

**West Virginia Army National Guard  
Expansion of Building & Hangar Space  
of the  
Current Fixed Wing Army Aviation Training Site  
Bridgeport, West Virginia**

**Sealed Bid  
Buyer: 32  
RFQ NO: DEFK11009**

**August 17, 2010  
1:30 pm**

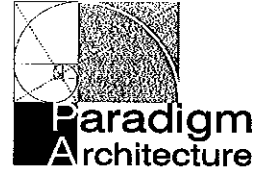
**Expression of Interest  
Architectural and Engineering Services**

RECEIVED

2010 AUG 17 AM 10:15

WV PURCHASING  
DIVISION

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16 August 2010

Purchasing Division  
2019 Washington Street, East  
Charleston, West Virginia 25305-0130

RE: EOI for the West Virginia Army National Guard, Expansion of the Building & Hangar Space of the Current Fixed Wing Army Aviation Training Site, Bridgeport, West Virginia

To Whom It May Concern:

**Paradigm Architecture Inc.** is pleased to submit this Expression of Interest for the Expansion of the Building & Hangar Space of the Current Fixed Wing Army Aviation Training Site, Bridgeport, West Virginia. We have assembled a team of West Virginia-based professionals with appropriate project experience and ability to complete these projects.

We have successfully completed multiple government projects at federal, state, and local levels. Examples include recently completed office buildings for the **U. S. Department of Agriculture** and the **U. S. Department of Energy** in Morgantown, WV, both of which are **LEED** Certified. In addition, our staff also completed the **Charleston Federal Center** and the **Clarksburg Federal Center**, both of which received Excellence on Construction Awards from the Associated Builders and Contractors while employed at other firms. We have many active projects and strong client relationships as demonstrated by our repeat business with the **Waterfront Development** and **West Virginia University** in Morgantown, **Fairmont State University** in Fairmont, **Davis and Elkins College** in Elkins, and **Glade Springs Resort** in Daniels.

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, Mechanical, Electrical, and Plumbing Engineering services. KCI has extensive experience with Andrews Air Force Base in Baltimore, Maryland. **Allegheny Design Services** will provide Structural 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, construction and contract documents, bidding/negotiation, 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,

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  
**DEFK11009**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**BUYER 32**  
**304-558-2544**

RFQ COPY

TYPE NAME/ADDRESS HERE

RFQ COPY

**DIV ENGINEERING & FACILITIES**  
**ARMORY BOARD SECTION**

**1707 COONSKIN DRIVE**  
**CHARLESTON, WV**  
**25311-1099 304-341-6368**

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
07/21/2010				

BID OPENING DATE: **08/17/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-29		
<p><b>ARCHITECTURAL DESIGN SERVICES</b></p> <p><b>EXPRESSION OF INTEREST</b></p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA ARMY NATIONAL GUARD'S DIVISION OF ENGINEERING &amp; FACILITIES, IS SOLICITING EXPRESSIONS OF INTEREST FOR ARCHITECTURAL DESIGN SERVICES FOR THE EXPANSION OF THE BUILDING AND HANGER SPACE OF THE CURRENT FIXED WING ARMY AVIATION TRAINING SITE IN BRIDGEPORT, WV, PER THE FOLLOWING BID REQUIRMENTS AND THE ATTACHED SPECIFICAITONS.</p> <p><b>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</b></p> <p>***** THIS IS THE END OF RFQ DEFK11009 ***** TOTAL: _____</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE 	TELEPHONE 304.284.5015	DATE August 16, 2010
TITLE President	FBN 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**

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

**DEFINITIONS:**

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

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

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

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

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: Paradigm Architecture, Inc.

Authorized Signature: *[Signature]* Date: August 16, 2010

State of West Virginia

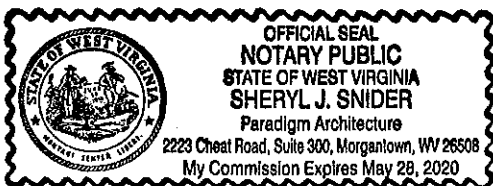
County of Monongalia, to-wit:

Taken, subscribed, and sworn to before me this 16<sup>th</sup> day of August, 2010.

My Commission expires May 28, 2010.

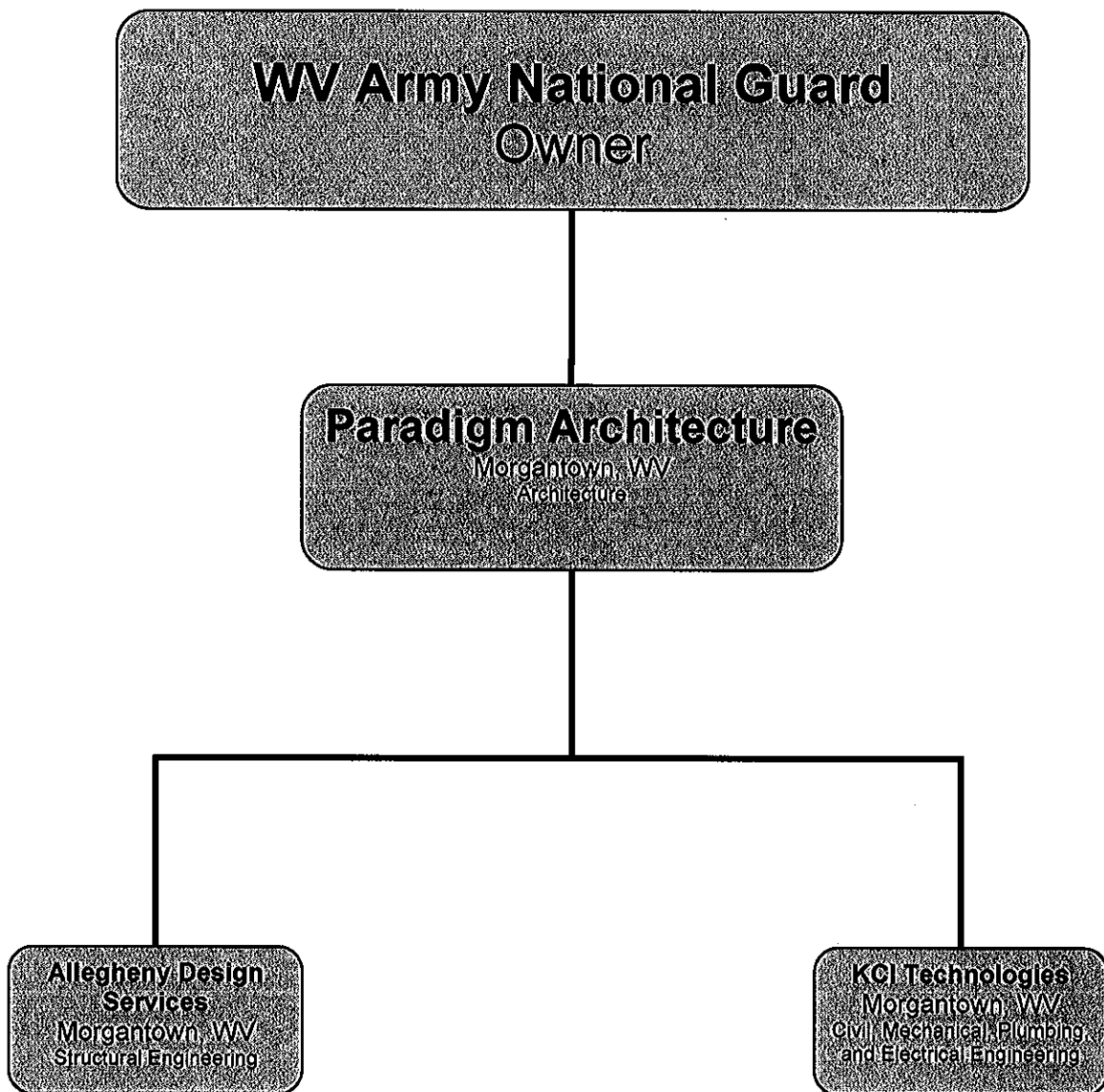
**AFFIX SEAL HERE**

**NOTARY PUBLIC** *[Signature]*

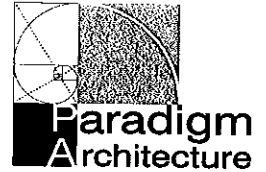


**WV Army National Guard  
Expansion of the Building & Hangar Space  
of the  
Current Fixed Wing Army Aviation Training Site  
Architectural and Engineering Services**

**Organizational Chart of Proposed Team**



## 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:

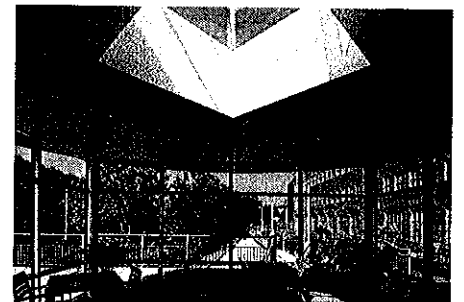
This represents our highest ideals...  
that our architecture would serve as an example  
that our client service would serve as an example  
that our service to our God would serve as an example.

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, 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.

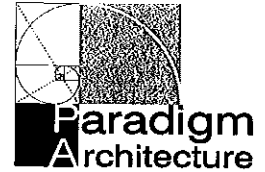


*Waterfront Marina*



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

# 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.

### Governmental

Members of Paradigm have been involved in various government projects at the Federal, State, and Local levels. Federal Clients include the GSA, Social Security Administration, Federal Bureau of Investigation, Drug Enforcement Agency, Small Business Administration, Mine Safety and Health Administration, USDA, and DOE. These projects range from new construction for new buildings to tenant fitups in shell buildings. State and local agencies include Department of Natural Resources, multiple higher education clients, Morgantown Chamber of Commerce, and Trussville City Hall.

### Educational

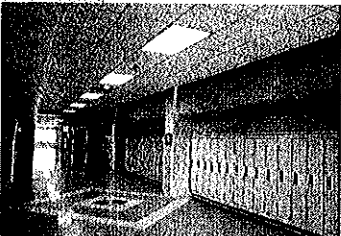
Educational experience includes administrative office space, parking facilities, student housing, libraries, student centers, athletic facilities, master planning, classrooms, and research laboratory facilities. We have worked on campuses that include: West Virginia University, Fairmont State University, 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.

### Corporate

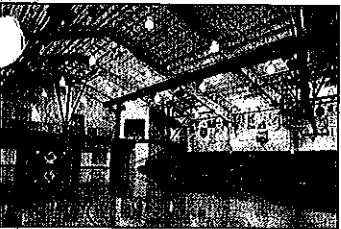
Paradigm has designed entire office buildings as well as tenant fit-up spaces for clients such as Jackson Kelly, PLLC; A.G. Edwards; Acordia; Petroplus & Associates Inc.; National Biometric Security Project; Simpson & Osborne; DMJM Harris; Spillman, Thomas, Battle; Booz Allen Hamilton; and the West Virginia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



Trinity Christian School



Trinity Christian School



Trinity Christian School

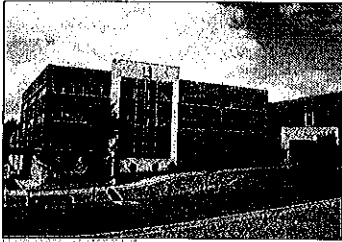


Trinity Christian School

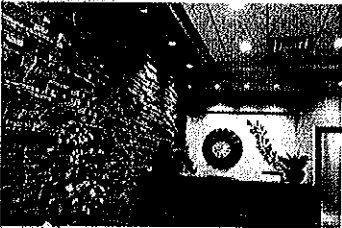
Para-digm - (pär'e-dīm') n. An example that serves as pattern or model.



# Firm Profile



Russell Medical Center



Glenmark Office Building

## Institutional

Medical and retirement life care projects dominate our staff's institutional portfolio. Medical projects include master planning, 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.

## Residential

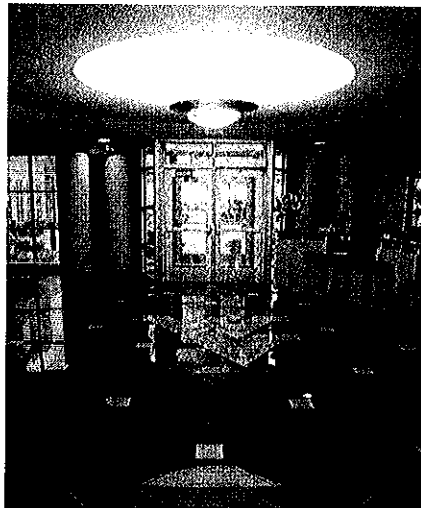
Paradigm's residential experience spans a variety of client types. Student Housing/dormitory facilities for higher education, hotel projects, elderly housing, and private residential that includes single family homes, townhouses, and high end condominium units.

## Food Service

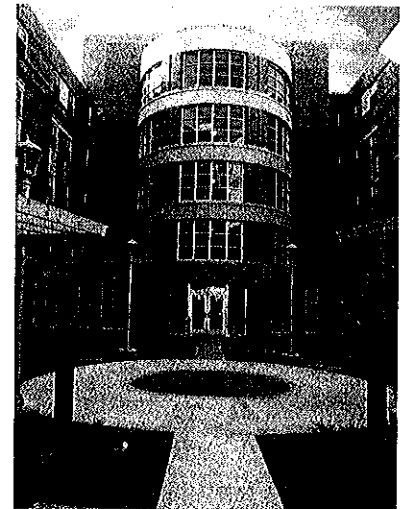
We have been privileged to design many Food Service facilities. These include many private restaurants as well as large, full service commercial catering kitchens and banquet facilities accommodating up to 1,500 guests at a time. Examples of these facilities include Two Waterfront Place Hotel and Conference Center, Morgantown Event Center, Regatta Bar and Grille, Rat Pack Lounge, Boathouse Bistro, Sargasso Restaurant, Trussville Family Center, Mountaintop Community Church's Family Life Center, and Shono's Restaurant. In addition, we are currently designing additions and renovations to Cacapon Resort, which includes updating the existing commercial kitchen and dining facilities.

## Master Planning

Paradigm Architecture has successfully completed master planning for the Waterfront Development and Trinity Christian School, in Morgantown, Avery Court in Parkersburg, and Glade Springs Resort, in Daniels. In addition, we have performed master planning for Asian Plaza in Birmingham, AL, and are about to begin updating the master plan for Russell Medical Center in Alexander City, AL, as well as the West Virginia School of Osteopathic Medicine in Lewisburg, WV.

