

ASSOCIATES, INC.



ARCHITECTURE  
PLANNING

Expression  
Of  
Interest

Architectural/  
Engineering  
Services

New Patient  
Care Unit at  
The William R.  
Sharpe, Jr.  
Hospital  
WSH90086

Roberta Wagner

File 22  
WV Purchasing  
Division  
2019 Washington  
Street, East  
Charleston, WV  
25305

December 4, 2008

WYK Associates, Inc.  
PO Box 1484  
205 Washington  
Avenue  
Clarksburg, WV 26301  
304-624-6326  
wyk@wykarchitects.com

# ***TABLE OF CONTENTS***

1. **COMPANY OVERVIEW**

2. **PROJECT TEAM**

3. **PROJECTS**

4. **RESUMES**

5. **CONSULTANTS**

**MECHANICAL/ELECTRICAL ENGINEERING**  
**ZDS Design/Consulting Service**

**STRUCTURAL ENGINEERING**  
**Allegheny Design Services**

6. **REFERENCES**

7. **NO DEBT AFFIDAVIT AND**  
**ADDENDUM ACKNOWLEDGEMENT**

RECEIVED

2000 NOV 26 P 12: 22

ACQUISITION DIVISION  
STATE OF WY

# ***COMPANY OVERVIEW***

## **A cross section of clients served includes:**

Alcon	Huntington Bank of WV
Bank One	Jackson & Kelly Attorneys, PLLC
Barbour County Bank	Kingsford Manufacturing Company
Barbour County Schools	Lewis County Schools
Barbour County Commission	Mountain Laurel Mining Complex
Bridgeport United Methodist Church	Our Lady of Perpetual Help Catholic Church
Buckhannon Housing Authority	Pocahontas County Schools
Calhoun County Banks, Inc.	Premier Medical Group
CENTRA	Pressley Ridge Schools
Citizens National Bank of Elkins	Preston County Commission
City of Bridgeport	Preston County Development. Authority
City of Clarksburg	Quiet Dell United Methodist Church
City National Bank	Ritchie County Library
Clarksburg Baptist Church	Siegriest & White Attorneys, PLLC
Clarksburg Housing Authority	Stockmeier Urethanes, Inc.
Clarksburg County Club	Taylor County Courthouse
Construction Employers Association	United Hospital Center
Davis Memorial Hospital	Vienna Public Library
Dominion Appalachian Development	Webster County Development Authority
Fairmont State University	Webster County Memorial Hospital
First United Methodist Church	West Union Bank
Harrison County Bank	West Virginia Army National Guard
Harrison County Commission	West Virginia Dept. of Education
Harrison County Schools	West Virginia Wesleyan College
Harrison County YMCA	Wood County Commission
Harrison-Marion Airport Authority	WVU Employees' Federal Credit Union
High Point Furniture	Young Morgan, & Cann PLLC

WYK Associates, Inc. enjoys an excellent reputation for providing very thorough construction period services. We strongly support the interests of our client in a manner that is fair to all parties, and most of the contractors in our area respond positively to our projects.

## **CADD Capabilities:**

WYK Associates, Inc. is currently using AutoCAD Release 2005 for all architectural design and documents. We maintain software needed to convert files created in other computer aided drafting releases as required by some clients and consultants. For visualization we use Sketch-Up for 3-D modeling. We typically use the Master Spec System for specification requirements and are constantly upgrading systems, equipment and training to maintain our capabilities at the highest possible level.

## **Technology Integration:**

WYK Associates, Inc. maintains high-speed internet connection throughout our company network to facilitate timely response to design and construction period concerns. It affords our consultants and collaborators ready access to data required to maximize their effectiveness for our clients. Our website [WYKARCHITECTS.COM](http://WYKARCHITECTS.COM) allows efficient access to our company and our personnel.



## Who We Are:

- WYK Associates, Inc. is a six person architectural and planning firm serving a wide variety of commercial and institutional clients, in both the public and private sectors, from our office in Clarksburg, WV.
- The firm was founded in 1971 by the late Whalen L. King, AIA. Carleton Wood, Howard Kelley and Bill Yoke purchased the firm after Mr. King's death in 1974. Through Mr. Wood's association with E. J. Wood and Son – his grandfather and father - and William H. Grant, the firm has roots in North Central WV dating back to the early 1920's. WYK Associates Inc.'s archives include much of the work of those firms. Mr. Wood and Mr. Kelley retired in the mid 90's and Mr. Yoke became president of the firm in 1996. James Swiger joined the firm in 2005 and became a principal and vice president in 2008.



## Our Practice Philosophies:

- WYK Associates, Inc. collaborates with a specific group of engineering consultants tailoring our project team to the specific needs of each client and project. We emphasize the continuous involvement of the project's principals in all disciplines throughout each project.
- The client is always an integral part of the project team.
- Through collaboration with engineering consultants and larger architectural firms, we assure that adequate manpower is available to address the needs and schedule requirements of each client. We place very strong emphasis on managing and coordinating the team effort to address the client's needs throughout a project's life.
- We provide thorough planning of all areas of each project including program, cost, funding, scope of work and concept. This allows us to develop a rational design solution fitting the individual requirements of each project and to maintain a strong commitment to a positive impact on both the natural and built environments.
- All design team members emphasize use of the most current energy conservation and product safety information.
- The client's needs for quality, service, and value are the driving force behind each decision. At WYK, each employee is responsible for the quality of the product that reaches our clients, and we emphasize teamwork and open communication with our clients and consultants so we can be responsive to each project program.



## Project Management:

- We carefully evaluate the Owner's program, design concerns, budget, funding sources, and other available data to assure a clear understanding of the project. We involve and manage the entire project team, incorporating input from the Owner and all the consultants, to establish realistic schedules and update project budgets and data at each stage of project development. The entire project team remains involved – from concept through occupancy.



# ***PROJECT TEAM***

**Project Team**

**Architects**

**WYK Associates, Inc.**  
205 Washington Avenue  
PO Box 1484  
Clarksburg, WV 26301  
304.624.6326  
304.623.9858 fax  
bill@wykarchitects.com

**Mechanical and Electrical Engineers**

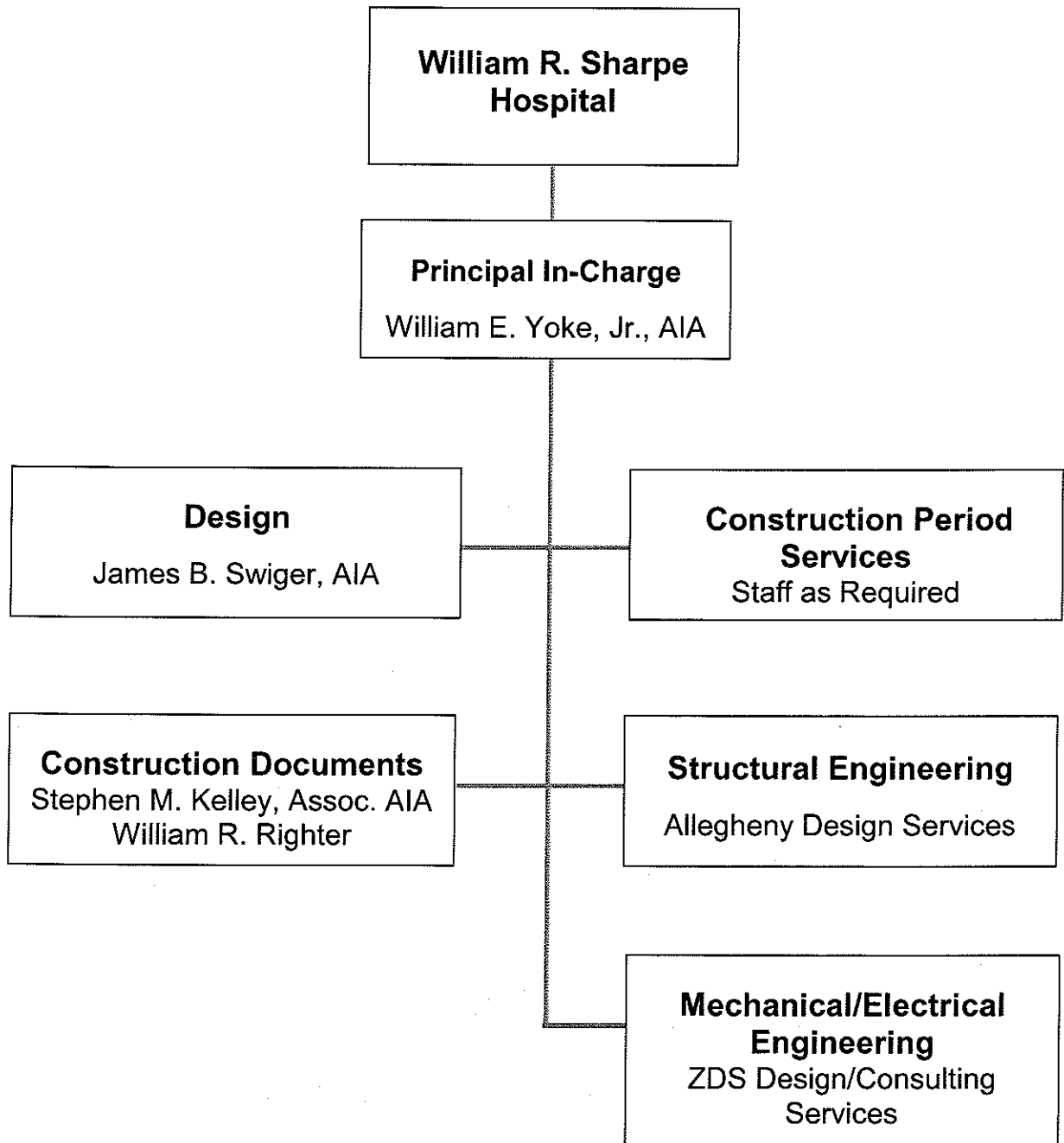
**ZDS Design/Consulting Services**  
91 Smiley Drive  
St. Albans, WV 25177  
304.755.0075  
304.755.0076 fax  
todd.zachwieja@zdsdesign.com

**Structural Engineers**

**Allegheny Design Services, Inc.**  
102 Leeway Street  
Morgantown, WV 26505  
304.599.0771  
304.599.0772 fax  
dave@alleghenydesign.com

