632-1600

Date of Project Completion: 2009

Description: Improving patient care is a top priority of the West Virginia Medical Corporation. Although this was a relatively small project, its impact on patient care was great, and Omni Associates was happy to contribute with the renovation of the first floor of the Physicians Office Center to accommodate a new Phillips MRI unit and patient prep room.



WVU Heart Institute at Suncrest Towne Centre

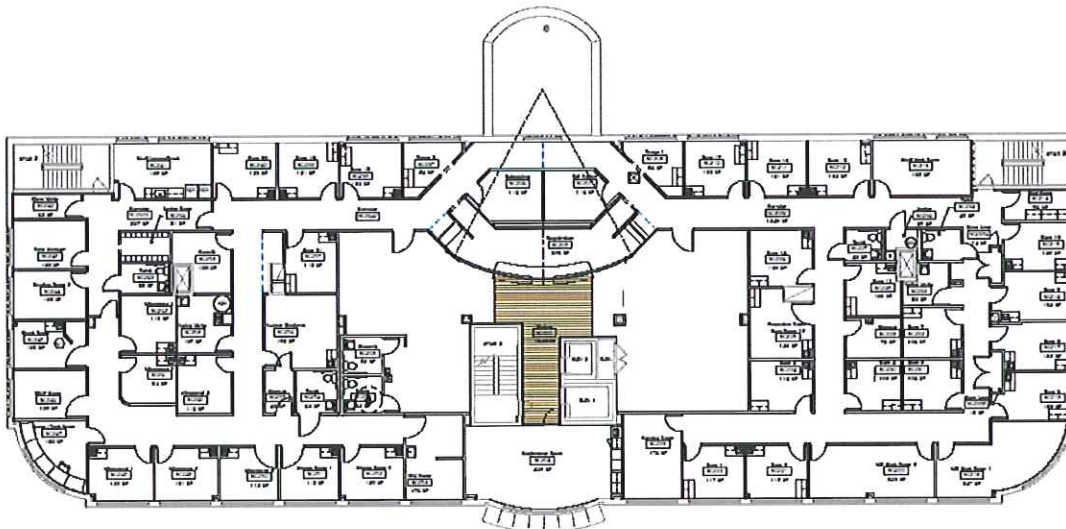
Location: Morgantown, West Virginia
Description: 16,000 square feet
Scope of Services: Full Architectural and Engineering Services for a tenant fit-out in an existing building
Construction Cost: **Unknown.** Because project was constructed by WVU's in-house construction crew, Omni did not process applications for payment.

Name of Project Owner: West Virginia University Hospitals
Address: PO Box 8027
Morgantown, WV 26506
Phone Number: 304-598-4125
Owner's Project Manager: Mr. Alan Neptune
Phone Number: 304-598-4125

Prime Contractor: West Virginia University Hospitals
Address: PO Box 8027
Morgantown, WV 26506
Phone Number: 304-598-4125

Date of Project Completion: 2010

Description: Omni Associates was originally commissioned to design the shell of the three-story, mixed-use building located at 600 Suncrest Towne Centre. When WVU Heart Institute decided to relocate their offices to the new building, Omni was retained to provide fit-out services for approximately 2,900 square feet on the ground floor to accommodate cardiac rehab and office space and 12,900 square feet on the second floor consisting of clinical exam, diagnostic and administrative office areas. The new state-of-the-art facility offers comprehensive and diagnostic services in one location.



Mountaineer Medical Office Building

Location: Bridgeport, West Virginia
Description: 51,124 square feet
Scope of Services: Full Architectural and Engineering Services for a Design-Build delivery of new construction
Construction Cost: \$7,200,000.00

Name of Project Owner: Mountaineer Medical Office Building, LLC
Address: 120 Medical Park Drive
Bridgeport, WV 26330
Phone Number: 304-599-0497
Owner's Project Manager: Dr. Kelly Nelson
Phone Number: 304-599-0497

Prime Contractor: March-Westin Company
Address: 360 Frontier Avenue
Morgantown, WV 26505
Phone Number: 304-599-4880

Projected Date of Project Completion: October 2011

Description: Mountaineer Medical Office Building is a four story, 51,000 square foot structure designed specifically for medical provider tenants. It is a steel frame structure with a combinations of brick veneer, insulated metal panels, aluminum store front windows and includes a portico share for patient drop off. The building features two passenger elevators for quick and efficient movement of patients. The tenant space is design with numerous "Wet Columns" throughout the space to allow for the vast array of plumbing needs required for medical office fit-out.



William R. Sharpe, Jr. Hospital New Patient Care Unit

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Purchasing Affidavit

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- Technical Competencies
- Project Team Qualifications
- References
- Project Experience

Omni Associates - Architects, Inc.—Architectural / Project Lead

Allegheny Design Services—Structural Engineering

Harper Engineering, Inc.—MEP HVAC Engineering

Terradon Corporation—Civil Engineering



Firm Overview



Omni Associates - Architects

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General



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 desires.

The Design Team

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 **5 registered architects**, intern architects, computer-aided design specialists, and knowledgeable administrative support staff. Their quality, expertise, and dedication integrate to produce the solid foundation upon which Omni has built its reputation.

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.

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

Firm Profile

Overview of Services

Omni Associates - Architects provides an array of in-depth professional architectural services. We are eager to discuss our experience and expertise in greater detail. These are a few types of professional services we offer...

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.

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, Inc.

Conceptual Design
& Planning

Master Planning

Design Development

Construction Document
Development

Bidding & Negotiating

Construction Administration

Facility Management
Services

Feasibility Studies

Legal Consultation



Firm Profile

Organization

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.

Technology

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.**

Building Information Modeling (BIM) involves creating a building in the virtual world before constructing it in the "real" world and allows the design team to anticipate conflicts and objections before they arise. We have found that this eliminates many issues which could result in project change orders or Requests For Information from the contractor. Also, the model can be shared between all disciplines as the design progresses. This allows early input from all of the design professionals involved, resulting in efficient designs. With a virtual model of the building, clients can clearly see the design intent as the project progresses. Design options can be explored with greater ease than ever before. An accurate building model can also assist in such things as cost and quantities estimating, energy analysis and building management – to name just a few.

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.

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

Member of The American Institute of Architects

Member of The West Virginia High Technology Consortium

Member of the Marion County Chamber of Commerce



Omni Associates - Architects, Inc.

Architectural Illustrations & 3D Modeling

Computer-Generated Architectural Renderings

Omni's computer rendering capabilities range from photo retouching, to simple 3D massing and studies, to 3D modeling in CAD from which a selected view is moved through a number of different programs and processes to result in a final finished rendering. We can produce a rendering from simple sketches or from plans and elevations. Omni has also produced conceptual illustrations from verbal ideas/instructions, sometimes adding our own design input and problem-solving during the process to improve aesthetics and reach a final image for presentation to a client or the media.

Before & After Photo Renderings

One of the very first questions our clients ask is, "What is it going to look like?" Omni can take a high resolution digital photograph of an existing condition and show what a new structure or modification would look like. This process eliminates the need for traditional models that are often expensive and time consuming to create. All textures, colors and lighting effects are applied to the model and it is positioned to match the perspective of the site photo. To give it an authentic feel, we add landscaping, people, cars, and any other necessary features and then combine the photograph and model to create a very realistic rendering.

Virtual Models

With the aid of state-of-the-art software, Omni is able to create "virtual reality" models that enable our clientele to "virtually" walk through or fly by a site or building. Omni's creative staff can generate these innovative methods quickly and efficiently, ultimately resulting in a cost savings to our clients.



Professional Staff

Stephen A. Barnum AIA, NCARB

PROJECT ASSIGNMENT
Supervising Principal
Coordinating Architect

EDUCATION

Mr. Barnum received his Bachelor of Architecture from Ohio University in 1971.

REGISTRATION

President and Architect Member of West Virginia Board of Architects
Member of The American Institute of Architects
Member of The American Institute of Architects—West Virginia
NCARB Certified #21583
States of West Virginia (#1663), Maryland, New York, Pennsylvania, North Carolina, Ohio, South Carolina, & Virginia

GENERAL EXPERIENCE

- Senior Principal in charge of Design and Construction for Omni Associates - Architects since 1980, Mr. Barnum is highly regarded as one of West Virginia's leading architects. His design expertise and construction experience serve as examples of the proficiency and professionalism that he embodies.
- Project Architect for Suncrest Towne Centre, a 102 acre master planned development of offices, shops, restaurants, and entertainment venues, as well as its residential component, Suncrest Village Luxury Condominiums.
- Project architect for several major projects at Snowshoe Mountain Resort, including lodging, condominiums, and the Hawthorne Valley Golf Clubhouse, as well as new Golf Course Clubhouses at courses designed by Pete Dye, Gary Player and Arnold Palmer.
- Mr. Barnum has complete five advanced design programs at Harvard University including Hotel Design, Golf Course Clubhouse Design, Mixed Use Design, and Design Build Construction Alternatives.

RELATED EXPERIENCE

- Mr. Barnum was appointed by the Governor of West Virginia to serve as a member of The West Virginia Board of Architects January 2007. He currently serves as President of the Board.
- Instructor of Architecture at Fairmont State College, Fairmont, West Virginia from 1980 to 1981. Responsible for instruction of students in architectural construction and design.



Select Project Experience for Mr. Barnum

Pierpont Landings
Suncrest Towne Centre
Suncrest Village Luxury Condominiums
Morgantown, WV

Snowshoe Mountain Resort
Snowshoe, WV
Master Planning
Rimfire Lodge
Hawthorne Valley Golf Clubhouse
Camp #4 Condominiums
Conference Center

Pete Dye Golf Club Clubhouse
Bridgeport, WV

Stonewall Resort
Arnold Palmer Clubhouse
Stonewall Resort, WV

Hotel Design
Volcano Island Resort Indoor Water Park & Resort - Fairmont, WV
Wingate Inn - Bridgeport, WV
Wingate Inn - Erie, Pa.
Wingate Inn - Rome, NY
Fairfield Inn - Granville, WV

Fairmont State University
Education and Health Careers Facility
Hardway Hall Renovations
Colebank Hall Renovations
Jaynes Hall Renovations

911 Facility
Monongalia County, WV
Lincoln County, WV

Robert C. Byrd National Technology Transfer Center for NASA
Wheeling, WV

Victory Christian Church
Charlotte, North Carolina



Omni Associates - Architects, Inc.