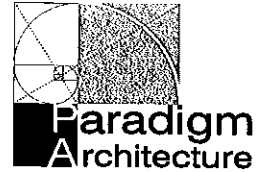


WVU  
Downtown  
Student  
Housing



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

# Sustainable Design



## LEED / Green Building

Today, everyone is concerned with energy conservation, life cycle analysis, and green building techniques; and Paradigm Architecture is no different. We have completed two projects that are or will be LEED Certified.

U.S. Department of Energy Office of Legacy Management, Morgantown, WV  
**LEED Gold Certified — Core & Shell**  
**LEED Gold Certified — Commercial Interiors**

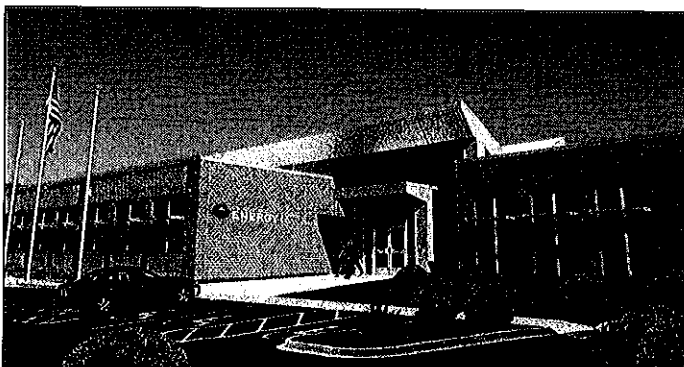
U.S. Department of Agriculture Office Building, Morgantown, WV  
**LEED Certified**



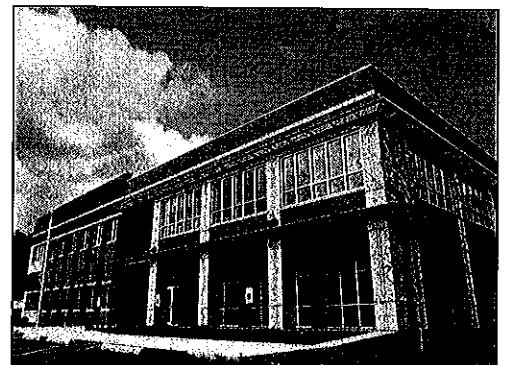
These projects have incorporated sustainable design elements in all elements of construction such as white roofs, energy efficient building envelopes, non irrigated landscaping, on site bio filtration systems, use of local and regional materials, indoor air quality, enhanced commissioning, building automation controls, occupancy sensors, energy recovery systems, and energy efficient mechanical systems, energy modeling, low flow plumbing fixtures, sunshades, and daylighting.

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. An example of this includes the Morgantown Event Center and Garage. Although it was originally designed for LEED Certification, the Owner decided not to pursue. As a method of organization, we will utilize the LEED Checklist, even though the Owner does not want to pursue certification.

We have one LEED Accredited Professional on staff and others who are pursuing 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.

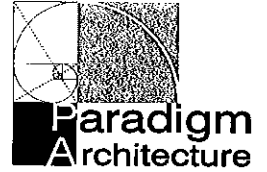


*U.S. Department of Energy*



*U.S. Department of Agriculture*

# Honors & Awards



## **Excellence in Construction by the Associated Builders & Contractors, Inc.**

2007 – Waterfront Marina, Morgantown, WV

2007 – Chestnut Ridge Church, Morgantown, WV

2004 – Madden Student Center at Davis and Elkins College, WV

2004 – Two Waterfront Place Hotel and Conference Center, Morgantown, WV

2003 – The Jackson Kelly Building, Morgantown, WV

### **Main Street Morgantown**

2008 – Best New Construction Award, Marina Tower, Morgantown, WV

2008 – Best New Office Award, Spilman Thomas Battle, Morgantown, WV

### **Alabama Masonry Institute**

2004 – The Top Block Award for

Russell Professional Office Building III, Alexander City, AL

### **Pittsburgh Corning Glass Block**

2004 – The Circle of Design Excellence Award for  
Lightning Strikes Family Fun Center, Trussville, AL

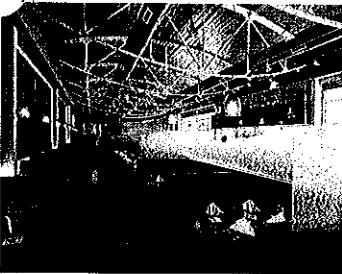
### **West Virginia American Institute of Architects**

2010 – Honor Award – Upper Monongahela River Center,  
Morgantown, WV

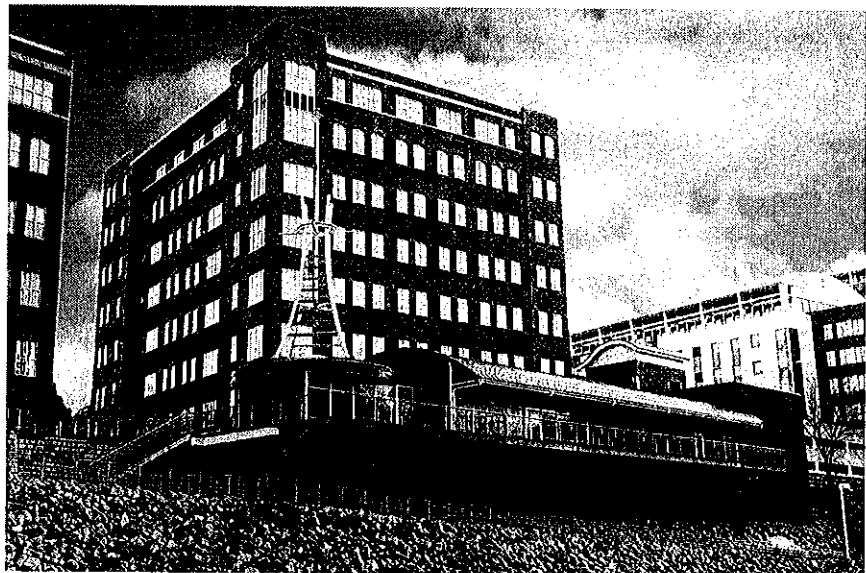
2010 – Merit Award – West Virginia University Transportation Center and Garage,  
Morgantown, WV



*WVU Transportation Center  
& Garage*



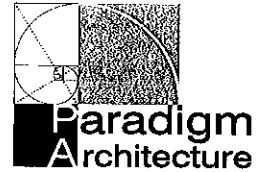
*Upper Monongahela  
River Center*



*Upper  
Monongahela  
River  
Center*

**Paradigm - (pă-r'e-dīm') n. An example that serves as pattern or model.**

# Customer Relationships & Quality Assurance



Paradigm Architecture prides itself on providing excellent client service. When asked one time whether Paradigm Architecture was primarily a Design Firm or a Technical Firm, the response was simply "We are a Client Service Firm." Our portfolio of projects exemplifies this as a quick review shows that the majority of our work comes from repeat clients. We are known for providing fast, local response as well as personal attention to each and every project, no matter how large or how small. The following pages are brief summaries of techniques used to maintain these valuable relationships.



*Glade Springs Resort*

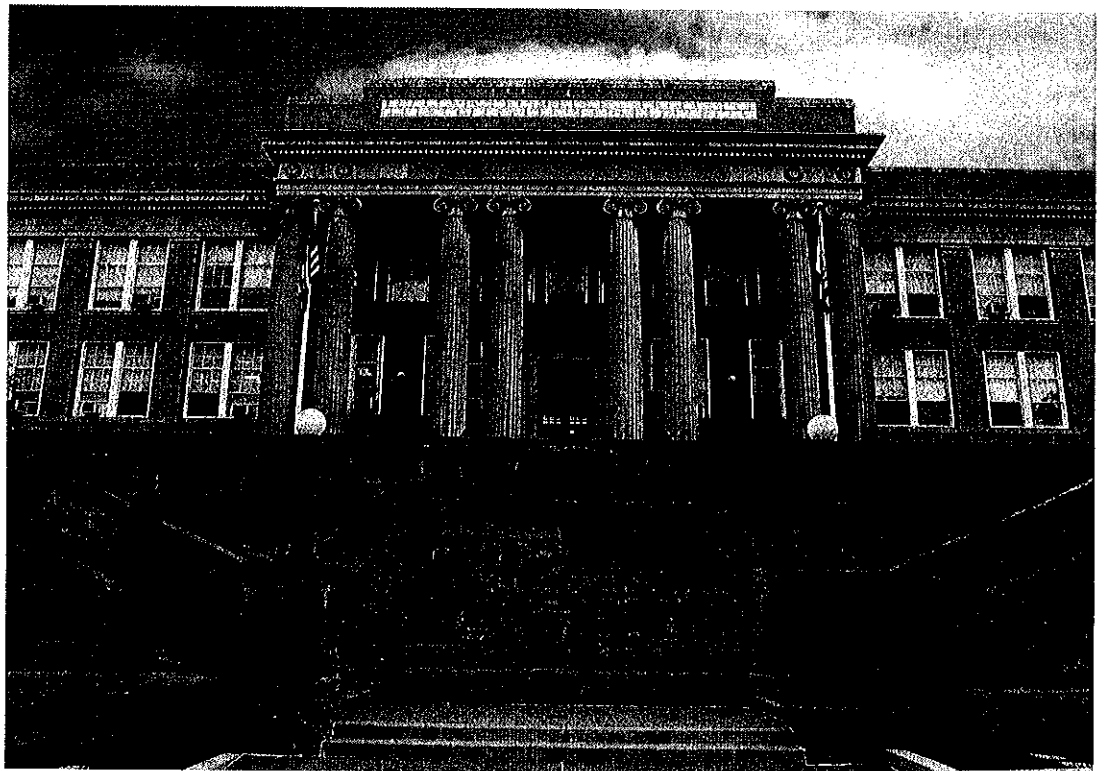


*Chestnut Ridge Church*

## Project Management

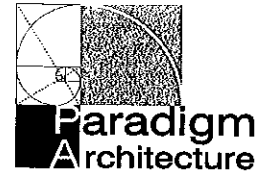
Every project will be assigned a Project Manager who is a licensed Architect with appropriate project type experience. This project manager will be assigned to the project from conception to project closeout and will be the client's primary point of contact for the entire design team. Communication is of utmost importance for any project to be successful and a workflow of communication, including identifying key individuals' responsibilities and authorities will be established at the onset of the project. Unlike most design teams, we feel that it is important for the Owner to have direct contact with the consultants on the design team. There will be scheduled meetings throughout the duration of the project where the Owner will have the opportunity to be directly involved with all aspects of the project's design. These meetings will range from design charettes to interviews with maintenance staff to feedback meetings at the conclusion of design phases.

*Fairmont  
State  
University  
Hardaway  
Hall*



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

# Customer Relationships & Quality Assurance

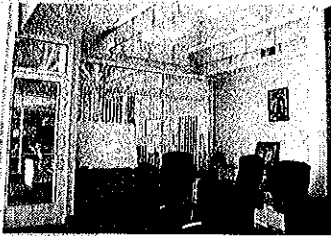


## Construction Contract Administration

In addition to the Project Manager, a Construction Contract Administrator will be assigned to each project. This individual will have extensive experience with the Client's established **Design Guidelines and Standards** and Construction Contract procedures. Unique to our company, this person will have been actively involved with the project during design and will have firsthand knowledge of the project's design. The Construction Administrator's roles will include managing and reviewing shop drawings, submittals, and RFI's for the entire design team. Additional roles include attendance at job site meetings, documenting construction progress and actively keeping the Owner through direct correspondence. The Contract Administrator will endeavor to have a good working relationship with the successful contractor bidding on the project to ensure that the project is a success for all parties involved.

## Project Closeout

Project Closeout Procedures will involve inspections by all members of the design team for Substantial Completion, and again at Final Completion. Each team member will generate a punch list of items that are either deficient or need to be completed. Closeout Submittals are required on every project and include not only Operations and Maintenance Manuals, but also Record Drawings, Approved Shop Drawings/Submittals, Attic Stock, and Contact Information for all Subcontractors on the project. A careful review and confirmation of the Closeout Submittals will be conducted prior to approval of the Final Payment Application.