# WYK ASSOCIATES, INC.

## Team Organization

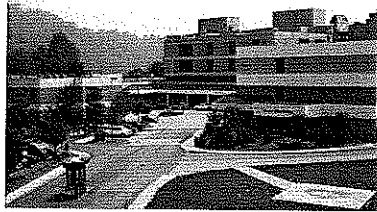




# ***PROJECTS***



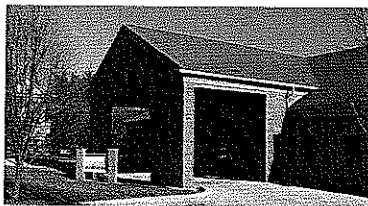
Morgantown Orthopedic  
Clinic



United Hospital Center



Medbrook Medical Center



Cancer Center  
Davis Memorial Hospital



New Broadus Hospital

**Davis Memorial Hospital, Elkins, WV**

- Day Surgery Suite
- Cafeteria Expansion
- Operating Room Renovations
- 60,000 sf Office/Outpatient Services Addition

**Grafton City Hospital, Grafton, WV**

- Community Wellness Center
- Relocation of Pharmacy
- CT Scanner Suite
- Cardiac Care Unit Expansion
- Emergency Room Renovations
- Renovate Rural Health Care Clinic Entry
- Create Medical Records Storage from General Storage Space

**Stonewall Jackson Memorial Hospital, Weston, WV**

- CT Scanner Suite
- Addition for Administrative Offices

**United Hospital Center, Clarksburg, WV**

- Family Practice Office Model
- Linear Accelerator/ Oncology Systems

**UHC - Doctor's Office Building, Clarksburg, WV**

- Offices for an Internist
- Offices for two Family Practice Physicians

**Clarksburg Comprehensive Care Center, Clarksburg, WV**

- New Permanent Entry for Building

**United Summit Center, Clarksburg, WV**

- Crisis Intervention Center
- Structural Repairs to Main Building
- Crisis Intervention Center Expansion

**Wedgewood Family Practice and Psychiatry Associates, Inc., Westover, WV**

- New Doctors' Offices and Laboratories

▪ A red bullet indicates a current WYK project.



Grafton City Hospital



UHC Wound Care Center



Stonewall Jackson  
Memorial Hospital

**Louis A. Johnson VA Medical Center, Clarksburg, WV**

- Total Electrical Service & Distribution Upgrade with Astorino Engineers
- Renovate Second Floor Laboratory
- Remodel Sixth Floor Solarium
- Convert NW Entrance & Chapel to Multi-Purpose Room
- Correct Drainage at Building 5 and Canteen Patio
- Renovate SW Entrance
- Upgrade Information Technology (IT) Room

**Broadus Hospital, Philippi, WV**

- New Rural Hospital with long-term care beds and laboratories

**UHC Wound Care Center, Bridgeport, WV**

- Offices and Treatment Rooms from a former mortgage company

**Webster General Hospital, Webster Springs, WV**

- Planning Concept for Development

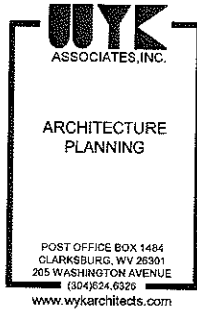
**Medbrook Urgent Care Facility, Bridgeport, WV**

- Two story building for offices and treatment rooms and laboratories
- Site Planning for a new building

**Morgantown Orthopedic Center, Westover, WV**

Two story medical office building

▪ A red bullet indicates a current WYK project.



## Broaddus Hospital Philippi, West Virginia

Broaddus Hospital  
Philippi, West Virginia

Mr. Steve Johnson

304.636.3129

Building Area: 45,000 gsf

Building Cost: \$6 million

In 1999 this "new" Broaddus Hospital replaced a large outdated 1950's era facility, located on the Alderson-Broaddus College Campus. The facility was relocated to a more accessible and functional site off campus, providing a more visible profile, ample parking and more direct access from highways for emergency services.

The new hospital is a model for rural primary care facilities, providing a multi-function building compliant with current standards and is designed to address the modern needs of the smaller community.

The scale, massing and materials are considerate of the rural setting of the building and they enhance the residential nature of the long term care facility component, where providing familiar imagery is a key conceptual element.

The Services provided include:

Rural Health Clinic

Specialty Clinic

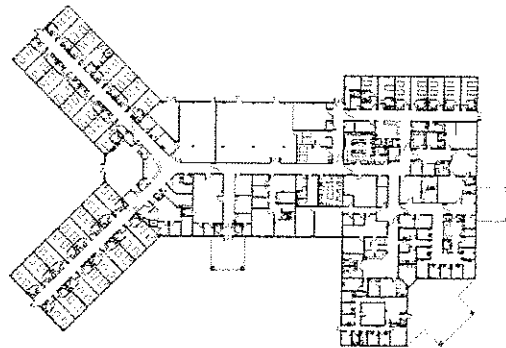
Emergency Room

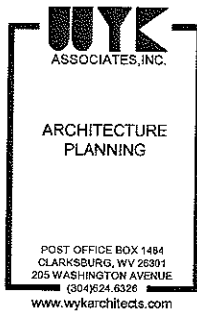
12 Acute Care Beds

60 Long Term Care Beds

Laboratory

Pharmacy





# DAVIS MEMORIAL HOSPITAL CANCER CENTER

Elkins, West Virginia

**OWNER:**

Davis Memorial Hospital  
Gorman and Reed Streets  
Elkins, WV 26241

**CONTACT:**

Steve Johnson  
Director of Support Services  
304-637-3129

**BUILDING AREA:** 4,200 GSF

**BUILDING COST:** \$2.5 million

**COMPLETION:** 2002

**STRUCTURAL ENGINEER:**

Clayton L. Carter, PE, Inc.

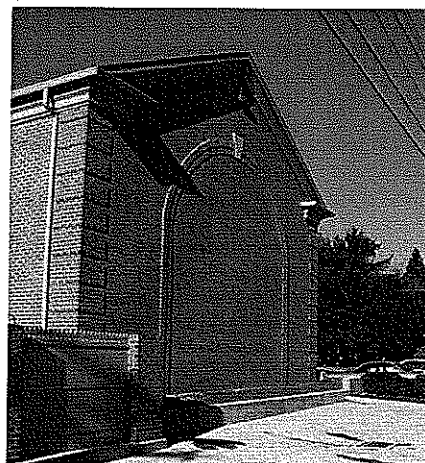
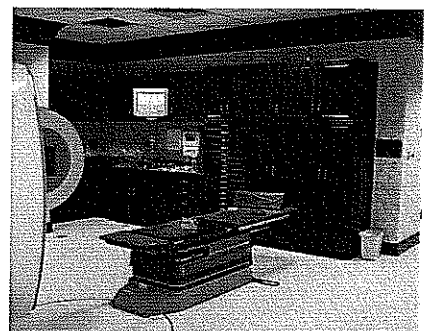
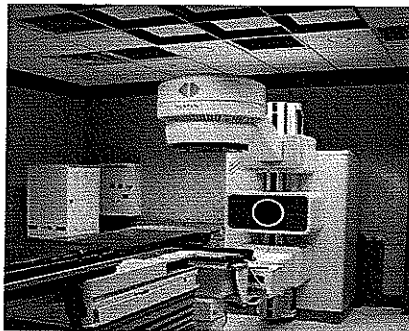
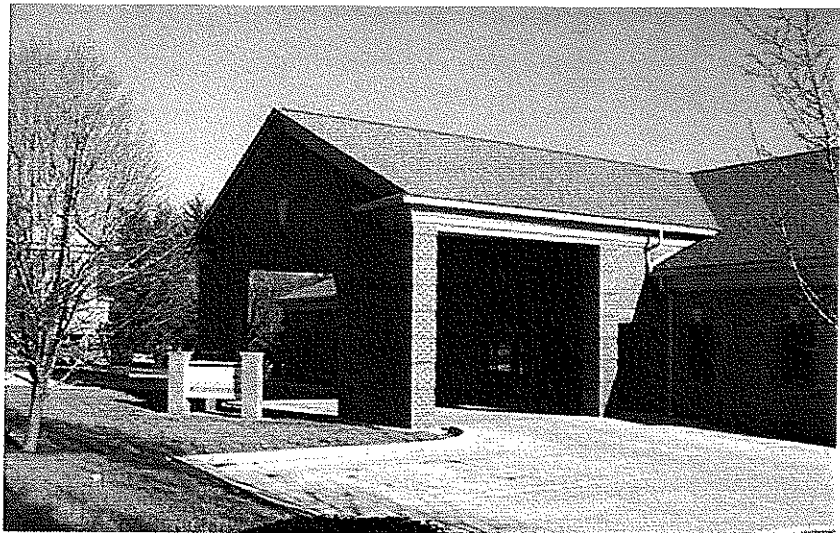
**CONSULTANT:**

Andrew G. Bukovitz  
Radiological Physics Service, Inc.

Designed as an integral part of an existing hospital campus, this Cancer Treatment Center uses materials and massing similar to surrounding buildings. Masonry quoins add interest to the building's simple footprint.

The client's goal was to combine nuclear and experimental medicine with an intimate, residential atmosphere to promote maximum healing. Interior finishes and furnishings soften the medical setting.

Access is paramount for both the patient and their caregivers, who await them during treatment. The porte-cochere features a stilted round arch with contrasting keystone, which is repeated in a reduced scale for the entry. The flat arches of the windows also use the contrasting keystone. The buildings' masonry back wall, which is visible from other hospital campus facilities, exhibits the same stilted arch with contrast detail as a detail in the masonry.





## Morgantown Orthopedic Associates Morgantown, West Virginia

**OWNER:**

Commercial Land Development, Inc.  
827 Fairmont Road, Suite 207  
Morgantown, WV 26501

**CONTACT:**

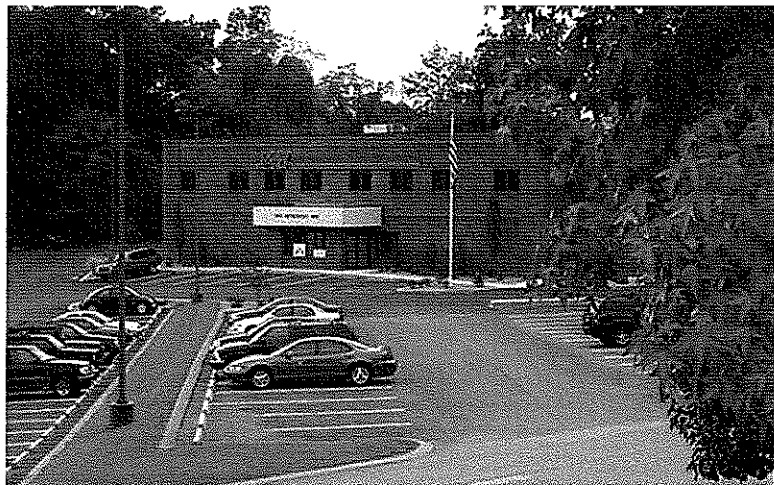
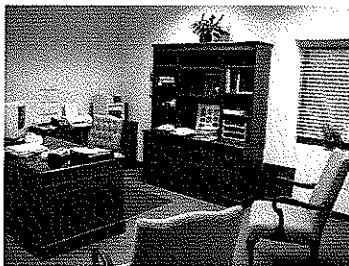
Betty Atkins, President  
304.292-5438

**BUILDING AREA:** 10,000 SF

**COMPLETION:** 2002

**CONSTRUCTION COST:** \$800,000

Located on the Monongahela General Hospital Campus, this two story office building was constructed by the Owner's forces using concrete construction with an EPS form system for energy efficiency, security and sound attenuation.