Professional Staff

Richard T. Forren AIA, NCARB



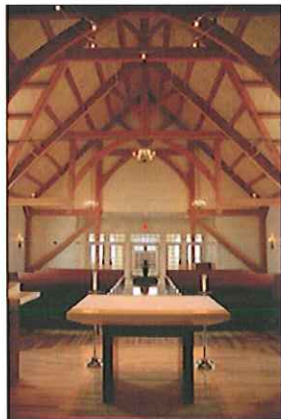
PROJECT ASSIGNMENT

Principal
Project Architect



EDUCATION

Masters of Architecture, Virginia Polytechnic Institute & State University, Blacksburg, VA
BS, Civil Engineering Technology, Fairmont State College, Fairmont, WV



REGISTRATION

Member of The American Institute of Architects
Member of The American Institute of Architects—West Virginia
National Council Architectural Registration Board Certified in West Virginia, Florida, Kentucky, New Jersey, and Ohio
Firm Member Associated Builders and Contractors Inc.

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 schematic design through the final completion of construction for a wide range of commercial projects to include presentation renderings and graphics.
- Previously employed by Robert J. Bennett AIA & Associates, Morgantown, West Virginia 1983 to 1984. Worked and managed various phases from schematics to working drawings on a number of new and renovated educational facilities.



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.
- Member of the Faculty Advisory Committee for Civil Engineering Technology and Architectural Engineering Technology, Fairmont State College, Fairmont, West Virginia
- Member of the Bridgeport City Planning Commission
- 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 for Mr. Forren

Mon Power Regional Headquarters
Fairmont, WV

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

Harrison County Schools, WV
Lumberport Elementary School

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

Fairmont State University, Fairmont, WV
Library Addition & Renovation
Feaster Center Renovation & Addition
Colebank Hall Renovation
Inner Campus Renovation
New Engineering Technology Building
New Performing Arts Building
Robert C. Byrd Mid-Atlantic Aviation Training Center, Phases I & II

City of Fairmont, Fairmont, WV
Public Safety Building
Downtown Parking Garage

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

Snowshoe Mountain Resort, Snowshoe, WV
St. Barnard Catholic Chapel
Shaver Center Renovation Design

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



Professional Staff

John R. Sausen AIA, NCARB, LEED AP



PROJECT ASSIGNMENT
Principal
Project Architect

EDUCATION

Bachelor of Architecture: University of Cincinnati in 1982
(Magna Cum Laude)

REGISTRATION / PROFESSIONAL AFFILIATIONS

Member of The American Institute of Architects
Member of The American Institute of Architects—West Virginia
National Council Architectural Registration Board Certified in
West Virginia, Maryland, Pennsylvania, and Ohio
Firm Member Associated Builders and Contractors Inc.
LEED for New Construction Accredited Professional

GENERAL EXPERIENCE

- Project Architect in charge of design and construction for Omni Associates - Architects since 1983. Responsible for coordinating and designing all aspects of a project from schematic design through the final completion of construction including presentation renderings and graphics for a wide range of commercial projects. Specializing in Design-Build.
- Worked for three months in 1981 for Kraemer, Sieverts & Partners, Braunschweig, West Germany on an office, residential and civil defense complex for the Ministry of Interior, Kingdom of Saudi Arabia. The complex was to be of pre-cast metric. The design was to be flexible enough for construction in six different cities.
- Interned with architectural firms in Ohio and West Virginia prior to joining Omni.

RELATED EXPERIENCE

- President of American Institute of Architects - West Virginia Chapter in 2000 & 2001. Worked with the Design Awards, Search for Shelter, Architecture for Kids, Livable Communities Committees. Has served on the AIA West Virginia Board of Directors from 1990 to present.
- Instructor of Architecture at Fairmont State College, Fairmont, West Virginia - part time to 1990. Responsible for the instruction of design and construction relationships.
- Pleasant Acres Personal Care Home in Fairmont, WV, Board of Directors member since 1990.
- Boy Scouts of America, Mountaineer Area Council merit badge counselor, building committee member and Eagle Scout Chairman. Achieved the rank of Eagle Scout and has been involved with Scouting for over 20 years.

Select Project Experience for Mr. Sausen

West Virginia University
Child Learning Center

Mylan Pharmaceuticals
Morgantown, WV
(Design - Build Projects)
North Expansion
Executive Offices
Corporate Office Building
Research and Development Lab

West Virginia University Hospitals
Morgantown, WV
North & Northeast 8 story addition
Cheat Lake Family Medicine Clinic
The Family House
Linear Accelerator Installations I & II
Center for Gamma Knife
Radiosurgery
Eye Center Clinic Renovations

HealthWorks Physical Therapy Facility
Morgantown, WV

Glenmark Corporation
Personal Care Facilities
The Madison, Morgantown, WV
Shenandoah Nursing & Rehabilitation
Center, Charles Town, WV
Oak Ridge Nursing & Rehabilitation
Center, Charleston, WV

WV Radio Corporation
WDYK Radio, Cumberland, Md.

CDC/NIOSH
Open End Multi Year Contract
Morgantown, WV / Pittsburgh, Pa.

Glenville Federal Correctional Institute
Construction Administration
Glenville, WV.



Professional Staff

Edward "Ned" Luthy AIA, NCARB



PROJECT ASSIGNMENT
Principal
Project Architect

EDUCATION
Bachelor of Architecture
University of Arizona, Tucson, AZ
May 1986



REGISTRATION
State of West Virginia
National Council Architectural Registration Board Certified
Member of The American Institute of Architects



GENERAL EXPERIENCE

- Architect with over 20 years experience in developing long term relationships with clients, consultants, and the construction industry.
- An effective team member with a strong contract document background combined with construction administration capabilities and experience in many project delivery formats.
- Adept as a Project Manager and flexible in performing as a designer, drafter, specifier, estimator, and administrator.
- Strong design focus on schools and detention centers.



RELATED EXPERIENCE

- Ned's past 10 years experience, most of which was spent with a sole proprietor architectural firm, has provided him with opportunities to perform all duties associated with an architectural practice.
- Supervised the master plan, interview, design documents and construction for the Stafford Hansell Government Center for Umatilla County, Oregon. The project spanned a seven year period and Ned considers it the signature building of his career.
- 12 years experience with a large, nationwide architectural/engineering firm allowed Ned to acquire progressive responsibilities and achieve promotions from intern through senior associate.
- Former adjunct professor teaching AutoCAD at Blue Mountain Community College in Pendleton, Oregon.



Select Project Experience for Mr. Luthy

Omni Associates-Architects

- Shaft Drillers International Headquarters
- Mon Power Regional Headquarters
- Canaan Valley Institute

With Alderson Karst & Mitro Architects, Idaho Falls, Idaho:

- New Teton Toyota Dealership
- Office Buildings at Snake River Landing

With Sargent Architects, Hermiston, Oregon:

- Stafford Hansell Government Center
- East Oregonian Newspaper
- Our Lady of Angels Catholic Church
- New City Hall and Library
- New Intermediate School
- Cove High School Classroom Additions and Renovation
- Windy River Elementary School Classroom Additions
- Professional/Technical Education Building
- Umatilla County Public Health Building
- Eastern Oregon University, Addition to Quinn Coliseum
- Umatilla County Courthouse Master-plan and Renovation
- Pendleton Round-Up Stadium Renovation Masterplan



References



Omni Associates - Architects

unsolicited comments...

"...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

"You are truly the most responsive, friendly, and personable firm I have come across recently - many thanks, and kudos to you for establishing such a great dynamic within your work environment."

Katie Leavy
HGTV (Home & Garden TV) TV Personality
Capital Design



West Fairmont Middle School... *"The template for the twenty-first century school"*

Dr. James B. Phares
Superintendent: Marion County Schools

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

Robert J. Dillman
President
Fairmont State College

"At a time of the year when we count our blessings, we at HOPE want you to know how much we have appreciated you and your work in the past few years."

Nancy Hoffman
Director of Development
HOPE, Inc. - Task Force on Domestic Violence

"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

"Building Green is more than obtaining LEED Certification. The team of Omni and Manheim (General Contractor) truly listened to CVI's unique vision of sustainable design, and developed a project that brought that vision to life. Their synergy and willingness to become our partner, provided a constant focus on quality, cost, and schedule."

Kiena Smith
Executive Director
Canaan Valley Institute



References

Client

Allegheny Power
800 Cabin Hill Drive
Greensburg, PA 15601-1689

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

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

Morgantown Utility Board
278 Greenbag Road
Morgantown, WV 26501

City of Fairmont
200 Jackson Street
Fairmont, WV 26554

Mylan Pharmaceuticals
781 Chestnut Ridge Road
Morgantown, WV 26505

Canaan Valley Institute
P.O. Box 673
Davis, WV 26260

West Virginia Radio
P.O. Box 1900
570 Canyon Road
Morgantown, WV 26505

West Virginia Army National Guard
1707 Coonskin Drive
Charleston, WV 25311-1099

Fairmont State University
Locust Avenue
Fairmont, WV 26554

**Division of Natural Resources
WV Parks & Recreation Section**
Capitol Complex, Bldg. 3, Room 714
1900 Kanawha Blvd., East
Charleston, WV 25305-0662

Contact

Ms. Linda Moss
Director, Ops Support
301.790.6413

Ms. Terrell Ellis
Executive Director
304.342.6972

Mr. Brad Calandrelli
Facility and Property Program Manager
304.366.2577 ext. 233

Mr. James Green
General Manager
304.292.8443

Mr. Jay Rogers
City Manager
304.366.6211

Mr. J.J. Dotson
Director of Engineering
304.554.5520

Mr. Dan Wheeler, Construction Manager
Science & Technology Team
304.463.4739

Mr. Jim Troy
V.P. of Finance
304.594.1768

BG Melvin Burch
Div. of Engineering & Facilities, Armory Board
304.561.6450

Mr. James Decker
Assistant Vice President, Physical Plant
304.367.4861

Mr. Brad Leslie
Chief Engineer
304.558.2764 ext. 273



Omni Associates realizes that our relationship 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.