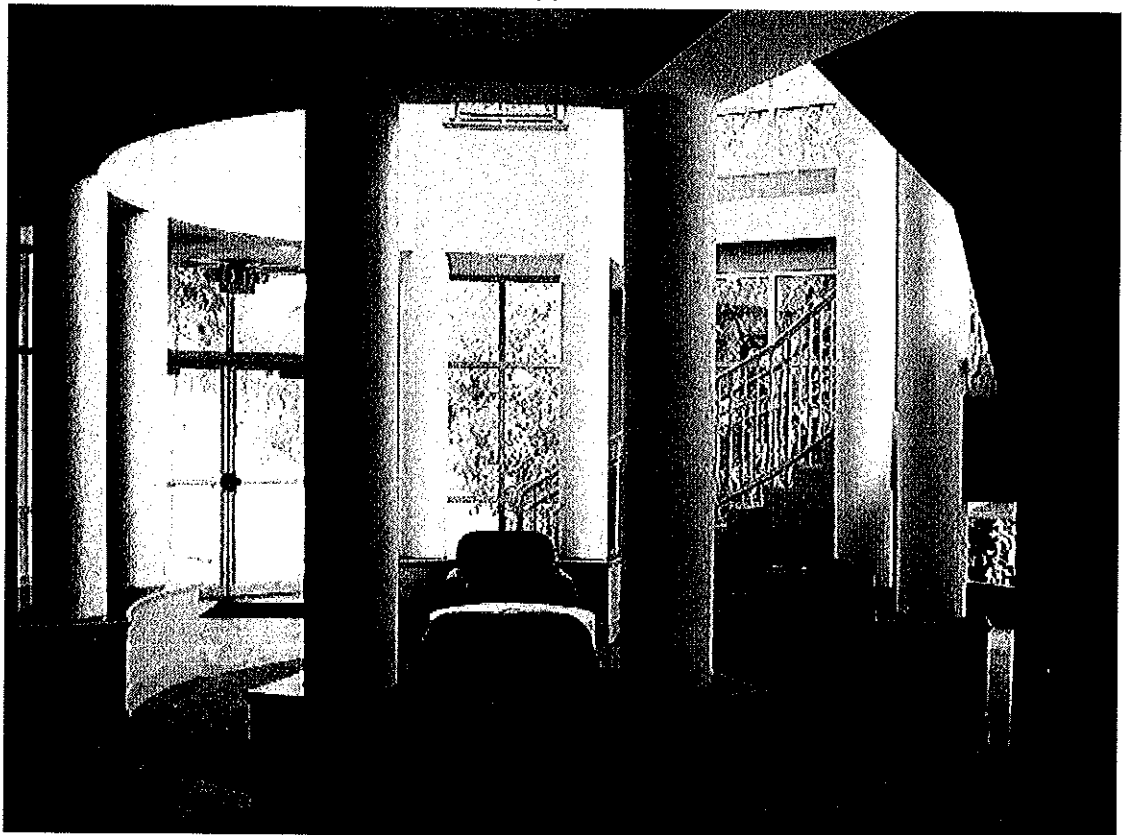


*Trinity Christian School*

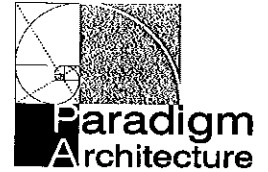


*WVU Intermodal Garage*

*Davis & Elkins College  
Madden Student Center*



# Customer Relationships & Quality Assurance

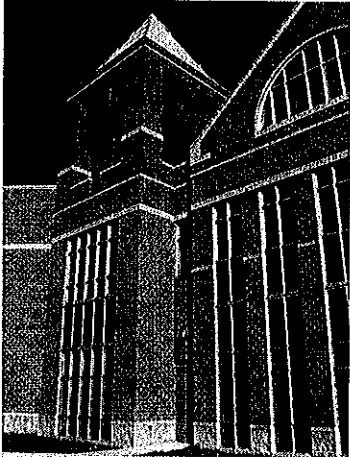


## From Program to Design to Construction

Once a program has been established, Paradigm Architecture will lead the design team through Schematic Design, Design Development, and Construction Documents. Schematic Design Deliverables will include Preliminary Architectural Floor Plans and Elevations, as well as Systems Narratives by all consultants. Design Development Deliverables will include detailed floor plans, elevations, sections, schedules, and single line engineering drawings. An outline specification will also be part of these deliverables, as well as 3d renderings for marketing purposes. Construction Documents Deliverables will include fully developed and completed drawings and specifications from all disciplines.

At all phases, an updated cost estimate will be provided that represents the current status of the project. As required for budget control, value engineering will take place prior to bidding and alternates will be included in the final bidding documents.

Once Bidding Documents have been approved by the Owner, Paradigm Architecture will assist the Owner in the Procurement Phase by prequalifying contractors, holding a Pre-Bid Conference, responding to questions, and issuing Addenda. After bids have been received, lowest responsible bidder approved, and a Construction Contract issued, Paradigm will provide Construction Contract Administration Services as described above.

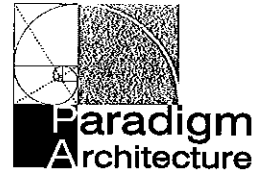


*Chestnut Ridge Church*



*Glade  
Springs  
Resort*

# Quality Control & Management

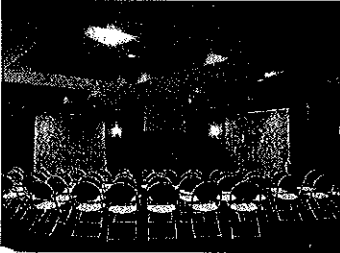


## Teamwork

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, and 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.



Fairmont State University  
Falcon Center



Chestnut Ridge Church

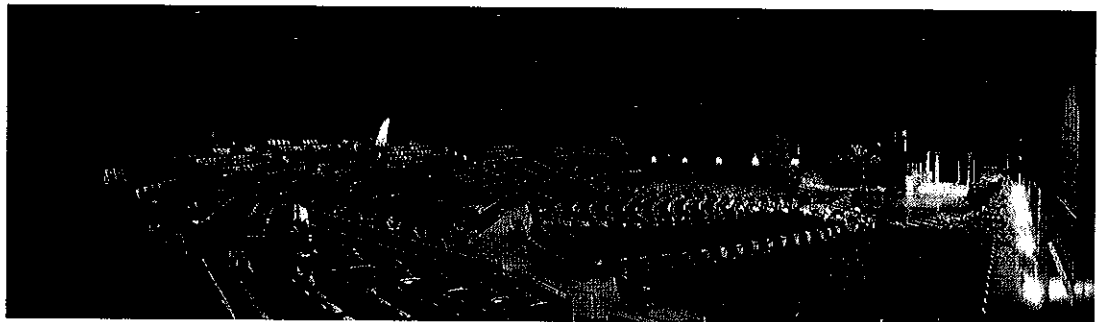


Fairmont State University  
Classroom

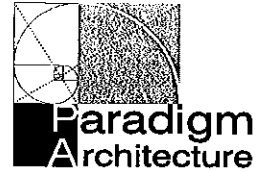
## Technology

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 the latest versions of Revit Architecture, Autocad Architecture, 3-D 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.

Chestnut  
Ridge  
Church

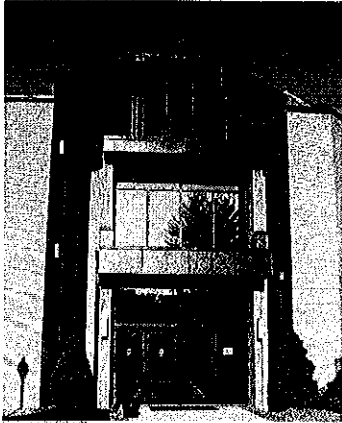


# Quality Control & Management



## Building Information Modeling (BIM)

Of particular interest is our use of BIM. More than just a 3D visualization tool, BIM allows for all disciplines to conduct "clash detection" tests for various disciplines and building components before the project goes to bid. This is extremely crucial for above ceiling coordination among the structural and MEP components. Use of BIM technology can result in better coordinated construction documents and less changes in the field. In addition, BIM allows the Owner to virtually experience the project before it is constructed. Utilizing Animations, we can "walk" the Owner through the building so that room layout surprises are eliminated during design. The use of renderings allows for careful material selections and presentations to internal departments and project stakeholders. At the conclusion of the project, the as-built model can be turned over to the Owner's Facilities Management Department for an actively working database to be used for years to come.



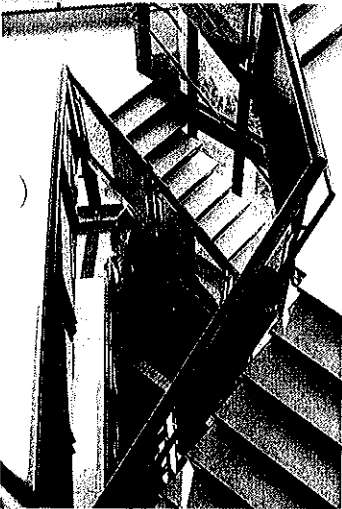
Fairmont State University  
Hunt Haught Hall

## File Transfer Protocol (FTP)

Throughout the life of the project, Paradigm hosts the FTP site. Paradigm sets up the site and all permissions for the site. If necessary, we lead a training session for the entire project team on how to use the site. The site will be maintained from the signing of Owner/Architect Agreement until the Project Closeout. All formal correspondence, as well as all required deliverables, throughout the duration of the entire project shall be uploaded to the FTP site. Paradigm creates an archive CD or DVD of all files on the project's FTP site at Project Closeout and delivers to the Owner.

## Project Delivery

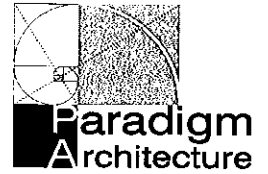
We have successfully used a wide range of project delivery types on both public and private projects: design-bid-build, negotiated, design-build, develop-design-build, fast track, construction management agency, and construction management where the construction manager is also the contractor. We have 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.



Fairmont State University  
Hunt Haught Hall

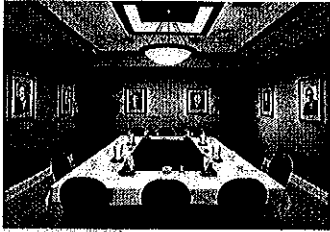


# Quality Control & Management

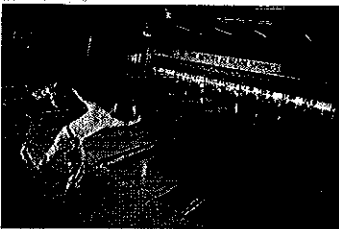


## Project Delivery

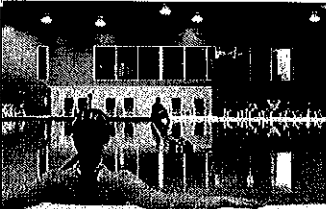
We have successfully used a wide range of project delivery types on both public and private projects: design-bid-build, negotiated, design-build, develop-design-build, fast track, construction management agency, and construction management where the construction manager is also the contractor. We have 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.



Glade Springs Clubhouse



Glade Springs Clubhouse



Glade Springs Clubhouse



Glade Springs Clubhouse

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

# Quality Control & Management



## Cost Control

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.



*Glade Springs Resort  
Hotel and Conference Center*

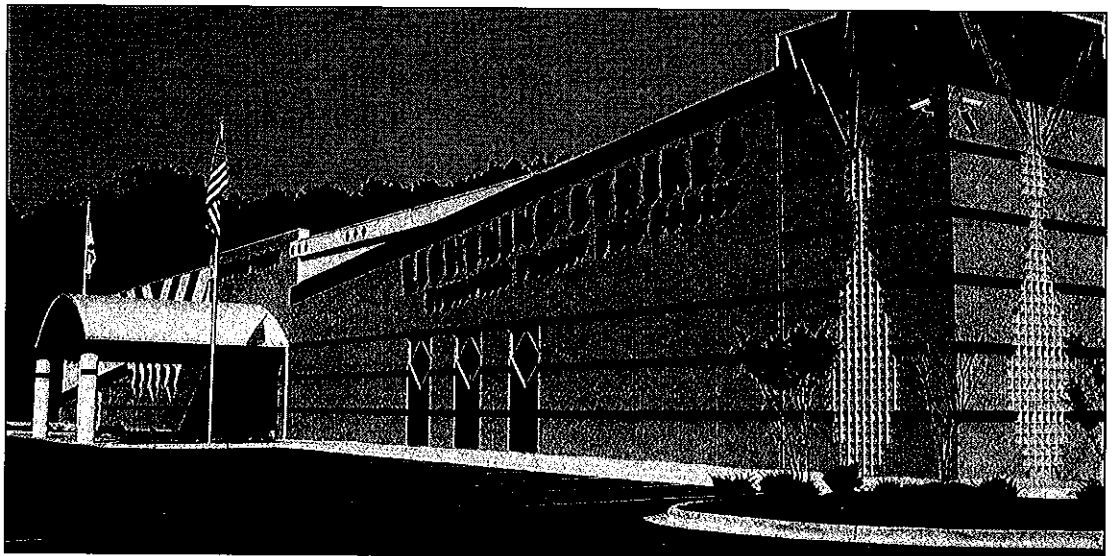


*WVU Intermodal Garage*

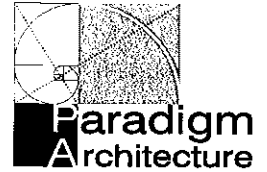
## Fast Track

We have been involved with multiple project delivery types where time is of the essence and have the capability to perform Fast Track Delivery Services if necessary. With Fast Track Delivery, the project is broken up in multiple construction packages with early release dates. Examples of these packages include Earthwork / Site Utilities, Foundations, and Superstructure. This allows construction to begin before the design has been complete.

*Lightning  
Strikes  
Trussville  
Family  
Fun  
Center*



# Quality Control & Management

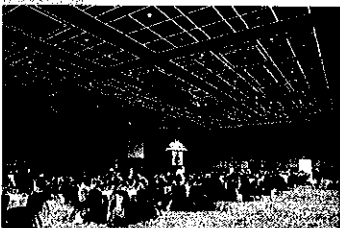


## Facilities Operations and Maintenance

Recognizing the importance of long-term building operations and maintenance concerns, as well as building lifecycle costs, we encourage the involvement of the Owner's Facilities Management and/or Physical Plant staff throughout the project. We prefer to allow the engineers to get direct feedback from these individuals and we value their input to the selection of materials and systems. We diligently work to avoid past issues and concerns that have risen on past projects. In addition, our consultants have abundant experience in providing solutions and alternatives to pre existing maintenance conditions to alleviate those problems, provide a better building environment, and reduce lifecycle costs. This experience gives our team first-hand experience on the importance of having this staff involved with the design and allows for better decision making with the materials and systems selection.



Morgantown Event Center



Morgantown Event Center

## Critical Path Method

Paradigm Architecture has abundant experience in managing multiple projects with critical deadlines. Meeting these deadlines all starts with a clear definition of the schedule constraints. The ultimate project completion date is not the only date that should be targeted on the delivery schedule. Paradigm Architecture utilizes critical path method scheduling to define "Milestone" Dates for the entire project. These include deliverables dates for various phases, design time, Owner's review, Agency and Authority having Jurisdiction Review, procurement time, and construction time. Rather than viewing the schedule as a linear process, it is of utmost importance to determine those items that fall on the "critical path." If those deadlines are missed then the schedule must be adjusted immediately or the project will fall behind. We prefer to view the Schedule as a method of Monitoring and Control throughout the duration of the project. The entire design team and the Owner will be constantly informed and updated regarding schedule performance and corrective action will immediately be taken as necessary.