# ***RESUMES***

# William E. Yoke Jr., AIA NCARB

President | Principal - In - Charge

WYK Associates, Inc  
205 Washington Ave.  
Clarksburg WV 26301  
304.624.6326  
bill@wykarchitects.com

## EDUCATION

Bachelor of Science - Pre-Architecture 1968  
Clemson University  
Clemson, SC

## PROFESSIONAL ASSOCIATIONS

American Institute of Architects  
AIA/ West Virginia  
West Virginia Board of Architects  
National Council of Architectural Registration Boards

## EMPLOYMENT SUMMARY

WYK Associates, Inc.	1978 – present
WYK Architects	1975-77
Whalen L. King, Architect	1973-74
United States Navy	1969-73
Giese Engineering	1968-69

## ARCHITECTURAL REGISTRATION

West Virginia (Registration #1566)  
Virginia (Registration #401-009314)  
Maryland (Registration #10172)  
Pennsylvania (Registration #RA-014502)  
Nat. Council Architect (Registration #23448)

## SELECTED PROJECTS

Bridgeport Public Safety Building - Bridgeport, WV  
West Pike Street Parking Facility - Clarksburg, WV - 2008 AIA West Virginia Merit Award  
Information Manufacturing Corporation - Cowan, WV - 2007 AIA West Virginia Merit Award  
West Virginia Air Center, Harrison-Marion Regional Airport - Bridgeport, WV  
Eastern Army Aviation Training Site, Harrison-Marion Regional Airport - Bridgeport, WV  
City National Bank Branches – Bridgeport and Clarksburg, WV  
WVU Employees' Federal Credit Union – Morgantown, WV  
Harrison County Branch Banks - Bridgeport, Nutter Fort, and Clarksburg Route 19S, WV  
Peterson-Central Elementary School - Weston, WV  
New Broaddus Hospital - Philippi, WV  
Addition to Vienna Public Library - Vienna, WV  
Kingsford Charcoal - Parsons and Beryl, WV  
West Milford Elementary School Addition – West Milford, WV  
Oncology Center for Davis Memorial Hospital - Elkins, WV  
Hewes Avenue Parking Structure - Clarksburg, WV  
West Union Bank Branch – Harrisville, WV  
West Union Bank Branch - Newpointe, Clarksburg, WV - 2007 AIA West Virginia Merit Award

Mr. Yoke began his career with this firm in 1973 as a project manager for the late Whalen King, AIA. He has been involved in every facet of the firm's operations over the years becoming its President in 1996. Mr. Yoke's primary role as a project architect or principal-in-charge includes the projects listed below.

Mr. Yoke has provided services for a wide variety of projects in both the public and private sectors including schools, housing, offices, industrial facilities and interior renovations.

Mr. Yoke is very involved in both his profession and community. He has served two terms as President of AIA/West Virginia and several terms as President of the West Virginia Board of Architects. He has been Chairman of Region 2 of the National Council of Architectural Registration Boards, and has served on various National Committees involving examination for and regulation of the profession. He also serves on the advisory committee for the Architectural Engineering Technology Program at Fairmont State University. He is a board member for the Harrison County Chamber of Commerce and the recipient of their 2008 Chairman's Award. He is and active member of the Madrigal Singers of Clarksburg.



# James B. Swiger, AIA NCARB

Vice President | Principal

WYK Associates, Inc  
205 Washington Ave.  
Clarksburg WV 26301  
304.624.6326  
james@wykarchitects.com

## EDUCATION

Bachelor of Architecture 1996  
University of Tennessee  
Knoxville, TN

## PROFESSIONAL ASSOCIATIONS

American Institute of Architects  
AIA/ West Virginia  
National Council of Architectural Registration Board  
National Trust for Historic Preservation

## EMPLOYMENT SUMMARY

WYK Associates, Inc.	2005 – present
Blackwood Associates, Inc.	2000 - 2005
Stephen Hughes Gegner Architects	1997 - 2000
WYK Associates, Inc.	1996 - 1997

## ARCHITECTURAL REGISTRATION

West Virginia (Registration #3640)  
National Council of Architects (Registration #58982)

## SELECTED PROJECTS

Christie-Cutlip Office Complex, Charles Pointe, Bridgeport, WV  
West Pike Street Parking Facility, Clarksburg, WV – 2008 AIA West Virginia Merit Award  
Stonewall Resort Lodge and Conference Center, Roanoke, WV  
Bank of Gassaway, Flatwoods, WV  
City of Ripley Municipal Building, Ripley, WV  
Addition to Office Building for Dominion Exploration and Production, Inc., Jane Lew, WV  
New Office Building for Mountain Laurel Mining Company, Sharples, WV  
Historical Masonry and Window Restorations to Carskadon Mansion, Keyser, WV  
Historical Exterior Restorations to Waldomore, Clarksburg, WV  
Interior Renovations to Louis A. Johnson Veterans Hospital, Clarksburg, WV  
New Veterans' Nursing Home Facility at Louis A. Johnson Veterans Hospital, Clarksburg, WV  
Transitional Facility at William R. Sharpe Hospital, Weston, WV  
Pickens School, Pickens, WV  
Multi-Tenant Building for the Braxton County Development Authority, Flatwoods, WV  
Camp Sunshine, Flatwoods, WV  
First Baptist Church Renovations, Marietta, OH  
Washington County Library Genealogy Branch Renovations, Marietta, OH  
Johnstown Post Office, Johnstown, OH  
Philippi Elementary School Kindergarten Addition, Philippi, WV

Upon college graduation, Mr. Swiger began his career at WYK Associates, Inc. While completing his national architectural licensing examination, he worked with two other firms. In 2005 he returned to WYK, becoming a Principal and Vice President in 2008. He is a Harrison County native involved with several community and professional organizations. He was recently elected Director 2010 for AIA-WV. He is President of the Clarksburg Kiwanis, a member of the Harrison County Chamber of Commerce Education Committee and serves on the grants committee for the Harrison County United Way.

Mr. Swiger has gained broad experience in both the private and public sectors of the construction/design industry. His completed work reflects a variety of projects whose values range from thousands of dollars to over \$20 million.

Among his most noteworthy projects are:

- Christie-Cutlip Office Complex, Charles Pointe
- Salem Elementary School Trail and Outdoor Classroom
- New Stonewall Resort Lodge and Conference Center at Roanoke in Lewis County.

On each he served as either Project Manager or Project Architect from the project's design phase through its final completion.

# Stephen M. Kelley, Associate AIA

WYK Associates, Inc  
205 Washington Ave.  
Clarksburg WV 26301  
304.624.6326  
stephen@wykarchitects.com

## Project Manager

### EDUCATION

Bachelor of Architecture 2000  
Philadelphia University  
Philadelphia, PA

### PROFESSIONAL ASSOCIATIONS

American Institute of Architects  
AIA/ West Virginia

### EMPLOYMENT SUMMARY

WYK Associates, Inc.	2007 – present
Blackwood Associates, Inc.	2002 - 2007
Kurtz Construction	1999 - 2001
Philadelphia University Athletic Dept.	1996 - 2000
Eagle Lodge Golf & Conference Center	1997

While in college, Mr. Kelley worked two years for a construction company that focused mainly on roofing and masonry work of historic homes and buildings in the Philadelphia area. After graduation he took that experience and applied it to several projects at another local architecture firm, all the while completing his profession's required Intern Development Program. He is currently pursuing his professional license.

Mr. Kelley has gained broad experience in both the private and public sectors of the construction/design industry. He has been either the Project Designer or Project Manager of range of projects totaling over \$20 million in value. He is involved now with four upgrade renovations at Clarksburg's VAMC and one for United Hospital Center.

Mr. Kelley is involved in several community organizations. He is a board of director's member of the Salem Area Chamber of Commerce, the Fort New Salem Foundation and the Harrison County Development Authority. He served in Kuwait with the US Army Reserve and is now a trustee of VFW Post 9151 in Salem. Currently he also serves as project coordinator for the Salem Veterans Memorial Restoration Project.

### SELECTED PROJECTS

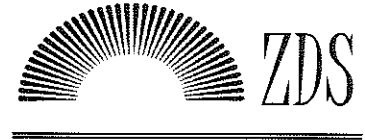
West Milford Elementary School Addition, West Milford, WV  
Entry Replacements and Interior Hardware at eight Harrison County Schools  
Monongalia Hospital Orthopedic Center Renovation, Morgantown, WV  
New Flatwoods Branch for the Bank of Gassaway, Flatwoods, WV  
Louis A. Johnson VA Medical Center - Multiple Renovation Projects, Clarksburg, WV  
United Hospital Center's CCCC Building Entry Replacement, Clarksburg, WV  
Harrison County Schools Entries and Hardware Replacement at Numerous Locations  
Renovation to Johnston School, Salem, WV  
Window System Insulated Panel Replacement- Hopemont Hospital, Terra Alta, WV  
Pinecrest Hospital TB Unit Renovations, Beckley, WV  
Multi-Tenant Building for the Braxton County Development Authority, Flatwoods, WV  
Jayenne Elementary School Addition & Renovation, Fairmont, WV  
BC Bank Facility, Fairmont, WV  
Historical Masonry and Window Restorations to Carskadon Mansion, Keyser, WV  
Historical Exterior Restorations to Waldomere, Clarksburg, WV  
New Veterans' Nursing Home Facility at Louis A. Johnson Veterans Hospital, Clarksburg, WV

# ***C O N S U L T A N T S***

**MECHANICAL/ELECTRICAL ENGINEERING**  
**ZDS Design/Consulting Services**

**STRUCTURAL ENGINEERING**  
**Allegheny Design Services**

# ***ZDS Design/Consulting Service***



ZDS offers an effective organizational structure; one that takes each project from inception through completion, working as an extension of the *Client* every step of the way.