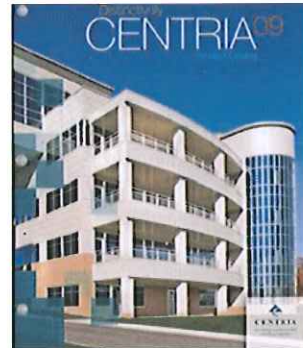


Awards / Accolades / Publications

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

**West Virginia High Technology Consortium
5000 NASA Boulevard**
*CENTRIA 2009/2010 National Product Catalog
Cover Feature*

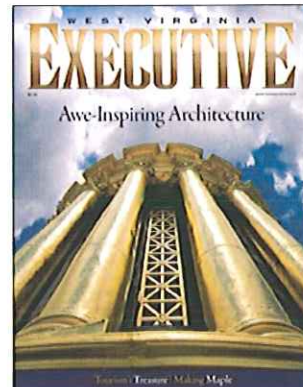
5000 NASA Boulevard was selected for the cover photograph of the CENTRIA 2009/2010 product catalog. Centria is a national leader in manufacturing architectural metal wall and roof systems.



**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



Awards / Accolades / Publications

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 Virginia High Technology Consortium
5000 NASA Boulevard
Published project: DCD Magazine (Design Cost Data)
September - October 2009

5000 NASA Boulevard
 Fairmont, West Virginia

Project Overview

Architect: [Faint text]

Client: [Faint text]

Location: [Faint text]

Project Type: [Faint text]

Completion Date: [Faint text]

Project Description: [Faint text]

Key Features: [Faint text]

Cost Summary:

Category	Cost (\$)
Architectural	[Faint text]
Engineering	[Faint text]
Construction	[Faint text]
Other	[Faint text]
Total	[Faint text]

DCD Magazine (Design Cost Data)

September - October 2009



West Fairmont Middle School
Published project: DCD Magazine (Design Cost Data)
September - October 2008

West Fairmont Middle School
 Fairmont, West Virginia

Project Overview

Architect: [Faint text]

Client: [Faint text]

Location: [Faint text]

Project Type: [Faint text]

Completion Date: [Faint text]

Project Description: [Faint text]

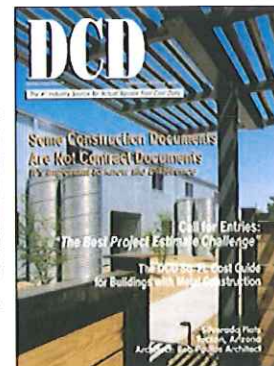
Key Features: [Faint text]

Cost Summary:

Category	Cost (\$)
Architectural	[Faint text]
Engineering	[Faint text]
Construction	[Faint text]
Other	[Faint text]
Total	[Faint text]

DCD Magazine (Design Cost Data)

September - October 2008



Awards / Accolades / Publications

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



Awards / Accolades / Publications

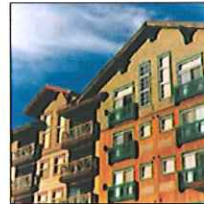
Pete Dye Golf Club Clubhouse

Associated Builders and Contractors
2001 Excellence in Construction
MARCH-WESTIN CO. (General Contractor)
Bridgeport, West Virginia



Rimfire Lodge

American Institute of Architects—West Virginia
2000 Honor Award - Excellence in Design
OMNI/RLA
Snowshoe Mountain Resort
Snowshoe, West Virginia



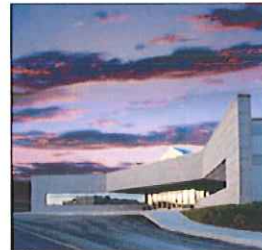
HealthWorks

American Institute of Architects—West Virginia
2000 Merit Award - Achievement in Design
Morgantown, West Virginia



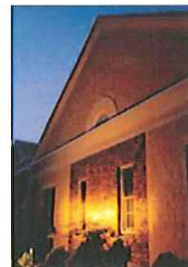
West Virginia High Technology Consortium Training Center

West Virginia High Technology Consortium Foundation
1999 Operations Award of Excellence
"For positively impacting the economic growth of West Virginia and its emerging high technology business base."
G.A. Brown (General Contractor)
Fairmont, West Virginia



Greer Industries

The Paul S. Linsley Building
Associated Builders and Contractors
1998 Award Of Excellence
Building of the Year
MARCH-WESTIN CO. (General Contractor)
Morgantown, West Virginia



Awards / Accolades / Publications

**Mylan Pharmaceuticals
Research And Development Facility**
Associated Builders and Contractors
1997 Award Of Excellence
Building of the Year
MARCH-WESTIN CO. (General Contractor)
Morgantown, West Virginia



**Robert C. Byrd
National Technology Transfer Center**
American Institute of Architects—West Virginia
1996 Merit Award - Excellence in Design
OMNI/WTW
Wheeling Jesuit University
Wheeling, West Virginia



Education and Health Careers Building
American Institute of Architects—West Virginia
1993 Honor Award - Excellence in Design
OMNI/WTW
Fairmont State College
Fairmont, West Virginia



Hawthorne Valley Golf Course Clubhouse
American Institute of Architects—West Virginia
1993 Honor Award - Excellence in Design
Snowshoe Mountain Resort
Snowshoe, West Virginia



Concurrent Engineering and Research Center
Associated Builders and Contractors
1992 Building of the Year
OMNI/WTW
BRIDGES & COMPANY, Inc (General Contractor)
West Virginia University
Morgantown, West Virginia



William R. Sharpe, Jr. Hospital New Patient Care Unit

TABLE OF CONTENTS

Letter of Interest
Addendum Acknowledgement
Purchasing Affidavit

Statement of Qualifications

- Project Understanding, Approach and Plan
- Technical Competencies
- Project Team Qualifications
- References
- Project Experience

Omni Associates - Architects, Inc.—Architectural / Project Lead

Allegheny Design Services—Structural Engineering

Harper Engineering, Inc.—MEP HVAC Engineering

Terradon Corporation—Civil Engineering





Allegheny
Design Services
Structural & MEP Engineering

102 Leeway Street
Morgantown, WV 26505
Phone: (304)599-0771
Fax: (304)599-0772
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



102 Leeway Street
Morgantown, WV 26505
Phone: (304)599-0771
Fax: (304)599-0772
E-mail: Dave@AlleghenyDesign.com
Web: www.AlleghenyDesign.com

FIRM PROFILE

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. We currently hold licenses in West Virginia, Pennsylvania, Maryland, Virginia, District of Columbia, South Carolina and Ohio.

ADS's experience exceeds twenty-five years in the Design and Project Management of:

Commercial Facilities

Industrial Facilities

Institutional Facilities

Educational Facilities

ADS was established by David Simpson, P.E., MBA, in 2002 as a result of a need in North Central West Virginia for reliable structural engineering services. ADS utilizes a combination of office technology and a motivated staff to deliver projects typically up to \$25 million in construction value. We have completed design work for over \$300 million in construction since our inception. Our clients include architects, contractors, developers, attorneys, and insurance companies.

Building systems delivered by ADS include structural steel, reinforced concrete, precast concrete, and structural timber. ADS currently utilizes the latest engineering design and BIM software for the development of project work.

ADS is covered under a \$2 million liability policy for errors and omissions through Travelers C & S Co. of America.



Allegheny
Design Services

Structural & MEP Engineering

102 Leeway Street

Morgantown, WV 26505

Phone: (304)599-0771

Fax: (304)599-0772

E-mail: Dave@AlleghenyDesign.com

Web: www.AlleghenyDesign.com

KEY PERSONNEL

David R. Simpson, P.E., SECB, MBA, President

West Virginia Institute of Technology, BSCE

West Virginia University, MBA

Structural Engineering Certification Board

P.E. Licenses in the following States:

West Virginia

Pennsylvania

Maryland

Virginia

District of Columbia

National Council of Examiners for Engineering and Surveying

Michael L. Sipe, E.I., Engineering Intern

West Virginia Institute of Technology, BS Mechanical Engineering

West Virginia University

Structural Analysis

Steel Design

Reinforced Concrete Design

Jason D. Robinson, E.I., Engineering Intern

West Virginia University, BS Civil Engineering



Allegheny Design Services

Structural & MEP Engineering

102 Leeway Street
Morgantown, WV 26505

Phone: (304)599-0771

Fax: (304)599-0772

E-Mail: Dave@AlleghenyDesign.com

Web: www.AlleghenyDesign.com

David R. Simpson, P.E., SECB, MBA President

Education:

West Virginia Institute of Technology
B.S. Civil Engineering

West Virginia University
Masters Business Administration

West Virginia State College
Architectural Technology

Professional Registrations:

Year first registered: 1984
Structural Engineering Certification Board
West Virginia
Pennsylvania
Maryland
Virginia
District of Columbia
South Carolina
Ohio
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

Continuing Education:

2005 AISC Specification for Structural Steel Buildings – September 27, 2006 – Pittsburgh, PA
ASCE Testifying Skills for Engineers – February 16, 2007 – Orlando, FL
Peter Vallas Associates, Inc. "Fire Investigation Certification" – July 16, 2010 – Ft. Lauderdale, FL

Professional Experience:

Responsible for project management and design at Allegheny Design Services. Experience includes over 30 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
West Virginia University, Assoc. Director 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

Additional Professional Experience:

Experience encompasses design, project management, and construction administration for reinforced concrete, structural steel, precast concrete, masonry, and wood structures.