## Insurance Coverage

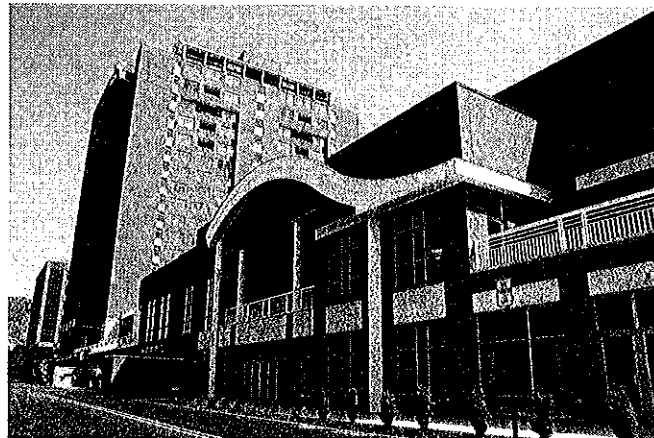
Commercial General Liability—\$1 million per occurrence; \$2 million aggregate

Auto Liability—\$1 million combined single limit

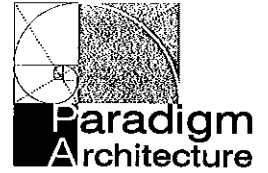
Excess Umbrella—\$1 million per occurrence; \$1 million aggregate

Professional Liability—\$1 million per occurrence

Morgantown Event Center



# Open End Contracts



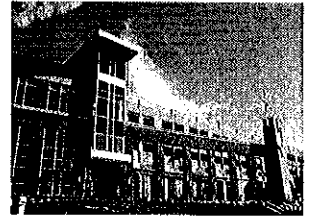
**West Virginia University  
General Open End Contract  
Morgantown, West Virginia**

*West  
Virginia  
University  
Honor's  
Hall*



**West Virginia University  
Satellite Campus Open End Contract  
Morgantown, West Virginia**

*West  
Virginia  
University  
Intermodal  
Garage*



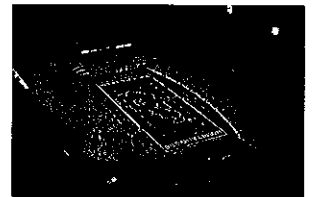
**West Virginia University  
Research Corporation  
Open End Contract  
Morgantown, West Virginia**

*WVU  
Coliseum  
&  
Athletic  
Office  
Renovations*



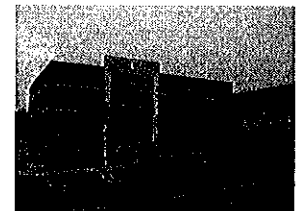
**West Virginia University  
Athletic Department Open End Contract  
Morgantown, West Virginia**

*WVU  
Touchdown  
Terrace  
Club  
Addition*



**Russell Medical Center  
Open End Contract  
Alexander City, Alabama**

*Russell  
Medical  
Center  
Professional  
Office Building*



**George H. Lanier Memorial Hospital  
Open End Contract  
Valley, Alabama**

*Lanier  
Memorial  
Hospital*



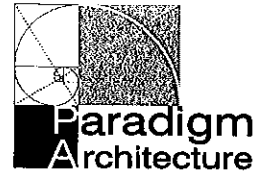
**Powers & Associates  
Open End Contract  
Trussville, Alabama**

*Trussville  
Family  
Fun  
Center*



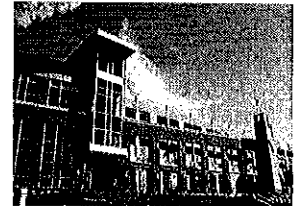
Para-digm - (pär'e-dīm') *n.* An example that serves as pattern or model.

## References



**Mr. John Thompson**  
Manager of Construction Services  
West Virginia University  
979 Rawley Avenue  
Morgantown, WV 26506-4629  
(304) 293-3625

*West  
Virginia  
University  
Intermodal  
Garage*



**Mr. G. Richard Lane II, AICP**  
Petroplus Lane, LLC  
150 Clay Street, Suite 200  
Morgantown, WV 26501-5948  
(304) 284-5000

*Waterfront  
Place*



**Mr. James Decker**  
Fairmont State University  
1201 Locust Avenue  
Fairmont, WV 26554-2470  
(304) 367-4100

*Fairmont  
State  
University  
Conference  
Center*



**Mr. Ron Selders**  
Davis & Elkins College  
100 Campus Drive  
Elkins, WV 26241-3971  
(304) 637-1900

*Davis  
&  
Elkins  
College  
Athletic  
Center*



**Mr. Phil Weser, P.E.**  
March Westin Company  
360 Frontier Street  
Morgantown, WV 26505-3008  
(304) 599-4880

*Waterfront  
Marina  
&  
Boathouse  
Bistro*



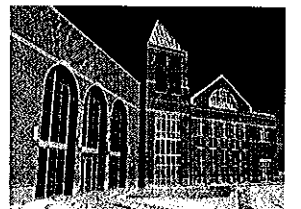
**Mr. Brian Johnson**  
Bright Enterprises  
for Glade Springs Resort  
PO Box 460  
Summersville, WV 26651-0460  
(304) 872-3000 Ext. 219

*Glade  
Springs  
Clubhouse  
Expansion*



**Mr. Tim Haring**  
Chestnut Ridge Church  
Senior Pastor  
2223 Cheat Road  
Morgantown, WV 26508-4518  
(304) 594-0548

*Chestnut  
Ridge  
Church*



**Paradigm** - (pār'e-dīm') *n.* An example that serves as pattern or model.

# Paul A. Walker, AIA

President, Principal-in-Charge and Design Architect



Mr. Walker has twenty-seven 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.

## Architectural Registration

NCARB

WV / AL / FL / NC / PA

## Education

University of Tennessee

Knoxville, TN

Bachelor of Architecture,  
1982

## Professional, Civic and Other Activities

American Institute  
of Architects

Board Member  
Chestnut Ridge Church

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

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

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

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

**Morgantown Event Center**  
and Parking Garage  
Morgantown, West Virginia  
Completion: Spring 2010  
Cost: \$26.3 Million

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

**West Virginia University**  
Mylan Puskar Stadium  
Touchdown Terrace Club Addition  
Morgantown, West Virginia  
Completed: Fall 2007  
Cost: \$800,000

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

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

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

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

**West Virginia University**  
Coliseum and Athletic Office Renovations  
Morgantown, West Virginia  
Completed: Summer 2008  
Cost: \$1.5 million

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

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

**Marina Tower**  
Morgantown, West Virginia  
Completed: Winter 2008  
Cost: \$10 Million (Shell)

# Grant T. Gramstad, AIA

## Project Manager



Mr. Gramstad has sixteen 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.

### Architectural Registration

Alabama

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

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

### Education

Tulane University  
New Orleans, Louisiana  
Master of Architecture  
2004

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

**Mountaintop Community Church**  
Family Life Center  
Vestavia Hills, Alabama  
Completed: Fall 2009  
Cost: \$2.5 Million

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

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

**Marina Tower**  
Morgantown, West Virginia  
Completed: Winter 2008  
Cost: \$10 Million (Shell)

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

**GR Manufacturing**  
Miscellaneous Additions and Renovations  
Trussville, Alabama  
Completed: 2005 thru 2007  
Costs (cumulative): \$1.5 Million

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

### Professional, Civic and Other Activities

American Institute  
of Architects

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

**Lightning Strikes**  
Trussville Family Fun Center  
Trussville, Alabama  
Completed: Spring 2004  
Cost: \$7 Million

Certified Construction  
Contract Administrator

**Benjamin Russell High School**  
Addition and Renovations  
Valley, Alabama  
Estimated Completion: 2010  
Cost: \$2.5 Million

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

**Morgantown Event Center**  
and Parking Garage  
Morgantown, West Virginia  
Completion: Spring 2010  
Cost: \$26.3 Million

**Coca-Cola Cross-Dock Facility**  
Walker County, Alabama  
Completed: Fall 2002  
Cost: \$800,000

**Enterprise Rent-A-Car**  
Airport Cleanup Facility  
Birmingham, Alabama  
Completed: Summer 2004  
Cost: \$400,000

**Performance Fitness**  
and Trussville Rehab  
Trussville, Alabama  
Completed: Fall 2003  
Cost: \$1.5 Million

# Jonathan L. Perry, AIA, LEED AP

Assistant 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 ten years of experience in commercial and residential architecture and has been with Paradigm Architecture for the last nine years. Project experience includes commercial, corporate, educational, governmental, healthcare, hospitality, industrial, institutional, recreational, and residential.

## Architectural Registration

NCARB

West Virginia

## Education

University of Alabama  
at Birmingham  
Birmingham, AL

Master of Engineering  
in Construction Management  
2009

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

Politechnika Krakowska  
Krakow, Poland  
Semester Abroad, 1998

## Professional, Civic and Other Activities

American Institute  
of Architects

LEED Accredited  
Professional

Construction Documents  
Technologist

Lecturer at University of  
Alabama at Birmingham

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

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

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

**Morgantown Event Center**  
**and Parking Garage**  
**Morgantown, West Virginia**  
Completion: Spring 2010  
Cost: \$26.3 Million

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

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

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

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

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

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

**West Virginia University**  
**Mylan Puskar Stadium**  
**Touchdown Terrace Club Addition**  
**Morgantown, West Virginia**  
Completed: Fall 2007  
Cost: \$800,000

**Fairmont State University**  
**Colebank Hall Data Center Build-Out**  
**Fairmont, West Virginia**  
Completed: May 2007  
Cost: \$400,000

**The Dayton Student Housing**  
**Morgantown, West Virginia**  
Completed: Fall 2008  
Cost: \$3.3 Million

**Hampton Center Renovations**  
**Morgantown, West Virginia**  
Completed: Fall 2007  
Cost: \$619,000



# David H. Snider, AIA

Project Architect / Specifications



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 nine years of his twenty-four 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.

## Architectural Registration

NC

AL—Pending

## Education

Auburn University  
Auburn, Alabama  
Bachelor of Architecture  
1984

Roofing Technology  
The Roofing Industry  
Educational Institute  
1995

## Professional, Civic and Other Activities

American Institute  
of Architects

**Benjamin Russell High School  
Addition and Renovations  
Valley, Alabama**  
Estimated Completion: 2010  
Cost: \$2.5 Million

**West Virginia University  
Mylan Puskar Stadium  
Touchdown Terrace Club Addition  
Morgantown, West Virginia**  
Completed: Fall 2007  
Cost: \$800,000

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

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

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

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

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

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

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

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

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

**Morgantown Event Center  
and Parking Garage  
Morgantown, West Virginia**  
Completion: Spring 2010  
Cost: \$26.3 Million

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

# Todd G. Christopher, AIA

Project Architect



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 eight 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.

## Architectural Registration

NCARB

WV / NC

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

**Middletown Tractor Sales  
Fairmont, West Virginia**  
Completed: Spring 2011  
Cost: \$1.7 Million

## Education

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

**Pi Kappa Alpha  
Renovation and Addition  
Morgantown, West Virginia**  
Completed: May 2010  
Cost: \$1.6 Million

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

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

**Booz Allen Hamilton Office Space  
Marina Tower  
Morgantown, West Virginia**  
Estimated Completion: May 2010  
Cost: \$200,000

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

**Star City Waterfront Masterplan  
Morgantown, West Virginia**  
Estimated Completion: Undetermined  
Cost: Undetermined

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

## Professional, Civic and Other Activities

American Institute  
of Architects

**GSA Office Space  
Marina Tower  
Morgantown, West Virginia**  
Completed: August 2009  
Cost: \$770,000

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

U.S. Green Building Council

AIA Peer Mentor  
in conjunction with  
UNC Charlotte

**KeyLogic Systems, Inc.  
Morgantown, WV**  
Estimated Completion: May 2010  
Cost: \$1.5 Million

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

College of Arts + Architecture

AIA Intern Development  
Program Mentor

**Catawba Valley Medical Center\* Women's/  
Oncology Expansion and Renovations  
Hickory, North Carolina**  
Estimated Completion: Spring 2012  
Cost: \$79 Million

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

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

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

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

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

# Steve Konya II

Construction Administrator



Mr. Konya's responsibilities have included development of construction drawings and documents, construction administration, project management tasks, marketing, and photography. He has a combined fifteen years of experience in commercial architecture and has been with Paradigm Architecture for five years. Project types have included commercial, corporate, educational, hospitality, institutional, and retail.

## Education

Fairmont State College  
Fairmont, West Virginia  
Bachelor of Science  
in Engineering Technology  
1996

## Professional, Civic and Other Activities

Professional Photographers  
of West Virginia

**Tygar's Valley Middle/High School\***  
Morgantown, West Virginia  
Completed: Fall 2001  
Cost: \$3.6 Million

**Hampshire High School\***  
Additions and Renovations  
Romney, West Virginia  
Completed: 1997  
Cost: \$4.8 Million

**Tucker County High School\***  
Thomas, West Virginia  
Completed: 2008  
Cost: \$1.2 Million

**West Virginia University**  
Mylan Puskar Stadium  
Touchdown Terrace Club Addition  
Morgantown, West Virginia  
Completed: Fall 2007  
Cost: \$800,000

**WVU Stewart Hall**  
Morgantown, West Virginia  
Completed: Winter 2008  
Cost: \$250,000

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

**Morgantown Event Center  
and Parking Garage**  
Morgantown, West Virginia  
Completed: Spring 2010  
Cost: \$26.3 Million

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

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

**Fairmont State University**  
Colebank Hall Data Center Build-Out  
Fairmont, West Virginia  
Completed: May 2007  
Cost: \$400,000

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

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

**Marina Tower**  
Morgantown, West Virginia  
Completed: Winter 2008  
Cost: \$10 Million (Shell)

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

**WV Veterans Nursing Facility\***  
Clarksburg, West Virginia  
Completed: 2008  
Cost: \$21.8 Million

**William R. Sharpe Jr. Hospital**  
New Transitional Facility\*  
Weston, West Virginia  
Completed: 2006  
Cost: \$2 Million

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

**John Rudmann, PE, RLA, LEED AP**  
Project Manager

**Education**

BS / Civil Engineering  
BS / Landscape Architecture

**Registration**

PE / WV / 14779  
Also PE in MD, PA  
PLA / WV / 341  
Also RLA in MD, OH, PA  
LEED AP

**Total Years with KCI: 3**

**Total Years of Experience: 15**

Mr. Rudmann is a licensed civil engineer, a licensed landscape architect, and a LEED Accredited Professional. His responsibilities have included being a Project Manager, a Senior Civil Engineer, and a Senior Landscape Architect for many site design projects. As a designer his design tasks have included site master planning, stormwater design, utility design, grading, access road design, erosion and sediment control design, pedestrian plaza design, site permitting, golf course design, and completing project specifications. He has designed several different methods of bio-filtration and has completed all the necessary credit paper work to achieve LEED Certification. Relevant project experience includes:

**Morgantown Event Center and Garage. Morgantown, WV.** Senior Design Engineer. Mr. Rudmann was responsible for the overall design of all site / civil services, which included local stormwater permitting, stormwater retention, grading plans, landscaping, erosion and sedimentation control, access roads and parking lot, and utility lines. While this building is not seeking LEED® certification, Mr. Rudmann designed the site to maximize Sustainable Sites and Water Efficiency Credits. The stormwater quantity control was achieved through oversized storage collection pipes and quality through a series of filters.