In 1983, Todd A. Zachwieja founded ZECO Consultants. In 1994 ZDS Limited Liability Company was incorporated in WV using dba ZDS **Design/Consulting Services**. This company was founded to provide design and consulting services. Today there are four principals with over 100 years of technical expertise:

- Todd A. Zachwieja, PE, C.E.M., LEED AP, Chief Executive Officer, brings with him over 27 years in the design and consulting business.
- Ted T. Zachwieja, Principal over Construction Administration services with over 40 years experience in the design and consulting business. He was owner of Ted T. Zachwieja & Company from 1962 to 1982.
- Daniel H. Kim, Ph.D., Manager of Strategic Planning, brings with him over 20 years in the design and consulting business and is one of the nation's leading experts in organizational management. He is also owner/founder of Pegasus Communications, Inc. from 1991 to present.
- Lori Zachwieja, CPA, Chief Financial Officer and cofounder of ZECO Consultants.

ZDS is a consulting engineering firm specializing in the following areas:

MECHANICAL  
ELECTRICAL  
INDOOR AIR QUALITY  
COMMISSIONING  
ENERGY

Each new project is assigned to a principal in-charge who will follow the project from inception through commissioning.

We assign the production staff according to the nature of the project and the work force necessary to meet the schedule. The Principal in charge of that project determines if consultants are needed and coordinates all areas. After bidding, a Principal of ZDS coordinates visits to the job site regularly, all the way through the post warranty inspection.

**“Excellent mechanical and electrical design results from an experienced team, as well as, listening to the needs of the Client.”**

ZDS believes in the team approach when providing engineering design and consulting services. We start with *our client* as the number one member on our team. We listen to the **needs** and **concerns** of our client and that becomes the basis for our design. Our design expertise includes:

**MECHANICAL DESIGN**

- Heating & Ventilation
- Air Conditioning
- Piping
- Environmental Controls
- Process Controls
- Refrigeration
- Plumbing
- Medical Gases
- Sprinkler-Fire Protection
- Master Planning

**ELECTRICAL DESIGN**

- Power Distribution
- Interior Lighting
- Exterior Lighting
- Emergency Power
- Communications
- Technology
- Fire Alarm
- Security
- Life Safety
- Master Planning

ZDS provides comprehensive design services. We have experience and specialties in indoor air quality, energy management and commissioning, along with traditional mechanical and electrical design experience dating back as far as 1958. We offer a complete package.

We work with all levels of the client’s staff: the building owner, the budget supervisor, the operating and maintenance staff and others impacted by the project. We recognize the maintenance and operating staff live with the design long after the project’s completion. We listen to and work with those who will continue to operate and maintain the equipment. We find that proper communication benefits the client throughout the design process and beyond.

ZDS design team provides a total system evaluation for cost effective selection, installation, and ease of maintenance for both new systems and retrofit of in-place systems.

Design begins with *our client*. Our staff meets with our client to review their concerns, budgets and schedules. The ZDS design team reviews the *entire* picture, and ends with “A Total Design.”

ZDS provides consulting engineering services for the indoor air quality (IAQ) environment. These services include; strategic planning for renovation and new construction projects; technical research and writing; specialized applications software development; corporate and professional training programs; publications support and fulfillment; and site-specific engineering and scientific consultation.

Todd Zachwieja, ZDS principal, is contributing editor for the following IAQ publications:

- Contributing Editor and Technical Review Panel for the publication of the *ENVIRONMENT<sup>o</sup> Handbook of Building Management and Indoor Air Quality*, by Chelsea Group and published for Powers Educational Services.
- Technical Review Panel for the Quarterly publication of the *ENVIRONMENT<sup>TM</sup> Newsletter*, by Chelsea Group for Powers Educational Services.
- *Ventilation for a Quality Dining Experience: a Technical Bulletin for Restaurant Owners and Managers*, released in January 1993.
- *The New Horizon: Indoor Environmental Quality*, published as a supplement to the June 1993, issue of *Consulting Specifying Engineer* magazine, a trade magazine distributed to roughly 50,000 engineers.
- Editorial Advisory Board member reviewing the articles of the monthly publication *ENVIRONMENT<sup>TM</sup> Professional*
- Editorial Advisory Board member of *POWER PRESCRIPTIONS<sup>TM</sup> Indoor Air Quality Publication* by *Electric Power Research Institute*.

ZDS provides IAQ services for major corporations, government organization, and property owners to resolve their specific facility problems:

- Resolve the building's "sick building syndrome" complaints.
- Identify solutions to extensive biological contamination building related illnesses in renovated office buildings.
- Develop solutions for HVAC systems, temperature controls, equipment, operating and maintenance practices causing IAQ problems in schools and commercial buildings.
- Commission new and renovated facilities to minimize or eliminate IAQ issues before they become problems.
- Develop and establish master plans as well as conduct training seminars for IAQ of schools and commercial buildings.

As one of the Nation's leaders in Indoor Air Quality, ZDS produces sophisticated technical expertise that enables *Our Client* to be proactive in solving and preventing indoor environmental problems.

At ZDS, our engineering staff integrates energy efficiency into each project design to provide you, our client, with the added value that you expect and deserve. The ZDS team approach represents a tremendous amount of experience in designing energy efficient facilities. ZDS offers a comprehensive range of energy management services that includes:

- Providing detailed analysis of facilities.
- Recommending sound and proven energy saving solutions.
- Implementing energy management improvements
- Determine, quantify and assist in securing available Utility & Government grants.
- Evaluating and documenting utility savings.

The ZDS team members take pride in the quality of their projects and have been responsible for designing and implementing numerous energy management programs. These programs are providing significant energy improvements and include; optimizing, central utility plant equipment, control systems, air handling systems, lighting systems, and other energy consuming equipment. Recent projects include:

- Interconnecting boilers and chiller plant systems.
- Designing Geothermal HVAC systems
- Optimizing HVAC equipment and operating sequences.
- Installing Direct Digital Control (DDC) Energy Management Systems.
- Replacing inefficient lighting equipment with energy efficient ones.
- Converting constant speed air handling equipment and pumping systems to variable speed operation.
- Modifying air handling equipment from 100% outside air to return air operation.
- Implementing heat recovery units into HVAC equipment.
- Improving laundry, kitchen and other process application efficiencies.

In addition to the energy management projects outlined above, the ZDS team members have extensive experience in identifying and implementing energy efficient operating and maintenance measures. These are typically low cost or no cost measures that include:

- Inspecting, calibrating temperature controls and adjusting outdoor air dampers.
- Commissioning economizer cycle operation.
- Testing steam traps and pressure relief equipment operation.
- Enabling heating and cooling equipment only when required.

The ZDS team is trained and experienced in advising you of program options to incorporate energy efficiency and operational saving features into the design of your new construction and renovation projects. At ZDS, we view our role as helping you to define your own energy efficiency needs and goals through identifying energy saving options and providing supporting financial information. We then help you to fit your energy efficiency needs and goals into a workable budget and schedule, and then design a program to fill those needs.



Sustainable "Green Building" design including LEED's certification recognizes the importance of commissioning. The design and construction industry have had start-up problems when a facility is occupied and constructions' deficiencies that were not discovered until the contractors traditional one-year warranty period expires. The mechanical and electrical systems have continued to become more complex with sophisticated control systems and equipment, and a mountainous amount of changing technology. If not properly addressed, building Owners could face numerous operational problems from "Sick Building Syndrome," excessive energy costs, and uncomfortable indoor environments. Commissioning is the missing link between design and implementation.

Subsequent to joining ZDS, Todd Zachwieja established commissioning services for one of the nation's largest energy service companies. He is also a *LEED's Accredited Professional*. Many utility companies and building Owners now require commissioning for the new or renovated facilities in order to maximize the use of their investments in their facilities and to obtain LEED's certification. The commissioning process offers the following benefits:

- Improved comfort, serviceability and Owner understanding of systems and design intent.
- Added technical support for the Owner and being proactive in preventing new problems.
- Reduced maintenance and decreased expenses related to operating deficiencies.
- Early identification and resolution of system discrepancies while designers and contractors are still under contract and on the job.
- Verification of system performance while meeting financial restraints.
- Commission new and renovated facilities to minimize or eliminate IAQ issues before they become problems.

ZDS and its consultants, offer commissioning services for their commercial and institutional clients including meeting LEED's enhanced commissioning requirements. These services include strategic planning operations assistance for renovation and new construction projects. Commissioning services consists of construction document review, equipment performance testing, documentation of design criteria, value engineering, operational fine tuning, professional operations training programs and site-specific engineering consultation. Our project team has the unique experience of in-depth design knowledge and hands-on operations knowledge that fills in the gap between traditional design services and the building Owners operational needs.

#### NATIONAL RECOGNITION

The Second National Conference on Building Commissioning invited Todd Zachwieja, ZDS's owner, to speak. He jointly presented a paper with the Director of Maintenance of Charleston Area Medical Center's Memorial division. The Tampa, Florida Conference was held in May 1994.

The principal owners of ZDS and their consultants have extensive experience in building commissioning and have saved their customers hundreds of thousands of dollars in construction costs and operating costs through their efforts.

The design team at ZDS **Design/Consulting Services** is the best to provide engineering services for **your** project. Satisfying *our Client's* individual needs and distinct requirements is the foremost concern of ZDS.

*The most important member of the design team is the client. We make every effort to involve our clients throughout the entire process, from the planning through the construction and beyond.*

The ZDS design staff continuously provides engineering design services value well into the millions of dollars on a variety of project types. Designing expertise goes as far back as 1958. Through the efforts of our staff, project locations include:

West Virginia	Virginia	North Carolina	Georgia
Kentucky	Ohio	Pennsylvania	Florida
Illinois	Connecticut	Texas	Michigan
New York	Wisconsin	Massachusetts	Indiana
Colorado	Tennessee	Maryland	Washington DC
California	Hawaii	South Carolina	

Our clients can rest assured that the design team will be available. Not just for the year or two that we are involved in the initial design and construction, but also for years that follow as questions arise about your facility. A good-engineered system and its equipment should last 15 to 40 years. Why not select a design firm with experienced staff committed to their projects with a comparable track record.

Our design team will provide comprehensive services utilizing experienced staff through planning; cost estimating, engineering, coordination of bidding, regular site visitation during construction and specifications for equipment. You, *our Client*, will greatly benefit from a *single point of responsibility* for every need your project may have.

Our staff has the expertise with codes and standards. We have extensive experience in conducting engineering code surveys of existing facilities. Our staff has excellent working relationships with the West Virginia Fire Marshal's Office and the West Virginia Department of Health.

In addition to comprehensive Engineering services from an experienced design team, another major consideration in the selection of your engineer and design staff should be their track record. ZDS organization has an unbeatable, long running, and well-known track record for meeting *our Client's* needs, on time and within budget with outstanding quality.