Project experience includes:

Fairmont Senior High School, Fairmont, WV
Belmont Community Center, St. Clairsville, OH
Monongalia General Hospital Operating Room Addition, Morgantown, WV
Chestnut Ridge Church, Morgantown, WV
Morgantown Event and Conference Center, Morgantown, WV
Allegheny Energy Transmission Center, Fairmont WV
West Virginia University Business and Economics Building, Morgantown, WV
West Virginia University High Density Book Storage Facility, Morgantown, WV
West Virginia University Life Sciences Building, Morgantown, WV
West Virginia University Student Recreation Center, Morgantown, WV
West Virginia University Wise Library Addition, Morgantown, WV
West Virginia University White Hall Computer Center, Morgantown, WV
UPMC Hillman Cancer Center, Pittsburgh, PA
Carnegie Museum of Natural History Addition, Pittsburgh, PA
Cultural Trust District Parking Garage, Pittsburgh, PA
Delaware Valley Veterans' Home, Philadelphia, PA
Fairmont State University Parking Garage, Fairmont, WV
First Avenue Parking Garage, Pittsburgh, PA
Hillman Cancer Center (UPMC), Pittsburgh, PA
New Enterprise Precast Corporate Headquarters, New Enterprise, PA
Respironics Corporate Office Facility, Pittsburgh, PA
International Brotherhood of Electrical Workers Headquarters Training Center, Pittsburgh, PA
Laurel Highlands Middle School Addition, Uniontown, PA
Trinity High School, Morgantown, WV
Mylan Pharmaceuticals Parking Garage, Morgantown, WV
Phipps Conservatory Addition, Pittsburgh, PA
Radisson Hotel and Conference Center, Morgantown, WV
Western Pennsylvania School for Blind Children, Pittsburgh, PA
In-Situ Vitrification Nuclear Waste Encapsulation Project, Richland, WA
Dominion Transmission Office Building, Clarksburg, WV
Multiple structural evaluations and expert witness for structural damage due to subsurface mining subsidence, floods, ice, wind and construction errors
Over 400 low-rise metal building projects from Maine to South Carolina, including warehouses, aircraft hangar facilities, shopping centers, industrial facilities, and office facilities.



Allegheny Design Services

Structural & MEP Engineering

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Morgantown, WV 26505
Phone: (304)599-0771
Fax: (304)599-0772

E-mail: Jason@AlleghenyDesign.com
Web: www.AlleghenyDesign.com

Jason D. Robinson, E.I. Engineering Intern

Education:

West Virginia University
B.S. Civil Engineering

Awards/Achievements/Organizations:

Dean's List
Member of AISC
Associate Member of ASCE

Professional Registrations:

West Virginia, Engineering Intern License #8699

Professional Experience:

Responsibilities include structural engineering design, construction documents, quality control and field engineering.

Experience record:

Bridgeport Public Safety Substation, Bridgeport, WV
Canaan Valley Institute, Davis, WV
Fairmont AFRC, Fairmont, WV
Gabriel Brothers Renovation, Clarksburg, WV
Genesis Youth Crisis Center, Clarksburg, WV
Goshen Baptist Church, Morgantown, WV
GSA DOE, Morgantown, WV
Mylan Upper Warehouse to Labs, Morgantown, WV
The Dayton, Morgantown, WV
The View at the Park Phase 2, Morgantown, WV
WVU Child Development, Morgantown, WV
White Oaks Progress Center, Bridgeport, WV

Courses and 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



Allegheny **Design Services** *Structural & MEP Engineering*

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Morgantown, WV 26505
Phone: (304)599-0771
Fax: (304)599-0772

E-mail: Mike@AlleghenyDesign.com
Web: www.AlleghenyDesign.com

Michael L. Sipe, E.I. **Engineering Intern**

Education:

West Virginia University Institute of Technology
B.S. Mechanical Engineering
Minor: Mathematics

Awards/Achievements/Organizations:

Deans List, last 4 completed semesters
Member of Pi Tau Sigma
Member of AISC
Associate Member of ASCE

Professional Registrations:

West Virginia, Engineering Intern License # 8519

Professional Experience:

Responsibilities include structural engineering design, construction documents, quality control, field engineering and project engineering.

Experience record:

Allegheny Energy, Fairmont, WV
Cutlip Christie Office Complex, Clarksburg, WV
Dominion Exploration Addition, Jane Lew, WV
Fairmont State University Smoke Vents, Fairmont, WV
Finite Element Analysis of Various Material Handling Structures
Gassaway Bank, Flatwoods, WV
Glenmark Office Building, Morgantown, WV
Greer Limestone Conveyor Structure Renovations, Morgantown, WV
GSA Sabraton (USDA), Morgantown, WV
Morgantown Event Center, Morgantown, WV
Pressley Ridge School Residence Hall & Dining Facilities, Clarksburg, WV
Proplex Athletic Training Facility, Morgantown, WV
Waterfront Marina, Morgantown, WV
West Milford Elementary School Classroom Addition, West Milford, WV
WVU Downtown Student Housing, Morgantown, WV
WVU Puskar Academic Center, Morgantown, WV

Courses and Continuing Education:

WVU - Structural Analysis I, Spring 2006
WVU - Steel Design, Fall 2006
WVU - Reinforced Concrete Design, Spring 2007
AISC - Design Steel Your Way with the 2005 AISC Specification - September 27, 2006
ASCE - Steel Framed Buildings - May 11, 2007
AISC - Façade Attachments to Steel Frames - September 20, 2007
ASCE - Reinforced Masonry: Design and Construction - November 8, 2007
Lincoln Electric Company - Blodgett's Welding Design Seminar - June 17-20, 2008
ASCE - Earth Retaining Structures, Selection, Design, Construction and Inspection - October 22-23, 2009



Allegheny
Design Services
Structural & MEP Engineering

PROJECT PROFILE

Delaware Valley Veteran's Home Philadelphia, PA



PROJECT ARCHITECT:

GBQC Architects, Philadelphia, PA

STRUCTURAL ENGINEER:

David Simpson of Allegheny Design Services, Morgantown, WV
in former employ of R. M. Gensert Associates, Pittsburgh, PA

PROJECT FEATURES:

- New State-of-the-Art 170 Bed Care Facility
- Personal and Alzheimer's Care
- Interior Skylit 'Main Street' Corridor
- Designed and bid in eight months

PROJECT VALUE:

\$19 Million

PROJECT COMPLETION:

2002



Allegheny
Design Services
Structural & MEP Engineering

PROJECT PROFILE

Hillman Cancer Center University of Pittsburgh Medical Center Pittsburgh, PA



PROJECT ARCHITECT: IKM, Inc., Pittsburgh, PA
PROJECT ENGINEER: David Simpson of Allegheny Design Services, Morgantown, WV
in former employ of R.M. Gensert Associates
GENERAL CONTRACTOR: PJ Dick/Mascaro Corp., Pittsburgh, PA

PROJECT FEATURES:

- New Office/Laboratory Building
- New Cancer Research Building
- New Pedestrian Bridge
- Underground Parking Facility
- 70 Foot High Enclosed Atrium Between Buildings

PROJECT VALUE: \$100 Million

PROJECT COMPLETION: 2003

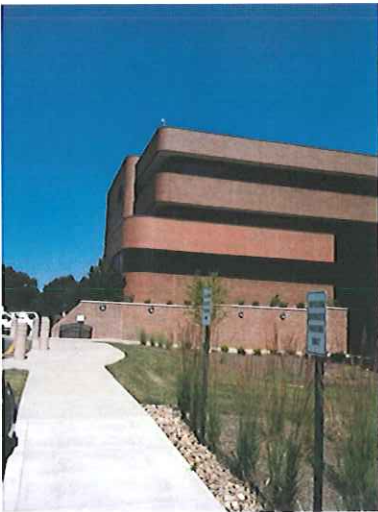




Allegheny
Design Services
Structural & MEP Engineering

PROJECT PROFILE

Monongalia General Hospital Ambulatory Care Center, Morgantown, WV



PROJECT ARCHITECT:
STRUCTURAL ENGINEER:

IKM Inc., Pittsburgh, PA
David Simpson, P.E. of Allegheny Design Services, Morgantown,
WV with R.M. Gensert Associates, Pittsburgh, PA
CONTRACTOR: John Deklewa & Sons, Bridgeville, PA
OWNER: Monongalia General Hospital, Morgantown, WV

PROJECT SCOPE:

Renovation & Expansion to Existing facility for new Ambulatory Care Center.

PROJECT VALUE: \$3 Million

PROJECT COMPLETION: 1999





Allegheny
Design Services
Structural & MEP Engineering

PROJECT PROFILE

Sundale Nursing Home Morgantown, WV



Sundale Hospice Care Addition



PROJECT ARCHITECT:
STRUCTURAL ENGINEER:
CONTRACTOR:

The Omni Associates—Architects, Inc., Fairmont, WV
Allegheny Design Services, LLC, Morgantown, WV
Veritas Contracting, LLC, Morgantown, WV

PROJECT SCOPE:
Load Bearing Light Gage Construction

PROJECT VALUE: \$2 Million

PROJECT COMPLETION: 2010



Allegheny
Design Services
Structural & MEP Engineering

PROJECT PROFILE

University of Pittsburgh Medical Center Horizon Medical Systems Ferrel, PA



BEFORE



AFTER

PROJECT ARCHITECT: IKM Inc., Pittsburgh, PA
STRUCTURAL ENGINEER: David Simpson of Allegheny Design Services, Morgantown, WV
with R. M. Gensert Associates, Pittsburgh, PA
OWNER: UPMC Horizon

PROJECT SCOPE:

The project was an \$8 million renovation to operating rooms, staff offices, and emergency room facilities. The emergency room entrance was transformed into a more functional and aesthetically pleasing attribute. Work was completed in 2000.

PROJECT VALUE: \$8 Million

PROJECT COMPLETION: 2000



Allegheny
Design Services
Structural & MEP Engineering

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.



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.



City Net Building Bridgeport, WV

ADS was a consultant to Omni Associates for the City Net Building. This project consists of offices and operations facility. Completed in 2010 for approximately \$3 Million.





Allegheny
Design Services
Structural & MEP Engineering

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.



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.



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.





Allegheny
Design Services
Structural & MEP Engineering

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 soils. Completed in 2008 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

Structural & MEP Engineering

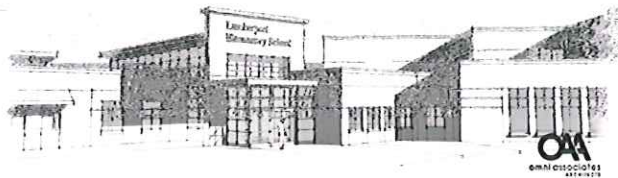
Lakeside Physical Therapy Morgantown, WV

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.



