



**West Virginia Army National Guard
Buckhannon Readiness Center
Upshur County, West Virginia**

**Sealed Bid
Buyer: #32 John Abbott
Req#: DEFK9015
Opening Date: 02/26/2009
Opening Time: 1:30 PM**

RECEIVED

2009 FEB 26 A 9:52

PURCHASING DIVISION
STATE OF WV

**Expression of Interest
Architectural and Engineering Services**



23 February 2009

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

RE: EOI for the Buckhannon Readiness Center for the West Virginia Army National Guard in Upshur County, West Virginia

Mr. Abbott:

Paradigm Architecture Inc. is pleased to submit this Expression of Interest for the Buckhannon Readiness Center for the West Virginia Army National Guard. We have assembled a team of West Virginia based professionals with appropriate project experience and ability to complete this project.

Our proposal includes our Firm Profile, a brief History, References, staff Resumes, and a sampling of Projects we have been privileged to work on. We have successfully completed many different government projects, including current office buildings for the **United States Department of Agriculture** and the **United States Department of Energy** in Morgantown, WV. In addition, our staff also completed the **Clarksburg Federal Center** and the **Charleston Federal Center** while employed at other firms. Both of these projects received Excellence in Construction Awards from the Associated Builders and Contractors. Our experience also includes offices, hotel and conference centers, athletic facilities, and garage facilities. Examples of these include **One Waterfront Place**, **Two Waterfront Place Hotel and Conference Center**, **Davis and Elkins College Athletic Center**, and **Fairmont State University Parking Facility**. We are also actively involved with a number of other projects and clients located in West Virginia, including **West Virginia University** and the **Waterfront Development** in Morgantown, WV

Our team consists of specialized engineers and consultants that share our commitment to service and quality and will best serve the technical requirements and demands of this project. **KCI Technologies, Inc.** will provide Civil Engineering services. **Allegheny Design Services** will provide Structural Engineering services. **Tower Engineering** will provide Mechanical, Electrical, and Plumbing Engineering services. We have extensive professional relationships with these engineers and have successfully completed many projects together.

Paradigm Architecture is a service-oriented architectural design firm capable of taking a project from inception to completion through the phases of schematic design, design development, bidding/negotiation, construction & contract documents, construction administration, and closeout procedures. We are able to meet a client's needs and expectations while upholding the budget and project deadlines. It is our goal to provide a high level of personal service and design solutions that reflect the unique image and purpose of our clients. We welcome the opportunity to work with you on this project.

Best regards,

A handwritten signature in black ink, appearing to read "Paul Walker", is written over a horizontal line.

Paul Walker, AIA
President, Paradigm Architecture

2450 Valleydale Road • Suite 150
Birmingham, AL 35244
Tele 205•403•2742 205•403•2743 Fax

2223 Cheat Road • Suite 300
Morgantown, WV 26508
Tele 304•284•5015 304•284•5014 Fax



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
 DEFK9015

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 JOHN ABBOTT
 304-558-2544

PROPERTY

RFQ COPY
 TYPE NAME/ADDRESS HERE

Paradigm Architecture
 2223 Cheat Rd, Suite 300
 Morgantown, WV 26508

PROPERTY

DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION
 1707 COONSKIN DRIVE
 CHARLESTON, WV
 25311-1099 341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
02/11/2009				

BID OPENING DATE: 02/26/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
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001	1	LS		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL						
CONTRACT TO PROVIDE ARCHITECT & ENGINEERING SERVICES FOR THE WEST VIRGINIA ARMY NATIONAL GUARD, BUCKHANNON READINESS CENTER, UPSHUR COUNTY, WEST VIRGINIA, PER THE ATTACHED DOCUMENTATION.						
NOTICE						
A SIGNED BID MUST BE SUBMITTED TO:						
DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130						
THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:						
SEALED BID						
BUYER:		JOHN ABBOTT-----				
RFQ. NO.:		DEFK9015-----				
BID OPENING DATE:		02/26/2009-----				

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE 	TELEPHONE (304) 284-5015	DATE 2/23/2009
TITLE President	FEIN 63-1263568	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
 DEFK9015

PAGE
 2

ADDRESS CORRESPONDENCE TO ATTENTION OF
 JOHN ABBOTT
 304-558-2544

VENDOR
 RFQ COPY
 TYPE NAME/ADDRESS HERE
 Paradigm Architecture
 2223 Cheat Rd, Suite 300
 Morgantown, WV 26508

SHIP TO
 DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION
 1707 COONSKIN DRIVE
 CHARLESTON, WV
 25311-1099 341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
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BID OPENING DATE: 02/26/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
BID OPENING TIME:				1:30 PM-----		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
				(304) 284-5014		

CONTACT PERSON (PLEASE PRINT CLEARLY):						
				Paul A. Walker		

***** THIS IS THE END OF RFQ DEFK9015 ***** TOTAL:						_____

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE TELEPHONE (304) 284-5015 DATE 2/23/2009
 TITLE President FEN 63-1263568 ADDRESS CHANGES TO BE NOTED ABOVE

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

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:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor must make said affirmation with its bid submission. Further, 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. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

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.

Vendor's Name: Paradigm ArchitectureAuthorized Signature:  Date: 2/23/2009



Firm Profile

Paradigm by definition means an example that serves as pattern or model. The goal of Paradigm Architecture is to be an example in client service, design quality, and technical proficiency. We practice architecture. For every project, Paradigm works closely with the unique requirements of the particular client to design a structure that reflects both the appropriate image and proper function to optimize the working or living environment.

EXPERIENCE

Paradigm Architecture has experience in a broad range of project types. This work includes private individual, corporate, governmental, educational, and institutional clients.

Residential:

Paradigm's residential experience spans a variety of client types. Student Housing/dormitory facilities for higher education, hotel projects, elderly housing, and private residential that includes single family homes, townhouses, and high end condominium units.

Corporate:

Paradigm has designed entire office buildings as well as tenant fit-up spaces for clients such as Jackson Kelly PLLC, A.G. Edwards, Acordia, Petroplus & Associates Inc., National Biometric Security Project, Simpson & Osborne, DMJM Harris, and the West Virginia University Foundation. Projects also include banking regional and branch offices.

Governmental:

Members of Paradigm have been involved in projects for the Federal Government in Charleston and Clarksburg, West Virginia. These commissions were awarded through design competitions and involved office space for Social Security, the Federal Bureau of Investigation, the Drug Enforcement Agency, the Small Business Administration, and hearing rooms for SSA Hearings and Appeals. Paradigm is also currently involved in several projects for the GSA in the Morgantown area.

Educational:

Higher Educational experience includes administrative office space, parking facilities, student housing, libraries, student centers, athletic facilities, and classroom and research laboratory facilities. We have worked on campuses that include: West Virginia University, Fairmont State University, Davis and Elkins College, The College of West Virginia, Hampden Sydney College, Wake Forest University, Ayers State Technical College, The University of North Carolina at Greensboro, and The University of Alabama at Birmingham. Paradigm's staff has also been involved in educational facilities at the elementary and high school level including new and renovated buildings.

Religious:

Paradigm has had the distinct privilege of working on a variety of churches and other religious projects. Among them are: Chestnut Ridge Church, Goshen Baptist Church, Daniels Missionary Baptist Church, The Greek Orthodox Church, A Flame for Christ Ministries, Southridge Church, Family Life Assembly, Faith United Methodist Church, and Chestnut Mountain Ranch in West Virginia and Mountaintop Community Church, Fullness Christian Fellowship, Cahaba Ridge, A Church with a Vision, and The Foundry in Alabama.

Institutional:

Medical and retirement life care projects dominate our staff's institutional portfolio. Medical projects include outpatient surgery centers, patient care rooms, emergency medicine, surgery suites, labor & delivery suites, Magnetic Resonance Imaging, X-ray diagnostic services, and heart catheterization spaces for hospital clients, radiation and chemotherapy treatment areas in cancer centers, and professional medical office space for private physicians. Retirement life care facilities range from independent elderly housing and assisted living facilities to full nursing care centers.



Firm History

Paradigm Architecture was formed in October of 2000 by a group of likeminded individuals who believe that architecture provides the opportunity to practice the career that we love.

We as individuals and as team members of a firm have a responsibility to exhibit that passion in the manner in which we live our lives.

We chose the name Paradigm because it means a model that serves as an example.

This represents our highest ideals...
that our architecture would serve as an example
that our client service would serve as an example
that our service to our God would serve as an example

Originally established in Birmingham, Alabama, Paradigm Architecture expanded in 2002 by opening an office in Morgantown, West Virginia. Our staff of eleven includes five registered architects, one intern architect, three CAD designers, and two administrative assistants. We utilize the most current technical hardware and software including AutoCAD, Architectural Desktop, Revit, 3D site and building rendering programs, and Speclink specifications software.

It is our belief that we should assemble consultants that are uniquely skilled to satisfy the particular requirements of a project. We have close professional relationships with many engineers and specialized consultants and choose those that we feel will best serve the technical specialization, location of the work and sometimes even personality of the client. We choose not to work with firms who do not share our commitment to service and quality.

We are proud to have been involved in numerous projects, which have been honored with Excellence in Construction awards by the Associated Builders & Contractors, Inc.:

- 2007 – Waterfront Marina, Morgantown, West Virginia
- 2007 – Chestnut Ridge Church, Morgantown, West Virginia
- 2004 – Madden Student Center at Davis & Elkins College, West Virginia
- 2004 – Two Waterfront Place Hotel & Conference Center, Morgantown, West Virginia
- 2003 – The Jackson Kelly Building, Morgantown, West Virginia
- 2002 – One Waterfront Place, Morgantown, West Virginia
- 2001 – The Russell Cancer Center, Alexander City, Alabama
- 2000 – The Charleston Federal Center, Charleston, West Virginia
- 1999 – The Clarksburg Federal Center, Clarksburg, West Virginia

Paradigm Architecture has established a solid base of clientele in both Alabama and West Virginia. We continue to develop business relationships, which promote additional growth and further expand our project repertoire. We look forward to every opportunity to demonstrate our commitment to serving as an example in architecture.



Quality Control and Management

It has always been our philosophy that successful projects are the result of successful team relationships. And on any given construction project there are a lot of relationships that come into play: owners, developers, facilities managers, architects, engineers, contractors, subcontractors, financial institutions, attorneys, code agencies, tenants... We have learned a lot about how to work successfully together with all parties involved. Every project, whether large or small, is unique and requires strong leadership. Being a small business, you can be assured that local, senior staff and an experienced project manager will be assigned to all of our projects. Based on the specific requirements of the project, we always put together a team of consultants and staff who would best serve the needs of that individual project and client – while always maintaining a constant flow of communication and personal service with the owner. We have relationships with some of the best consulting companies in the region and the country to bring together the appropriate talents to meet the needs of a particular project. We currently have active relationships with consultants in WV, AL, IN, MI, OH, TX, NY, and PA.

Paradigm Architecture prides itself on streamlining our project delivery and management methods. One of the ways we do this is to utilize the latest technology, including web based project collaboration sites, electronic communication, electronic submittals for review and approval, video conferencing and the latest software packages for 3d renderings, Computer Aided Drafting (CAD), and Building Information Modeling (BIM). Our current software packages include Autocad Architecture 2009, Revit Architecture 2009, 3d Studio, and Speclink. Far from the older methods of hand drafting, these tools help us to deliver faster and better coordinated projects, have fewer problems in the field, and provide the owner with excellent visualization tools during project development. We are always pursuing additional training and education for all our staff, including "in house" workshops, seminars, and online education for topics such as green building, BIM, project delivery and management, and current codes.

We have successfully used a wide range of project delivery types on both public and private projects: design-bid-build, negotiated, design-build, develop-design-build, fast track, construction management agency, and construction management where the construction manager is also the contractor. We have extensive experience on fast-track construction projects, ranging from \$1 million to \$35 million. We assist the owner in developing critical path items and developing multiple early release packages while the design is still ongoing. These packages typically include initial site work, foundation, superstructure, long lead equipment, shell, and interior fit out. Although there are greater risks that must be assumed by the owner with this method, the benefits from meeting tight deadlines typically outweigh these risks. Expedient decisions must be made by all involved and open lines of communication and transparency are crucial. On any given type of project delivery, we have a quality control plan that includes developing an initial schedule with the owner for the entire project, through the design, bid, and construction phases. Milestone points will be established and will include deliverables from both the design team and the owner. These milestone points will include sets of progress drawings and specifications for both the owner's and design team's review. We have an extensive "in house" coordination and review process that includes engineering coordination, specification coordination, code and life safety reviews, and the owner's program review. Before moving to each subsequent phase, the Owner will have an opportunity to review and "sign off" on each progress set so that all parties are always clear as to the direction the project is heading.



Quality Control and Management

Using internal cost data, and national databases, we are able to provide the Owner rough order of magnitude and schematic cost estimating for initial project development. We often conduct feasibility studies for clients to help them with initial project evaluations. For projects under \$1 million we will provide more detailed cost estimating "in house" and have consistently been within an expected 10% range on bid day. However, unlike many architects and engineers, we feel that utilizing the services of a contractor or construction manager is extremely beneficial to the design process and helps keep the project moving in the right direction. Their services, such as cost estimating, constructability reviews, value engineering, current bid market analysis, and CPM scheduling have proven to be valuable assets to both the architect and owner. They are the experts in this area, just as we are the experts in the area of design, so why shouldn't we work together from day one to give the owner the best possible project? Therefore we often suggest that these services be used on medium and large projects. If a project's funding sources do not allow for the general contractor to fill this role until the design is complete, then we can provide this role as consulting services under our contract. At times, we recommend both the architect and owner hire these consultants so that two third party reviews can be conducted and then any major differences be reconciled prior to bidding the project. Using these unique approaches we find that it is rare for one of our projects to be over budget or behind schedule.

Today, everyone is concerned with energy conservation, life cycle analysis, and green building techniques, and Paradigm Architecture is no different. We are currently working on two projects that will be LEED Certified. In addition, we have been able to assist clients who are interested in applying green building techniques such as improving the energy efficiency of the building and reducing long term life cycle costs, even though they may not wish to pursue LEED Certification. Being a relatively new science we are currently using consultants who are experts in this field. However, our staff is actively pursuing LEED Accreditation and green building education. All of our consultants have experience with not only green building construction but also life cycle cost evaluations, value engineering, and materials/systems comparisons in order to give the Owner the best value in a project.

Although this is only a summary of our quality control and management procedures, we hope it has helped you gain insight into the services that we provide. We also actively review our internal operations and gather feedback from clients, consultants and contractors. We will quickly make firm wide adjustments when we see areas that could be improved in order to continue providing excellent service. We think this model of excellent service is acknowledged by our continued and growing list of repeat clients. We welcome you to call any of our references for further insight into how we may best serve you.

Mr. John Thompson
Manager of Construction Services
West Virginia University
979 Rawley Avenue
Morgantown, West Virginia
(304) 293-3625

Mr. Brian Johnson
Bright Enterprises for
Glade Springs Resort
300 Greenbrier Road
Summersville, West Virginia
(304) 872-3000

Mr. Phil Weser, P.E.
March Westin Company
360 Frontier Street
Morgantown, West Virginia
(304) 599-4880

Mr. John Sommers
Project Management
West Virginia University
Planning, Design and Construction
979 Rawley Avenue
Morgantown, West Virginia
(304) 293-7478

Mr. Ron Selders
Davis & Elkins College
100 Campus Drive
Elkins, West Virginia
(304) 637-1900

Mr. Jim Peace, CEO
Russell Medical Center
3316 Highway 280
Alexander City, AL 35010
(256) 329-7100

Rev. Bill Heintz, Executive Director
The Foundry
Rescue Mission and Recovery Center
P.O. Box 824
Bessemer, AL 35021
(205) 424-4673

2450 Valleydale Road • Suite 150
Birmingham, AL 35244
Tele 205•403•2742 205•403•2743 Fax

Mr. Pat Stinson
Alliance Construction
320 S. Walker St.
Princeton, WV 24740
(304) 487-5802

Mr. Rich Lane
Petroplus & Associates, Inc.
Platinum Properties
Two Waterfront Place, Suite 1201
Morgantown, West Virginia
(304) 284-5000

Mr. James Decker
Fairmont State University
1201 Locust Avenue
Fairmont, West Virginia
(304) 367-4100

Mr. Tony Napolillo
Project Manager
West Virginia University
Planning, Design and Construction
979 Rawley Avenue
Morgantown, West Virginia
(304) 293-7478

Mr. Tim Haring
Chestnut Ridge Church
Senior Pastor
2223 Cheat Road
Morgantown, West Virginia
(304) 594-0548

Mr. Mike Staud
Principal, Construction Director
Trinity Christian School
Morgantown, West Virginia
(304) 291-4659

Ms. Kelli Powers, CEO
George H. Lanier Memorial Hospital
4800 48th Street
Valley, AL 36854
(334) 756-1428

2223 Cheat Road • Suite 300
Morgantown, WV 26508
Tele 304•284•5015 304•284•5014 Fax



Paul A. Walker, AIA

President and Design Architect

Mr. Walker has twenty-six years of experience as an architect and received his registration in 1986. He became a business owner in October 2000 when he created Paradigm Architecture. Mr. Walker's design responsibilities include programming, development of construction documents, project management, and construction administration. Among the variety of projects he has designed and supervised are: commercial, corporate, educational, governmental, industrial, institutional, recreational, religious, and residential. The scope of projects ranges from a few thousand dollars to over 30 million dollars.