**Washington Dulles International Airport Parking Bowl Repairs. Washington, DC.** Design Engineer. Responsible for reconfiguring existing parking, solving drainage problems, and designating areas in need of pavement rehabilitation. The drainage solutions involved adding new inlets and pipe to milling and overlaying areas to provide positive drainage. The pavement rehabilitation involved areas of milling and overlay, base repairs, and wedge and level.

**The Dayton. Morgantown, WV.** Senior Design Engineer. KCI was a subconsultant for The Dayton, a three-story mixed-used building located at the corners of Ridgeway Avenue, Dayton Street, and Richwood Avenue in Morgantown that provides retail space and parking on the ground level with residential housing on the upper floors. Mr. Rudmann was responsible for the overall design of all site / civil services including water lines, sanitary sewer, general utility coordination, site / civil permitting, and erosion and sediment control. Since the budget for this project was very tight, Mr. Rudmann utilized cost-efficient design principles to keep the project under budget, while still meeting strict environmental standards.

**New Northside Fire Station. Morgantown, WV.** Senior Design Engineer. Project involved overall site design, access roads, utility lines, sidewalks, drainage, stormwater quality and retention, grading plans, erosion and sedimentation control plans, and the site / civil permitting. Client is pursuing LEED® Silver certification. Mr. Rudmann was responsible for the overall design of all site / civil services, which included site design, local stormwater permitting for the Morgantown Utility Board, drainage, stormwater quality and retention, grading plans, and erosion and sedimentation control plans. Mr. Rudmann was responsible for completing the Sustainable Sites and Water Efficiency Categories. The water quantity credit was achieved through a stormwater cistern.

**Cacapon Resort State Park Lodge Expansion and Park Improvement. Berkeley Springs, WV.** Civil / Site Engineer. Project involved tasks for water and wastewater system improvements as part of state park upgrades and expansion project. For the lodge facility, Mr. Rudmann is responsible for completing the overall design of all site / civil services, which included access roads and parking lot, utility lines, sidewalks, drainage, stormwater retention, grading plans, landscaping, erosion and sedimentation control, and permitting. For the golf course pond renovations, Mr. Rudmann has completed the pond bank stabilization design and completed the site registration application form, WV / NPDES general permit construction stormwater (three acres or greater). This application has been

submitted and approved. Mr. Rudmann is also responsible for updating the golf course drainage system and solving stormwater ponding problems.

**The View II at the Park. Morgantown, WV.** Senior Design Engineer. KCI was a subconsultant to Paradigm Architecture for the View II. The View II is the second phase of a three-phased development along the waterfront in Morgantown. The View II is a four-story structure that houses Morgantown Area Chamber of Commerce on the first floor with residential condominiums on the upper floors. Mr. Rudmann was responsible for the overall design of all site / civil services, which included maintenance of traffic control, utility lines, sidewalks, drainage, stormwater retention, grading plans, erosion and sedimentation control plans, all the site / civil permitting, and the project specifications.

**USDA Design / Build. Sabraton, WV.** Design Engineer. Providing site / civil engineering services for this design / build project. Mr. Rudmann was responsible for parking lot design, access road design, landscape design, WV DEP erosion and sediment control permitting, local permitting for the Morgantown Utility Board, drainage design, stormwater quality and retention, grading plans, and erosion and sedimentation control plans. The parking lot was designed to hold 154 spaces with 24 spaces in a secured area. To maintain ADA compliance and efficiently fit the parking lot into the existing terrain, the parking lot was design at a 5% running slope with a 2% cross slope. This cross slope allowed the asphalt to be contoured into swales to direct water into a series of bio-filtration cells within the parking lot areas and swales located closer to the building. The location of the site is well known for stormwater problems and frequent flooding. The bio-retention areas have effectively alleviated the flooding condition for this site due to a significantly slower time of concentration which allows for water to slowly infiltrate on side and the excess to discharge off site. Mr. Rudmann also completed all the necessary LEED® submittal paperwork for Sustainable Site and Water Efficiency Credits. The site was also previously disturbed and certified a brownfield site.

**West Virginia University Downtown Student Housing Project. Morgantown, WV.** Senior Design Engineer. Mr. Rudmann was responsible for the overall design of all site / civil services, which included an extensive landscaping plan and courtyard pedestrian design. Due to severe space limitations, Mr. Rudmann utilized oversized piping and developed a gravel layer to be used for water detention to meet the requirements of the City of Morgantown's stormwater ordinance.

**Platinum Drive. Bridgeport, WV.** Design Engineer. Responsible for designing a 3,000-foot-per-unit industrial access road with office building pad sites. The earthwork management between the road and the pad sites was coordinated to achieve maximum buildable area. The drainage and erosion and sediment control were designed together to alleviate existing off-site drainage problems and to control future development. Mr. Rudmann was also responsible for developing the construction schedule and sequencing plan, preparing the cost estimates, writing the project specifications, and preparing the bid packages.

**Bowie Commuter Rail Station. Bowie, MD.** Design Engineer. Responsible for the layout of the parking lot, bus loop, and transit center. An existing bus station and a stormwater management pond were relocated on-site. Autoturn was used to design the bus loop through the parking lot to ensure no conflicts between cars and buses. Mr. Rudmann provided a detailed grading plan, completed the stormwater pipe design, and completed the cost estimate.

Jeffrey Weis, PE  
MEP Engineer

**Education**

BS / Civil & Environmental  
Engineering

**Registration**

PE / WV / 18520  
Also PE in NY, OH, PA

**Total Years with KCI: 3**

**Total Years of Experience: 19**

Mr. Weis is the Regional Practice Leader for the Mechanical and Electrical Practice, where he is responsible for the management and senior project oversight of all projects from conceptual phase through construction execution and commissioning. He is a registered professional with more than 15 years of experience in project management, construction management, and facility design. As MILCON / BRAC federal program manager, he was responsible for more than 10 projects at Fort Drum in Watertown, New York. His experience includes the management of projects ranging from federal and municipal, industrial, educational, corporate, recreational, specialty storage, commercial, and research / clean room facilities. As a former construction manager, Mr. Weis is well-versed in the areas of conceptual and final budget estimating, project scheduling, leadership and facilitation of project teams, and constructability reviews.

**91st Military Police Battalion Operations Facility. Fort Drum, NY.** Principal-in-Charge. This project includes the design and construction of a 16,000 SF headquarters building (BNHQ), 82,000 SF company operations facility (COF), and 35,000 SF tactical equipment maintenance facility (TEMF). Oversaw the civil / site design of the 30-acre development project, which totals more than 120,000 SF and includes hardstand vehicle storage areas, storage buildings, roadway construction, and parking areas. All site amenities had to meet AT / FP standards.

**Fort Drum Program Support. Fort Drum, NY.** Project Manager. As part of a five-year multidiscipline contract for architectural and engineering services, Mr. Weis is managing program management services in support of the BRAC program at Fort Drum. Services include RFP development, LEED® compliance documentation, life safety code path requirements, International Building Code Compliance Review, and addressing project specific items with Dr. Checks.

**PADGS National Guard Combined Readiness Center. York, PA.** Project Manager. Project involved due diligence and 1391 programming support for the Combined Readiness Center. The Commonwealth of Pennsylvania was interested in purchasing a parcel of land that is located both in Jackson and West Manchester Townships. The proposed facility includes a new National Guard Readiness Center. Site improvements include extending required utilities to the new building, providing fencing, and pedestrian walkways. Building setbacks for Anti-Terrorism / Force Protection (AT / FP) were incorporated in proposed facility and site layouts. Services included preliminary programming, estimating, site permitting, utility verification, survey, DD 1391 cost estimates, and environmental Phase I and II services in support of the NGB and DGS due diligence activities under the purchase agreement with the previous owner.

**Fort Drum Design Charrette in Support of DD 1391 Child Development Center and Central Issue Facility. Fort Drum, NY.** Principal-in-Charge. Project involved site design for the Army Corps of Engineers New York District at Fort Drum for mechanical, electrical, structural, fire protection, and civil / site design for the development of the DD 1391 documents for a six-week to five-year child development center and a central issue facility.

**Intercollegiate Soccer Stadium Improvements. Akron, OH.** Task Manager. Project involves design of a new intercollegiate competition soccer field for approximately 3,400 spectators with field lighting, drainage and sub-drainage, scoreboard, berm and metal grandstand seating, and perimeter enclosure. Mr. Weis had overall responsibility for the design and staffing for the electrical elements of the project. Phase 1 includes the utilities, field relocation, bleacher relocation, players' area, and upgrade of the field lights and irrigation system.

**Saint Vincent's Guard Shack. Latrobe, PA.** Principal-in-Charge. Project involved engineering and landscape architecture services for a new guardhouse facility and entrance road to the historic Saint Vincent College. Oversight of the construction phase support services.

**Wheeler Sack Air Field Support. Fort Drum, NY.** Principal-in-Charge. This \$8 million project for the U.S. Army Corps of Engineers provides for the construction of a new 20-bay heavy vehicle maintenance facility for all types of vehicles used in the maintenance, operation, and servicing of a military airfield and the military aircraft using the airfield. The new facility will also include a separate inspection and wash bay, as well as a welding shop and secure tool storage. Project was executed in a design / build format.

**Bay Street Reconstruction Project Construction.** Inspection. Provided construction inspection services for the one-mile-long Bay Street reconstruction project. The project involved water main and combined sewer replacements, water service and sewer lateral upgrades, full boxout, and replacement of traffic signals.

**Pine Planes (10300 Area) Barracks. Fort Drum, NY.** MILCON / BRAC Program Manager. Project included development of SWPPP documents, site grading plans, drainage systems, parking lots, and site utilities for the two three-story, 150-bed barracks buildings. Project was executed in a design / build format.



# Allegheny Design Services

*Structural & MEP Engineering*

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

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

## **Education:**

West Virginia Institute of Technology  
B.S. Civil Engineering

West Virginia University  
Masters Business Administration

West Virginia State College  
Architectural Technology

## **Professional Registrations:**

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

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Fax: (304)599-0772

E-mail: [Mike@AlleghenyDesign.com](mailto:Mike@AlleghenyDesign.com)  
Web: [www.AlleghenyDesign.com](http://www.AlleghenyDesign.com)

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

### Education:

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

### Awards/Achievements/Organizations:

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

### Professional Registrations:

West Virginia, Engineering Intern License # 8519

### Professional Experience:

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

#### Experience record:

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

### Courses and Continuing Education:

WVU Structural Analysis I, Spring 2006  
WVU Steel Design, Fall 2006  
WVU Reinforced Concrete Design, Spring 2007  
AISC Design Steel Your Way with the 2005 AISC Specification, September 2006  
ASCE Steel Framed Buildings, May 2007  
AISC Façade Attachments to Steel Frames, September 2007  
ASCE Reinforced Masonry: Design and Construction, November 2007



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

Web: [www.AlleghenyDesign.com](http://www.AlleghenyDesign.com)

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

### Education:

West Virginia University  
B.S. Civil Engineering

### Awards/Achievements/Organizations:

Dean's List  
Member of AISC  
Associate Member of ASCE

### Professional Registrations:

West Virginia, Engineering Intern License #8699

### Professional Experience:

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

#### Experience record:

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

### Courses and Continuing Education:

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

## Projects at Andrews Air Force Base Baltimore, Maryland

Over the past ten years, KCI has provided various engineering expertise in support of the mission at Andrews Air Force Base. **New Runway Lighting System:** As a subconsultant to CAPE Environmental Services, Inc., KCI provided site / civil engineering including grading, erosion and sediment control, and permitting through Maryland Department of the Environment (MDE) and NPDES permitting for a new runway lighting system. KCI also provided surveys and stake out for this project.

### **High-Voltage Lighting Replacement for West Side**

As a subconsultant to CAPE Environmental Services, Inc., KCI provided site / civil engineering including grading, erosion and sediment control, and permitting through MDE and NPDES permitting for a new high-voltage lighting system for the west side of the campus. KCI also provided surveys and stake out for this project.

### **Alter Aircraft Maintenance Hangars 8 and 9**

Multiple projects including a study to investigate, analyze, and recommend solutions to specific code deficiencies and user's needs in two aircraft hangars including means of egress, fire separation, containment of hazardous liquid, fire suppression systems, fire detection and alarm, and electrical power systems; design and documentation of exterior painting of two aircraft hangars for approximately 71,000 SF of painted area; and design and preparation of plans and specifications for roof repairs and alterations of two 38,000 SF aircraft hangars including polyurethane foam roofing and standard seam metal roofing.

### **Repairs to West Apron**

Replacement of 39 acres of degrading concrete pavement. KCI surveyed the active apron and taxiway including work in a security zone requiring escorts. A geotechnical evaluation was conducted on the active apron and taxiway including petroleum-impacted soils requiring storage and disposal of tailings. The environmental program included collection and review of environmental information, work plan development, health and safety plan development, soil gas surveying, shallow subsurface investigation, chemical analysis of potentially contaminated material, summary report and recommendations, and 35% and 100% specifications.

### **Construct Paving**

Design and preparation of plans and specifications for construction of parking lots and airfield paving.

### **Construct Additional Fuel Tank Storage**

Design of a 4,000 SF paved aircraft external fuel tank storage area addition. Work included relocation of utilities, erosion control, and bituminous concrete paving. The design of the apron pavement included existing concrete pavement recycled as a sub-base aggregate, an asphalt stabilized drainage layer, and new concrete pavement. Fuel-contaminated soil is to be recycled as base material with geogrid reinforcement for low-bearing areas. Work also included removal of existing abandoned aircraft fueling hydrants and associated piping; construction of a new under-drain system to connect to the existing storm drain system; and taxiway, apron, fire lane, and security area pavement marking and striping. The project is to be constructed in phases, which required aircraft maintenance of traffic and special temporary concrete joint construction details.