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. Construction cost is approximately \$10 Million and the estimated completion is Spring of 2012.



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
Structural & MEP Engineering

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.



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.



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** *Structural & MEP Engineering*

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. Construction is underway.



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.



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.





Allegheny
Design Services
Structural & MEP Engineering

**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.



William R. Sharpe, Jr. Hospital New Patient Care Unit

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Statement of Qualifications

- Project Understanding, Approach and Plan
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- Project Team Qualifications
- References
- Project Experience

Omni Associates - Architects, Inc.—Architectural / Project Lead

Allegheny Design Services—Structural Engineering

Harper Engineering, Inc.—MEP HVAC Engineering

Terradon Corporation—Civil Engineering





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



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

Our Lady of Bellefont Hospital HVAC Renovations: Air Handler and Chiller Replacement for 5 OR suites.

Charleston Surgery Center HVAC Replacement: HVAC Replacement for 12,000 sq ft Surgery Center.

Additions and Renovations to Flinn Elementary School: HVAC, Plumbing, Sprinkler, and Electrical design for renovations to an existing 35,800 sq ft elementary school and a 12,800 sq ft addition.

Renovations to Moorefield Elementary School: Electrical, Plumbing, Fire Alarm, and Sprinkler renovations to an existing 58,000 sq ft elementary school.

Braxton Co Schools Bond Program: HVAC, Plumbing, Electrical, Fire Alarm, and Sprinkler design for additions and renovations to 6 elementary schools throughout Braxton County. Total value of bond \$24,000,000.

New Marsh Fork Elementary School: HVAC, Plumbing, and Sprinkler design for the new 39,000 sq ft elementary school located in Raleigh Co. WV. Currently under Construction.

Geary Elementary School: HVAC, Plumbing, Sprinkler, and Electrical design for renovations to an existing 39,500 sq ft elementary school and 21,000 sq ft gymnasium and classroom addition.

Baileysville Elementary School HVAC Renovations: HVAC and Electrical design for new HVAC, Lighting, and electrical Service.

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.

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.

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



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



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

Wytheville Community College
Wytheville, VA
Associate Applied Science – Computer Information Systems

Registrations/Professional Affiliations

WV licensed Professional Engineer
WV licensed Master Electrician
LEED Green Associate

Experience

Kevin Mark King, PE brings 6 years of electrical design experience and over 10 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

Raleigh Co. 911 Center
Mason County 911 Center
WVARNG Fire Station
Sissonville Middle School

Independence High School HVAC
WVU Tech Printing Innovation Center
Talcott Elementary School
Greenbrier West High School Renov.



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

Registrations/Professional Affiliations

American Society of Plumbing Engineers

Experience

Scott D. Phillips brings 27 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

Renovations to Glenville ES
W. Kent Carper Justice and Public Safety Complex
Renovations to Burnsville ES
Terra Alta ES Fire Alarm
Timber's Lodge
Oak Hill Police Station
Additions and Renovations to Little Birch Elementary
Moses Factory Outlet- Teays Valley
Dominion Gas Office Building
Fairmount State University WV Folk Life Center
Raleigh Co. BOE Credit Union
Rahall Technology and Business Center Community Based Outpatient Clinic
Renovations to Davis ES

William R. Sharpe, Jr. Hospital New Patient Care Unit

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Allegheny Design Services—Structural Engineering

Harper Engineering, Inc.—MEP HVAC Engineering

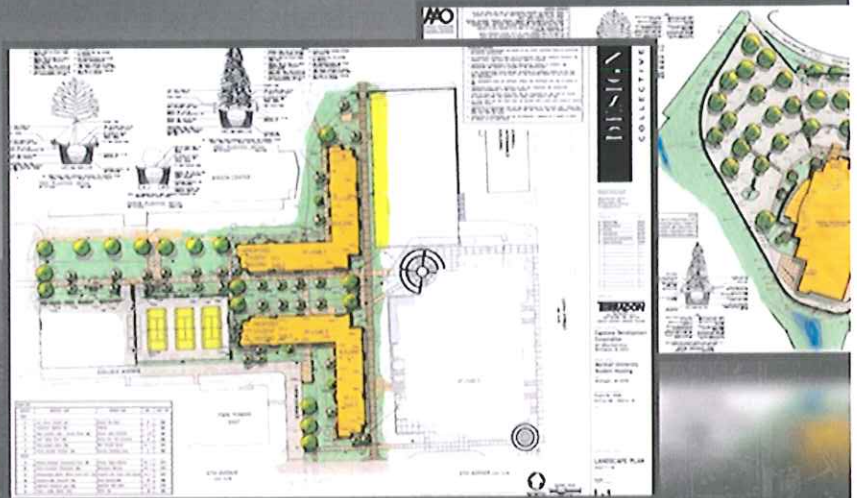
Terradon Corporation—Civil Engineering



Executive Summary

LAND DEVELOPMENT

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 schematic design, construction documents, and project delivery.



About TERRADON Corporation

TERRADON CORPORATION offers a wide range of engineering and environmental engineering design services, and is particularly suited to utility development in the mountainous areas of West Virginia and the Eastern United States. The company was formed in 1989, and its staff includes engineers, landscape architects, surveyors, planners, environmental scientists, designers, and technicians. TERRADON's services are organized into seven service areas that work together or independently, depending on client needs and the scope of the project.

Due to the breadth of services offered, TERRADON is regarded as one of the region's leading infrastructure planning and design firms. The firm has built its reputation by providing cost effective design solutions and maintaining the highest level of customer service .

SERVICE OFFERINGS

LAND PLANNING &
SITE DESIGN

SURVEYING &
MAPPING

CIVIL ENGINEERING

GEOTECHNICAL
INVESTIGATIONS

MATERIALS
TESTING &
CONSTRUCTION
MONITORING

ENVIRONMENTAL

ROADWAY &
BRIDGE
DESIGN

Certifications



Women's Business Enterprise National Council
in partnership with
Ohio River Valley - Women's Business Council
certifies that the criteria for certification as a



Women's Business Enterprise
(WBE)
has been met by



Terradon Corporation



Expiration Date: 01/29/2011
Certificate Number: 2005112195
SIC Code(s): 8711
NAICS Codes: 541330

Don A. Warden, M.D.

Authorized by Don A. Warden, Ph.D., Executive Director
Ohio River Valley - Women's Business Council

Women's Business Enterprise Certification

TERRADON CORPORATION is a certified Women's Business Enterprise as defined by the Women's Business Enterprise National Council. TERRADON is controlled by Virginia King, who provides more than 32 years of administrative experience to the company.

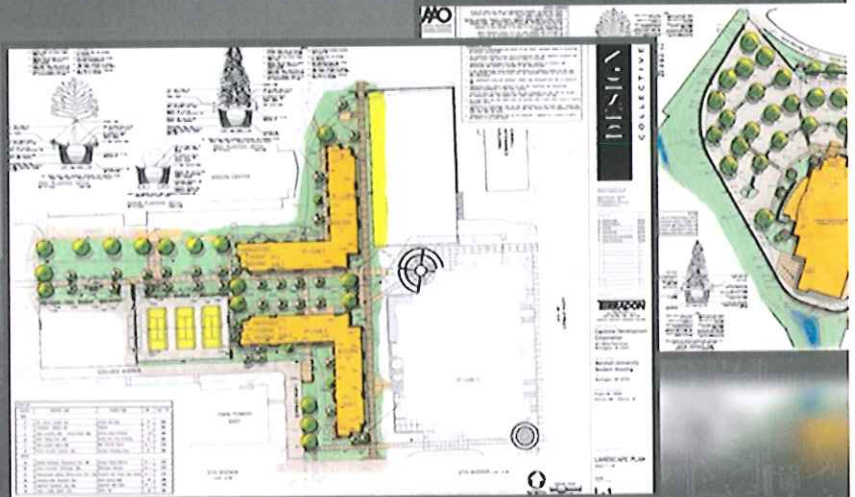
The Women's Business Enterprise National Council (WBENC), founded in 1997, is the nation's leading advocate of women-owned businesses as suppliers to America's corporations. It also is the largest third-party certifier of businesses owned and operated by women in the United States. WBENC works to foster diversity in the world of commerce with programs and policies designed to expand opportunities and eliminate barriers in the marketplace for women business owners. WBENC works with representatives of corporations to encourage the utilization and expansion of supplier/vendor diversity programs.

TERRADON

TERRADON Land Development

LAND DEVELOPMENT

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 schematic design, construction documents, and project delivery.



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 mainly of Landscape Architects and CAD designers and works 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 educational, recreation and commercial development sectors.

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

TERRADON's Land Development department 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

KEY PERSONNEL

Greg Fox, ASLA, LEED AP

Department Head: Land Development

TERRADON's Land Development Services are managed by Gregory D. Fox, ASLA, LEED AP. Mr. Fox, a native of West Virginia, has been responsible for a number of notable recreation, commercial, and educational site development projects since joining TERRADON in February of 2000.

His group earned numerous Engineering Excellence awards from industry associations, and provided site design for West Virginia's first LEED Certified building.

TERRADON: Related Firm Experience

Project: Volcano Island Waterpark/
Fairmont Coke Works

Location: Fairmont, WV

Project Cost: \$535,000.00

Project Date: 2008

Client Name: City of Fairmont

Address: 200 Jackson Street
Fairmont, WV 26554

Phone: 304.366.6211

Contact: Jay Rodgers
City Manager

TERRADON Corporation performed site design at the former Fairmont Coke Works and the surrounding areas, totaling approximately 350 acres of design, utility location and mapping work.

The master planning provided vision for Volcano Island Waterpark, allowing the City of Fairmont efficient and value-based use of the former environmentally-concerned site.

TERRADON maintains a strong working relationship with the City of Fairmont through multiple projects.