EDUCATION

University of Tennessee, Knoxville, Tennessee
Bachelor of Architecture, 1982

ARCHITECTURAL REGISTRATION

NCARB Certificate No. 53858
West Virginia No. 2626
North Carolina No. 4910
Alabama No. 5398

PROFESSIONAL, CIVIC AND OTHER ACTIVITIES

American Institute of Architects
Board Member, Chestnut Ridge Church

AWARDS AND HONORS

Chestnut Ridge Church, Morgantown, West Virginia
Waterfront Marina, Morgantown, West Virginia
2007 Excellence in Construction Award, Associated Builders & Contractors, Inc.

Two Waterfront Place Hotel & Conference Center, Morgantown, West Virginia
Madden Student Center at Davis & Elkins College, Elkins, West Virginia
2004 Excellence in Construction Award, Associated Builders & Contractors, Inc.

The Jackson Kelly Building, Morgantown, West Virginia
2003 Excellence in Construction Award, Associated Builders & Contractors, Inc.

One Waterfront Place, Morgantown, West Virginia
2002 Excellence in Construction Award, Associated Builders & Contractors, Inc.

Russell Cancer Center, Alexander City, Alabama
2001 Excellence in Construction Award, Associated Builders & Contractors, Inc.

Charleston Federal Center, Charleston, West Virginia
2000 Excellence in Construction Award, Associated Builders & Contractors, Inc.
2000 Development Project Special Recognition Award, Charleston Renaissance Corporation

Clarksburg Federal Center, Clarksburg, West Virginia
1999 Excellence in Construction Award, Associated Builders & Contractors, Inc.

Para-digm - (pär'e-dim') n. An example that serves as pattern or model.



Paul A. Walker, AIA

Representative Projects

**United States Department of Energy
Office of Legacy Management
Records Storage Facility
Morgantown, West Virginia**
Estimated Completion: Fall 2009
Cost: \$8 Million (Shell)

Charleston Federal Center*
Charleston, West Virginia
Completed: Winter 2000
Cost: \$10 Million

**Two Waterfront Place
Hotel and Conference Center
Morgantown, West Virginia**
Completed: Summer 2003
Cost: \$35 Million

**Morgantown Event Center
and Parking Garage
Morgantown, West Virginia**
Estimated Completion: Winter 2009
Cost: \$26.3 Million

**West Virginia University
Intermodal Garage
Morgantown, West Virginia**
Estimated Completion: Fall 2009
Cost: \$14.5 Million

**Waterfront Marina
and Boathouse Bistro
Morgantown, West Virginia**
Completed: Summer 2007
Cost: \$4.2 Million

**Davis and Elkins College
Madden Student Center
Elkins, West Virginia**
Completed: Summer 2003
Cost: \$1.5 Million

**Fairmont State University
Parking Facility
Fairmont, West Virginia**
Completed: Summer 2004
Cost: \$10 Million

**United States Department of Agriculture
Morgantown, West Virginia**
Estimated Completion: Fall 2009
Cost: \$6.5 Million (Shell)

Clarksburg Federal Center*
Clarksburg, West Virginia
Completed: Summer 2001
Cost: \$9 Million

One Waterfront Place*
Morgantown, West Virginia
Completed: Summer 2001
Cost: \$25 Million

**The Suncrest Corporate Center
Morgantown, West Virginia**
Completed: Spring 2001
Cost: \$1.1 Million

**Marina Tower
Morgantown, West Virginia**
Estimated Completion: Spring 2009
Cost: \$10 Million (Shell)

**West Virginia University
Downtown Student Housing
Morgantown, West Virginia**
Estimated Completion: Summer 2009
Cost: \$15.3 Million

**Glade Springs Resort
and Conference Center
Daniels, West Virginia**
Completed: Fall 2005
Cost: \$6 Million

**Davis and Elkins College
Athletic Center
Elkins, West Virginia**
Completed: Spring 2007
Cost: \$5.5 Million

**Chestnut Ridge Church
Morgantown, West Virginia**
Completed: Fall 2006
Cost: \$10 Million

* Key involvement in project with firm(s) other than Paradigm Architecture, Inc.

2450 Valleydale Road • Suite 150
Birmingham, AL 35244
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Morgantown, WV 26508
Tele 304•284•5015 304•284•5014 Fax



David H. Snider, AIA

Project Manager

Mr. Snider graduated from Auburn University with a degree in architecture and practiced in North Carolina before returning to his hometown of Birmingham, Alabama. He has spent the last eight years of his twenty-three year career with Paradigm Architecture. His responsibilities with Paradigm Architecture have included project management, construction documents, contract administration, and writing specifications. Project experience includes educational, healthcare, churches, libraries, schools, historic office buildings, airports, and commercial facilities.

EDUCATION

Auburn University, Auburn, Alabama
Bachelor of Architecture, 1984

Roofing Technology
The Roofing Industry Educational Institute, 1995

ARCHITECTURAL REGISTRATION

North Carolina No. 05151
Alabama – Pending

PROFESSIONAL, CIVIC AND OTHER ACTIVITIES

American Institute of Architects

AWARDS AND HONORS

Chestnut Ridge Church, Morgantown, West Virginia
Waterfront Marina, Morgantown, West Virginia
2007 Excellence in Construction Award, Associated Builders & Contractors, Inc.

Two Waterfront Place Hotel & Conference Center, Morgantown, West Virginia
Madden Student Center at Davis & Elkins College, Elkins, West Virginia
2004 Excellence in Construction Award, Associated Builders & Contractors, Inc.

Russell Professional Office Building III, Alexander City, Alabama
2004 Top Block Award, The Alabama Masonry Institute

The Jackson Kelly Building, Morgantown, West Virginia
2003 Excellence in Construction Award, Associated Builders & Contractors, Inc.

Russell Cancer Center, Alexander City, Alabama
2001 Excellence in Construction Award, Associated Builders & Contractors, Inc.



David H. Snider, AIA

Representative Projects

United States Department of Agriculture
Morgantown, West Virginia
Estimated Completion: Fall 2009
Cost: \$6.5 Million (Shell)

Marina Tower
Morgantown, West Virginia
Estimated Completion: Spring 2009
Cost: \$10 Million (Shell)

The Jackson Kelly Building
Morgantown, West Virginia
Completed: Spring 2002
Cost: \$4.5 Million (Shell)

Waterfront Marina
and Boathouse Bistro
Morgantown, West Virginia
Completed: Summer 2007
Cost: \$4.2 Million

The View at the Park
Morgantown, West Virginia
Completed: Summer 2004
Cost: \$6 Million

Russell Cancer Center*
Alexander City, Alabama
Completed: Spring 2001
Cost: \$3.2 Million

Lanier Hospital
Surgery Addition
Valley, Alabama
Completed: Summer 2006
Cost: \$4.2 Million

Russell Medical Center
Physical Therapy
Alexander City, Alabama
Completed: Spring 2008
Cost: \$1.6 Million

Russell Medical Center*
Alterations and Additions
Alexander City, Alabama
Completion Date: Spring 1999
Project Cost: \$18.2 Million

Two Waterfront Place
Hotel and Conference Center
Morgantown, West Virginia
Completed: Summer 2003
Cost: \$35 Million

Fairmont State University
Parking Facility
Fairmont, West Virginia
Completed: Spring 2004
Cost: \$10 Million

Glade Springs Resort
and Conference Center
Daniels, West Virginia
Completed: Fall 2005
Cost: \$6 Million

McDaniel/Stire Chiropractic
Office Building
Morgantown, West Virginia
Estimated Completion: Fall 2009
Cost: \$1.4 Million (Shell)

Russell Medical Center
Professional Office Building #3
Alexander City, Alabama
Completed: Spring 2004
Cost: \$4.1 Million

Lanier Hospital
ICU Renovations
Valley, Alabama
Completed: Fall 2008
Cost: \$1.6 Million

Russell Medical Center
Emergency Department Renovation
Alexander City, Alabama
Completed: Spring 2008
Cost: \$1.5 Million

Lanier Hospital
Emergency Department Renovations
Valley, Alabama
Estimated Completion: 2009/2010
Cost: \$1.1 Million

* Key involvement in project with firm(s) other than Paradigm Architecture, Inc.

2450 Valleydale Road • Suite 150
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Grant T. Gramstad, AIA

Project Manager

Mr. Gramstad has fourteen years of experience in the design industry as an intern and registered architect. He has been with Paradigm Architecture since its inception in November 2000. His roles have included project management, design, and supervision of small to mid-sized architectural projects. Project experience includes commercial, corporate, educational, governmental, healthcare, industrial, institutional, recreational, and residential.

EDUCATION

Tulane University, New Orleans, Louisiana
Master of Architecture, 2004

Tulane University, New Orleans, Louisiana
Bachelor of Architecture, Salutatorian, 1993

University of Bath, Bath, England
Junior Year Abroad, 1991-1992

ARCHITECTURAL REGISTRATION

Alabama No. 4897

PROFESSIONAL, CIVIC AND OTHER ACTIVITIES

American Institute of Architects
Certified Construction Contract Administrator

AWARDS AND HONORS

Waterfront Marina, Morgantown, West Virginia
2007 Excellence in Construction Award, Associated Builders & Contractors, Inc.

Lightning Strikes Family Fun Center, Trussville, Alabama
2004 Circle of Design Excellence, Pittsburgh Corning Glass Block

Russell Professional Office Building III, Alexander City, Alabama
2004 Top Block Award, The Alabama Masonry Institute

Two Waterfront Place Hotel & Conference Center, Morgantown, West Virginia
2004 Excellence in Construction Award, Associated Builders & Contractors, Inc.

The Jackson Kelly Building, Morgantown, West Virginia
2003 Excellence in Construction Award, Associated Builders & Contractors, Inc.

Russell Cancer Center, Alexander City, Alabama
2001 Excellence in Construction Award, Associated Builders & Contractors, Inc.

Charleston Federal Center, Charleston, West Virginia
2000 Excellence in Construction Award, Associated Builders & Contractors, Inc.
2000 Development Project Special Recognition Award, Charleston Renaissance Corporation

Para-digm - (pär'e-dĭm') n. An example that serves as pattern or model.



Grant T. Gramstad, AIA

Representative Projects

**United States Department of Energy
Office of Legacy Management
Records Storage Facility
Morgantown, West Virginia**
Estimated Completion: Fall 2009
Cost: \$8 Million (Shell)

**Fairmont State University
Parking Facility
Fairmont, West Virginia**
Completed: Spring 2004
Cost: \$10 Million

**The Suncrest Corporate Center
Morgantown, West Virginia**
Completed: Spring 2001
Cost: \$1.1 Million

**Waterfront Marina
and Boathouse Bistro
Morgantown, West Virginia**
Completed: Summer 2007
Cost: \$4.2 Million

**Glade Springs Resort
and Conference Center
Daniels, West Virginia**
Completed: Fall 2005
Cost: \$6 Million

**The Foundry
Women's and Children's Center Renovation
Bessemer, Alabama**
Estimated Completion: Fall 2009
Cost: \$1 Million

**City of Trussville
Flood Renovations to
City Hall and Police Department
Trussville, Alabama**
Completed: Summer 2003
Cost: DND

**Irondale Industrial Contractors
Office Building
Irondale, Alabama**
Completed: Winter 2006
Cost: \$1 Million

**Two Waterfront Place
Hotel and Conference Center
Morgantown, West Virginia**
Completed: Summer 2003
Cost: \$35 Million

**Marina Tower
Morgantown, West Virginia**
Estimated Completion: Spring 2009
Cost: \$10 Million (Shell)

**The Jackson Kelly Building
Morgantown, West Virginia**
Completed: Spring 2002
Cost: \$4.5 Million (Shell)

**Charleston Federal Center*
Charleston, West Virginia**
Completed: Winter 2000
Cost: \$10 Million

**Waterfront Parking Garage*
Morgantown, West Virginia**
Completion Date: Summer 2001
Project Cost: \$8.2 Million

**Dixon-Hughes Tenant Fitup
Marina Tower Office Building
Morgantown, West Virginia**
Estimated Completion: Winter 2008
Cost: DND

**The View at the Park
Morgantown, West Virginia**
Completed: Summer 2004
Cost: \$6 Million

**City of Trussville
Greenway Project – Phase 2
Trussville, Alabama**
Completed: Spring 2008
Cost: \$400,000

**Russell Medical Center
Professional Office Building #3
Alexander City, Alabama**
Completed: Spring 2004
Cost: \$4.1 Million

* Key involvement in project with firm(s) other than Paradigm Architecture, Inc.

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Jonathan L. Perry, AIA

Project Manager

Mr. Perry's responsibilities have included development of construction documents and drawings, project management, marketing presentations, bidding procedures, construction administration, and creating renderings for clients using computer aided design programs. He has a combined nine years of experience in commercial and residential architecture and has been with Paradigm Architecture for the last eight years. Project experience includes commercial, corporate, educational, governmental, healthcare, hospitality, industrial, institutional, recreational, and residential.

EDUCATION

University of Alabama at Birmingham, Birmingham, AL
Master of Engineering in Construction Management, 2008-current student

University of Tennessee, Knoxville, Tennessee
Bachelor of Architecture, Cum Laude, 1999

Politechnika Krakowska, Krakow, Poland
Semester Abroad, 1998

ARCHITECTURAL REGISTRATION

NCARB Certificate No. 63867
West Virginia No. 3953

PROFESSIONAL, CIVIC AND OTHER ACTIVITIES

American Institute of Architects
Construction Documents Technologist

AWARDS AND HONORS

Chestnut Ridge Church, Morgantown, West Virginia
Waterfront Marina, Morgantown, West Virginia
2007 Excellence in Construction Award, Associated Builders & Contractors, Inc.

Russell Professional Office Building III, Alexander City, Alabama
2004 Top Block Award, The Alabama Masonry Institute

Two Waterfront Place Hotel & Conference Center, Morgantown, West Virginia
Madden Student Center at Davis & Elkins College, Elkins, West Virginia
2004 Excellence in Construction Award, Associated Builders & Contractors, Inc.

The Jackson Kelly Building, Morgantown, West Virginia
2003 Excellence in Construction Award, Associated Builders & Contractors, Inc.

Russell Cancer Center, Alexander City, Alabama
2001 Excellence in Construction Award, Associated Builders & Contractors, Inc.

Para-digm - (pär'e-dīm') n. An example that serves as pattern or model.



Jonathan L. Perry, AIA

Representative Projects

One Waterfront Place*
Morgantown, West Virginia
Completed: Summer 2001
Cost: \$25 Million

**West Virginia University
Intermodal Garage**
Morgantown, West Virginia
Estimated Completion: Fall 2009
Cost: \$14.5 Million

Marina Tower
Morgantown, West Virginia
Estimated Completion: Spring 2009
Cost: \$10 Million (Shell)

The Jackson Kelly Building
Morgantown, West Virginia
Completed: Spring 2002
Cost: \$4.5 Million (Shell)

**Fairmont State University
Parking Facility**
Fairmont, West Virginia
Completed: Spring 2004
Cost: \$10 Million

**Glade Springs Resort
and Conference Center**
Daniels, West Virginia
Completed: Fall 2005
Cost: \$6 Million

**Davis and Elkins College
Madden Student Center**
Elkins, West Virginia
Completed: Summer 2003
Cost: \$1.5 Million

The View at the Park
Morgantown, West Virginia
Completed: Summer 2004
Cost: \$6 Million

Chestnut Ridge Community Church
Morgantown, West Virginia
Completed: Fall 2006
Cost: \$10 Million

**Two Waterfront Place
Hotel and Conference Center**
Morgantown, West Virginia
Completed: Summer 2003
Cost: \$35 Million

**West Virginia University
Downtown Student Housing**
Morgantown, West Virginia
Estimated Completion: Summer 2009
Cost: \$15.3 Million

**Morgantown Event Center
and Parking Garage**
Morgantown, West Virginia
Estimated Completion: Winter 2009
Cost: \$26.3 Million

**Waterfront Marina
and Boathouse Bistro**
Morgantown, West Virginia
Completed: Summer 2007
Cost: \$4.2 Million

**Fairmont State University
Colebank Hall Renovations**
Fairmont, West Virginia
Completed: Winter 2007
Cost: \$1.5 Million

**Glade Springs Resort
Clubhouse Expansion**
Daniels, West Virginia
Completed: Summer 2006
Cost: \$1.1 Million

**Davis and Elkins College
Athletic Center**
Elkins, West Virginia
Completed: Spring 2007
Cost: \$5.5 Million

Trinity Christian School
Morgantown, West Virginia
Completed: Summer 2005
Cost: \$8 Million

* Key involvement in project with firm(s) other than Paradigm Architecture, Inc.