We view these characteristics as the foundation of Quality. We look forward to the opportunity to discuss our ideas with you and assist you by providing solutions for your needs with a full range of services from Planning to Commissioning.

**Primary MEP Contact: Todd A. Zachwieja, Principal, mobile phone (304) 545-4550**

**Secondary MEP Contact: Ted T. Zachwieja, Principal, mobile phone (304) 552-5724**

ZDS was formed to provide quality engineering and consulting services specializing in:

- Design of mechanical systems and electrical systems.
- Building indoor air quality survey and analysis.
- Energy management and conservation services.
- Commissioning for new and renovated systems in commercial, educational, industrial and health care facilities.

ZDS approaches engineered systems improvements from the building owner operator's perspective, focusing on practicality, cost effectiveness, energy efficiency, reliability, operability, maintainability of the systems and timely implementation of projects to minimize disruption on existing facilities. We concentrate on optimizing and utilizing the existing systems prior to recommending the purchase of new equipment when upgrading a facility. Actual requirements of existing systems are analyzed and considered in addition to the "design" requirements. Our staff listens to their clients needs through their extensive interaction with the facility operators and the key decision-makers. We believe this approach enhances the design of new systems and ensures that the systems will be practical and functional.

ZDS is a team of professionals capable of meeting a diverse range of needs of facility professionals in the building design, construction and operations. The principals each have specialties in certain aspects that relate to meeting the needs of the building owners and operators. Mr. Ted T. Zachwieja's over 45 years of experience in mechanical and electrical design bring the depth of skills necessary to make the construction and design process operate effectively. Mr. Todd A. Zachwieja's project management skills with his extensive technical strengths in mechanical/electrical engineering and experience in indoor air quality, energy management and commissioning complement the traditional design needs. Mr. Daniel H. Kim's extensive management experience with some of the nation's largest companies provides us with important conceptual planning and organizational understanding. Ms. Lori Zachwieja's accounting and financial management skills provide the in house experience to operate an efficient and effective company to better serve our clients.

ZDS's also has a Professional Engineer working out of Morgantown that helps us reach our customers easily in the northern part of WV. Our current project team includes the following to meet the challenges of our client's building design and operating needs.

**TODD (TED) A. ZACHWIEJA, PE, C.E.M., LEED AP****Chief Executive Officer  
Principal-in-Charge, M/E/P Design Project Manager**

**Education** Bachelor of Science, Mechanical Engineering WV Institute of Technology  
Masters of Science, Eng. Mgt, University of WV College of Graduate Studies

**Registrations** Professional Engineer, West Virginia, No. 10,127 and 7 other states  
Certified Energy Manager (C.E.M.), National Certification  
LEED® Accredited Professional, National Certification through USGBC

**Qualifications** Todd has more than 28 years of experience; in the design, construction management, and specifications for mechanical engineering, heating, ventilating, air conditioning, plumbing, electrical, and lighting; indoor air quality analysis and building system commissioning for educational, commercial, industrial and health care facilities. His specialties include mechanical engineering, HVAC/Plumbing systems master planning, conceptual design, energy conservation program development, commissioning and IAQ analysis relating to HVAC systems. He has extensive experience in industrial, commercial facilities, hospitals and educational design including preparation of construction documents for millions in renovations and additions to facilities. Some of his project experience includes projects hundreds of school projects in WV and elsewhere, new courthouses including the Kanawha County Commission – 120,000 sf additions/renovations for the Judicial Annex/Kanawha County Courthouse Charleston WV, Laidley Towers – Charleston WV, Renovations to Buildings #1, #3, #4, #5, #5, #7, #8, #9, #10 at the WV State Capitol complex, Cultural Center HVAC Renovation, United Center - Charleston WV, Toyota, and WV Air & Army National Guard. He also designed one of the largest geothermal heat pump applications in the mid Atlantic region, commissioned HVAC systems and mechanical engineering at many General Motors facilities in North America and involved in LEEDs projects.

Some of his health care experience includes millions in renovation and new construction design for Charleston Area Medical Center including commissioning of Charleston Area Medical Center's \$41 million Surgery Replacement center and many projects at General Division, Memorial Division, and Women & Children's Hospital. Other health care experience includes Bluefield Regional Medical Center, Hopemont Hospital, Monongalia General Hospital, Montgomery General Hospital, United Hospital Center, St. Mary's Hospital, Summersville Memorial Hospital, Thomas Memorial Hospital, Webster Memorial Hospital, Cabell Huntington Hospital, Welch Emergency Hospital, Surgicare Center, VA Hospital - Clarksburg, Mercy Medical Center, Wayne Memorial and Webster Memorial Hospital.

**Professional Affiliations** Charter member Mountaineer chapter of American Society of Heating Refrigeration and Air conditioning Engineers (ASHRAE)  
Recognized nationally in 2007 & 2008 as a "Legend in Energy" by AEE  
Charter life member of the Association of Energy Engineers  
Member of the American Association of Hospital Engineers  
Member of the National Society of Professional & Plumbing Engineers  
Member of the International Code Council

---

---

**TED T. ZACHWIEJA**

**Principal-in-Charge Construction Administration**

**Education** Bachelor of Science, Mechanical Engineering, WV Institute of Technology

**Qualifications** Ted's responsibilities include over 45 years of experience in mechanical and electrical systems design and construction administration. His specialties include the design and development of mechanical and electrical systems, master planning and budgeting for mechanical and electrical systems, and mgt of complex design/construction projects. He is a Codes and Standards Specialist.

He has been involved in WV since 1958 in all aspects of mechanical & electrical design and construction, including heating, ventilating, air conditioning, plumbing, fire protection and electrical systems. His experience includes work for Bluefield Regional Medical Center, Charleston Area Medical Center, United Hospital Center, many WV Schools, Marshall University, most buildings on the West Virginia Capitol Complex, West Virginia Institute of Technology, West Virginia University, Bank One and many others in the private sector.

Ted has been involved in the planning, design and construction administration of Concord University's Technology Center and Concord's campus medium voltage upgrades, projects at Marshall University including Harris Hall renovations, WVU's White Hall, Armstrong Hall, Wise Library, Morgantown, WV; and many others. He has worked on new and renovation projects such as the West Virginia State Capitol Building, Charleston, WV; Conley Hall and Science Building HVAC Renovations and Additions.

Prior to forming ZDS, Ted was regional manager for a hospital design firm and responsible for designing, construction management and project management for over \$200 million in hospital and health care facilities. The facilities were located over eastern United States. Some of his health care experience includes millions in renovation and new construction design for Charleston Area Medical Center's Special Care Facility. Other local health care experience includes Bluefield Regional Medical Center, Hopemont Hospital, Monongalia General Hospital, Montgomery General Hospital, United Hospital Center, St. Mary's Hospital, Summersville Memorial Hospital, Thomas Memorial Hospital, Webster Memorial Hospital, Cabell Huntington Hospital, Welch Emergency Hospital, Surgicare Center, VA Hospital - Clarksburg, Mercy Medical Center, and Webster Memorial Hospital.

**Professional  
Affiliations**

Construction Specifications Institute (Charter Member)  
American Society of Mechanical Engineers  
American Society of Heating, Refrigeration & Air Conditioning Engineers  
WV Mountaineer Chapter ASHRAE Past President and Charter Member  
Association of Energy Engineers  
Association of Hospital Engineers  
WV Society of Hospital Engineers  
Professional Affiliate Member of AIA  
WV Association of Physical Plant Administrators

**MARK A. MOORE, P.E.**

**Project Manager: Electrical, Mechanical & Plumbing**

**Education** BS in Electrical Engineering from West Virginia University Institute of Technology, Montgomery, WV in 2001

**Registration** Professional Engineer, West Virginia, No. 17286

**Qualifications** Mark has more than 8 years of experience in electrical engineering, lighting, plumbing, technology, mechanical engineering, heating, ventilating, air conditioning, for educational, commercial and health care facilities. He researches and applies, International Building Codes, NFPA, Illuminating Engineers Society standards and National Electric Code in design. Mark has a strong background in microprocessor and microcomputer design. He is also responsible for Information Technology functions for ZDS and our customers.

Mark is also an information systems and technology specialist and provides networking solutions and Windows based programming system solutions.

Mark specializes in electrical power, security, fire alarm, lighting, plumbing, HVAC piping, and fire protection. Some of his educational and health care project experience includes: Charleston Area Medical Center, Bluefield High school renovations/Performing Art Center, Clay Elementary School HVAC Renovations, Concord University Technology Center, Elkins Middle School Renovations, H. J. Keiser Elem renovations, Hopemont State Hospital Fire Alarm renovations, James Monroe High School renovations, Ohio University Bennett Hall M/E Renovations, Park Middle School renovations, Ravenswood High Renovations, Ritchie Middle/High School renovations, Tucker County High/Career Center renovations, Webster Springs Elementary School geothermal heap pump system, Winfield High School HVAC/Electrical renovations, Pocahontas Co High School Renovations/science center additions, new McDowell County Southside K-8 school, Woodrow Wilson High School HVAC/Electrical renovations, United Hospital Center Wound Center and others.

His commercial experience includes; Cass Railroad Clubhouse renovations, DOT Rest Area and Welcome Center prototypes for the WV Department of Transportation, 4-H Camp Muffly Training/Dining facility, Hardy Co. Daycare facility, Jackson County Courthouse Annex renovations, Kanawha County Judicial Annex Renovations, Mason County Courthouse renovations, new Mercer County Courthouse Annex, multiple branch bank facilities, Camp Dawson Barracks security renovations, award winning Webster County IMC office facilities, Pendleton County Courthouse additions/renovations, new Webster Co. Multi-tenant Bldg., WV Capitol Complex Performance Contracting HVAC retrofits, WV Capitol Complex Master Planning for Security/Fire Alarm/Life Safety systems and others.