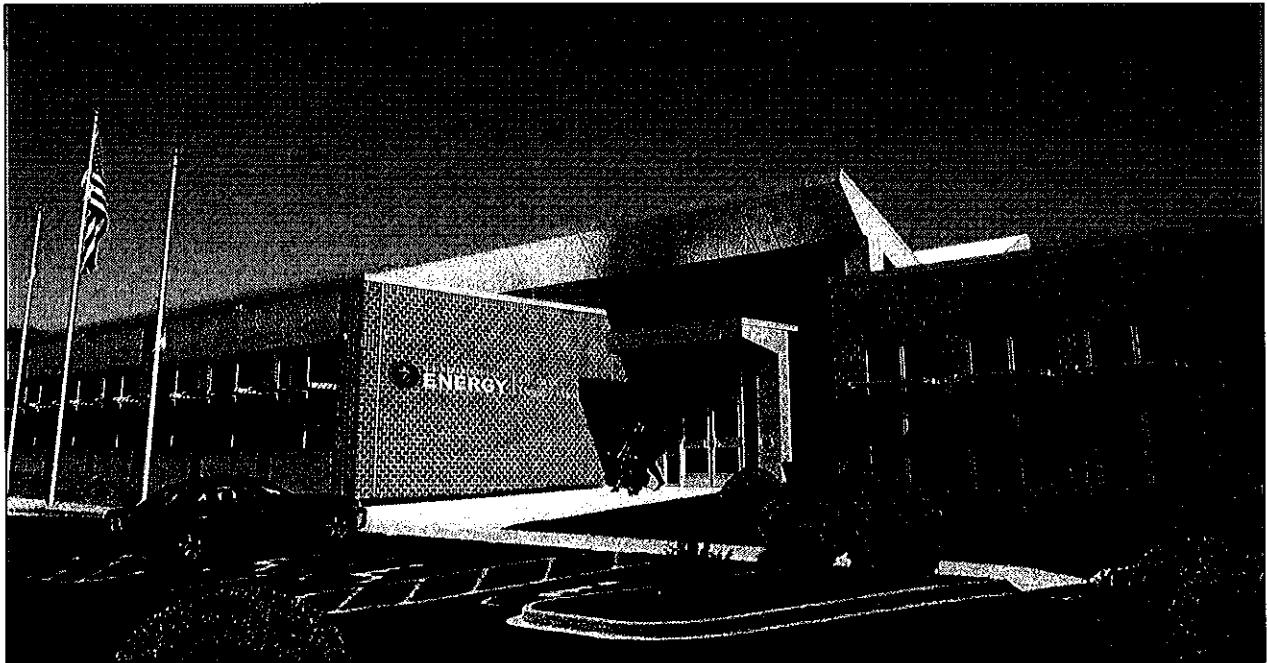
### **Base Branch Exchange**

KCI performed site investigation, design, and construction document services for this branch exchange. The design totaled 14,000 SF of interior space used as merchandising area and a 4,500 SF garden shop. The building is made of masonry construction with rolling access doors and built-up roof. The building design, which was phased, consisted of architectural, structural, and civil engineering and involved site investigation and system testing of parking area concrete paving and design of the storm sewer system. KCI's electrical and mechanical engineers provided total design including plumbing, domestic water, interior and exterior lighting, electrical power generation and distribution, and communication services. KCI maintained project control with ongoing site visits, inspections, and shop drawing review procedures. KCI's landscape architects provided the finishing touches with its landscaping design.



# United States Department of Energy Office of Legacy Management

West Virginia University Research Park, Morgantown, West Virginia



A new sustainable office and Records Storage Facility for the United States Department of Energy Office of Legacy Management which was 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, including a 1,200 square foot Cold Room, and 23,000 square feet for administration. The administration portion includes both open and individual office space, several conference rooms, a wellness center, locker rooms, a data center, a public research area, and an area for receiving / processing.

***LEED Gold (Core & Shell)***  
***LEED Gold (Commercial Interiors)***

**Owner:** FD Partners, LLC

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

**Completed:** Fall 2009  
**Cost:** \$8 Million (Shell),  
\$2.7 Million (Tenant Improvements)  
**Size:** approximately 60,000 Square Feet  
**Delivery Type:** Design-Build-Negotiated

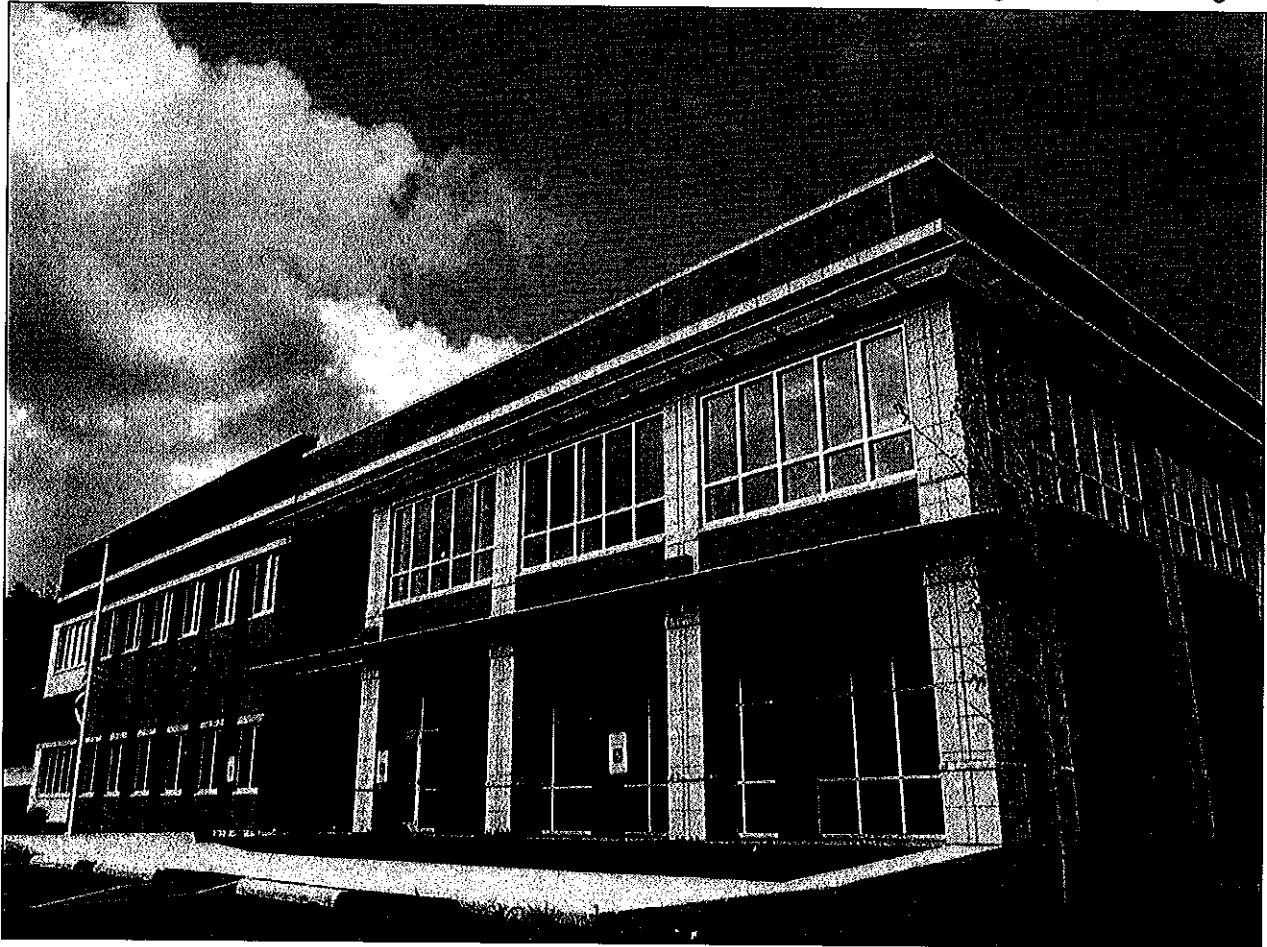
**Contractor:** dck North America, LLC





# The General Services Administration for the United States Department of Agriculture

Morgantown, West Virginia



Awarded through a Design-Build Competition sponsored by the General Services Administration. This facility houses 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 is registered as a LEED Certified Building.*

**Owner:** Glenmark Holdings, LLC

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

**Completed:** Summer 2009  
**Cost:** \$6.5 Million (Shell)  
**Size:** 36,000 Square Feet  
**Delivery Type:** Design-Build Competition

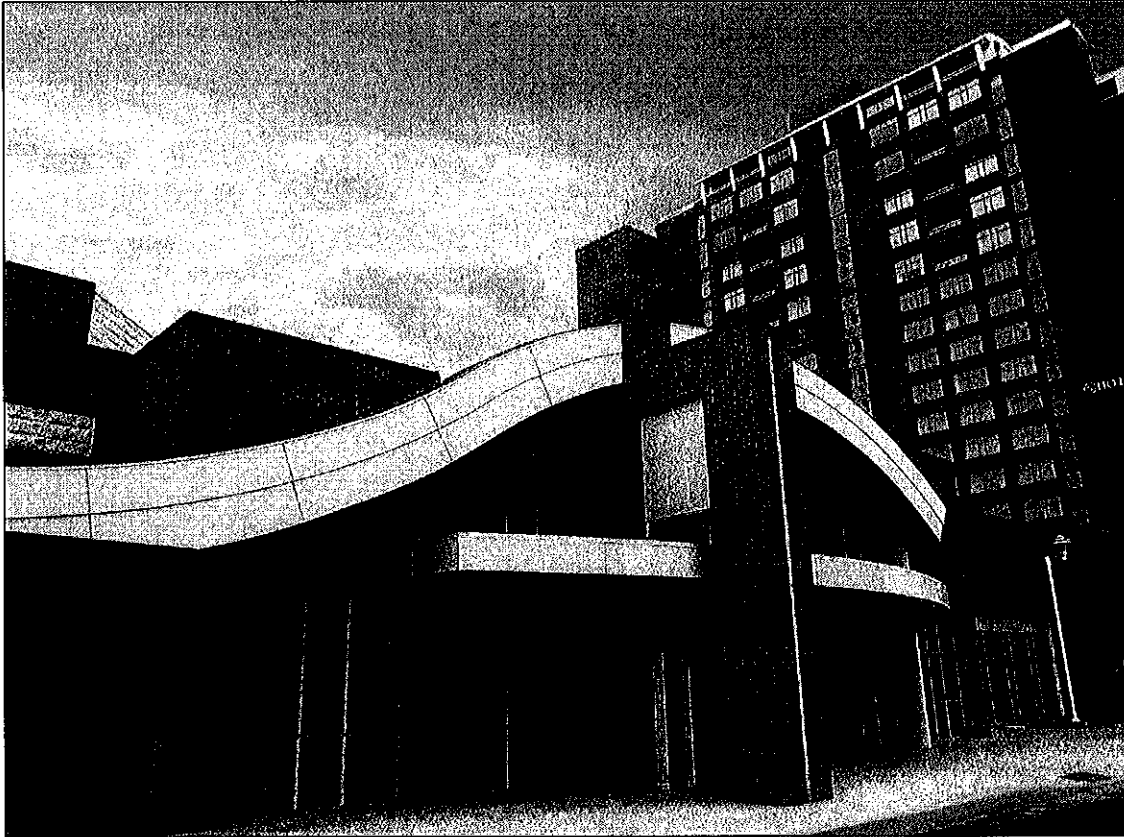
**Contractor:** The March-Westin Company





# Morgantown Event Center and Parking Garage

Morgantown, West Virginia



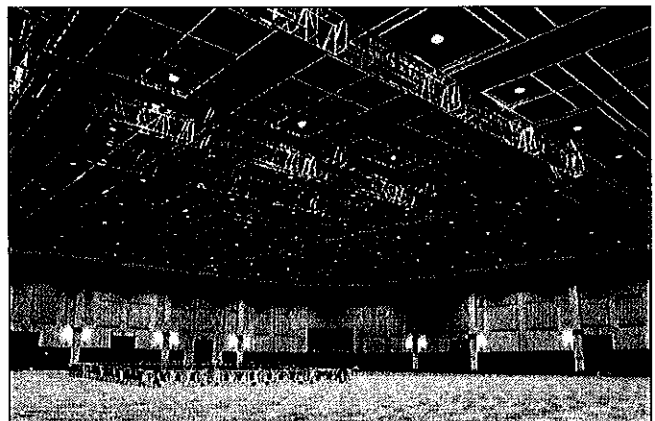
The Morgantown Event Center and 214-space Parking Garage is located adjacent to the Waterfront Place Hotel and Conference Center along the Monongahela River in Morgantown. The large main event room is designed to accommodate a variety of event types including concerts, plays, boxing matches, banquets, and conventions. The facility features a full catering kitchen and support spaces.

**Event Center Owner:** City of Morgantown  
**Parking Garage Owner:** Platinum Properties

**Design Architect:** Paul A. Walker, AIA  
**Project Manager:** Jonathan Perry, AIA

**Completion:** Spring 2010  
**Cost:** \$30.3 Million  
**Size:** 159,000 Square Feet  
**Delivery Type:** Design-Build Competition

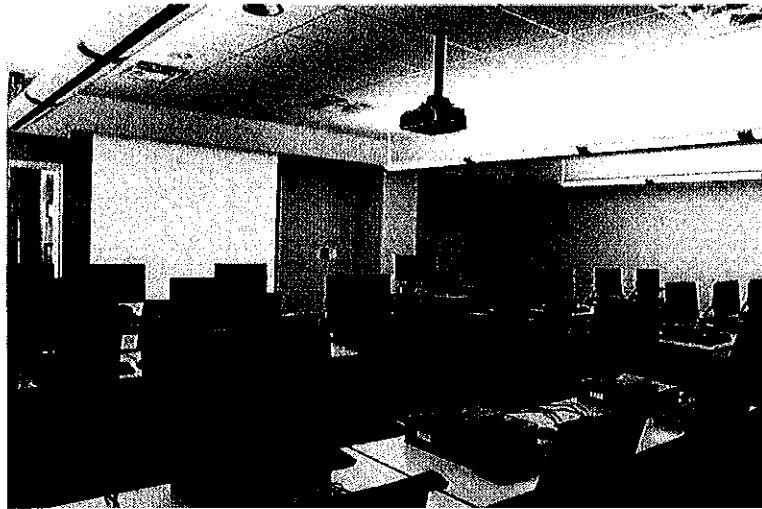
**Contractor:** The March-Westin Company





# Fairmont State University Conference Center and Classroom Fitup

Fairmont, West Virginia



This fit up to the existing Falcon Center provides the University with a much needed Conference Center, Board Room, and Computer Lab Space. The Conference Center, with its operable partitions and flexible space, is also used for additional classroom space. All rooms feature state of the art audio/video systems.