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Todd G. Christopher, AIA

Project Manager

Mr. Christopher's responsibilities have included development of construction documents and drawings, project management, marketing presentations, bidding procedures, and construction administration. He has a combined seven years of experience in commercial and residential architecture and joined Paradigm Architecture in February 2009. Project experience includes commercial, corporate, educational, performing arts, healthcare, continuing care retirement communities, laboratories, industrial, institutional, sports facilities, and multi-family residential.

EDUCATION

Virginia Polytechnic Institute & State University, Blacksburg, VA
Master of Architecture, 2002

Fairmont State College, Fairmont, WV
Bachelor of Science in Engineering Technology, 1999

ARCHITECTURAL REGISTRATION

NCARB Certificate No. 104658
North Carolina No. 11326

PROFESSIONAL, CIVIC AND OTHER ACTIVITIES

American Institute of Architects
U.S. Green Building Council
AIA Peer Mentor in conjunction with UNC Charlotte College of Arts + Architecture

AWARDS AND HONORS

Wake Forest University Babcock School of Management, Charlotte, North Carolina
USGCB LEED Silver Certified

Davidson College Duke Residence Hall, Davidson, North Carolina
USGCB LEED Certified



Todd G. Christopher, AIA

Representative Projects

KeyLogic Systems, Inc.
Morgantown, WV
Estimated Completion: To Be Determined
Cost: \$1 Million

West Virginia State College*
Student Union Renovation and Addition
Institute, West Virginia
Completed: Spring 2004

Electric Power Research Institute*
Charlotte, North Carolina
Estimated Completion: Spring 2009
Cost: \$1 Million

University of North Carolina at Charlotte*
Robinson Hall Performing Arts Building
Charlotte, North Carolina
Completed: Spring 2004
Cost: \$23 Million

University of North Carolina at Greensboro*
Petty Building Renovation
Greensboro, North Carolina
Completed: Spring 2008
Cost: \$15.2 Million

University of South Carolina*
Discovery I Biomedical Research Facility
Columbia, South Carolina
Completed: Winter 2008
Cost: \$12 Million

Davidson College*
Duke Residence Hall
Davidson, North Carolina
Completed: Summer 2007
Cost: \$6.3 Million

Bella Vita on Park Condominiums*
Charlotte, North Carolina
Estimated Completion: To Be Determined
Cost: \$15 Million

Hagood Reserve Luxury Townhomes*
Charlotte, North Carolina
Estimated Completion: To Be Determined
Cost: \$6 Million

Stevens Correctional Facility*
Welch, West Virginia
Completed: Summer 2004
Cost: \$10.5 Million

Saint Timothy Lutheran Church*
Charleston, West Virginia
Completed: Winter 2004
Cost: \$5 Million

National Institute of Aerospace*
Hampton, Virginia
Completed: Summer 2006
Cost: \$6 Million

North Carolina State University*
Frank Thompson Theatre Renovation
Raleigh, North Carolina
Estimated Completion: Spring 2009
Cost: \$11.5 Million

University of North Carolina at Pembroke*
Sampson Classroom Building
Pembroke, North Carolina
Completed: Summer 2007
Cost: \$4.7 Million

University of North Carolina at Wilmington*
Performing Arts & Classroom Building
Wilmington, North Carolina
Completed: Fall 2006
Cost: \$26 Million

Wake Forest University*
Babcock School of Management
Charlotte, North Carolina
Estimated Completion: 2010
Cost: \$1 Million (Upfit)

Mountain Island Library*
Charlotte, North Carolina
Completed: Spring 2005
Cost: \$2.5 Million

Legacy Village Townhomes*
 Mooresville, North Carolina
Phase 1 Completed: Fall 2008
Cost: \$18 Million

* Key involvement in project with firm(s) other than Paradigm Architecture, Inc.

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Two Waterfront Place Hotel and Conference Center

Morgantown, West Virginia



A seventeen story hotel, conference center, retail, dining, and residential mixed-use facility in the Waterfront District. Additional features include an indoor pool, athletic club, day-spa/salon, and private parking for residents.

2003 Excellence in Construction Award from the Associated Builders & Contractors, Inc.

Owner: Platinum Properties

Design Architect: Paul A. Walker, AIA

Project Manager: David H. Snider, AIA

Project Architect: Grant T. Gramstad, AIA

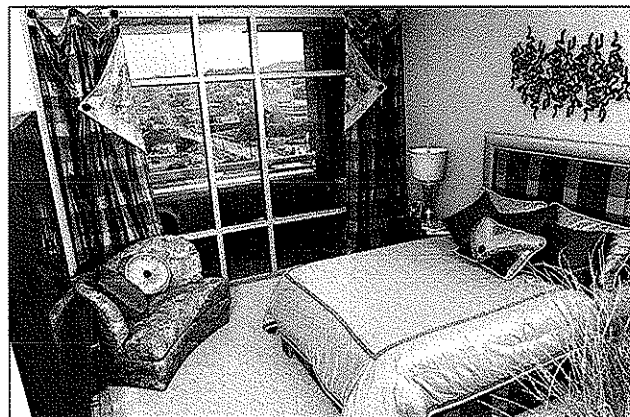
Completed: Summer 2003

Cost: \$35 Million

Size: 296,427 Square Feet

Delivery Type: Design-Build-Negotiated

Contractor: The March-Westin Company





United States Department of Energy Office of Legacy Management

Morgantown, West Virginia



A new modern office and records storage building for the United States Department of Energy Office of Legacy Management. Awarded through a Design-Build Competition sponsored by the General Services Administration. This one story building includes 37,000 square feet of NARA Certified Records Storage space and additional spaces for administrative offices, receiving / processing, and meetings / research areas.

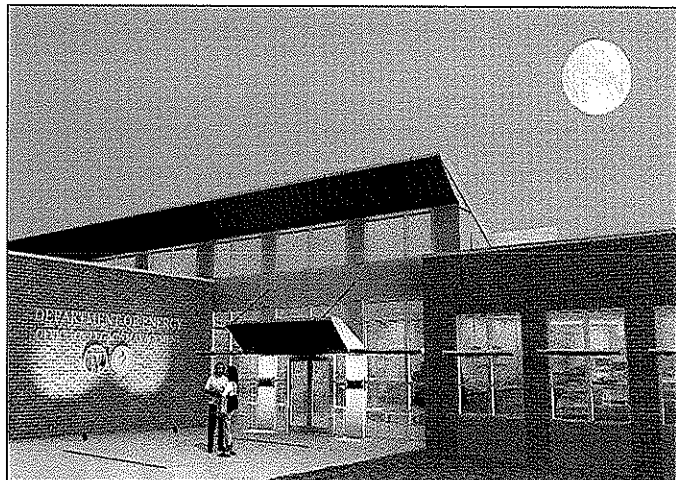
This project will be registered as a LEED Certified Building.

Owner: FD Partners, LLC

Design Architect: Paul A. Walker, AIA
Project Manager: Grant T. Gramstad, AIA

Estimated Completion: Fall 2009
Cost: \$8 Million (Shell)
Size: 60,000 Square Feet
Delivery Type: Design-Build-Negotiated

Contractor: Dick Corporation





The General Services Administration for the United States Department of Agriculture

Morgantown, West Virginia



(Currently Under Construction)

Awarded through a Design-Build Competition sponsored by the General Services Administration. This facility will house five agencies of the USDA including: the Credit Union, Rural Development, Farm Services Administration, Natural Resource Conservation services, and the USDA Information Technology Services.

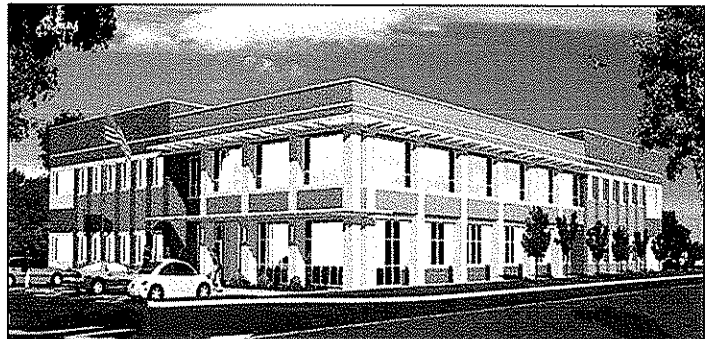
This project will be registered as a LEED Certified Building.

Owner: Glenmark Holdings, LLC

Design Architect: Paul A. Walker, AIA
Project Manager: David H. Snider, AIA

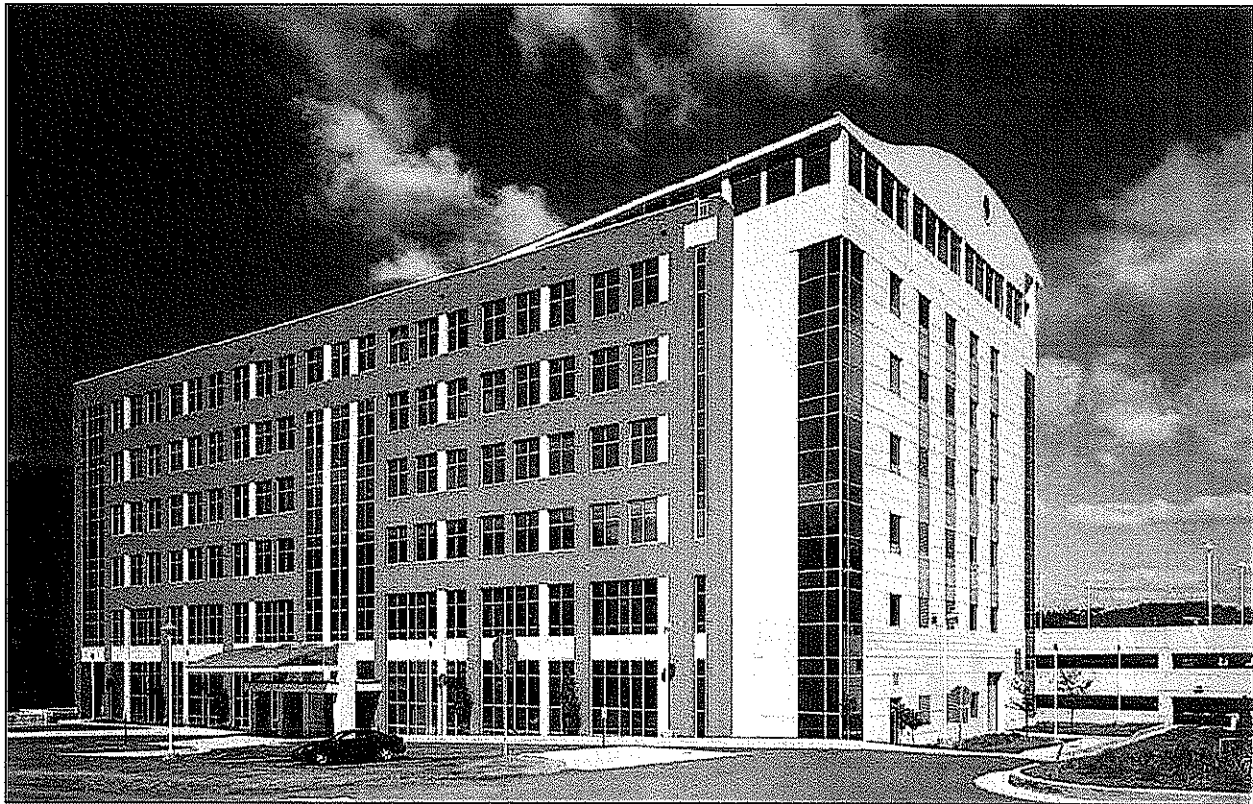
Estimated Completion: Fall 2009
Cost: \$6.5 Million (Shell)
Size: 36,000 Square Feet
Delivery Type: Design-Build Competition

Contractor: The March-Westin Company



One Waterfront Place

Morgantown, West Virginia



A seven story office building housing the West Virginia University Foundation and West Virginia University Administrative Services, which include: Television Services, the Visitors Center, Human Resources, Finance, and Information Services

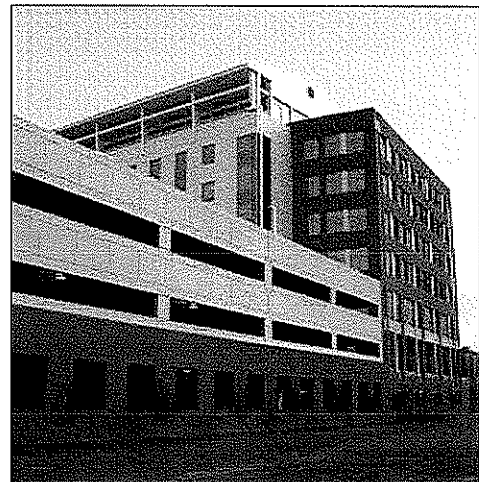
2002 Excellence in Construction Award from the Associated Builders & Contractors, Inc.

Owner: Platinum Properties, LLC

Design Architect: Paul A. Walker, AIA
Architect of Record: Evan Terry Associates, P.C.

Completed: Summer 2001
Cost: \$25 Million
Size: 170,000 Square Feet
Delivery Type: Design-Build

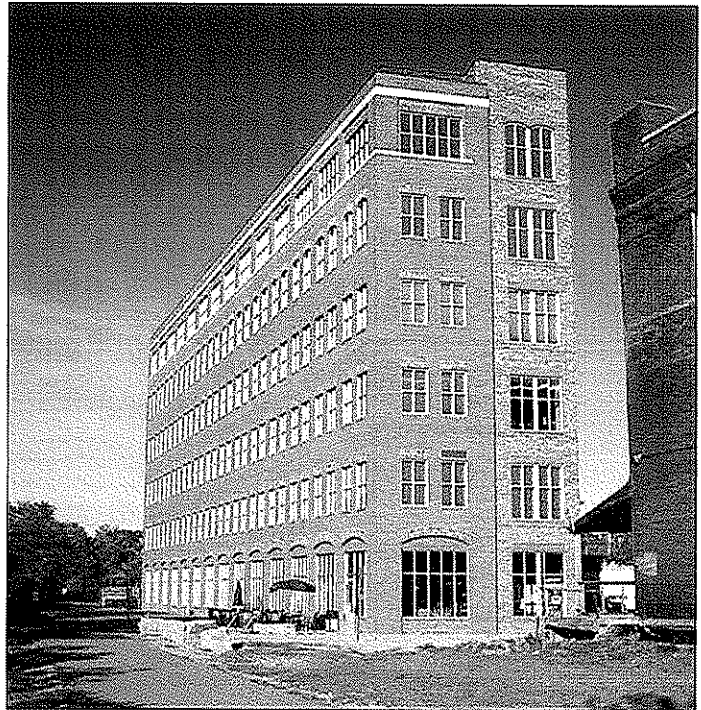
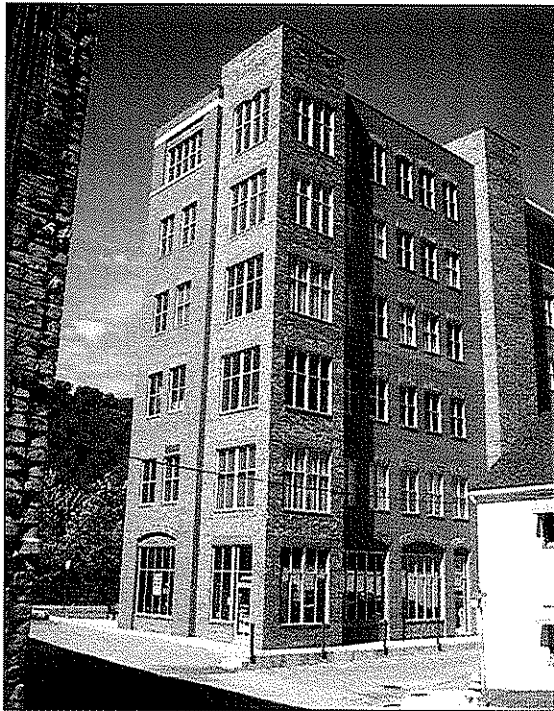
Contractor: The March-Westin Company





The Jackson Kelly Building

Morgantown, West Virginia



Designed to fit its historic context in the Wharf District, this office building houses multiple business tenants, including Jackson Kelly PLLC, DMJM Harris, Simpson & Osborne, MetLife, Luttner Financial, and National Biometric Security Project, with restaurant functions on the first floor.