---

---

**DAVID G. DIAL, P.E.**

**Senior MEP Engineer**

- Education** Bachelor of Science Mechanical Engineering, WV University, 1978  
Masters of Science Environmental Engineering, WV University, 1980
- Registration** Professional Engineer, West Virginia, No. 11692
- Qualifications** David has over twenty-eight years of experience in the design and commissioning of Mechanical and Electrical systems. He provides HVAC, electrical and plumbing design services for a variety of clients in West Virginia. His background also includes managing operating and maintenance repair and construction services for HVAC, plumbing, electric, and maintenance. David has managed grounds maintenance, security staff, information technology, IT NASA network, video surveillance and telephone systems. These areas provide inherent coordination expertise.
- David has experience in Maintenance Engineering in plumbing, HVAC, clean room design, dust collector selections, steam and condensate flow measurement, transfer of steam production from in-house to private contractor, athletic field lighting design, farm pump water design, and even completed a successful energy grant application from the US Department of Energy.
- Environmental Design experience includes PCB remediation, Air Pollution Control Commission annual reporting, removal of underground fuel storage tanks/pumps, installation & testing for radioactive material, conversion of a fleet of vehicles to operated dual fuel (gasoline and natural gas) including training, designing a filling station, custom built compressor station, cylinder operations area, filling post and monitoring of natural gas usage.
- He has been involved in the design, document development, contract administration and recommissioning of the structural, mechanical, and electrical disciplines of several WVU projects including: Downtown Steam Tunnel Assessment, Coliseum Tunnel Redesign, Towers exercise room, Brooks Clean Room, lighting retrofits at Brooks Hall, exterior lighting for Mountainlair Parking Garage, cooling towers replacement at the Chemistry Annex, replacement of electric hot water boilers with natural gas pulse steam boilers, HVAC controls for Allen Hall, measure flow for sub metering/billing for campus steam/condensate systems, PCB removal from electrical equipment on campus, and power/cooling for a data Center at the WVU/NASA facility.
- Other project experience includes design for Trinity High School's HVAC, plumbing and electric system, industrial dust collector system for the Percival Dust Collector, replacement of rigging of a 2500 seat Auditorium. As a production engineer, David optimized design of medical quality cryogenic freezers, incubator and shaker including scheduling the freight trucks, quality assurance of sheet metal shipments, writing repair manuals and set up insulation.

---

---

**JAMES E. WATTERS**

**Project Manager**

**Qualifications**

Jim has over 35 years experience in design and implementation of HVAC, plumbing and electrical systems including 9 years in the construction industry. He has a comprehensive knowledge of construction documents, contracts, and development of cost estimates, budgets & schedules. Jim's strengths reside in his ability to manage projects and people in an organized and cost effective manner.

Jim has been involved with the design and production of mechanical and electrical drawings including HVAC, plumbing, fire protection, lighting, electrical power and specialized systems. He has worked with and managed engineers in projects for health care, educational and commercial buildings in the states of West Virginia, Ohio, Kentucky, Virginia, Georgia, New York, Arizona, Illinois and Massachusetts. He has extensive experience in energy savings' programs for HVAC, plumbing and electrical systems in hospitals, state & government office buildings, school systems, and manufacturing facilities as well as managing performance contracts for the state of Georgia totaling \$10,000,000 in construction costs on various projects.

Some of Jim's HVAC, plumbing, fire protection and electrical project experience includes: Eleanor Maintenance Facility for the WV Department of Military Affairs and Public Safety in Eleanor WV; Kings Daughters Medical Center in Ashland KY (multiple projects exceeding \$12,000,000 in construction costs); Charleston Area Medical Center in Charleston, WV; St. Mary's Medical Center in Huntington WV; Paul Blazer High School in Ashland KY; Marshall University Student Housing in Huntington, WV; Pleasant Hill Elementary plumbing renovations in Calhoun County WV; Boyd County Judicial Center in Boyd County, KY; Ritchie County Middle/High School; Elkins Middle School HVAC and electrical renovations; WV DOT Burnsville Rest Area and domestic water pumping station; Tucker County Board Office Boiler Retrofit; Kanawha County Commission Judicial Annex Renovations, new Jaeger/Panther Elementary School, and West Virginia Division of Culture and History Fire Alarm/Sprinkler upgrades.

Through the years Jim has researched and implemented into practice International Building Codes, National Electrical Codes (includes NFPA), Life Safety Codes, IES standards, AIA Guidelines for Design and Construction, and the evolving ADA standards and guidelines.



## ZDS PERSONEL'S HEALTH CARE EXPERIENCE

### CHARLESTON AREA MEDICAL CENTER PROJECTS, CHARLESTON, WV

#### MEMORIAL DIVISION, 3200 MACCORKLE AVE.

- Cath Lab III M/E Renovations Design
- 750 kW Emergency Generator & Underground Fuel System M/E Design
- Two-Four West Nursing Wing M/E Design
- Main Electrical Service Upgrade Electrical Design
- Emergency Room Renovations M/E Design
- Ultrasound Room M/E Design Renovations
- 600 Ton Central Chiller Plant and Variable Water Pumping Design
- 700 Ton Chiller Replacement and Variable Water Pumping Design
- Radiology Renovations M/E Design
- Surgical Intensive Care Retrofit M/E Design
- Outpatient Surgery Renovations
- Two/Three East Patient Room Renovations M/E Design
- Four-North HVAC Renovations
- Nuclear Medicine M/E renovations
- Laboratory Fume Problem Ventilation

#### GENERAL DIVISION, WASHINGTON & BROAD STREET, CHARLESTON, WV

- Special Care Facility Contract Administration
- Allied Health, Physical Therapy & Hydrotherapy M/E Design
- Three-Six Floor Patient Room South M/E design
- Emergency Generator Retrofit Design
- DDC Controls Master Planning
- General Building Plumbing Retrofit Planning

#### WOMEN'S AND CHILDREN'S HOSPITAL, 800 PENNSYLVANIA AVE., CHARLESTON

- Pediatric Intensive Care M/E Design
- Newborn Intensive Care Unit M/E Design
- Central Electric Metering Design
- CT Scan Addition, M/E Design
- LDRP/Gynecology M/E Design
- Surgery Addition M/E Design
- Operating and Recovery Room HVAC System

#### CABELL HUNTINGTON HOSPITAL, HUNTINGTON, WV.

Numerous mechanical and electrical renovations projects including master planing for renovations to chiller plant.

#### HOPEMONT STATE HOSPITAL, TERRA ALTA, WV

- Campus Addressable Fire Alarm System Design

#### LEWISTOWN OUTPATIENT SURGERY FACILITY, LEWISTOWN, PA

- New Outpatient Surgery Facility M/E Design

**MONTGOMERY GENERAL HOSPITAL, MONTGOMERY, WV**

Isolation Rooms Ventilation Design  
Domestic Hot Water Temperature Design

**SPENCER STATE HOSPITAL**

DOE Energy Audits, Spencer, WV. Prepared ICP title III DOE grant TA reports which were fully funded for four buildings.

**SUMMERSVILLE MEMORIAL HOSPITAL, SUMMERSVILLE, WV.**

HVAC Retrofit Design for main hospital.

**SURGI-CARE CENTER, HUNTINGTON, WV.**

Retrofit existing commercial building into Outpatient Care facility.

**THOMAS MEMORIAL HOSPITAL, SOUTH CHARLESTON, WV.**

Design for numerous mechanical and electrical renovations projects.

**UNITED HOSPITAL CENTER, CLARKSBURG, WV.**

Emergency Room Addition M/E Design  
Emergency Generator Design  
Boiler Plant Renovations Design (two, 12,000 #/hr HPS boiler system)  
Comprehensive Energy Conservation Program Development  
Complete facility Building Automation System and HVAC Renovations Design and construction management.  
Laundry HVAC Renovations Design  
Skilled Nursing Unit M/E Design  
MedBrook Office Building M/E Design  
Family Practice HVAC Retrofit Planning  
Mechanical Room Negative Pressure Problem New Wound Center, Bridgeport, WV

**VETERANS ADMINISTRATION CLARKSBURG WV.**

Design of a major clinical addition plus renovations to the facility.

**WEBSTER MEMORIAL HOSPITAL, WEBSTER SPRING, WV.**

Numerous Mechanical and Electrical Design renovations design and master planning for a replacement hospital.

**WELCH (EMERGENCY) COMMUNITY HOSPITAL, WELCH, WV.**

New Hospital Mechanical and Electrical Design constructed in two phases. Project included a central coal fired boiler plant and chiller plant.

**WYOMING COUNTY HOSPITAL, WYOMING COUNTY, WV.**

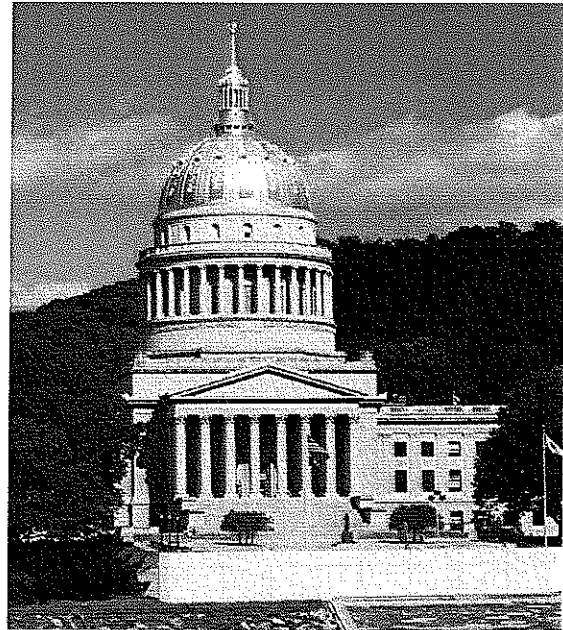
New Hospital Mechanical and Electrical Design.

S:Z/MARKETING/Hospitals

ZDS Design/Consulting Services

**Project Name:** *State of WV Capitol Complex Central Steam Heating Plant using Performance Contracting Located in Charleston, WV*

**Client Contact:** Mr. Aaron Allred,  
Project Manager  
4132 First Ave.  
Nitro, WV 25143  
Phone: (304)-346-1340  
Cell (304) 546-5225



**Services:** Engineering planning & design for central steam heating plant and campus distribution system, DDC controls, Air Handling Unit replacements and retrofits, operating and maintenance, training, heat recovery, fuel conversion, VFD's, variable water volume pumping, steam/heating hot water & chiller optimization.

**Project Description**

**ZDS Design/Consulting Services and Johnson Controls Inc.**

The State of West Virginia was aware that their facilities at the Capitol Complex were aging and in need of significant infrastructure upgrades but were having difficulty in appropriating the necessary funding to make such improvements. Many of the existing steam boilers and other primary heating equipment were past their expected service life and in disrepair. The State of West Virginia passed a new bill in 2003 that permits Performance Contracting to be used as an avenue for implementing infrastructure upgrades in State facilities provided the upgrades self-fund within a 15 year time period. The State elected to solicit proposals from various ESCO's with the intention of crafting a major improvement project that would reduce operating costs to the State as well as pay for itself over the 15 year period. After an extensive review and selection process, the Team of Johnson Controls Inc. and ZDS Design/Consulting Services was selected. HVAC improvements were engineered for the Capitol Building, as well as Buildings #3, 4, 5, 6, 7, 8 (Governor's Mansion) and provisions for #10 (Holly Grove) plus additional future capacity.