KEY PROJECT PERSONNEL

- » Greg Fox, LEED AP
LD Project Lead
- » Robert Thaw, PS
Survey Director

Project: West Virginia State Government
Office Building

Location: Fairmont, WV

Project Cost: 310,000.00

Project Date: 2010

Client Name: Architectural Firm

Client Name: The Omni Associated Architects

Address: 1543 Fairmont Avenue
Suite 200
Fairmont, WV 26554

Phone: 304.367.1417

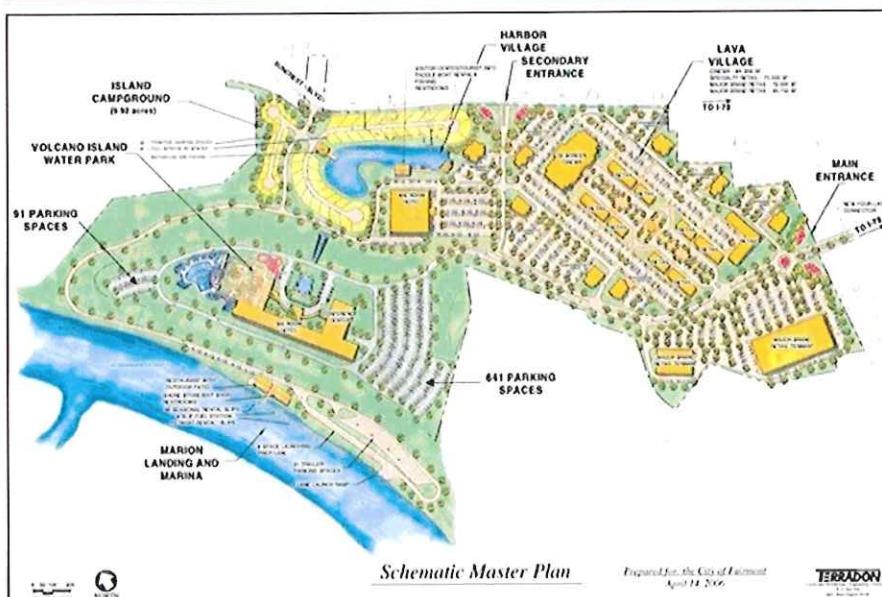
Contact: Dick Forren
Project Architect

TERRADON provided a site design and layout for a state government office building located in Fairmont, WV. The project consists of all layout and design, grading, site drainage, traffic and hard-scapes.

All underground utilities were located utilizing conventional survey methods, and presented on detailed mapping generated in AutoCAD complete with Geo referencing.

KEY PROJECT PERSONNEL

- » Greg Fox, LEED AP
LD Project Lead
- » Robert Thaw, PS
Survey Director



The Master Plan at left was developed by TERRADON Corporation as part of the Volcano Island Waterpark/Fairmont Coke Works project in Fairmont, West Virginia.

TERRADON's Land Development division provided all site planning for the 350-acre site.

TERRADON: Related Firm Experience

Project: The Bechtel Summit (Boy Scouts of America National Scouting Reserve)
Location: Fayette County, WV
Project Cost: \$1.9 Million
Project Date: Ongoing
Client Name: Trinity Works
Address: 411 Main Street
Mount Hope, WV 25880
Phone: 304.646.2312
Contact: Rob Ridgeway
Project Director

Project Description:

TERRADON Corporation provided a number of services to the Boy Scouts of America's consultant, Trinity Works, on this nearly 11,000 acre site; including survey and location services.

Working under extremely demanding time restrictions, TERRADON has delivered quality results in a timely and efficient manner for what is arguably the premiere project in West Virginia's right now.

TERRADON's land development department has man-

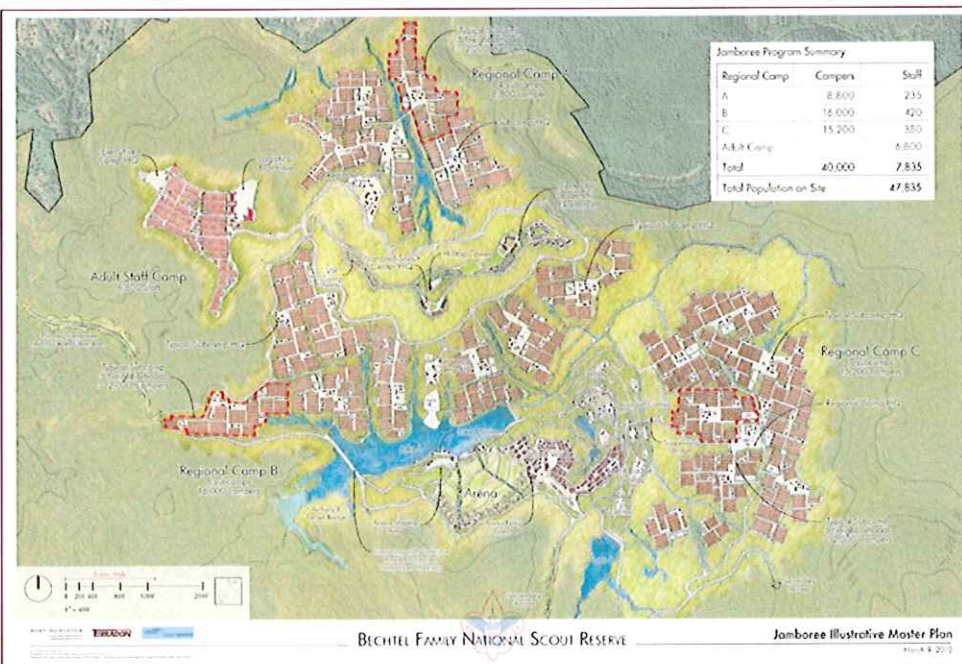
aged work on this site since 2008. TERRADON engineers have provided site planning, grading and drainage design services for the project.

The Bechtel Summit is one of the largest infrastructure projects in the State. To accommodate nearly 1.5 million visitors annually, spiking upward of 100,000 per day during world jamboree years, TERRADON is has provided the bulk of the site design.

This project design remains on the leading edge of utility design as TERRADON works with project owners to develop as many 'green' design features as feasible. TERRADON engineers considered 'green' solutions from around the world for this project.

KEY PROJECT PERSONNEL

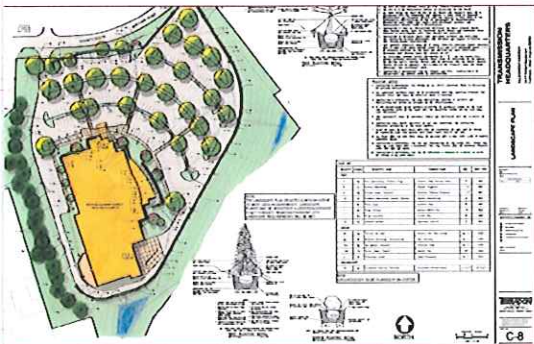
- » **Greg Fox, LEED AP**
LD Department Head
- » **Robert Thaw, PS**
Survey Director
- » **Jason Asbury**
LD Project Liaison
- » **Dave Brown, PS**
Specialist
- » **John James, PE**
Geotechnical



TERRADON Corporation provided site design and grading plans, location surveys and utility design for the nearly 11,000-acre site in Fayette County, WV, helping to put in place one of the largest infrastructures in the State.

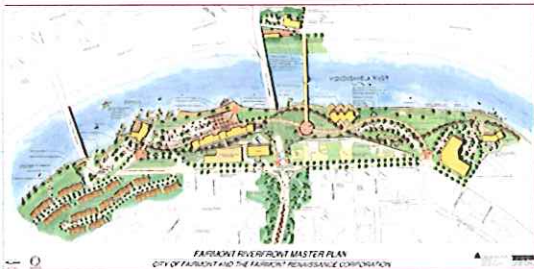
Illustration by Hart Howerton.

TERRADON: Related Firm Experience



Allegheny Energy Office Complex

TERRADON provided master planning for the Allegheny Energy Complex located in Fairmont, WV. The project included site planning, survey, landscape and hardscape design. TERRADON was responsible for all site layout features including grading and drainage.



City of Fairmont Riverfront Masterplan

TERRADON provided master planning for the City of Fairmont riverfront. The plan provides site design and layout for recreational, event and public use. The project includes pedestrian walkways and flow coordination, site layout, drainage, amenity layout, landscape and hardscape design.



Fairmont State University Campus Core Planning

TERRADON provided master planning for Fairmont State University. The project included the layout of the core campus facilities including all site grading, landscape, drainage and the design of a seating wall/fountain and location kiosks.



West Fairmont Middle School

TERRADON provided master planning for West Fairmont Middle School. The project included site layout and design, drainage, traffic flow, pedestrian walkways and landscape design.

Key Personnel

Gregory D. Fox, ASLA, LEED AP

Department Head: Land Development



TERRADON'S Landscape Development services are managed by Gregory D. Fox, ASLA, LEED AP. Mr. Fox, has grown TERRADON's Land Development group into a premier design and consulting group throughout West Virginia and its surrounding states. Fox is a LEED Accredited Professional, and has provided site planning and design on multiple LEED certified projects, including the first LEED project ever completed in the State.

Education

- » B.S. Landscape Architecture
West Virginia University
- » B.A. Geography & Planning
West Virginia University

Work Experience

- » 2000-Present
TERRADON Corporation
- » 1996-2000
Martin Boal Anthony & Johnson
Architects
- » 1993-1996
Site Design
- » 1989-1993
EG&G Inc
- » 1988-1989
PSC Engineers

Registration

- » Landscape Architect: WV, OH, NC,
SC, PA, VA
- » LEED AP
- » American Society of Landscape
Architects
- » National Council on Landscape Ar-
chitectural Registration Boards

Recent Project Experience Highlights

Mr. Fox has been responsible for a number of notable recreation, commercial and educational site development projects since joining TERRADON in February of 2000. His group earned a 2001 Engineering Excellence Award from the West Virginia Association of Consulting Engineers for the master planning of an extreme sports park at WVUIT in Montgomery.

They also earned a 2002 Engineering Excellence Award from the West Virginia Association of Consulting Engineers and a 2002 Merit Award from the American Society of Landscape Architects for the City of Fairmont Riverfront Master plan project. Most recently, the 2005 Gold Award from the American Council of Engineering Companies was presented to the firm for the site design of the new West Virginia Division of Environmental Protection Headquarters Building.

Other notable projects include the Marshall University Parking Garage, the West Virginia Public Service Commission Parking Facility, the Home Depot development at Southridge Center, and more than 30 new schools located throughout West Virginia.