2003 Excellence in Construction Award from the Associated Builders & Contractors, Inc.

Owner: Platinum Properties, LLC

Design Architect: Paul A. Walker, AIA

Project Manager: David H. Snider, AIA

Project Architect: Grant T. Gramstad, AIA

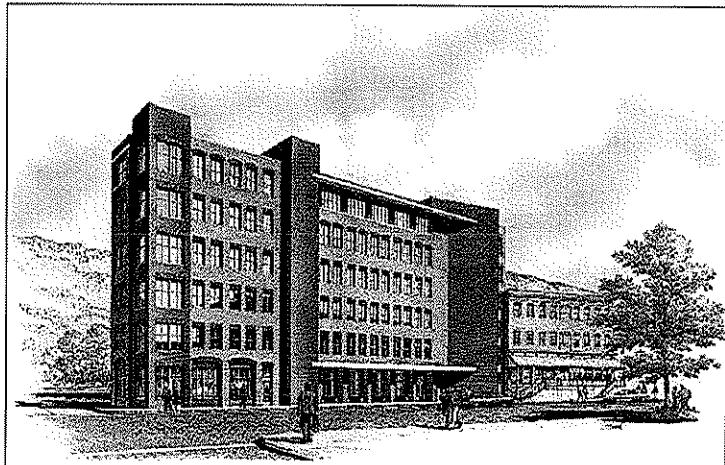
Completed: Spring 2002

Cost: \$4.5 Million (Shell)

Size: 50,000 Square Feet

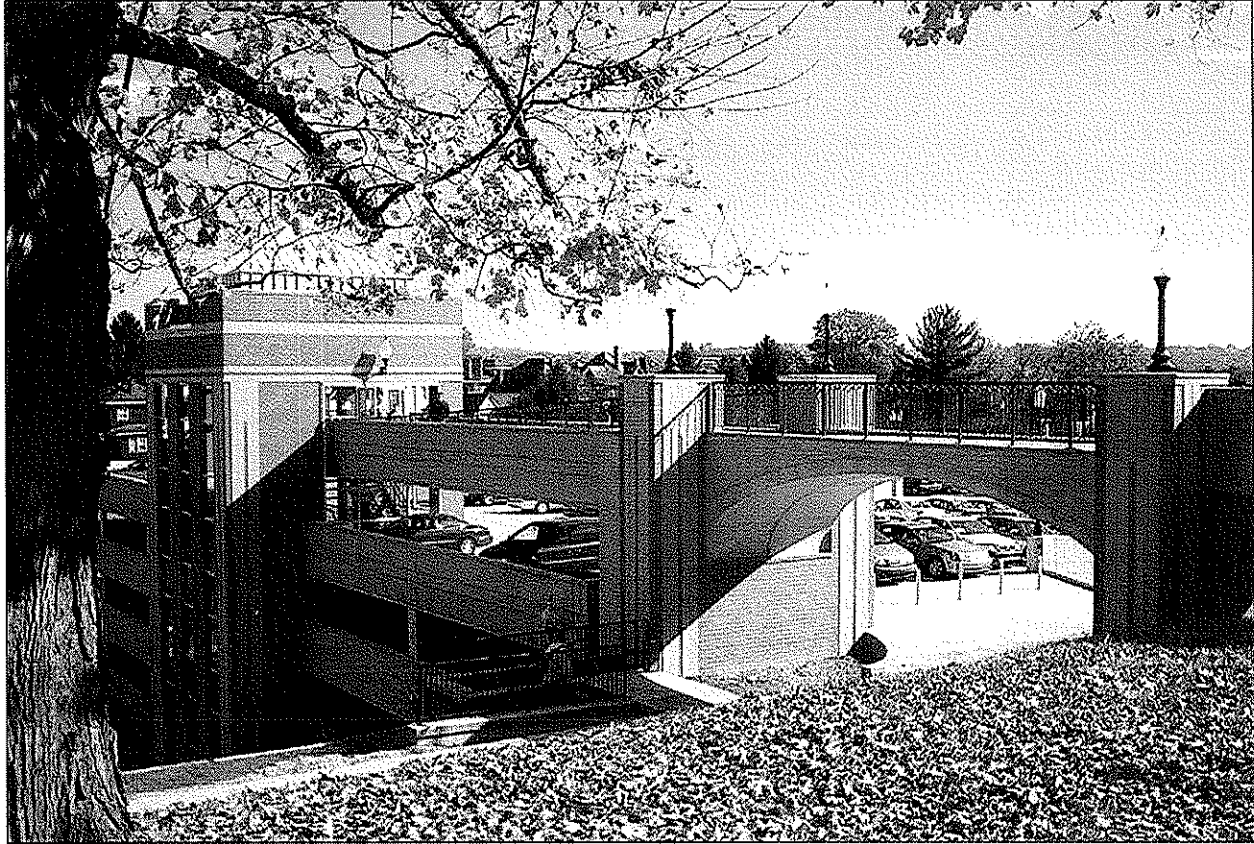
Delivery Type: Design-Build-Negotiated

Contractor: The March-Westin Company



Fairmont State University Parking Facility

Fairmont, West Virginia



In order to meet the needs of a growing campus, this new parking facility provides 940 parking spaces and a connecting pedestrian bridge to the main campus. Unique site conditions include building over an abandoned coal mine, as well as a steeply sloping site that required retaining walls on multiple levels.

Owner: Fairmont State University

Design Architect: Paul A. Walker, AIA

Project Manager: David H. Snider, AIA

Project Architect: Grant T. Gramstad, AIA

Completed: Summer 2004

Cost: \$10 Million

Size: 269,000 Square Feet

Delivery Type: Design-Build Negotiated

Contractor: The March-Westin Company





Davis and Elkins College Athletic Center

Elkins, West Virginia



This athletic center has a gymnasium and seating for 1,200 spectators. The center also includes locker / shower room facilities for basketball, volleyball, and soccer. The lobby holds a sports hall of fame and concessions. In addition, there are offices for athletic and physical education.

Owner: Davis and Elkins College

Design Architect: Paul A. Walker, AIA

Project Architect: Jonathan L. Perry, AIA

Completed: Spring 2007

Cost: \$5.5 Million

Size: 40,000 Square Feet

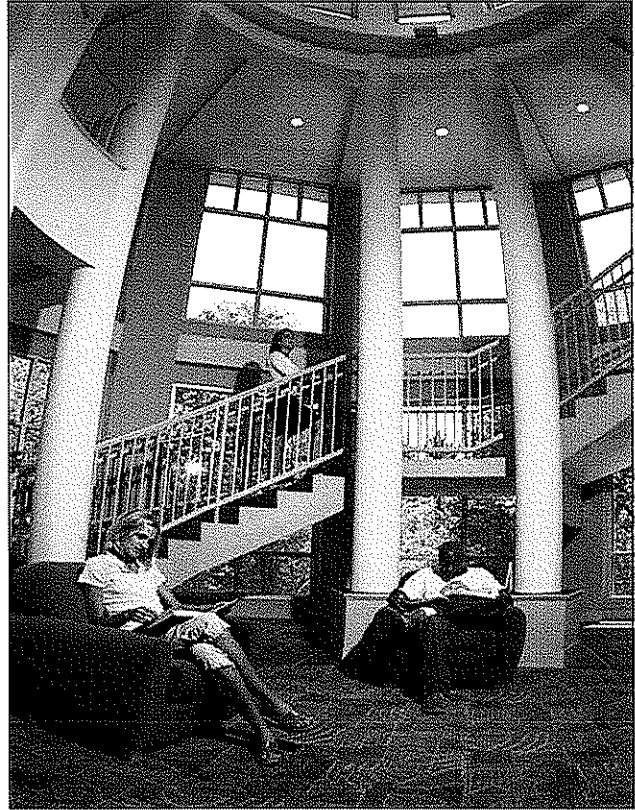
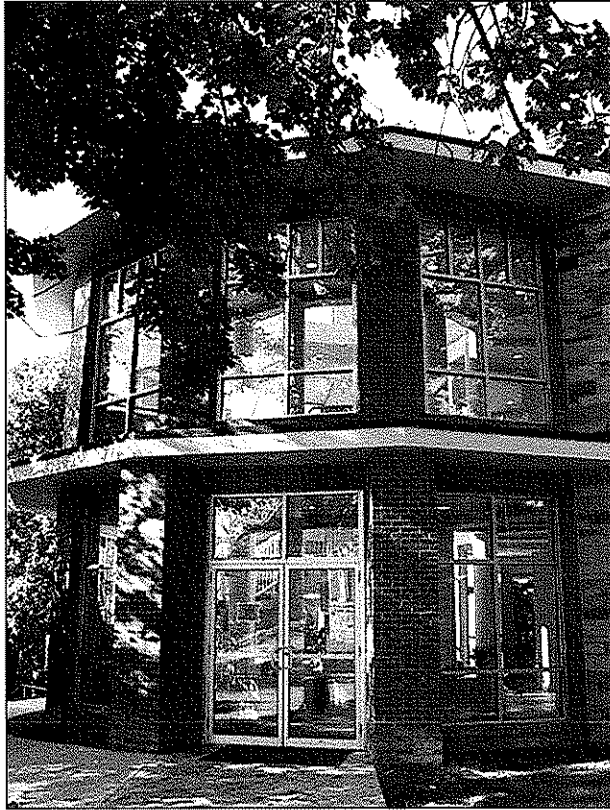
Delivery Type: Design-Build-Negotiated

Contractor: The March-Westin Company



Davis and Elkins College Madden Student Center

Elkins, West Virginia



A renovation of the existing Benedum Hall, which included the addition of this rotunda as a vertical transition element. The project includes a main dining hall, private dining rooms, a café, and the Madden Student Center. The Madden Student Center includes a game room, college bookstore, lounge, post office, and the college radio station.

2004 Excellence in Construction Award from the Associated Builders & Contractors, Inc.

Owner: Davis and Elkins College

Design Architect: Paul A. Walker, AIA

Completed: Summer 2003

Cost: \$1.5 Million

Size: 16,000 Square Feet

Delivery Type: Design-Build

Contractor: The March-Westin Company





Clarksburg Federal Center

Clarksburg, West Virginia



National design competition for the design of a new office building to consolidate Federal Government Agencies into a new structure in a historic district.

1999 Excellence in Construction Award from the Associated Builders & Contractors, Inc.

Owner: Platinum Properties, LLC

Design Architect: Paul A. Walker, AIA

Architect of Record: Gates Calloway Moore & West

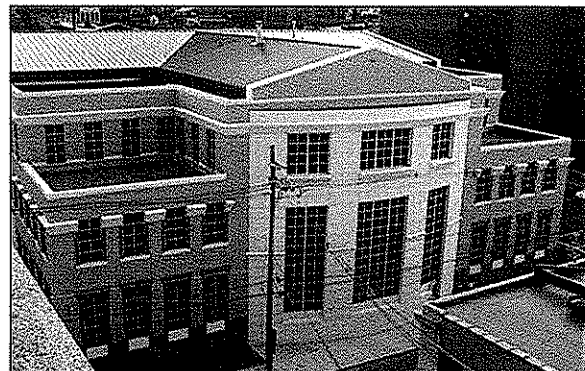
Completed: Summer 2001

Cost: \$9 Million

Size: 65,000 Square Feet

Delivery Type: Design-Build Competition

Contractor: The March-Westin Company



Charleston Federal Center

Charleston, West Virginia



Renovation of a former federal courthouse to provide office space for Social Security. This commission was awarded through a national design competition.

2000 Excellence in Construction Award from the Associated Builders & Contractors, Inc.

2000 Development Project Special Recognition Award from the Charleston Renaissance Corporation

Owner: Platinum Properties, LLC

Design Architect: Paul A. Walker, AIA

Project Manager: Grant T. Gramstad, AIA

Architect of Record: Evan Terry Associates, P.C.

Completed: Winter 2000

Cost: \$10 Million

Size: 110,000 Square Feet

Delivery Type: Design-Build Competition

Contractor: The March-Westin Company





FIRM PROFILE

Introduction to KCI Technologies, Inc.

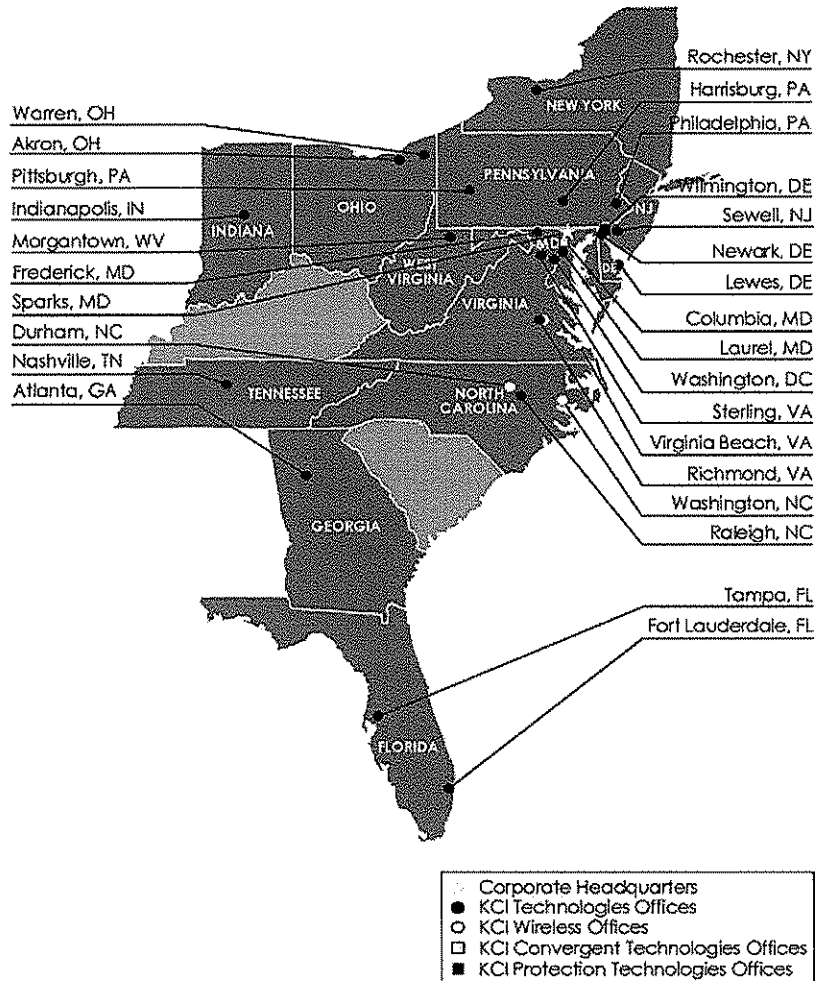
Early Corporate History – KCI Technologies, Inc. traces its corporate history to a Baltimore firm founded in 1955. In the early-1970s, the firm along with a number of other privately held engineering companies joined Kidde, Inc., and became known in 1978 as Kidde Consultants, Inc. During the 1980s, Kidde Consultants opened additional offices in Maryland, Delaware, Virginia, and Pennsylvania.

Employee Ownership – In August 1987, Hanson Trust, PLC, of Great Britain a manufacturing company with diversified holdings, worldwide-purchased Kidde, Inc. Soon after, Kidde Consultants initiated negotiations with Hanson for an employee buyout, which was completed in December 1988, creating Maryland's largest employee-owned company. The firm officially changed its name to KCI Technologies, Inc., in 1991 and relocated its headquarters to Hunt Valley, Maryland in 1993.

With revenues of \$142 million in 2007, the *Engineering News Record* has consistently placed KCI among the top consulting engineering firms in the country. Today, our roughly 1,000 employee owners operate out of 27 offices in 13 states--Delaware, Florida, Georgia, Indiana, Maryland, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Tennessee, Virginia, and West Virginia—and the District of Columbia.

Technical Expertise – With a professional staff of engineers, planners, scientists, surveyors, and construction managers, we offer a broad range of engineering services, including civil, structural, transportation, environmental, hazardous waste, mechanical, electrical, telecommunications, and soils. But engineering is not all we do. We also provide cultural and environmental resource management services, land planning and landscape architecture, geology, hydrology, ecology, surveying, and construction management and inspection. All of our service lines are supported by a team of CADD operators, GIS specialists, database and Web programmers, and other computer-savvy professionals working on state-of-the-art equipment.

At KCI, we believe that our broad technical expertise, combined with our unique commitment as employee owners, has enabled us to emerge as industry leaders whose customers can count on excellent service time and again.





ROBERT R. MILNE, PE
Division Chief E-VIII, Senior Associate

Education:

BS / 1990 / Civil Engineering / West Virginia University
MS / 1999 / Civil Engineering / West Virginia University

Registration:

PE / PE / WV / 014177
PE / PE / PA / PE061465

Years Experience: 18

Years with KCI: 6

Experience:

Mr. Milne is the Division Chief in KCI's Morgantown, West Virginia office where this contract will reside. He is responsible for the offices' daily operation, supervision of staff, and management of large projects. Mr. Milne is also experienced in civil/site design, utilities and buildings as well as roadway and storm sewer design; highways, bridges, traffic studies; construction administration and inspection. His experience includes:

West Virginia University Architectural and Engineering Open End. Morgantown, WV. Division Chief/Project Manager. KCI was awarded an open end contract to provide multi-disciplined engineering services to the West Virginia University.

New Northside Fire Station. Morgantown, WV. Division Chief/Project Manager. KCI is a sub-consultant to Bignell Watkins Hasser for the proposed North Side Fire Station for the City of Morgantown. This project is currently under construction. KCI is responsible for overall site design, access roads, utility lines, sidewalks, landscaping, drainage, storm water retention, grading plans, erosion and sedimentation control plans, and all the site/civil permitting.