**Owner:** Fairmont State University

**Project Manager:** Jonathan Perry, AIA, LEED AP

**Completion:** Fall 2006

**Estimated Cost:** \$770,000

**Delivery Type:** Design-Bid-Build

**Contractor:** Tmaro Corporation

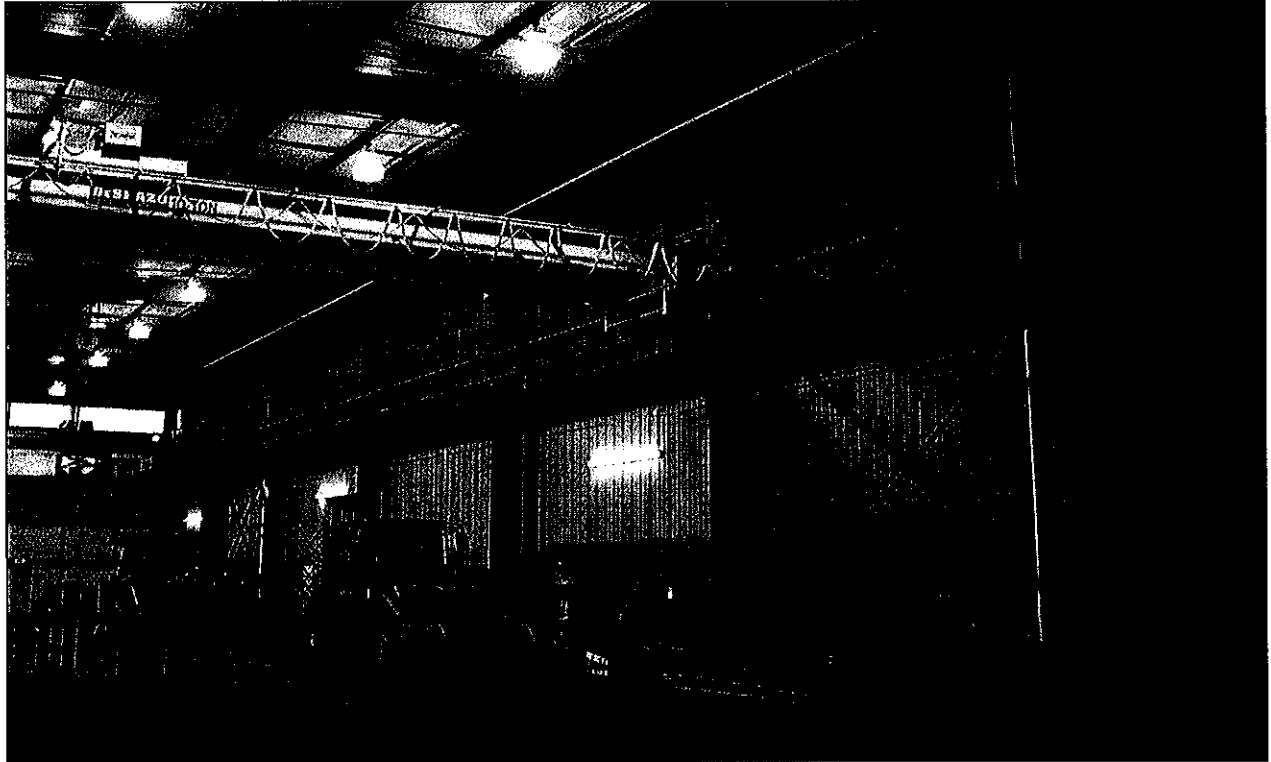






## G. R. Manufacturing Addition

Trussville, Alabama



A 16,000 square foot pre-engineered metal building addition onto an existing 51,000 square foot industrial equipment manufacturing facility. In addition to the crane bay expansion, a new 2,700 square foot wash bay and a 1,200 square foot paint building addition were added.

**Owner:** Bill Fyfe

**Project Architect:** Grant T. Gramstad, AIA

**Completed:** Fall 2006

**Cost:** \$1 Million

**Size:** 19,900 Square Feet

**Delivery Type:** Design-Build-Negotiated

**Contractor:** Powers and Associates





# Birmingham Coca-Cola Bottling Company

Birmingham, Alabama



(Warehouse Addition)

Multiple projects on the Birmingham Coca-Cola Bottling Company Campus include a 30,000 square foot warehouse addition, 1,200 square foot second floor addition to the credit union office, and 250 square foot guardhouse at the service entrance. Architectural services also included master planning for the campus and layout of product storage spaces.

(Guardhouse at Service Entrance)

**Owner:** Birmingham Coca-Cola Bottling Company

**Project Architect:** Grant T. Gramstad, AIA

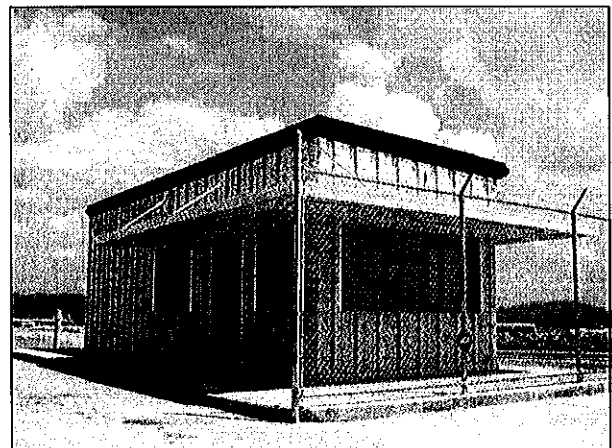
**Completed:** 2002

**Cost:** \$1 Million

**Size:** 31,450 Square Feet

**Delivery Type:** Design-Build-Negotiated

**Contractor:** Powers and Associates





# Coca-Cola Cross-Dock Facility

Walker County, Alabama



A pre-engineered metal building with a 10,500 square foot footprint on approximately 3 acres near Carbon Hill, Alabama. The program consisted of two stories of offices at 3,000 square feet per floor and a 7,500 square foot one story warehouse. This facility was built to accommodate freight shipments being delivered and then picked up by crossing truck routes.

**Owner:** Birmingham Coca-Cola Bottling Co.

**Project Architect:** Grant T. Gramstad, AIA

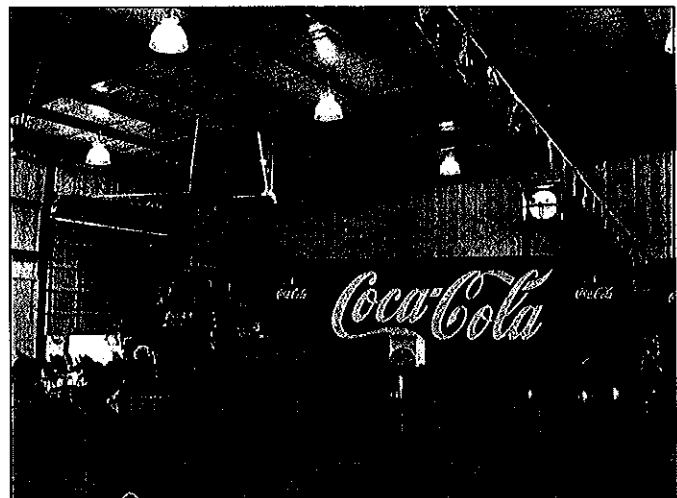
**Completed:** Fall 2002

**Cost:** \$800,000

**Size:** 24,000 Square Feet

**Delivery Type:** Design-Build-Negotiated

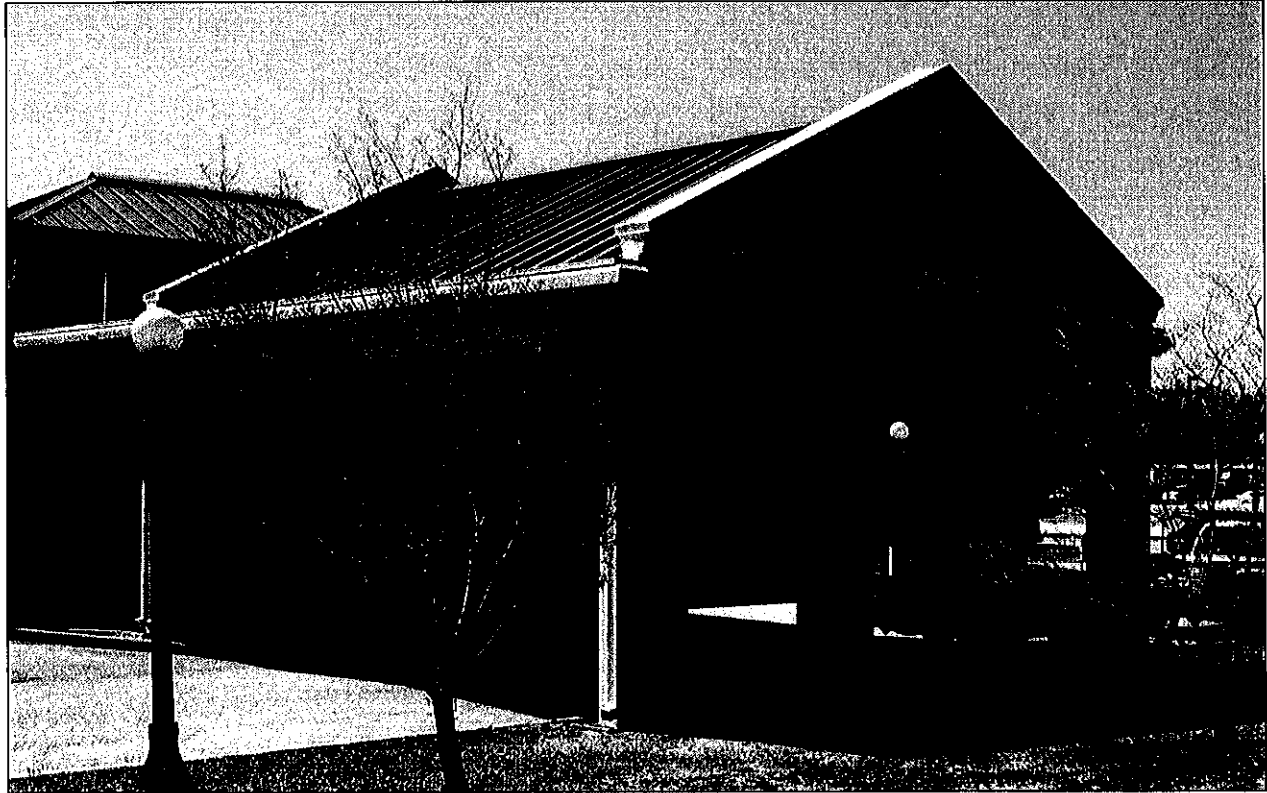
**Contractor:** Powers and Associates





# Trussville City Hall Various Renovations

Trussville, Alabama



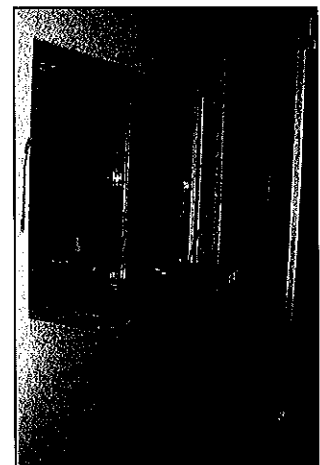
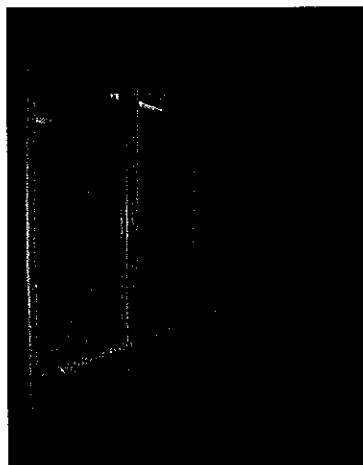
Paradigm Architecture has been privileged to perform various renovations on the Trussville Municipal Building. After the flood of May 2003 which damaged the interior of several departments at City Hall, the City of Trussville contracted with Paradigm Architecture to design a new look for the City Hall, Police, and Fire Departments. It was a 10,700 square foot renovation on a tight schedule. Additional security was added at the City Hall with a glass wall separating the public from the offices. In the Police Department a new bullet-proof glass exchange window ensures the safety of the ticket clerk. Reorganization of the office work area made a more efficient use of space. Recent renovations include exterior façade maintenance and reroofing.