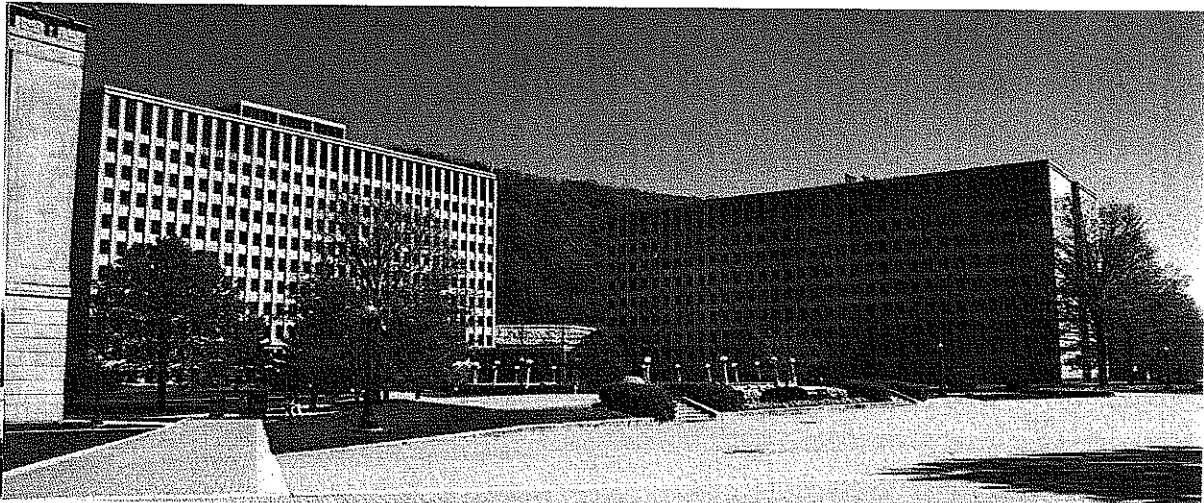
A central steam heating plant and campus steam distribution system anchored the Facility Improvement Measures. It yielded the elimination of 14 failing boilers with provisions for future expansion of up to 250,000 square-feet of office space. The centralized steam heating

## PROJECT EXPERIENCE

---

plant offered greater efficiency in overall system operation, centralized control and maintenance of primary heating equipment, with the added benefit of supplemental capacity in the event of a boiler failure. The program began in May 2005 with the evaluation of the existing heating plants, HVAC equipment, and their sub-systems to quantify deficiencies and potential opportunities to improve comfort, IAQ, extension of equipment life and an overall reduction in operating costs. The central heating plant consisted of four 600 BHP 150 PSI boilers, installed in the 11<sup>th</sup> floor penthouse of Building #5 (shown below). ZDS designed an extensive 125 psi underground steam distributed system which was installed throughout the campus. The 125 psi steam system was interconnected through pressure reducing stations or steam-to-hot water convertors as appropriate to replacing old boilers.

Some typical improvements include either the replacement or retrofit of major air handling units, reestablishing proper control strategies, reducing outdoor air intake quantities when allowable, installing new building automation equipment, general HVAC equipment repairs and replacement, documentation of existing and post construction conditions, and establishing a consistent overall operating strategy. Individual HVAC systems are also being enhanced to meet applicable codes and standards. Exhaustive hours were spent with the State in assisting them with the identification and prioritization of facility improvement measures. The time spent also identified potential construction issues with an emphasis on critical phasing requirements.



The program is savings millions of dollars annually in energy, operating cost and deferred capital costs. The program is helping the State operate their facilities more efficiently and effectively. ZDS has been involved in the design and administer the construction activities for 2,137,400 square-feet involving 15 buildings at the campus under other projects.

***Performance Contracting Program Costs:***

**Up to approximately \$20,000,000**

***Potential Savings:***

***Improvements self-fund within 15 years***

***Size:***

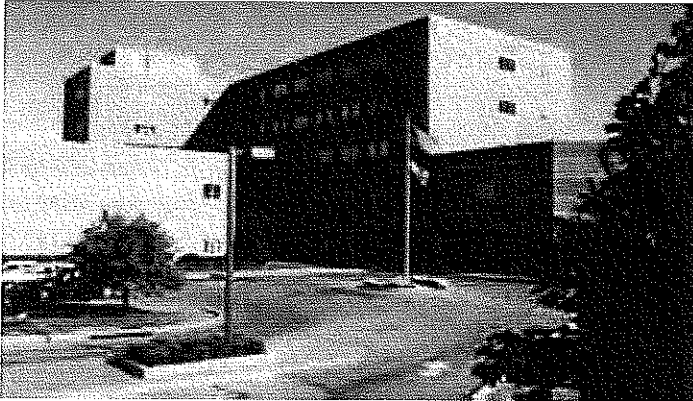
**1,929,155 FT<sup>2</sup>**

***Completion:***

**2007 for Construction**

**Client: *Charleston Area Medical Center, Charleston, WV***

ZDS's principals and personnel have worked with CAMC for many years while at ZDS and through previous employers on many design, energy conservation and commissioning projects involving sophisticated mechanical and electrical systems while meeting stringent health care requirements and safety of the patients for CAMC since 1982. CAMC is the largest health care provider in WV and consists of multiple separate hospital campuses, satellite medical office facilities, training facilities and clinic facilities encompassing nearly 10 million square feet. Some of the projects ZDS's principals and staff have been involved with at each facility are listed beside the pictures of each of the following three hospital facilities.



**Women & Children's Hospital**

- **LDRP Additions/Renovation**
- **NICU & PICU Renovations**
- **Emergency Room Renovations**
- **Patient Room Renovations**
- **District Chiller Plant Replacement & Interconnect**



**CAMC General Division**

- **Special Care Facility**
- **Physical Therapy**
- **Emergency Room Retrofit**
- **3-4-5-6 South Patient Retrofit**
- **District Chiller Plant Replacement & Interconnect**
- **Medical Records**
- **Wound Center**

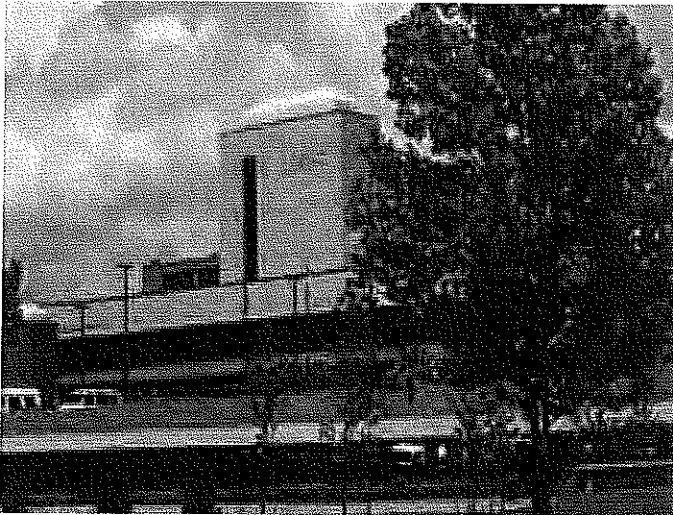
Todd Zachwieja also managed the implementation of an aggressive energy conservation program that saved CAMC approximately \$800,000 annually and paid for the mechanical, electrical and controls improvements made to the facilities as part of this program while employed a regional manager for one of the countries pioneering Performance Contracting companies. These projects

---

## PROJECT EXPERIENCE

---

included recommissioning, designing and construction management for HVAC modifications, steam system upgrades, heating plant/distribution modifications, controls, electrical modifications and operational changes to CAMC's existing facilities.



**CAMC Memorial Division**

- **Emergency Room Renovations**
- **Patient Room Renovations**
- **Chiller Replacement/Interconnect**
- **Radiology/Nuclear Medicine Renovations**
- **Cath Lab, SICU, MICU Renovations & CT Scan**
- **Emergency Generator/Fuel Oil Storage**
- **Surgery Addition Commissioning**
- **Laundry Facility Renovations**

Ted Zachwieja and Todd Zachwieja's involvement also included review of the design and commissioning of a \$40 million dollar surgery addition to the Memorial Division campuses. This commissioning work paid for itself in less than two years from the savings generated and addressed maintenance reliability and future expandability issues.

Health care upgrades involve low pressure steam for HVAC heating, medium pressure steam for sterilization/process heating and 100 to 150 psi steam for distribution. Steam heating upgrades involved steam power pumping, steam trap optimization, steam-to heating hot water, central laundry heating, and steam heating in HVAC equipment.

**References:** *Bill Williams, Consultant for Plant Operations*  
*Ray George, Corporate Dir. of Construction*

*Phone (304) 388-5544*

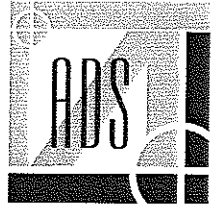
*Phone (304) 388-9740*

# ***Allegheny Design Service***

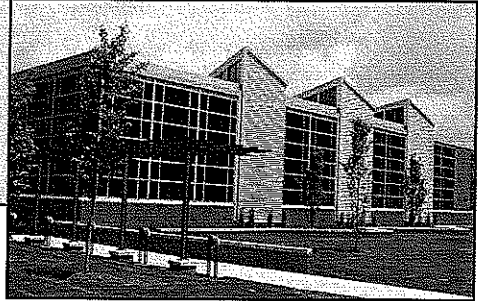




102 Leeway Street  
 Morgantown, WV 26505  
 Phone: (304)599-0771  
 Fax: (304)599-0772  
[www.alleghenydesign.com](http://www.alleghenydesign.com)



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



**OFFICE BUILDINGS**

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



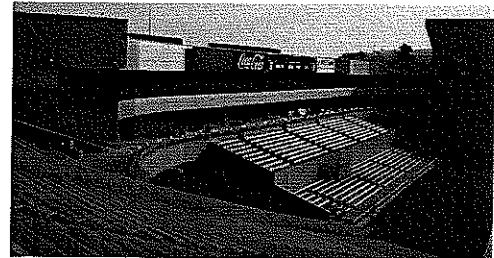
**MIXED USE**



**PARKING GARAGES**



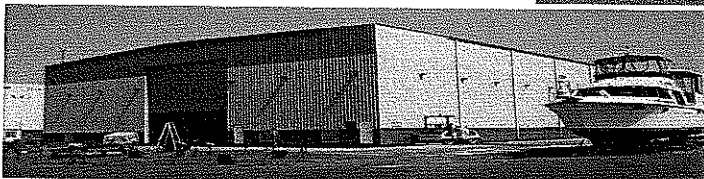
**HOTEL  
 CONFERENCE CENTERS**



**ATHLETIC FACILITIES**



**SECONDARY EDUCATION**



**METAL BUILDING SYSTEMS**



**HEALTH CARE**





# **Allegheny Design Services**

*Structural Engineering*

102 Leeway Street  
Morgantown, WV 26505

Phone: (304)599-0771

Fax: (304)599-0772

E-mail: [Dave@AlleghenyDesign.com](mailto:Dave@AlleghenyDesign.com)

Web: [www.AlleghenyDesign.com](http://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, Virginia, Maryland, Pennsylvania, and District of Columbia.