WVU Downtown Student Housing Project. Morgantown, WV. Division Chief/Project Manager. KCI is a sub-consultant to Paradigm Architecture for the proposed Downtown Student Housing Project. This project is currently under construction. KCI is responsible for overall site design, access roads, courtyard, utility lines, sidewalks, drainage, storm water retention, grading plans, erosion and sedimentation control plans, and all the site/civil permitting.

The Dayton. Morgantown, WV. Division Chief/Project Manager. KCI is a sub-consultant to Paradigm Architecture for the proposed Dayton. The Dayton is a new 3 story modular building with one level of parking and retail space below located at the corner of Ridgeway Avenue, Dayton Street and Richwood Avenue in Morgantown, WV. KCI is responsible for overall site/civil design, water lines, sanitary sewer, general utility coordination, site/civil permitting and erosion and sediment control.

Harpers Ferry National Park Historic Train Station. Harpers Ferry, WV. Project Manager. KCI was sub-consultant to a national design/build contractor to provide electrical, site/civil, and structural engineering support services for this Historical Renovation project. KCI was responsible for designing a 92 space parking lot, sidewalks and lighting at the Historic Harpers Ferry Train Station. In order to meet the deadlines of our client this project was placed on a fast track schedule. The preliminary and final design of the parking lot was completed in less than a month.

AIE Infrastructure Repair Projects. Nationwide. Project Manager. KCI is responsible for the completion of the Site Investigation Reports, Traffic Studies, and Comprehensive Work Plans for the following facilities: Fort Drum, NY; Fort Meade, MD; Fort Leavenworth, KS; Adelphi Research Lab, MD; Bluegrass Army Depot, KY; Dugway, UT; and Motts, NC.



JOHN W. RUDMANN, PE

Senior Civil Engineer

Education:

BS / 1995 / Civil Engineering / West Virginia University
BS / 1992 / Landscape Architecture / West Virginia University

Registration:

PE / PE / PA / PE062150
PE / PE / WV / 14779
PE / PE / MD / 200442
RLA / RLA / PA / LA001741
RLA / RLA / MD / 1177

Years Experience: 13

Years with KCI: 1

Experience:

Mr. Rudmann is a civil engineer and a landscape architect with experience in performing roadway design, project planning, site development, road rehabilitation and repair, landscape and streetscape design, and trail and park projects. He has been a project manager and a design engineer. He has effectively managed staff to complete large fast paced highway projects as well as managed small trail and park projects. He has completed all the design tasks associated with transportation projects and is proficient with all the computer software.

New Northside Fire Station. Morgantown, WV. Senior Design Engineer. KCI is a sub-consultant to Bignell Watkins Hasser for the proposed North Side Fire Station for the City of Morgantown. This project is currently in the final design phase. KCI is responsible for overall site design, access roads, utility lines, sidewalks, landscaping, drainage, storm water retention, grading plans, erosion and sedimentation control plans, and all the site/civil permitting. Mr. Rudmann was responsible for the overall design of all site/civil services. Final construction documents will be completed in April 2008.

WVU Downtown Student Housing Project. Morgantown, WV. Senior Design Engineer. KCI is a sub-consultant to Paradigm Architecture for the proposed Downtown Student Housing Project. This project is currently under construction. KCI is responsible for overall site design, access roads, courtyard, utility lines, sidewalks, drainage, storm water retention, grading plans, erosion and sedimentation control plans, and all the site/civil permitting. Mr. Rudmann was responsible for the overall design of all site/civil services.

Morgantown Event Center and Parking Garage. Morgantown, WV. Senior Design Engineer. Mr. Rudmann was responsible for the overall design of all site/civil services, which included access roads and parking lot, utility lines, sidewalks, landscaping, drainage, storm water retention, grading plans, and erosion and sedimentation control plans. KCI is a sub-consultant to Paradigm Architecture. KCI is providing site/civil engineering and landscape architecture services for this design-build project.

USDA/GSA Building. Sabraton, WV. Project Manager. KCI is a sub-consultant to Paradigm Architecture for the new USDA/GSA Building in Sabraton. KCI is providing site/civil engineering services for this design-build project.

The Dayton. Morgantown, WV. Senior Design Engineer. KCI is a sub-consultant to Paradigm Architecture for the proposed Dayton. The Dayton is a new 3 story modular building with one level of parking and retail space below located at the corner of Ridgeway Avenue, Dayton Street and Richwood Avenue in Morgantown, WV. KCI is responsible for overall site/civil design, water lines, sanitary sewer, general utility coordination, site/civil permitting and erosion and sediment control. Mr. Rudmann was responsible for the overall design of all site/civil services.

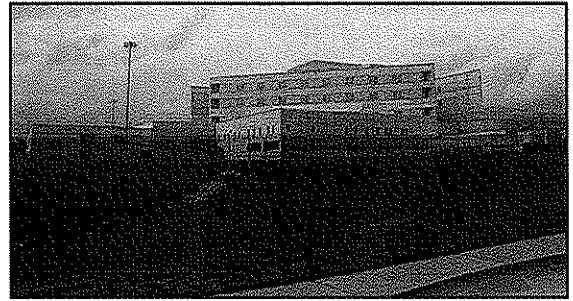


A/E SUPPORT SERVICES MULTIPLE AWARD TASK ORDER CONTRACTS

Nationwide

Client:

Federal Bureau of Prisons
Annapolis Junction, MD



Contact: Jim Emr (Smolen Emr Assoc. Architects)
(301)770 – 0177

Completion Date: 2005

Highlights:

As a subconsultant KCI supported Smolen Emr Associates Architects on this open-end Federal Prison Project. Tasks completed have included:

Alderson FPC - Multi-Purpose Building, West Virginia - KCI provided civil and site engineering for this prison located in West Virginia. Specific scope items have included:

Schematic Design Documents – KCI provided a schematic design for the proposed project area. KCI provided survey services for the project area. Any proposed access roads, driveways, sidewalks were identified in a conceptual manner during this phase. Drainage areas were also determined and all existing drainage features were identified. KCI also created Conceptual grading plans of the project site.

Design Development Documents - Based upon comments received from the schematic design submission and the concepts developed during schematic design, KCI performed the preliminary design. KCI performed Preliminary Design Services for all site amenities such as the parking lot, access road, and sidewalks. KCI also created Preliminary Plan and Profiles, Cross-Sections, and typical sections for all access roads and driveways within the project site. KCI completed the preliminary drainage design in accordance with WVDOH specifications and prepared preliminary erosion and sedimentation control plans. At the completion of the design development phase, KCI provide outline specifications to the owner.

Construction Documents - Based upon comments received from the design development submission KCI finalized the design and submitted the construction documents to SEA in preparation for the project to be bid for construction. During this phase KCI completed final design of the Contour grading plan. KCI finalized all design services for all site amenities, services included: Plan and Profiles, Cross-Sections, and Typical Sections. Drainage design and final erosion and sedimentation control plans were also completed. Service connections for all proposed utilities were also finalized during this phase from the tie-in location to the building footprint. At the completion of this phase KCI provided the owner with the final civil site project specifications.

Final design for the Mult-Purpose Building has been submitted to the FBOP. The project is currently awaiting on funding to start construction.

Cumberland Correction Institution, MD - provided engineering services in troubleshooting district heating, primary and secondary loop corrosion problem. Scope of services included a detailed site survey of nineteen (19) mechanical rooms, review of as-built drawings, evaluation of existing control systems, review of maintenance records and water treatment procedures. A report was generated proposing solutions to the ongoing mechanical problems involving the entire heating water, including heat transfer to the hot water generators.

Butner Federal Medical Center, NC - scope of services included providing concept design and engineering solution to inadequate water pressure at medical center. Proposed solution was replacement of existing triplex booster pump set currently serving floors 3, 4 and 5 with a larger triplex pump set sized to accommodate the entire building. Project included development of short specifications, phasing plan, and construction cost estimate.

FCI Memphis, TN - New Outside Administration Building - KCI provided approximately 3 acres building Civil site design, parking lots, site drainage, geotechnical services and land survey for about 10,000 SQ-FT Federal Bureau of Prisons' New Outside Administration Building, FCI Memphis, TN. KCI completed construction plan and specification for the project.



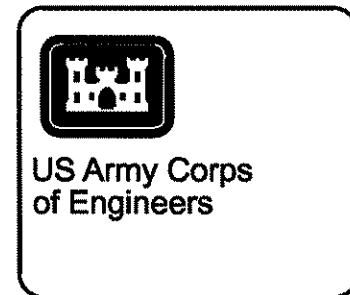
AUTOMATED INSTALLATION ENTRY (AIE) SYSTEM INFRASTRUCTURE US ARMY CORPS OF ENGINEERS

Nationwide

Owner: Atlantic Design Group
Linc Government Services

Client Contact: Craig Moyer (410) 884-9610
James Warfield (270) 885-4675

Completion Date: On-going



Highlights:

KCI Technologies, partnered with Atlantic Design Group and Linc Government Services to provide full service design and construction services for the US Army Corps of Engineers, Huntsville, AL. The LINC/KCI/ADG team provided full service consulting for Access Control Point (ACP) design at eight bases nationwide including **Fort Drum, New York; Fort Meade, Maryland; Fort Leavenworth, Kansas; Adelphi Research Lab, Maryland; Bluegrass Army Depot, Kentucky; Dugway, Utah; and Motsu, North Carolina.** Each base is currently in phase one or phase two of the project. Our work followed Installation Design Guidelines, site by site, specific to each installation. Design also followed Army Access Control Point Standard Definitive Design and Traffic & Safety Engineering for Better Entry Control Facilities SDDCTEA Pamphlet 55. Our work addressed each ACP at the bases.

KCI's engineers provided a site investigation and traffic survey for phase one. Traffic studies were conducted at the following bases Fort Drum, Fort Meade, Fort Leavenworth, Adelphi Research Lab, and Bluegrass Army Depot, to collect data on traffic flow during a typical workday including volume during peak periods and make necessary adjustments (i.e. for deployed personnel, BRAC effects). The study also determined design demand (max volume of traffic at ACP during peak hour) for each ACP. Phase one was completed with a concept design inclusive of design alternatives, site investigation report and traffic survey report. The final report also included a budget/cost proposal for construction.

For Phase Two of the project, KCI's engineers are working with the installation on-site manager and the full design team to develop design documents to improve the ACP. Our plans will follow current version of Unified Facilities Guide Specification (UFGS) 34 41 26.00 10, "Access Control Point Control System" and UFGS 28 20 01.00 10, "Electronic Security Systems." KCI's engineers will provide design for conduit at each ACP for Automated Installation Entry (AIE) functions including card reader pedestal, CCTV Cameras, Vehicle RFID tag readers, Traffic Arm and lane control traffic signals, AIE Work stations within each Guard Booth and Gatehouse, and ID check area lane equipment conduit.

The LINC/KCI/ADG team provided survey and design or re-design as needed for the traffic islands and median islands at each ACP to ensure compliance with Standard Definitive Design. Guard booths, Gate houses and ID Check Canopies at each ACP were also surveyed and will be designed, if needed, for compliance with Standard Definitive Design to ensure proper size and proper safety to guards is provided during ID Checks, as well as measure illumination levels at canopies. Electrical engineers are working to determine the capacity and distribution of electrical power at each ACP as required by Army Standard Definitive Design. Determine requirements for emergency back up power for guard booths, gate house, id check point canopy and AVBs. Provide UPS system in accordance with UFGS 34 41 26.00 10. Additional improvements include fiber optic cabling, electronic security systems including intrusion detection systems and tamper alarms, traffic arms designed for each ID Check lane per UFGS 34 41 26.00 10 and Active Vehicle Barrier design per UFGS 34 41 26.00 10 including CCTV monitoring. For Phase II work, drawings will be completed using Microstation and specifications will be written using MasterSpec.

Phase three includes the bidding and construction of improvements for each ACP. Construction has not been awarded for any of the bases.



WVU DOWNTOWN STUDENT HOUSING PROJECT

Morgantown, WV

Owner: West Virginia University
Morgantown, WV

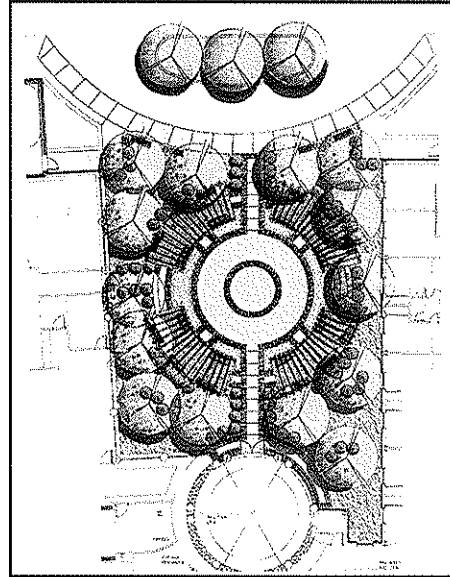
Contact: John Sommers, Project Manager
(304) 293- 2856

Completion Date: Under Construction

Highlights:

KCI is a sub-consultant to Paradigm Architecture for the proposed Downtown Student Housing Project. This project is currently under construction. KCI was responsible for overall site design, access roads, plaza, utility lines, sidewalks, drainage, storm water quality and retention, grading plans, erosion and sedimentation control plans, and the site/civil permitting.

KCI provided a design for the plaza area using stamped concrete patterns, in conjunction with strategically placed patio's and pergolas. The plaza was designed to create a warm friendly environment. This plaza will also serve as a throughway from the new dormitory to the existing Summit Hall, where the residents of the new dorm will go for dinners. KCI also provided an innovative storm-water management design to capture all water within the plaza.



Rendering courtesy of
Paradigm Architecture



GSA/USDA BUILDING

Sabraton, WV

Owner: USDA

Client Contact: Paul Walker
(304) 284-5015

Completion Date: 2009

Highlights:

KCI is a sub-consultant to Paradigm Architecture for the new USDA Building located in the Sabraton Area of Morgantown. KCI is providing site/civil engineering and landscape architecture design services for this design-build project. This project is pursuing LEED certification. The site received a Certificate of Completion (COC) in accordance with 60 CSR 3, Section 12 for Voluntary Remediation and Redevelopment Act (VRRRA) Activities after an ASTM E1903-97 Phase II Environmental Assessment was completed.



At the conception of this project KCI's engineers recognized several challenges that would need to be dealt with throughout the design-build process. Being able to meet the program requirements of the USDA as well as providing a site/civil design that maximized LEED credentials outside of the building. The existing state road providing access to the project site lies within the flood plain. KCI provided a site/civil design that proposed raising the finished floor elevation and utilizing bio-retention areas within the project site to not only capture the on-site stormwater but to protect the proposed buildings from the recurring flood conditions that are prevalent in the area. KCI designed the bio-retention areas within the proposed traditional parking islands thus eliminating a need for additional space within the project site for the required stormwater management devices.

In lieu of escalating project costs with large, long retaining walls, KCI's engineers were able to effectively design the proposed contour grading plans to minimize the height and length of the retaining walls.

KCI's engineers and landscape architects worked together to provide the contractor with plant seed mixes and traditional plants for the landscape plan that minimized project costs.



MORGANTOWN EVENT CENTER & PARKING GARAGE

Morgantown, WV

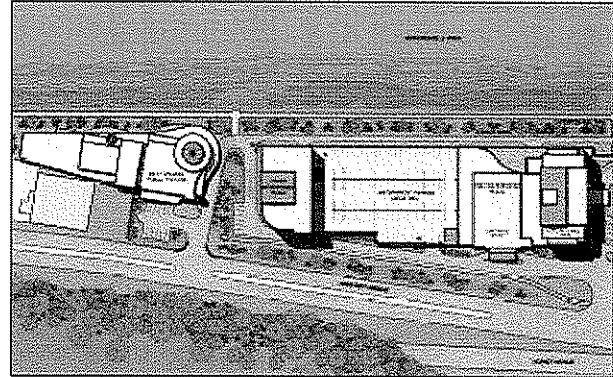
Owner: City of Morgantown & Petroplus & Lane
Morgantown, WV

Contacts: Terry Hough (304) 284-7412
Rich Lane (304) 284-5000

Completion Date: 2010

Highlights:

KCI is a sub-consultant to Paradigm Architecture for the new Morgantown Event Center and Parking Garage, located in the Wharf District of Morgantown. KCI is providing site/civil engineering and landscape architecture services for this design-build project. The project has presented every discipline with numerous challenges. The existing site is severely constrained by the rail trail right of way to the west and the WVDOH right of way to the east. To compound site issues, the WVDOH property is roughly 25ft higher than the rail trail property. The final solution allowed the building to function as a retaining wall, effectively minimizing this issue without additional cost added to the construction of this project. The other major issue is the numerous utility lines crisscrossing the property. KCI worked closely with the Contractor to locate each utility so KCI could provide a design for proposed utilities that wouldn't conflict with the existing lines.



To meet Morgantown Utility Board's (MUB) strict stormwater requirements, KCI located Bio retention features on site to meet stormwater reduction and quality requirements. KCI used these "liabilities" as positives by placing Bio retention between the rail trail and Event Center properties. As an effective aesthetic buffer each retention area received extensive landscape design. As a result, the rail trail users are provided an enhanced user experience, the Event Center is screened from adjoining users, and all MUB requirements are met. With such a narrow site, the challenge of safely passing busses and semi-trailers through the site became very difficult. KCI was able to achieve this goal without negative impacts to the project.