TERRADON Surveying & Mapping



SURVEYING & MAPPING

A critical piece to the engineering and construction industry, TERRADON is regarded as a top-tier firm in the surveying and mapping trade. TERRADON focuses on construction stakeout, ALTA survey, topographic survey, and boundary survey services.

TERRADON has developed an extensive resume of successful surveying and mapping projects performed throughout the difficult terrain of West Virginia and surrounding states. The Survey and Mapping group performs services for a large number of private and public sector clients. TERRADON's experienced, staff of licensed professional surveyors and mappers brings expertise and proficiency to every project.

It's commitment and investment in state-of-the-art equipment and technology enable the company to overcome unique and challenging project conditions and obstacles.

Services Include:

- | | |
|--|--|
| » GPS Control mapping | » Aerial Imagery |
| » GIS | » Horizontal and Vertical Control Surveys |
| » Underground Utility Location | » Commercial subdivision platting |
| » Wetland delineation surveys | » Residential subdivision platting |
| » Base mapping for (GIS) geographic information system | » Cellular / Communications Towers Surveys |
| » Boundary surveys | » Hydrographic / Marine Surveying |
| » ALTA/ACSM surveys | » Tree Surveys and Inventories |
| » Topographic surveys | |
| » Engineering design surveys | |

KEY PERSONNEL

Robert Thaw, PS

Department Head: Survey & Mapping

Mr. Thaw is Manager of Surveying Services for TERRADON. He organizes and supervises survey crews; designs commercial sites for drainage, building site locations, parking and utility easements; reviews project plans; and creates base mapping. Mr. Thaw has more than 22 years of experience in a wide range of land surveying applications. He is experienced with the day-to-day operation of the business and management of personnel.

TERRADON Geotechnical Engineering



GEOTECHNICAL ENGINEERING

TERRADON offers one of the most experienced staff in the region for local geotechnical expertise. The company provides a distinct understanding of the difficult soil and groundwater conditions found in the Appalachian region of the United States.

Geotechnical engineering requires specialized technical knowledge. It's most effective however when paired with local expertise and experience, a combination TERRADON offers to projects. A staff of experts brings a distinctive understanding of the difficult soil and groundwater conditions found in the Appalachian region of the United States. The Geotechnical group has provided investigations associated with earthen dams, mining, waste disposal, new building construction, and environmental remediation. TERRADON's team performs sub-surface investigations and geotechnical design services such as:

- » Drilling
- » Test pit excavations
- » Soil and rock logging, sampling, and testing
- » Monitoring well and piezometer installation
- » Foundation design
- » Earthen dams
- » Landslide analysis and remedial design
- » Retaining structure design
- » Municipal and industrial landfills
- » Stability analysis
- » Flexible and rigid pavement design

KEY PERSONNEL

John James, PE

Department Head: Geotechnical

Recognized as an industry expert in West Virginia, Mr. James specializes in innovative and cost saving concepts for his projects. Typical projects include numerous foundation investigations, studies and designs for landfills and environmental facilities, surface and ground water studies and remediation, foundation investigations and designs ranging in size from houses to major industrial complexes, roads, highways and bridges, earth and rockfill dams, storm drainage facilities, airport facilities, landslide analysis and correction, and forensic engineering.

TERRADON Materials Testing & Construction Monitoring

MATERIALS TESTING & CONSTRUCTION MONITORING

TERRADON offers materials testing and construction monitoring to document compliance with project design specifications and regulatory requirements. The firm offers a staff that is well-versed in the industry, holding all WVDOH certifications for materials testing.



TERRADON offers materials testing and construction monitoring 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.

Testing and Monitoring Services include:

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

KEY PERSONNEL

Bruce Frame

Department Head: Materials Testing

Bruce Frame is TERRADON'S Manager of Construction Inspection and Materials Testing. He has 35 years of experience in materials testing in the Materials Section of the West Virginia Department of Transportation, Division of Highways. Since joining TERRADON in 2000, he has been responsible for material testing and inspection on a wide variety of construction projects.

TERRADON Environmental Engineering

ENVIRONMENTAL ENGINEERING

TERRADON offers a strong environmental engineering team to manage issues in a complex environment. TERRADON's staff closely follows environmental activity on a local, state and federal level. TERRADON's staff is well-versed on environmental permitting processes and regulations as well as site assessment and reporting.



Constantly changing federal and state environmental requirements are difficult to track and can have a serious impact on businesses and other organizations. TERRADON closely follows environmental activities on the local, state, and federal level. 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 our staff with credentials in chemical engineering, chemistry, civil engineering, geotechnical engineering, and geology. The company has experience in:

- | | |
|-----------------------------|---|
| » Solid Waste | » Environmental Audits |
| » Hazardous Waste | » Environmental Site Assessments |
| » Process Water | » Environmental Remediation |
| » Wastewater | » NEPA Compliance |
| » Storm Water | » Asbestos and Lead Inspection |
| » Groundwater | » Underground Storage Tanks |
| » Air Pollution | » Impoundment Stabilization and Closure |
| » Risk Management Plans | |
| » Vulnerability Assessments | |
| » Emergency Response Plans | |

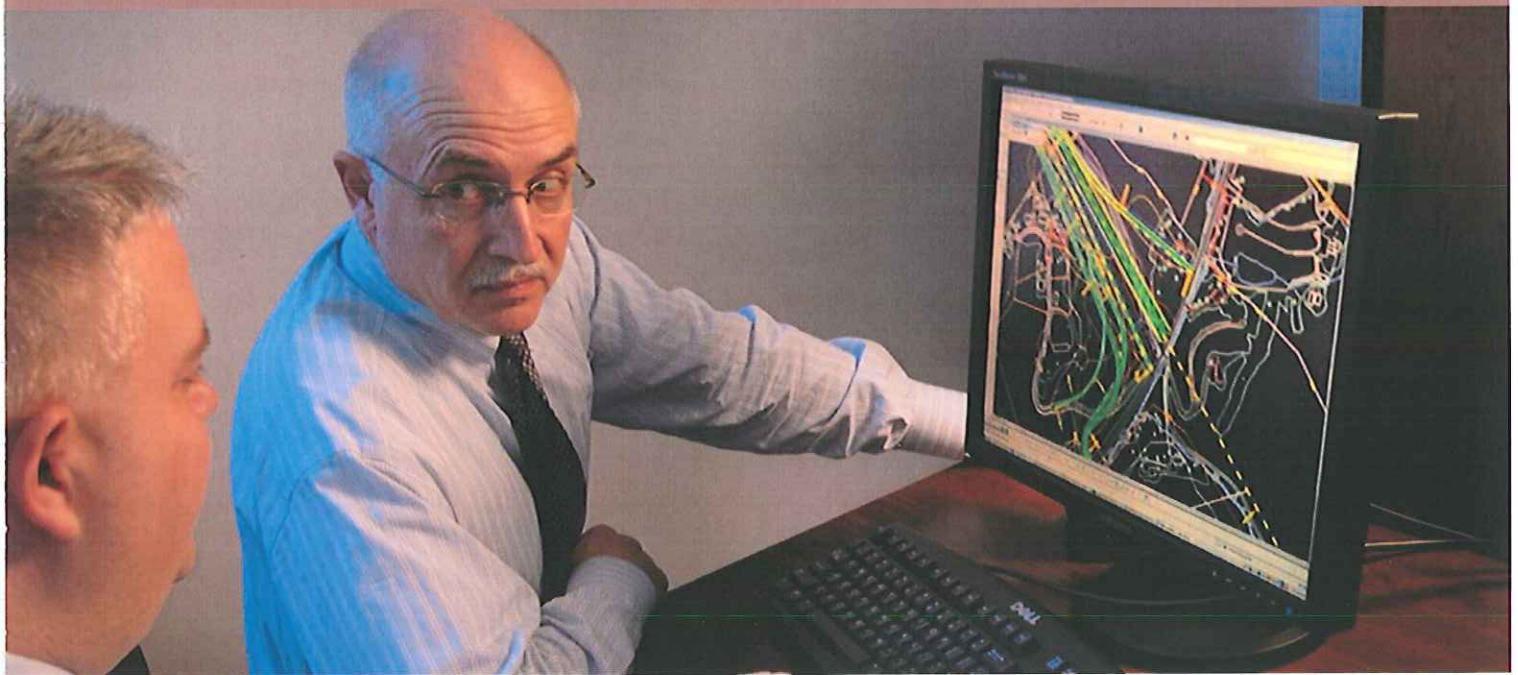
KEY PERSONNEL

Bill Hunt, LRS, PG

Department Head: Environmental

Bill Hunt serves as TERRADON's Environmental Project Manager. Hunt offers more than 24 years of environmental management expertise during the completion of more than 1000 environmental projects. Hunt is a Licensed Remediation Specialist and a Professional Geologist. His background includes environmental site assessments, permitting, remediation, testing and analysis.

TERRADON Technology



TERRADON maintains the latest office management and design software available. The firm also utilizes a state-of-the-art secured network tied directly to the internet through a T2 connection.

For site design, civil, and planning projects the firm utilizes AutoCAD Civil 3D 2008 along with Land Desktop Companion 2008. Additional AutoCAD modules include Raster 2008, Survey 2008, and Civil Design 2008. For highway, roadway, and structural projects, the firm uses Bentley MicroStation, Bentley InRoads, SAP2000, and MDX. This is the West Virginia Division of Highways preferred format. TERRADON's library of design software also includes SedCad & Pond Pack for erosion/sediment control, StormCAD & HydroFlow for drainage, WaterCAD for water distribution and management, and FlowMaster for hydraulic calculations.

TERRADON makes a significant investment in computers and related hardware. Our systems are consistently upgraded or replaced to maintain highly efficient CAD stations. HP8000 laser printers located conveniently to the design stations provide quick 11x17 proof plots for designers. TERRADON uses the latest

HP Design Jet plotters to provide the highest quality prints of plans available.

Additional Support

TERRADON Corporation also implements the use of a proprietary software call TEAM CENTER, allowing its engineers to efficiently share project documents with clients through secure FTP access with strict security access. Clients are invited to view the project repository through a hyperlink provided in an email. In a two-step process, clients simply click the link provided in the email, create a username and password and they enjoy access to drawings and related projects materials within seconds.