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 \$150 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 drafting software for the development of project work.

ADS is covered under a \$1 million liability policy for errors and omissions through Beazley Insurance Company.



**Allegheny**  
**Design Services**  
*Structural Engineering*

102 Leeway Street  
Morgantown, WV 26505  
Phone: (304)599-0771  
Fax: (304)599-0772  
E-mail: [Dave@AlleghenyDesign.com](mailto:Dave@AlleghenyDesign.com)  
Web: [www.AlleghenyDesign.com](http://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 Engineering*

102 Leeway Street  
Morgantown, WV 26505  
Phone: (304)599-0771  
Fax: (304)599-0772  
E-Mail: [Dave@AlleghenyDesign.com](mailto:Dave@AlleghenyDesign.com)  
Web: [www.AlleghenyDesign.com](http://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: 1983  
Structural Engineering Certification Board  
West Virginia  
Pennsylvania  
Maryland  
Virginia  
District of Columbia  
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

### Professional Experience:

Responsible for project management and design at Allegheny Design Services. Experience includes over 24 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  
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  
Respiroics 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 Engineering*

102 Leeway Street  
Morgantown, WV 26505  
Phone: (304)599-0771  
Fax: (304)599-0772  
E-mail: [Mike@AlleghenyDesign.com](mailto:Mike@AlleghenyDesign.com)  
Web: [www.AlleghenyDesign.com](http://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:

Avery Court Apartments, Parkersburg, 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  
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 2006  
ASCE Steel Framed Buildings, May 2007  
AISC Façade Attachments to Steel Frames, September 2007  
ASCE Reinforced Masonry: Design and Construction, November 2007



**Allegheny**  
**Design Services**  
*Structural Engineering*

102 Leeway Street  
Morgantown, WV 26505  
Phone: (304)599-0771  
Fax: (304)599-0772  
E-mail: [Jason@AlleghenyDesign.com](mailto:Jason@AlleghenyDesign.com)  
Web: [www.AlleghenyDesign.com](http://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:**

Gabriel Brothers Renovation, Clarksburg, WV  
Goshen Baptist Church, Morgantown, WV  
Mylan Upper Warehouse to Labs, Morgantown, WV  
The Dayton, Morgantown, WV  
The View at the Park Phase 2, Morgantown, WV

**Courses and Continuing Education:**

WVU Steel Design – Fall 2007  
AISC Façade Attachments to Steel Frames, September 2007  
ASCE Reinforced Masonry: Design and Construction, November 2007



**Allegheny**  
**Design Services**  
*Structural Engineering*

## **PROJECT PROFILE**

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



**PROJECT ARCHITECT:** Omni Associates, Fairmont, WV  
**STRUCTURAL ENGINEER:** Allegheny Design Services, Morgantown, WV  
**CONTRACTOR:** March-Westin Company, Inc., Morgantown, WV

#### **PROJECT SCOPE:**

- The First floor of the building houses Lakeside Physical Therapy. It is roughly 8,700 sq. ft. of offices, treatment rooms, a gym area with separate aerobic area, a hydrotherapy room, and an endless pool.
- The Second floor houses 5,000 sq. ft. of offices, treatment rooms, a cast room and an x-ray room.

**PROJECT VALUE:** \$1.4 Million

**PROJECT COMPLETION:** June 2006

## PROJECT PROFILE

### Hillman Cancer Center University of Pittsburgh Medical Center Pittsburgh, PA



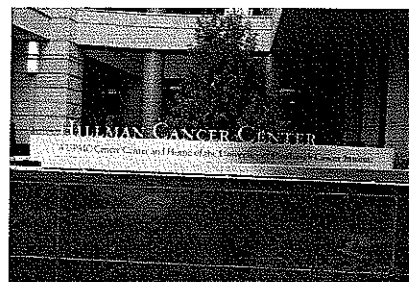
**PROJECT ARCHITECT:** IKM, Inc., Pittsburgh, PA  
**PROJECT ENGINEER:** David Simpson of Allegheny Design Services, Morgantown, WV  
in former employ of R.M. Gensert Associates  
**GENERAL CONTRACTOR:** PJ Dick/Mascaro Corp., Pittsburgh, PA

**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 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

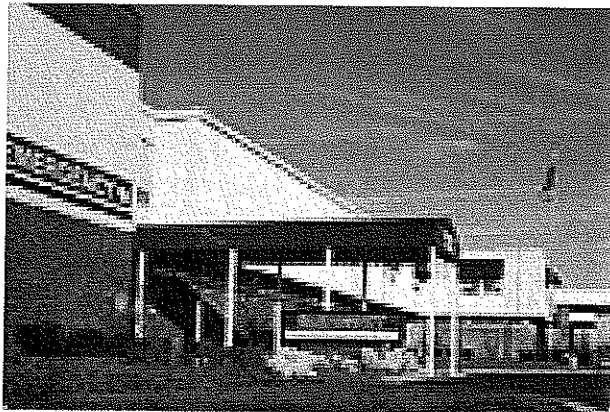
**PROJECT COMPLETION:** 2002



**Allegheny**  
**Design Services**  
*Structural 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

## ***REFERENCES***

**Geoff Marshall, Vice President of Support Services**  
United Hospital Center  
PO Box 2308  
Clarksburg, WV 26302-2308  
304.624.2227

New Entry for UHC's CCCC Building - Current  
New Public Cafeteria & Gift Shop - 1999  
Medbrook Medical Center

**Steve Johnson, Director of Support Services**  
Davis Health Systems  
PO Box 1484  
Elkins, WV 26241  
304.637.3129

New Doctors Office Building - Current  
New Broaddus Hospital - 1998

**Neil Quinn, Clerk of the Works**  
Harrison County Board of Education  
PO Box 1370  
Clarksburg, WV 26302  
304.326.7305

Addition to West Milford Elementary - Current  
Numerous Renovations at many school sites - Current  
Exterior & interior door replacement  
Phased window replacements  
Roofs, concrete work, flooring, etc.

**James R. Christie, Mayor**  
City of Bridgeport  
PO Box 1310  
Bridgeport, WV 26330  
304.842.8200, Ext. 115

New Bridgeport Public Safety Building - Current  
New Office Building for Comvest, LLC - 2007

**Jeri Trippett, Project Coordinator**  
Davis Memorial Hospital  
PO Box 1484  
Elkins, WV 26241  
304.637.3521

Surgical Suite Renovations – 2006  
Cafeteria Expansion - 2004  
New Cancer Treatment Center – 2002

**Jeffrey L. Pritchard, Program Director**  
United Hospital Center  
6 Hospital Plaza  
Clarksburg, WV 26301  
304.623-5661

United Summit Center Expansion – 2006  
UHC Wound Care Center – 2004

**Jim McQuain, Executive Vice President**  
Bank of Gassaway  
PO Box 40  
Gassaway, WV 26624  
866-484-2265

New Bank at Flatwoods, WV - 2008

**E. Michael Hines, Jr., Project Manager**  
Dominion Exploration and Production  
1 Dominion Drive/PO Box 1248  
Jane Lew, WV 26378  
304. 884.2046

Two story addition to office building - 2008  
Addition and connecting breezeway - 2004  
Renovate former Reserve Center for offices - 2000

***NO DEBT AFFIDAVIT***

***And***

***ADDENDUM ACKNOWLEDGEMENT***

STATE OF WEST VIRGINIA  
Purchasing Division**PURCHASING AFFIDAVIT****VENDOR OWING A DEBT TO THE STATE:**

*West Virginia Code §5A-3-10a* provides that: 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.

**PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:**

*West Virginia Code §21-1D-5* provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

**ANTITRUST:**

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

**LICENSING:**

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

**CONFIDENTIALITY:**

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit [www.state.wv.us/admin/purchase/privacy](http://www.state.wv.us/admin/purchase/privacy) for the Notice of Agency Confidentiality Policies.

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

Vendor's Name: WYK ASSOCIATES, INC.Authorized Signature: Will SybilDate: 11/29/08



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  
 WSH90086

PAGE  
 1

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

VENDOR

\*709045138      304-624-6326  
 WYK ASSOCIATES INC  
 PO BOX 1484  
 CLARKSBURG WV 26302

SHIP TO

HEALTH AND HUMAN RESOURCES  
 WILLIAM R. SHARPE JR. HOSPITAL  
 CENTRAL RECEIVING  
 936 SHARPE HOSPITAL ROAD  
 WESTON, WV  
 26452      304-269-1210

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/19/2008				

BID OPENING DATE: 12/04/2008      BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 2 1. QUESTIONS AND ANSWERS 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.: WSH90086  ADDENDUM ACKNOWLEDGEMENT  I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO M PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.  ADDENDUM NO. S: NO. 1 November 10, 2008 NO. 2 November 19, 2008 NO. 3 ..... NO. 4 ..... NO. 5 .....  I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF TH ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.  VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY						

**WYK ASSOCIATES, INC.**  
 NOV 21 2008  
**RECEIVED**

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE <i>Will F. [Signature]</i>	TELEPHONE 304-624-6326	DATE November 24, 2008	
TITLE President	FEIN 55-0579016	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

RFQ NUMBER  
 WSH90086

PAGE  
 2

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

VENDOR


\*709045138 304-624-6326  
 WYK ASSOCIATES INC  
 PO BOX 1484  
 CLARKSBURG WV 26302

SHIP TO

HEALTH AND HUMAN RESOURCES  
 WILLIAM R. SHARPE JR. HOSPITAL  
 CENTRAL RECEIVING  
 936 SHARPE HOSPITAL ROAD  
 WESTON, WV 26452 304-269-1210

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
11/19/2008				

BID OPENING DATE: 12/04/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>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> <p style="text-align: center;">             SIGNATURE            WYK Associates, Inc.            COMPANY            November 24, 2008            DATE         </p> <p>REV. 11/96</p> <p style="text-align: center;">END OF ADDENDUM NO. 2</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE 	TELEPHONE 304-624-6326	DATE November 24, 2008
TITLE President	FEIN 55-0579016	ADDRESS CHANGES TO BE NOTED ABOVE

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