NEW NORTHSIDE FIRE STATION

Morgantown, WV

Owner:

City of Morgantown
Morgantown, WV

Contact: Terry Hough, Morgantown City Engineer
(304) 284-7412

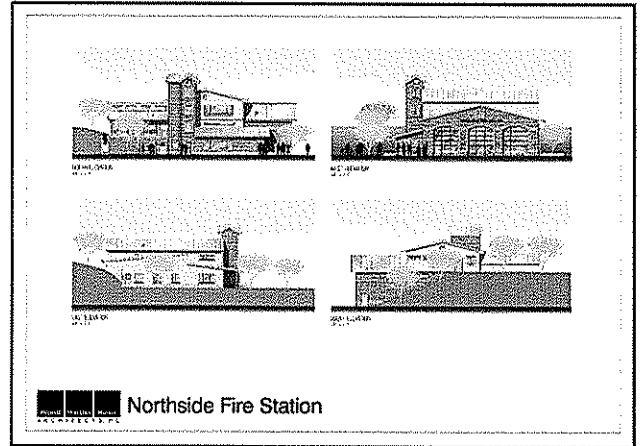
Completion Date: Under Construction

Highlights:

KCI is a sub-consultant to Bignell Watkins Hasser for the proposed North Side Fire Station for the City of Morgantown. KCI is responsible for overall site design, access roads, utility lines, sidewalks, drainage, storm water quality and retention, grading plans, erosion and sedimentation control plans, and the site/civil permitting.

The new Morgantown Fire Station will be a LEED certifiable building. KCI's design approach to the site/civil items reflects LEED certification.

KCI provided an innovative design to capture storm-water on the project site through the use of four on site Bio Cells. KCI also designed a 3,000 +/- gallon water harvesting tank to harvest the rain water from the roof of the proposed building. KCI's innovative approach to storm-water design on this project enabled the site to effectively detain stormwater events with a slow release. This design approach provided for water filtration, groundwater recharge, and an overflow connection to the existing storm-water system in the event of otherwise uncontrollable storm events. The design also provides a cost effective solution to long term water demand for the Fire Station.



**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**



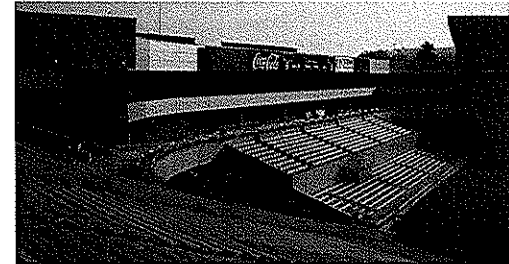
SECONDARY EDUCATION



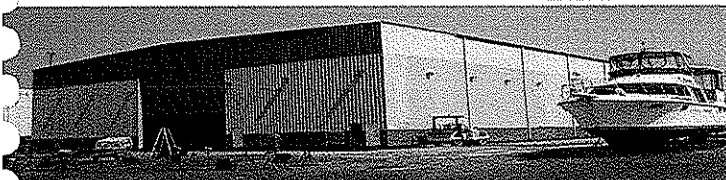
OFFICE BUILDINGS



PARKING GARAGES



ATHLETIC FACILITIES



METAL BUILDING SYSTEMS



HEALTH CARE



Allegheny

Design Services

Structural Engineering

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

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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
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Structural Engineering

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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 Engineering*

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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: 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
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 Engineering

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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:

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



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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:

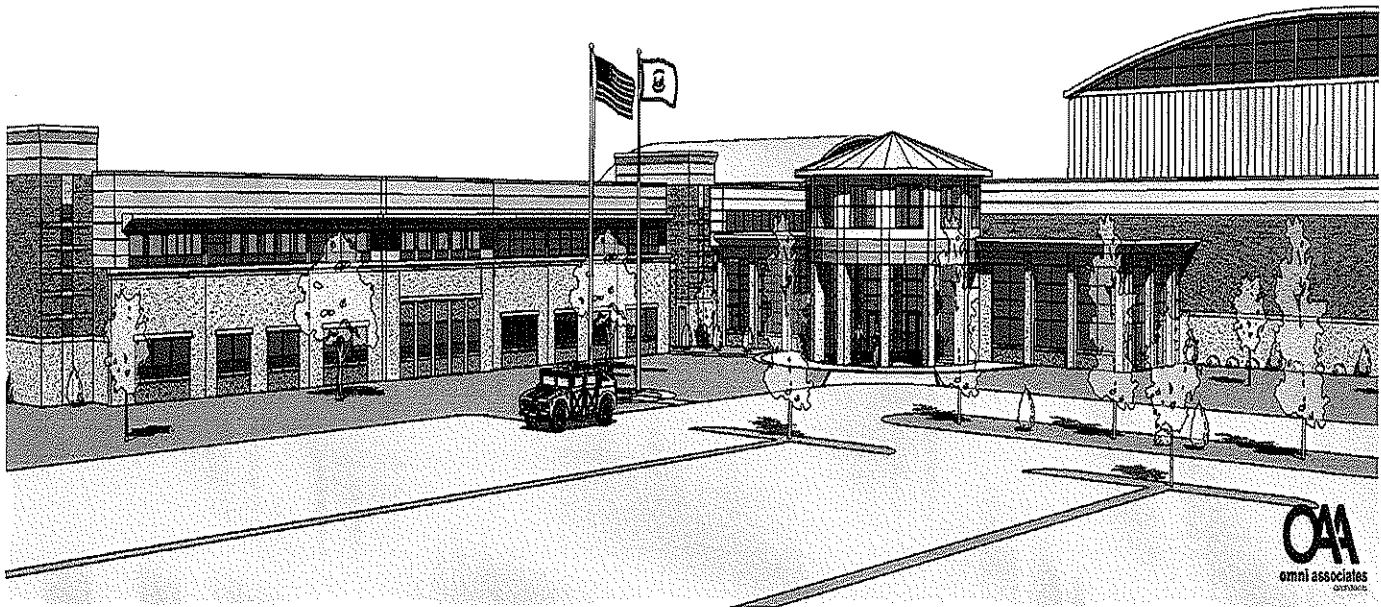
WVU Steel Design – Fall 2007
AISC Façade Attachments to Steel Frames, September 2007
ASCE Reinforced Masonry: Design and Construction, November 2007



Allegheny
Design Services
Structural Engineering

PROJECT PROFILE

Fairmont AFRC Fairmont, WV



PROJECT ARCHITECT:
STRUCTURAL ENGINEER:
CONTRACTOR:

The Omni Associates—Architects, Inc., Fairmont, WV
Allegheny Design Services, Morgantown, WV
To Be Determined

PROJECT VALUE:

\$18 Million

ESTIMATED PROJECT COMPLETION:

Under Design



Allegheny
Design Services
Structural Engineering

PROJECT PROFILE

Canaan Valley Institute Headquarters/Educational Facility Davis, WV



PROJECT ARCHITECT:
STRUCTURAL ENGINEER:
CONTRACTOR:

The Omni Associates—Architects, Fairmont, WV
Allegheny Design Services, Morgantown, WV
Manheim Corporation, Pittsburgh, PA

PROJECT SCOPE:

- Research Facilities
- Offices
- Public Service Facilities

PROJECT VALUE:

\$6.5 Million

ESTIMATED PROJECT COMPLETION:

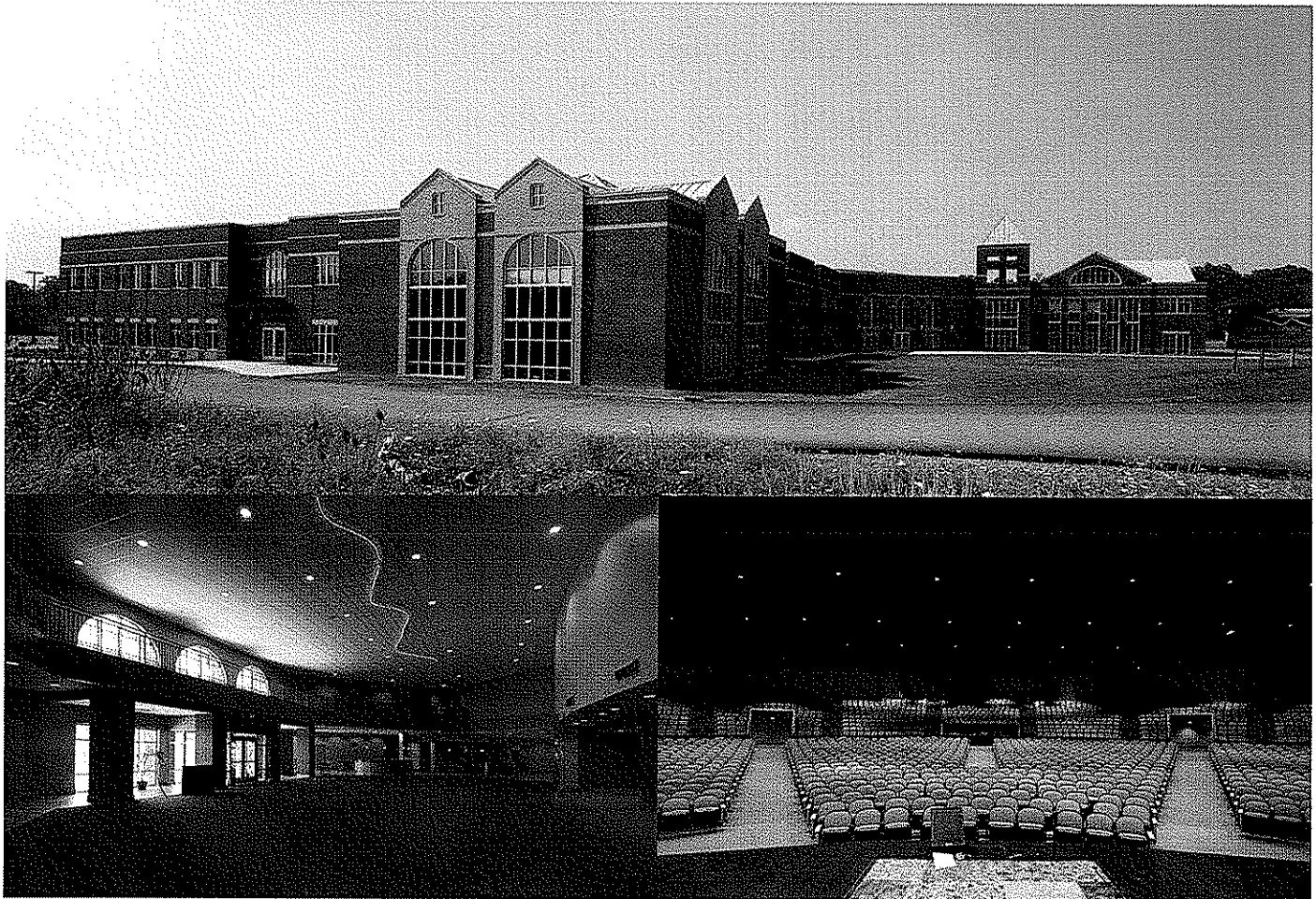
2009



Allegheny
Design Services
Structural Engineering

PROJECT PROFILE

Chestnut Ridge Community Church Morgantown, WV



PROJECT ARCHITECT:
STRUCTURAL ENGINEER:
CONTRACTOR:

Paradigm Architecture, Morgantown, WV
Allegheny Design Services, Morgantown, WV
March-Westin Company, Inc., Morgantown, WV

PROJECT SCOPE:

- Education/Gymnasium Wing
- Administrative Office Wing
- 2000 Seat Sanctuary

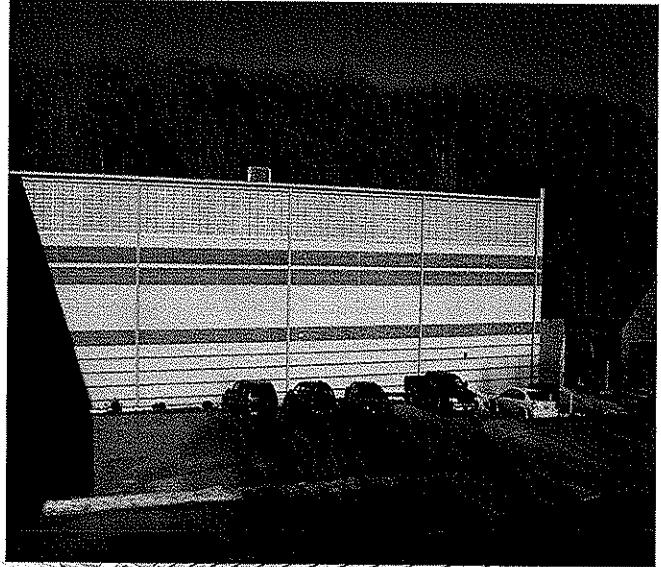
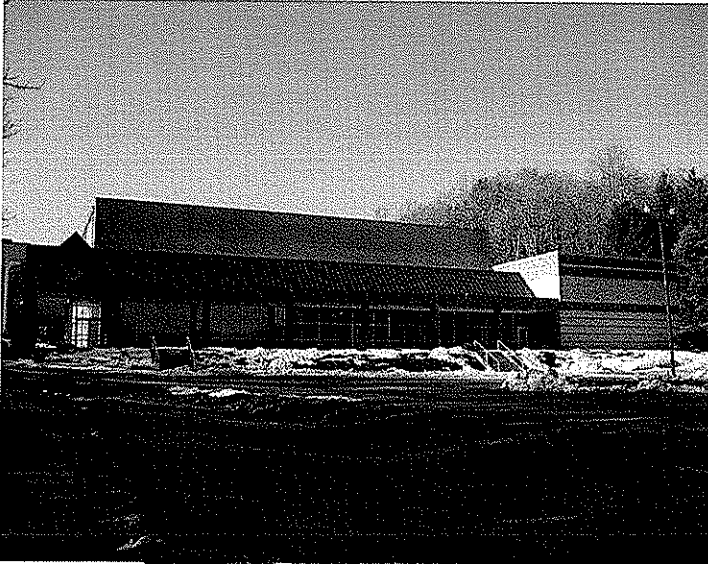
PROJECT VALUE: \$12 Million
PROJECT COMPLETION: 2006



Allegheny
Design Services
Structural Engineering

PROJECT PROFILE

Davis & Elkins College Athletic Center Elkins, WV



PROJECT ARCHITECT:
STRUCTURAL ENGINEER:
CONTRACTOR:

Paradigm Architecture, Morgantown, WV
Allegheny Design Services, Morgantown, WV
March-Westin Company, Inc., Morgantown, WV

PROJECT SCOPE:

- Gymnasium
- Offices
- Classrooms

PROJECT VALUE:

\$6 Million

PROJECT COMPLETION:

2006



Allegheny
Design Services
Structural Engineering

PROJECT PROFILE

Delaware Valley Veteran's Home Philadelphia, PA



PROJECT ARCHITECT:
STRUCTURAL ENGINEER:

GBQC Architects, Philadelphia, PA

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

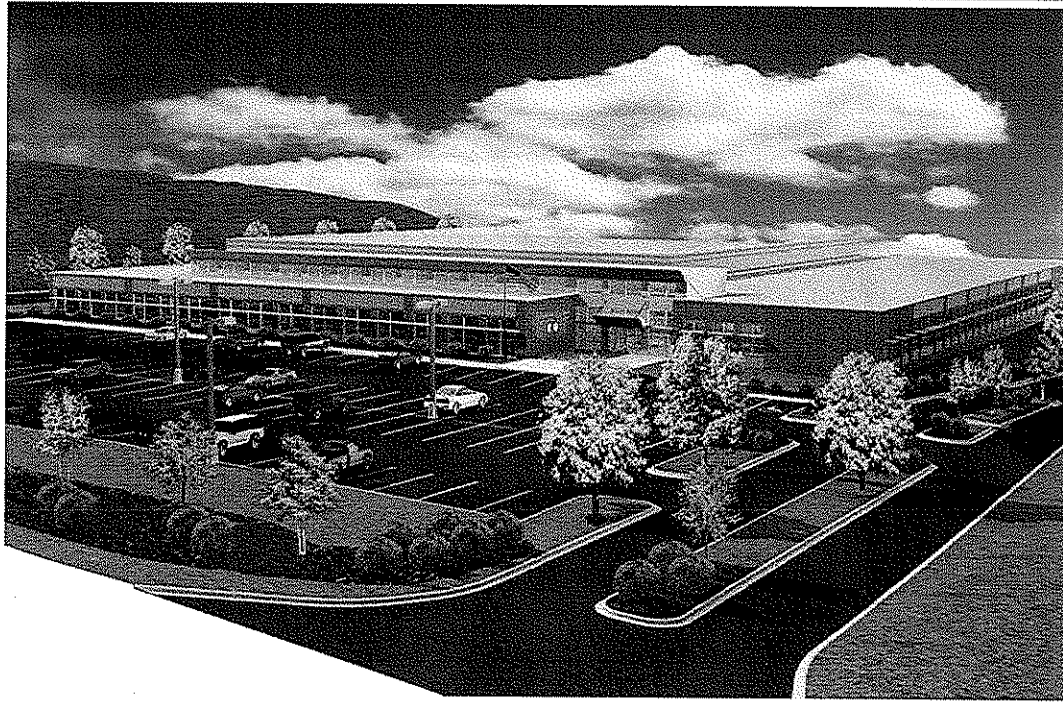
PROJECT COMPLETION: 2002



Allegheny
Design Services
Structural Engineering

PROJECT PROFILE

GSA - Department of Energy Morgantown, WV



The General Services Administrations For
The United States Department of Energy
Morgantown, West Virginia



PROJECT ARCHITECT:
STRUCTURAL ENGINEER:
CONTRACTOR:

Paradigm Architecture, Morgantown, WV
Allegheny Design Services, Morgantown, WV
DCK, Pittsburgh, PA

PROJECT SCOPE:

A new modern office and records storage building for the United States Department of Energy Office of Legacy Management. Awarded through a Design-Build Competition sponsored by the General Services Administration. This one story building includes 37,000 square feet of NARA Certified Records Storage space and additional spaces for administrative offices, receiving/processing, and meetings/research areas.