Key Personnel

Robert Thaw, PS

Department Head: Survey and Mapping



Mr. Thaw is Manager of Surveying Services for TERRADON. He organizes and supervises survey crews; designs commercial sites for drainage, building site locations, parking and utility easements; reviews project plans; and creates base mapping. Mr. Thaw has more than 22 years of experience in a wide range of land surveying applications. He is experienced with the day-to-day operation of the business and management of personnel.

Education

- » B.A., Survey Technology, 1981, West Virginia Institute of Technology
- » B.S., Surveying, 1985, West Virginia Institute of Technology

Work Experience

- » Terradon Corporation
1994-Present
- » Bowman Land Surveying
1992-1994
- » Dunn Engineers
1990-1992
- » Kelley Gidley Blair and Wolf
1988-1990
- » Pierson & Whitman Architects
and Engineers
1984-1986

Registration

- » Professional Surveyor, West Virginia

Relevant Project Experience

- » Paden City water service study, Paden City WV. Terradon was a sub-contractor responsible for complete water service as-built. The project consisted of approximately 13 miles of water line to be mapped and cataloged. Responsible for all survey aspects and mapping
- » Underground utility as-built for all of Southridge Centre, Dudley Plaza, Trace Fork, and Nitro Market Place. As-built of all underground utilities including storm sewer. The scope included horizontal location, vertical location, and connectivity. The all underground information was compiled, reconciled, and shown in tabular form in AutoCAD. Responsible for all survey aspects and mapping.
- » Martinsburg Drainage Study, Martinsburg, WV. TERRADON Corporation was contracted by WVDOH to perform a drainage study for the City of Martinsburg, WV. The project involved the development of a comprehensive drainage study comparing pre and post development conditions. TERRADON performed aerial photography, mapping, right-of-way and as-built storm sewer system as part of the contract. Responsible for coordination aerial mapping, GPS control, field location and AutoCAD mapping.
- » Thomas Memorial Hospital, South Charleston, WV. TERRADON was contracted to perform a detailed topographic survey and underground utility study of approximately of five city blocks and Thomas Memorial Hospital. The information was utilized for the master planning and implementation of the most recent Thomas Memorial Hospital campus project. Responsible for all field activity and mapping.
- » High Street Streetscape, Morgantown, WV. TERRADON was subcontracted to provide detailed mapping for the High Street streetscape project. Terradon coordinated with Morgan Utility Board (MUB) to obtain pertinent records to map the underground utilities on High Street. MUB information was scanned and geo referenced to the survey. The information collected in the field was by conventional survey methods. The final product was delivered in AutoCAD format for design purposed.

Key Personnel

John W. James, P.E.

Department Head: Geotechnical



Senior engineer for various geotechnical, environmental, and mining projects. Prior to joining TERRADON in 2004, Mr. James was the proprietor of JAMES ENGINEERING, a one man consulting engineering company with projects in geotechnical, hydrological, environmental, foundation, structural and general civil engineering, as well as forensic engineering. Mr. James specializes in innovative and cost saving concepts for his projects. Typical projects include numerous foundation investigations, studies and designs for landfills and environmental facilities, surface and ground water studies and remediation, foundation investigations and designs ranging in size from houses to major industrial complexes, roads, highways and bridges, earth and rock fill dams, storm drainage facilities, airport facilities, landslide analysis and correction, and forensic engineering.

Education

- » B.S. Civil Engineering
West Virginia Institute of
Technology

Work Experience

- » 1997-Present
TERRADON Corporation
- » 1990-1997
Kelly, Gidley, Blair and Wolfe
- » 1982-1989
Dunn Engineers
- » 1979-1982
West Virginia Department of High-
ways

Registration

- » Professional Engineer: WV

Affiliations

- » American Society of Civil Engineers
- » National and West Virginia Society
of Professional Engineers

Recent Project Experience Highlights

- » Geotechnical investigation and design of numerous wa-
ter and wastewater treatment plants, including Charles
ton Wastewater Treatment Plant, North Beckley Waste
water Treatment Plant, Buckhannon Water & Wastewa-
ter Treatment Plant, Elkins Water & Wastewater Treat-
ment Plant, Berkley Spring Water Treatment Plant, Mor-
gantown Wastewater Treatment Plant, Elk Pinch Waste-
water Treatment Plant, Parkersburg Wastewater Treat-
ment Plant, St. Albans Water Treatment Plant.
- » Design and upgrade of water supply dams including Up-
per & Lower Dog Run water supply dams, Salem, West
Virginia; Key Dam, Bluefield, West Virginia; Chatham Lake
Dam (irrigation supply), Shady Springs, West Virginia.
Involvement with geotechnical aspects included interac-
tion with process and structural aspects and structural
design of many components.

Key Personnel

Jack Mangus, P.E.

Project Engineer



Mangus is a 13-year veteran in the engineering and land development industry. As a registered professional engineer, Mangus provides engineering support to TERRADON clients primarily in the educational and commercial land development sectors. His background includes site and utility design, layout, permitting and utilization planning. Mangus joins TERRADON after a successful 12-year career in Florida where he provided similar services throughout the state.

Education

- » B.S. Civil Engineering, 1998
University of Florida

Work Experience

- » 2010-Present
TERRADON Corporation
Project Manager/Engineer
- » 2008-2010
Hill, Boring, Dunn & Associates
Vice President
- » 2005-2008
Liberty Development
Director of Development
- » 2002-2005
Southeast Engineering Group
President
- » 2000-2002
Hill, Boring, Dunn & Associates
Construction Manager
- » 1999-2000
C. Vargas & Associated
Project Manager

Registration

- » Professional Engineer
State of West Virginia
State of Florida

Recent Project Experience Highlights

West Virginia Higher Education Policy Commission Advanced Technology Center—Dow Industrial Park

- » Working through the architect, Mangus has provided civil engineering support for TERRADON project activities including site planning and layout, landscape architecture and site utilization.

K-12 Education Projects

- » TERRADON has provided services for numerous site designs on K-12 educational projects throughout the State of West Virginia, primarily as a subconsultant to architects. Since joining TERRADON, Mangus has been responsible for civil engineering support on those projects including Winfield Middle School, Confidence Elementary, and Marsh Fork Elementary.

Federal Building—Charleston, WV

- » Mangus is currently providing civil engineering support for TERRADON's site development plans for a GSA Federal Building in Charleston, WV.

Residential Housing Developments

- » Prior to joining TERRADON, Mangus provided civil engineering services on numerous large-scale residential housing development in the State of Florida. Typical projects consisted of several hundred acre developments including residential housing, golf courses, country clubs and facilities buildings and maintenance facilities.

Commercial Site Design

- » Mangus has been responsible for multiple commercial site developments, primarily in Florida. However since joining TERRADON Corporation, Mangus has provided civil engineering support for commercial properties including Sheetz facilities, and Medical office buildings.



Key Personnel

Bill Hunt, PG, LRS

Environmental Project Manager



Bill Hunt serves as TERRADON's Environmental Project Manager. Hunt offers more than 24 years of environmental management expertise during the completion of more than 1000 environmental projects. Hunt is a Licensed Remediation Specialist and a Professional Geologist. His background includes environmental site assessments, permitting, remediation, testing and analysis.

Education

- » B.S. Environmental Science, 1981
Morehead State University
- » Master of Arts Geography, 1985
Ohio University

Work Experience

- » TERRADON Corporation
Environmental Project Manager
2010—Present
- » NGE, LLC
Director, Environmental Health & Safety
2008—2010
- » H.C. Nutting Company
Environmental Group Leader
2001—2008
- » PSARA Technologies
Environmental Services Division Manager
1989—1991
- » Westinghouse
Environmental Scientist
1986—1989

Certifications

- » Licensed Remediation Specialist (WV)
- » Professional Geologist (IN)
- » 40-Hour OSHA HAZWOPER
- » 8-Hour OSHA HAZWOPER Supervisor

Project Experience

Hunt has provided environmental management services on a wide variety of projects. His experience includes:

- » Permitting
- » RCRA Record Keeping
- » Environmental and Industrial Hygiene Sampling
- » Environmental Audits and Assessments
- » Risk Assessments
- » Aquifer Testing
- » Remediation Design
- » Statistical Analysis of Soil and Groundwater
- » Plan Preparation

Key Projects:

- » Soil & Groundwater Remediation of diesel impact at coal loading facility—Kenova, WV
- » Remediation and decommissioning of PCB contamination at transformer & capacitor manufacturing facility—Bloomington, IN
- » BMP and SPCC plan preparation for eight oil field electric-generating power plants—Various Locations, FL
- » Wetland Assessment and delineation at 900-acre undeveloped property—Kingwood, WV
- » 40 Phase I Environmental Site Assessments for fast food franchise at locations in WV, OH, IN, MO, KS, MI and WI.

Key Personnel

Bruce Frame

Department Head: Materials Testing & Construction Monitoring



Bruce Frame is TERRADON'S Manager of Construction Inspection and Materials Testing. He has 35 years of experience in materials testing in the Materials Section of the West Virginia Department of Transportation, Division of Highways. Since joining TERRADON in 2000 he has been responsible for material testing and inspection on a wide variety of construction projects.

Work Experience

- » 2000-Present
TERRADON Corporation
- » 1966-2000
WVDOH, District 1

Registration

- » NICET Level 3 Engineering Technician
- » West Virginia Certified Portland Cement/Concrete Technician & Inspector
- » West Virginia Certified Aggregate Inspector
- » West Virginia Certified Hot Mix Asphalt Technician & Inspector
- » Fairmont State College Engineering Technician/Technologist Certification Program #1727 Level III - TRET

Recent Project Experience Highlights

- » WVDOH Materials Control, Soil and Testing Division Headquarters
- » Point Pleasant River Front Park
- » Upper Kanawha County Community Building
- » State Route 34 Widening
- » US 35 - Interstate 64 Interchange
- » WV Corridor G
- » WV Corridor H
- » WV Corridor D
- » Coalfields Expressway
- » Merritts Creek Connector
- » Odaville Bridge
- » Dunlaugy Bridge
- » Culloden Bridge
- » WV Turnpike Signage
- » Hal Greer Blvd Widening