PROJECT VALUE:

\$ 8 Million (Shell)

ESTIMATED PROJECT COMPLETION:

Fall 2009

At Tower Engineering, our goal is not to just meet our clients' needs....but to exceed their expectations.

Tower Engineering has been providing innovative mechanical and electrical engineering solutions and unparalleled client service since 1931.

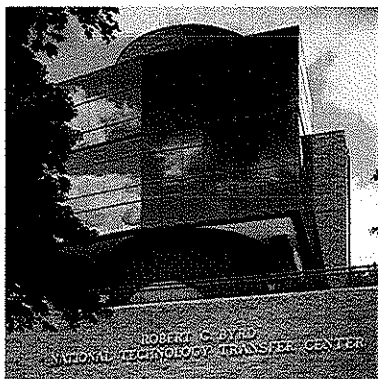
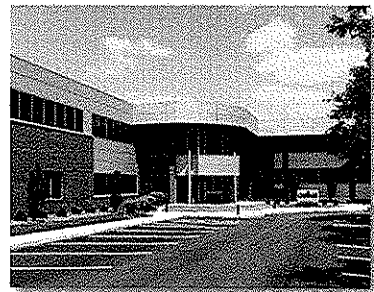
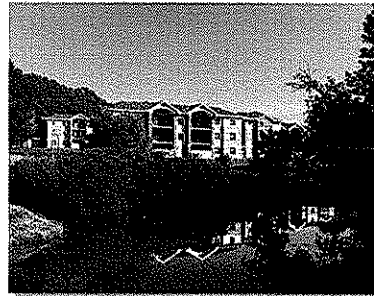
Primary markets of the firm include educational, health care, environments for the aging, and commercial renovations and new construction.

Tower Engineering's highly-trained staff of project managers, designers, and technical support personnel is capable of providing consulting services for every type of project - from a small, single-family residence to a high tech research facility incorporating redundant mechanical and electrical systems, DDC energy management and thermal storage.

Our engineers utilize state-of-the-art computer software programs for the design of lighting, electrical power and mechanical systems. Lighting analysis includes point-by-point calculations, ESI analysis, exterior lighting analysis, and life cycle cost comparisons. Electrical power analysis includes fault current and load flow analysis.

Mechanical analysis includes energy economy analysis, thermal storage analysis, heating and cooling load calculations, refrigerant piping design, water piping design, and ductwork design.

Our professional staff utilizes computer selection of air handling units, coils, pumps, terminal devices, fans, cooling towers, chillers, heat exchangers, kitchen hoods, hydronic and steam specialties, humidification equipment and heat recovery equipment.



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Tower Engineering

Specific Engineering Services

HVAC

- Heating and cooling system design
- Ventilation system design
- Building automation systems
- Control systems and energy monitoring
- Geothermal heat pumps
- Heat recovery systems
- Kitchen and laboratory exhaust systems
- Smoke evacuation systems
- Computer room environmental control systems
- Building commissioning services

Electrical

- Interior and exterior lighting design and studies
- Lighting controls
- Primary and secondary voltage power distribution systems
- Fire detection and alarm systems
- Computer data and power systems
- Uninterruptible power supply systems
- Reinforced and masking sound systems
- Lightning protection systems
- Fault current studies
- System over-current protection coordination

Telecommunications

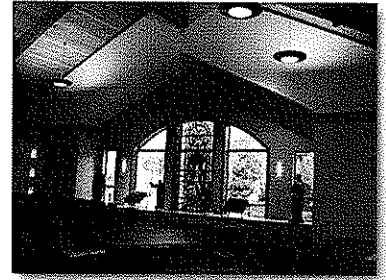
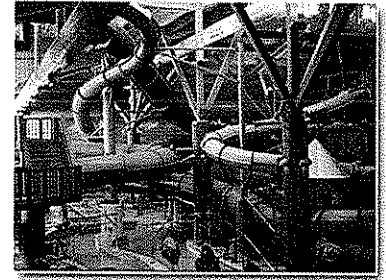
- Voice communication systems
- Data network systems

Plumbing

- Water resource efficiency analysis
- Sanitary drainage systems
- Storm water management
- Domestic water systems
- Waste water treatment systems
- Hospital and laboratory piping systems
- Fuel oil piping systems
- Irrigation systems

Fire Protection

- Standpipe and sprinkler systems
- Fire protection systems



Our Design Experience

- Agricultural & Science Buildings
- Airport Terminals & Hangers
- Athletic Facilities & Stadiums
- Auditoriums & Theaters
- Call Centers
- Classrooms
- Clean Rooms & Special Environments
- Data Centers
- Dining Halls
- Dormitory Buildings
- Environments for the Aging
- High-Rise & Low-Rise Office Buildings
- Historic Preservation & Adaptive Reuse
- Hotels/Motels
- Judicial & Courtroom Facilities
- Manufacturing & Industrial
- Movie Theaters
- Municipal Complexes

- Museums, Galleries & Libraries
- Nuclear Facilities
- Outpatient & Hospital Facilities
- Parking Garages
- Postal Facilities
- Prisons & Correctional Institutions
- Public Safety Buildings
- Recreational Facilities
- Religious Facilities
- Research/Laboratories
- Residential & Multi-Unit Housing
- Retail & Shopping Centers
- Schools
- Student Unions
- TV/Radio Stations
- Vehicle Maintenance Facilities
- Warehouses & Depots



Tower Engineering maintains full CAD capabilities utilizing AutoCAD Release 2008, which is compatible with most micro and mini based computer systems. Our AutoCAD software has been modified in-house to further enhance productivity per discipline. Firm-wide CAD standards are also in place to ensure uniformity.

Tower Engineering has a long history of providing engineering services in West Virginia. For more than five decades, educational, commercial and institutional facilities owners have depended on us to engineer mechanical and electrical systems which are effective, as well as efficient.

During the past two years alone, 34% of our project workload has been in West Virginia. Currently, Tower Engineering is providing mechanical and electrical systems engineering for boards of education in 11 counties, as well as for West Virginia University, Fairmont State University, the West Virginia Hi-Tech Consortium, Rocket Center, and Canaan Valley Institute. We recently completed projects at Glenville State College and the City of Fairmont.

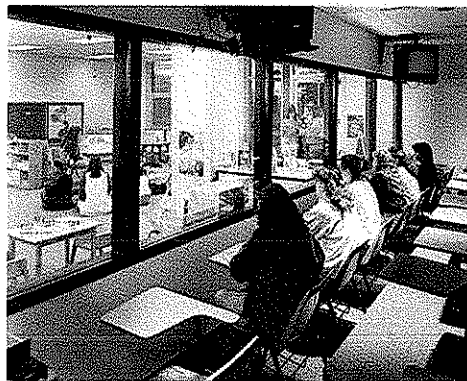


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Recent Projects in West Virginia Have Included:

- Airport Renovations
- Research/Laboratories
- K-12 Schools
- Commercial Offices
- Community Centers
- Retail Buildings
- Stadiums & Athletic Buildings
- Military Training Facilities
- Nursing Homes
- Light Industrial and Warehouses

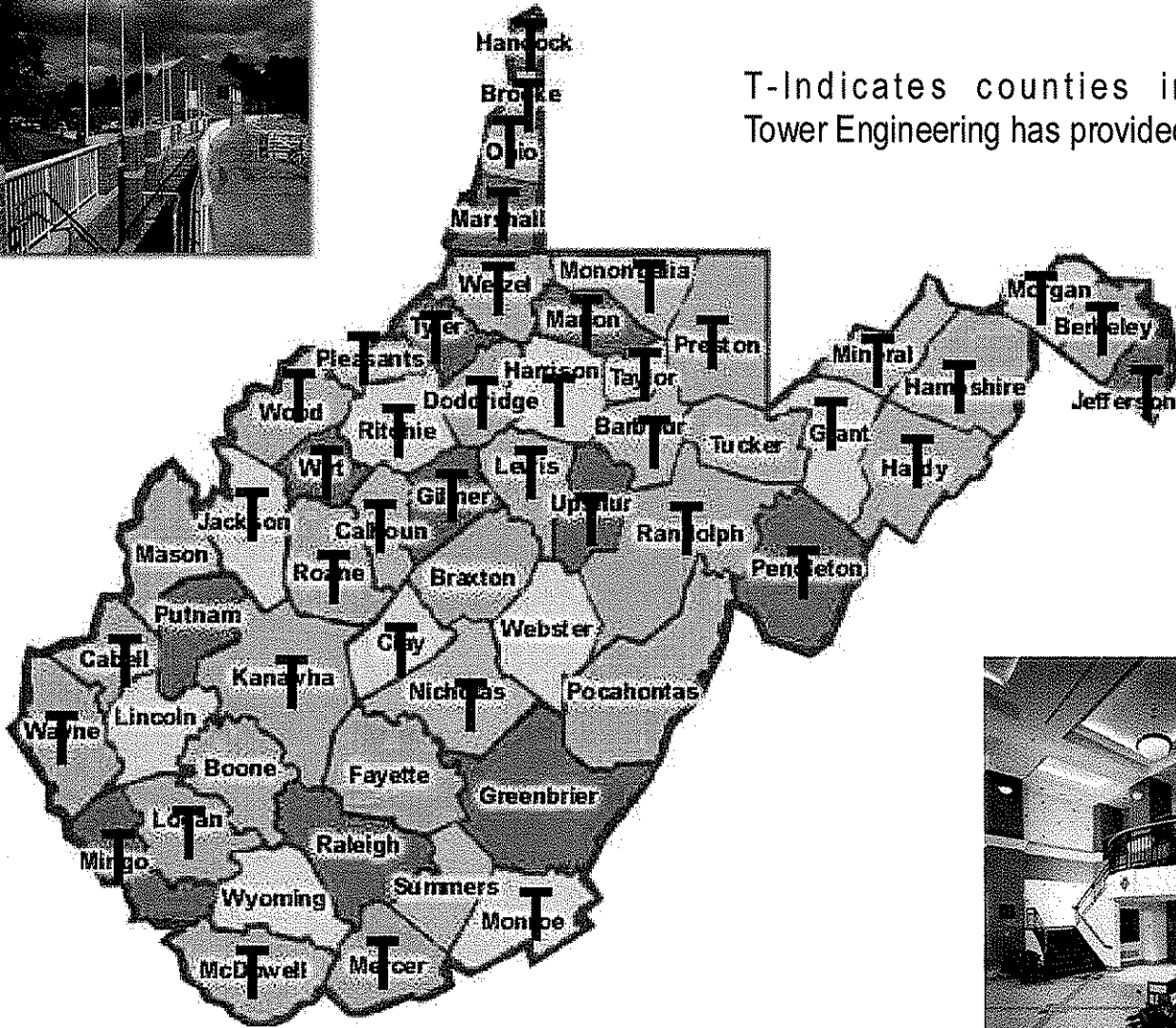


Engineering West Virginia

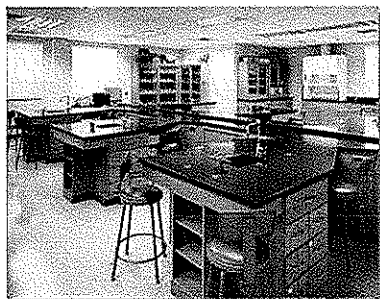
Located in Pittsburgh...But Not *Just* A Pittsburgh Firm



T-Indicates counties in which Tower Engineering has provided services.



"My grandfather kept diaries from the 1930s until his death in 1963. I've really enjoyed reading of his trips to Charleston to provide services in West Virginia. He would catch the train from Pittsburgh to Charleston and stay overnight, often meeting with multiple clients. The diaries include fascinating information about the architects he worked with....and the exciting projects he engineered."



David E. Tower
Principal, Retired



THOMAS J. GORSKI, P.E.

*Principal, President
Mechanical Engineering Department Head*

EDUCATION

BS, Mechanical Engineering
Penn State University
1982

REGISTRATION

PE, Pennsylvania
PE-040568-E

PE, West Virginia
PE-11973

PE, New York

NCEES Registration

AFFILIATION

American Society of Heating,
Refrigeration & Air Conditioning
Engineers (ASHRAE)
Pittsburgh Chapter
Past President

Mr. Gorski has twenty-six (26) years of experience as a mechanical engineer. His primary responsibilities are the design of HVAC systems and their components for schools, universities, commercial and light industrial office buildings, laboratory buildings, health care facilities and military facilities. He has designed HVAC systems including constant and variable air volume, air handling and exhaust systems; chilled water and hot water systems and steam distribution systems; electric/electronic control, pneumatic control and DDC systems.

Mr. Gorski's design responsibilities include load calculations, equipment selection and system layout, project specifications, cost estimates, direction of the project drafting effort, coordination with architectural and other engineering disciplines, and construction administration. He also performs system analysis and energy studies, maintains client contact, and supervises the engineering effort of the Mechanical Engineering groups.

REPRESENTATIVE EXPERIENCE:

Bethel Park, Pennsylvania
New Community Center

Municipality of Monroeville, Pennsylvania
New Municipal Center

Penn Township, Butler County, Pennsylvania
Penn Township Municipal Buildings Renovation/Addition

Ross Township, Pennsylvania
New Municipal Complex

Marshall Township, Pennsylvania
Municipal Building Renovation
Public Works Building Addition/Renovation

Upper Saint Clair, Pennsylvania
New Community Center

Pennsylvania Army National Guard, Connellsville, Pennsylvania
New Readiness Center

U.S. Army Reserve Center, Jane Lew, West Virginia
Readiness Center and Organizational Maintenance Shop Building

Stryker Brigade Combat Team, Cambridge Springs, Pennsylvania
Readiness Center & OMS

STEPHEN J. KISAK, P.E.

*Principal
Electrical Engineering Department Head
Senior Project Manager*

EDUCATION

Master of Business Administration
Frostburg University
1997

BS, Electrical Engineering
University of Pittsburgh
1988

REGISTRATION

PE, Pennsylvania
PE-052645-E

PE, Virginia
PE-0402-026204

An electrical designer/engineer for nineteen years, including 3 years as a high voltage electrical designer, Mr. Kisak has provided engineering services for the design of educational facilities, office buildings, college and university facilities, health care, assisted living/nursing homes, and commercial facilities. His primary responsibility is for the preparation of electrical opinions of cost, technical specifications, engineering drawings, field observation, and coordination with architectural and other engineering disciplines.

Mr. Kisak's design responsibilities including lighting layout and fixture selection, including calculations and system coordination studies and calculations; computer rooms and associated support facilities; fire alarm and detection systems; emergency power, public address, audio-visual, security and closed circuit television systems. Additional responsibilities include client contact, field observation, and project management.

REPRESENTATIVE EXPERIENCE

Pennsylvania Army National Guard, Connellsville, Pennsylvania
New Readiness Center

Stryker Brigade Combat Team, Cambridge Springs, Pennsylvania
Readiness Center & OMS

VA Pittsburgh Medical Center, Pittsburgh, Pennsylvania
Inpatient Pharmacy Renovation
IMRT and IMRT2 Renovations
New Parking Garage
Radiology Dept Offices
Parking Garage New Substation

MSA, Tarentum, PA
New Electrical Service for Data Center Expansion

MICHAEL S. PLUMMER, P.E., C.I.P.E.

Firm Associate

Plumbing & Fire Protection Engineering Department Head

EDUCATION

Bachelor Mechanical Engineering
Penn State University
1997

REGISTRATION

PE, Pennsylvania
PE-062304, 2003

Certified in Plumbing
Engineering (CIPE), 1998

With eleven (11) years of experience as a mechanical designer/engineer, Mr. Plummer is primarily responsible for the design of plumbing and fire protection systems and their components for educational, governmental, and commercial buildings.

Mr. Plummer's plumbing/fire protection design responsibilities include performing calculations for hydraulically designed sprinkler systems; designing water supply and pumping systems including fire mains and sizing of fire pumps; design/testing of fire protection and alarm systems; and design of plumbing sewage, gas and water systems. In addition to plumbing/fire protection systems, Mr. Plummer is an experienced HVAC system designer, and performs load calculations, equipment selection and systems layout. His duties include preparation of project specifications, cost estimates, project management, and coordination with architectural and other engineering disciplines.

Mr. Plummer also performs construction administration duties including review of submittals, preparation of punch lists, and field problem solving, as well as supervising the engineering efforts of the Plumbing/Fire Protection Department.

REPRESENTATIVE EXPERIENCE

Canaan Valley Institute, Davis, West Virginia
Headquarters/Educational Building (Design/Build)

City of Fairmont, Fairmont, West Virginia
Public Safety Building

Pennsylvania Army National Guard, Connellsville, Pennsylvania
New Readiness Center

Stryker Brigade Combat Team, Cambridge Springs, Pennsylvania
Readiness Center & OMS

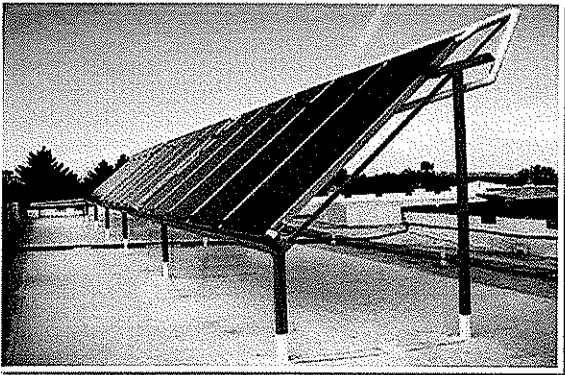
West Virginia High Technology Consortium, Fairmont, West Virginia
Base Building & Tenant Fitup for \$13 Million Office Building Complex

VA Pittsburgh Medical Center, Pittsburgh, Pennsylvania
Radiology Department Offices

Working together with our clients, Tower Engineering takes great pride in implementing environmentally conscious solutions to building issues. To sustain our environment, we design building systems that use material, energy and water resources efficiently, minimize site impacts and address health issues relating to the indoor environment.

Over the last decade, various groups have worked to develop strategies to promote and facilitate the design of sustainable, high performance buildings. One such organization, The **U.S. Green Building Council**, has created a nationally recognized certification process for evaluating sustainable and high performance buildings, a program called "**Leadership in Energy and Environmental Design**," commonly known by its acronym "**LEED**". In addition to being a member of the U.S. Green Building Council (USGBC), Tower Engineering's staff includes LEED accredited professionals.

The LEED certification process rates the levels of sustainability achieved in a building: LEED Certified, LEED Silver, LEED Gold, and the highest rating, LEED platinum. Awards are based upon achieving "sustainability points" in the areas of Site, Water, Energy & Atmosphere, Materials and Resources, Indoor Environmental Quality, and Innovation & Design Process.



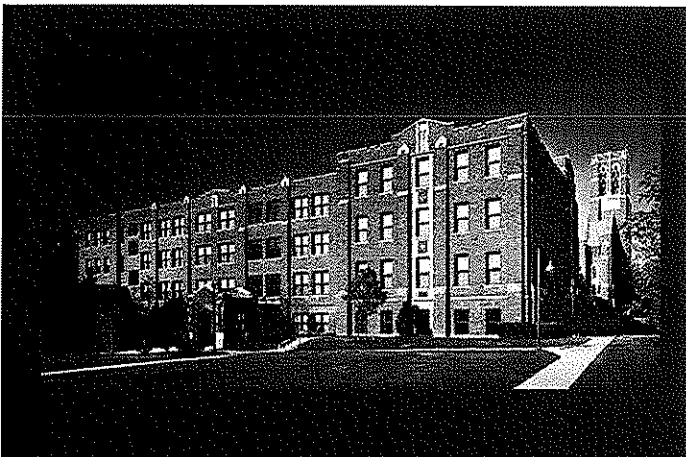
Our LEED design experience includes the Felician Sister's Motherhouse (left) which received a Gold rating and J.S. Wilson Middle school (below left) which was designed to a LEED Silver rating and included such sustainable features as geothermal heating and cooling.



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LEED™ Rated Design



Felician Sisters' Motherhouse Coraopolis, Pennsylvania

- Super-high efficiency modular boilers to maintain 60 degrees F low-end water temperature.
- Carefully sized individual heat pumps to provide adequate compressor runtimes to ensure summer dehumidification and cooling without short cycling.
- Specification of premium efficient motors for pumps and larger RTU fans.
- Specification of Ventilation Heat Pump Rooftop Units with factory-installed energy recovery sections.
- Utilization of carbon dioxide sensors to reduce outside air quantities in multi-use spaces when not fully occupied.
- Specification of fully automated temperature controls system to provide computerized monitoring and control of mechanical equipment for maximum energy savings and systems optimization.
- Engineered lighting levels to exceed ASHRAE 90.1-1999 using the most efficient lamp and fixture combinations.

***The Project Team has achieved a
LEED™ Gold rating.***

LEED Project Experience:

- Felician Sisters Motherhouse (Gold)
- Three Rivers Rowing Association Boat Storage & Maintenance Building (Certified)
- Carnegie Mellon University Henderson House Renovations (Silver)
- Carnegie Mellon University Posner Conference Center Rare Books Room (Certified)
- Pittsburgh Children's Museum Renovation & Expansion (Silver)
- Regional Learning Alliance at Cranberry Woods (Silver)
- Berkeley County Board of Education New Spring Mills Primary School (Silver)
- Canaan Valley Institute New Headquarters/Education Building (Certified)
- Department of Energy Morgantown Record Storage (Gold)

The following projects were designed in accordance with the LEED rating system, but ultimately did not pursue a LEED certification:

- Millcreek School District J.S. Wilson Middle
- Corry School District New Elementary School
- Holy Sepulcher Parish New Church
- National Guard Stryker Center
- North Hills School District McIntyre & Highcliff Elementary Schools
- Pine Richland School District New Upper Elementary School
- Pine Township Recreation Center
- Pittsburgh Children's Home
- Sisters of St. Joseph New Office Building
- Southwest Butler County YMCA (Cranberry)
- Upper St. Clair Community Center
- Watson Institute, Craig Academy

Tower Engineering has provided mechanical and electrical consulting engineering services for numerous Government-owned facilities. With seven decades of experience, our firm knows the importance of meeting the client's needs without exceeding the project's budget.

Thoroughly familiar with current government and military standards, our firm has provided engineering services for the following government-owned facilities:

Federal Government

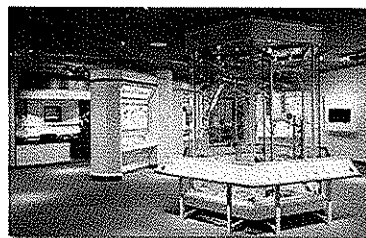
William S. Moorhead Federal Office Building, PA
Department of Labor Job Corps Center, PA
Butler VA Hospital, PA
Department of Labor Job Corps Medical Center, PA.
Army Corps of Engineers Lab, PA
Army Corps of Engineers Neville Island, PA
National Guard Readiness Center Connellsville, PA
National Guard Stryker Center Cambridge Springs, PA
National Guard Fairmont Readiness Center, WV
Army Reserve Center Jane Lew, WV
Army Reserve Center Clarksburg, WV
IRS Liberty Center Tenant Fitup, PA
INS Application Support Center, PA
VA Medical Center Pittsburgh, PA (multiple)
Department of Energy Records Storage, WV
Department of Agriculture Lab, PA
National Geospace Agency St. Louis, MO



New Fairmont, WV Parking Garage



Mt. Lebanon, PA Transportation Center



PA Capitol Welcome Center

State Government

State Police Building, PA
Capitol Building Welcome Center, PA
Tygart Lake State Park Lodge Addition, WV
Twin Falls Resort State Park Addition, WV
DER Regional Offices, PA
DER Lab Renovation, PA
Ebensburg Center HVAC Renovation, PA
Buckingham Protection Custody Facility, PA
HRS Computer Room, PA
Capitol Science & Cultural Center, WV
Scotland School for Veterans Children, PA



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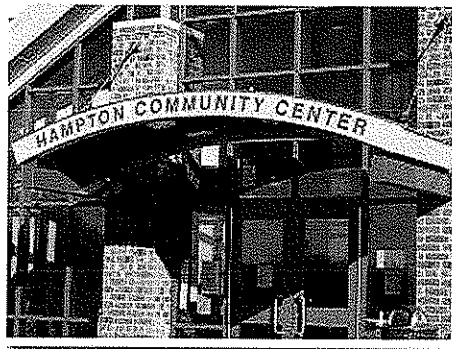
Government-Owned Facilities

Local Government

Allegheny County Housing Authority, PA
Beaver County Courthouse & Annex, PA
Beaver County Ice Arena Renovations, PA
Bellevue Borough Building Study, PA
Bethel Park Community Center, PA
Cambridge Springs Library, PA
Cambridge Water Treatment Plant, OH
City County Building Pittsburgh, PA
City Hall Pittsburgh PA
City of Pittsburgh Swimming Pools, PA
City of Pittsburgh EOC 911, PA
City of Pittsburgh Warehouse, PA
Public Auditorium Authority Civic Arena, PA)
Cranberry Township Municipal Complex, PA
Dormont Pool Complex Feasibility Study, PA
Eighth Avenue Streetscape Phase IV, PA
Erie Senior Citizen's Center, PA
Erie Veteran's Stadium Renovation, PA
Fairmont Parking Garage, WV
Fairmont Public Safety Building, WV
Field Avenue Recreation Park, PA
Franklin Park Municipal Building, PA
Franklin Township Sanitation Authority, PA
Freeport Borough Building, PA
Greater Pittsburgh International Airport, PA
Green Tree Municipal Building, PA
Greensburg County Building, PA
Hampton Township Master Planning, PA
Housing Authority of the City of Pittsburgh, PA
Kennedy Township Park, PA
Louis J. Tullio Convention Center Erie, PA
McCandless Municipal Building, PA
Monroeville Municipal Building, PA
Moon Township Water Authority, PA
Mt. Lebanon Parking Garage, PA
New Stanton Water Treatment, PA
Penn Hills Recreation Center, PA
Penn Township Civic Center, PA
Penn Township Municipal Complex, PA
Pittsburgh Parking Authority, PA
Ross Township Municipal Complex, PA
South Park Municipal Buildings, PA
South Strabane Township Municipal Building, PA
Stowe Senior Citizens' Center, PA
Three Rivers Stadium Renovations, PA
Vanport Municipal Authority, PA
Western Ave. Streetscape Improvements, PA
Westmoreland County Housing Authority, PA

United States Postal Service

McKnight Road, Pittsburgh, PA
Clairton, PA
Monongahela, PA
Northside, Pittsburgh, PA
Grant Street, Pittsburgh, PA
Rochester, PA
Bulk Mail Handling Facility, Pittsburgh, PA
Open Ended Services Agreement, PA and WV



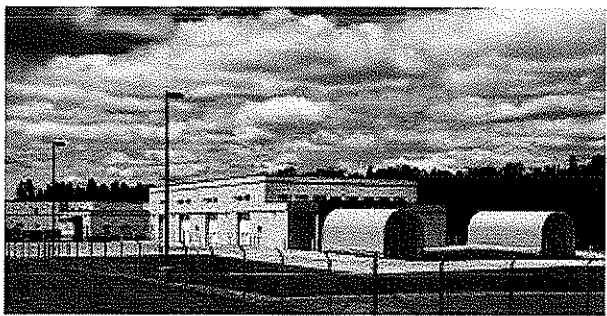
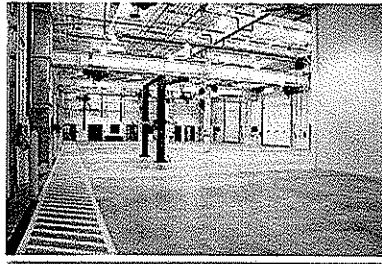
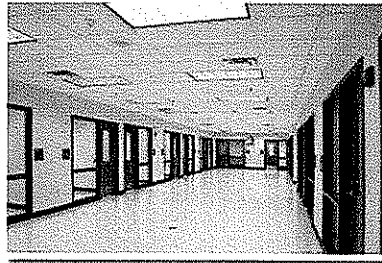
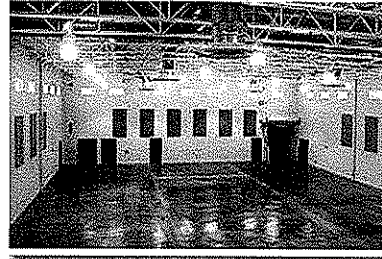
Project Example

Pennsylvania Army National Guard
Stryker Brigade Combat Team
Readiness Center & OMS
Cambridge Springs, Pennsylvania

Tower Engineering provided engineering services for the design/build of a new 69,900 s.f. Readiness Center and 19,800 s.f. Organizational Maintenance Shop (OMS) for the Stryker Brigade Combat Team. These facilities will provide spaces for training and housing of troops, as well as storage and maintenance of military vehicles and equipment. The center was constructed to replace outdated armories in Erie, Corry and Meadville.

Sustainable design features were included in the design and construction of these facilities, with a goal of a SPiRiT rating of Gold. Design requirements included Anti-Terrorism/Force Protection (AT/FP).

Construction costs were \$19.6 million. This project was completed in 2008.



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Facilities for the Armed Forces

Project Example

West Virginia Army National Guard
Armed Forces Reserve Center
Fairmont, West Virginia

Tower Engineering is currently providing engineering services for the construction of a new \$22 million multipurpose facility to be located in East Fairmont. At 65,000 s.f., the facility will feature an assembly hall, classroom and distance learning center. Other major components include a kitchen/dining area, toilets/showers, administrative, training and storage spaces, and vehicle maintenance.

The project also includes a new multipurpose center that will also serve the city and county as a special events and convention facility.

This project is currently in design.



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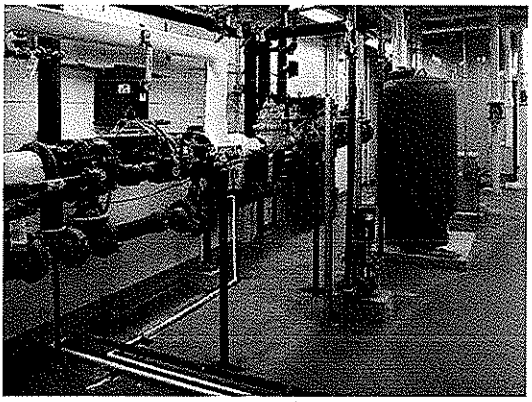
Facilities for the Armed Forces

Project Example

Pennsylvania National Guard Readiness Center
Connellsville, Pennsylvania



Tower Engineering recently provided mechanical/electrical engineering services for construction of a new 23,017 square foot armory at the Pennsylvania National Guard Readiness Center in Connellsville, Pennsylvania. This specially designed facility of permanent masonry type construction is constructed of brick and concrete block units with concrete floors, and a metal standing seam roof, including a one-story structure with mechanical and electrical equipment. The building contains offices, drill hall, classrooms, locker rooms, kitchen, toilets, storage, arms vault, Abrams Full-Crew Interactive Simulation Training ALIST Simulation Room, and maintenance training workbays. Cost effective energy conserving features were incorporated into the design, including energy management control systems and high efficiency motors, lighting, and HVAC systems. Construction of this new Armory was completed in 2005. Total construction costs were \$4.1million; mechanical/electrical construction costs were \$1.1 million



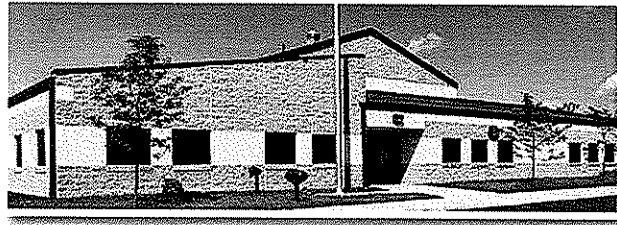
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Facilities for the Armed Forces

Project Example

U.S. Army Reserve Centers
Jane Lew, West Virginia and
Clarksburg, West Virginia



Tower Engineering provided engineering services for the U.S. Army Reserve Training Center in Jane Lew, West Virginia. The Center provides a suitable facility for weekend and other intermittent training exercises of the Army Reserve. At 7,400 square feet, the facility includes offices, a large Assembly area, a full service Kitchen, Arms Storage, and supporting storage and mechanical areas.

A separate Organizational Maintenance Shop Building (OMS) provides an enclosed garage area for maintenance operations on the various vehicles, an office, and tools and parts storage.

Tower Engineering also provided mechanical and electrical consulting engineering services for the construction of an 16,120 s.f. Training Building and 10,168 s.f. Organizational Maintenance Shop at the U.S. Army Reserve Center in Clarksburg, West Virginia.

These facilities, as well as the buildings at Jane Lew, West Virginia, were designed in accordance with the U.S. Army Corps of Engineers' "Architectural and Engineering Instructions, Design Criteria."



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Facilities for the Armed Forces