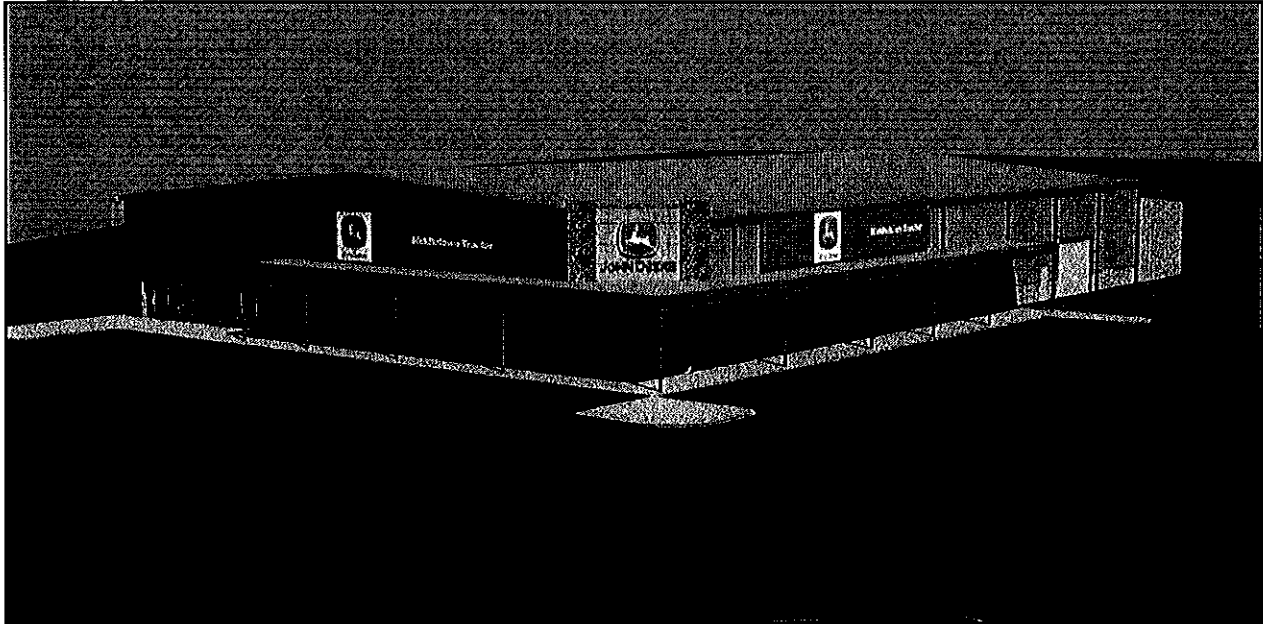
**Owner:** City of Trussville

**Project Manager:** David H. Snider, AIA  
**Project Architect:** Grant T. Gramstad, AIA

**Completed:** Spring 2003 and Fall 2009  
**Cost:** DND  
**Size:** Varies  
**Delivery Type:** Design-Build Negotiated,  
Construction Management

**Contractor / CM:** Powers and Associates





(Architectural Rendering)

A new, pre-engineered metal building with a stacked stone veneer architectural accent for the Middletown Tractor Sales which was awarded through a Design-Build Competition. This one story building includes a John Deere and third party showroom, parts counter, full-service repair shop and administrative offices. The administration portion includes a conference and training room with state-of-the-art video/teleconferencing. The service area includes ten service bays, a wash bay, a 2-ton overhead crane, a welding shop and loading docks for semi-trailers and pickup trucks. The site includes an outdoor equipment showroom and test course area.

**Owner:** Middletown Tractor Sales

**Project Manager:** Todd Christopher, AIA

**Estimated Completion:** February 2011

**Cost:** \$1.7 Million

**Size:** approximately 23,100 Square Feet

**Delivery Type:** Design-Build Competition

**Contractor:** Commercial Builders, Inc.

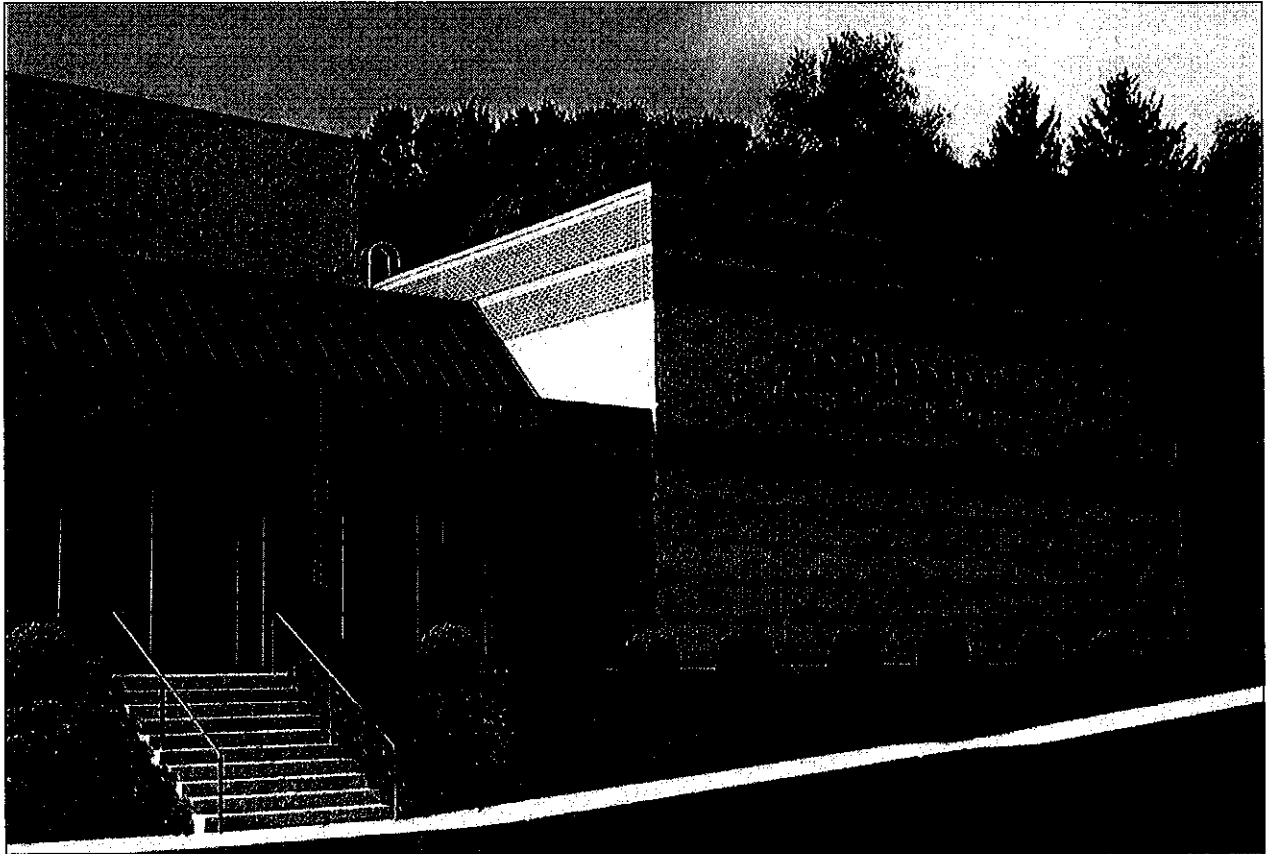
(Architectural Rendering of Front Elevation)





# 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

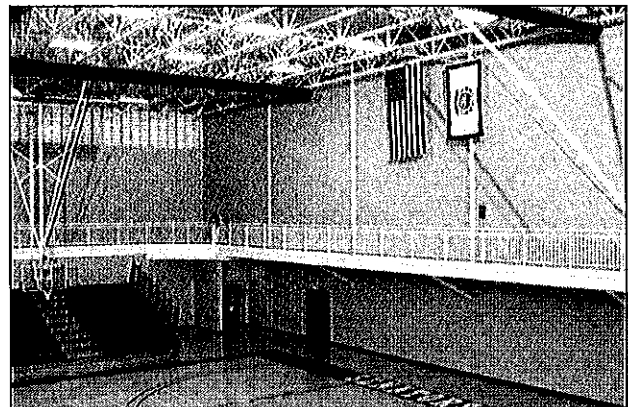
**Completed:** Spring 2007

**Cost:** \$5.5 Million

**Size:** 40,000 Square Feet

**Delivery Type:** Design-Build-Negotiated

**Contractor:** The March-Westin Company



# West Virginia University Intermodal Garage

Morgantown, West Virginia



Intermodal Transportation Center and Parking Garage. A State of West Virginia Design-Build Competition featuring a 500 car parking garage, bus drop-off area/lounge and toilets, retail space, and office areas for the West Virginia University Parking Authority. The facility is designed to connect to the Public Rapid Transit Station and can be expanded both vertically and horizontally to accommodate a total of 1500 vehicles.

**Owner:** West Virginia University

**Design Architect:** Paul A. Walker, AIA

**Project Manager:** David H. Snider, AIA

**Project Architect:** Jonathan L. Perry, AIA

**Completed:** Fall 2009

**Cost:** \$14.5 Million

**Size:** 500 Parking Spaces

**Delivery Type:** Design-Build Competition

**Contractor:** The March-Westin Company

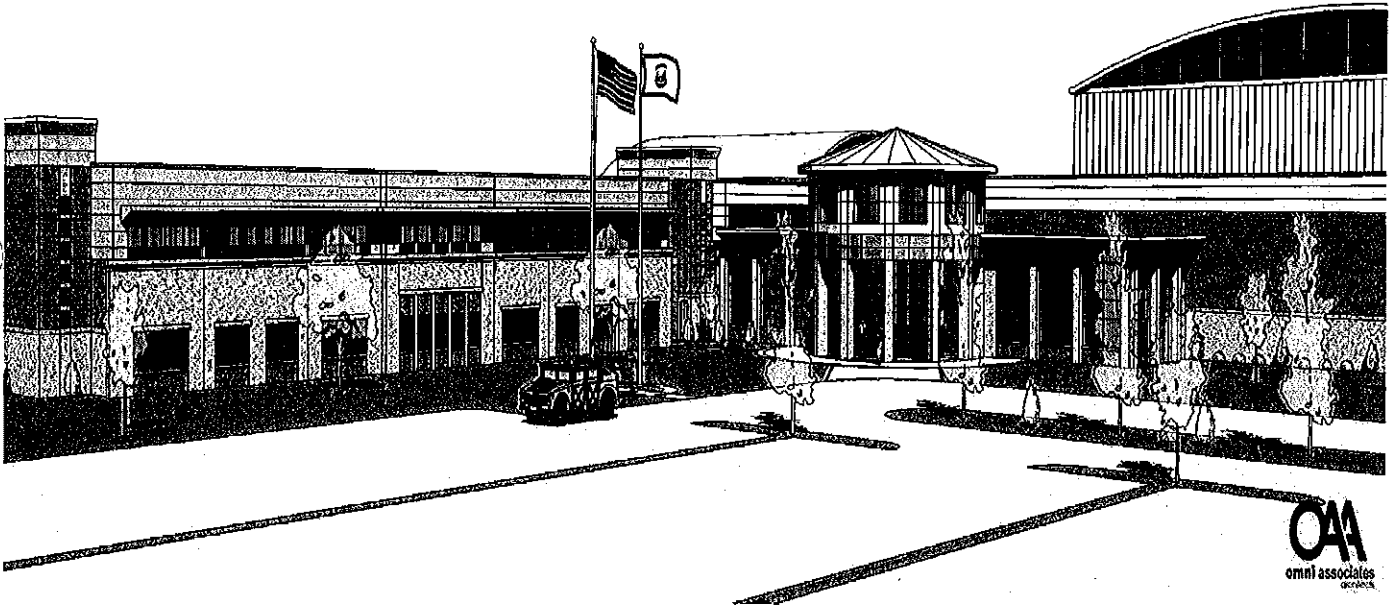




**Allegheny**  
**Design Services**  
*Structural & MEP Engineering*

## **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

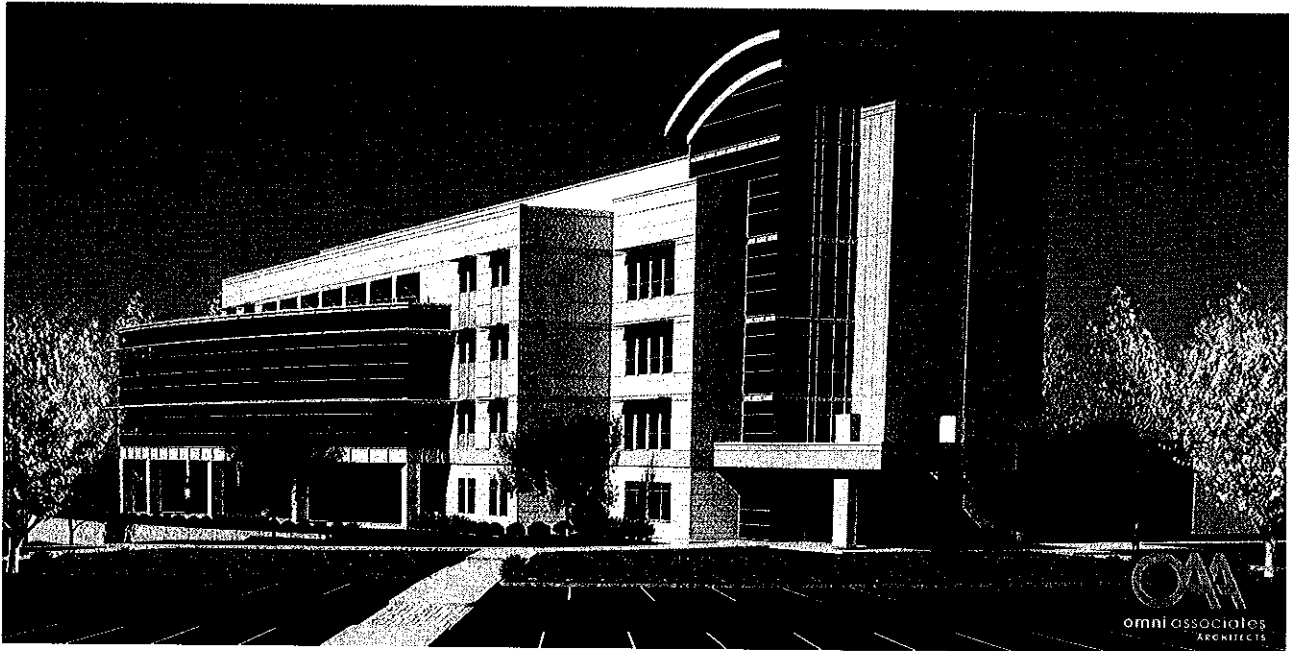




**Allegheny**  
**Design Services**  
*Structural Engineering*

## **PROJECT PROFILE**

### **Allegheny Energy Transmission Building Fairmont, WV**



**PROJECT ARCHITECT:**  
**STRUCTURAL ENGINEER:**  
**CONTRACTOR:**

The Omni Associates—Architects, Inc., Fairmont, WV  
Allegheny Design Services, LLC, Morgantown, WV  
March-Westin Company, Inc., Morgantown, WV

**PROJECT SCOPE:**

- Transmission Control Center
- Offices & Conference Rooms
- Maintenance Center

**PROJECT VALUE:**

\$25 Million

**ESTIMATED PROJECT COMPLETION:**

Sept. 2010



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

## **PROJECT PROFILE**

### **International Brotherhood of Electrical Workers Corporate Offices and Training Center Pittsburgh, PA**



**PROJECT ARCHITECT:**  
**STRUCTURAL ENGINEER:**  
**CONTRACTOR:**

IKM Inc., Pittsburgh, PA  
Allegheny Design Services, Morgantown, WV  
Mascaro Corp., Pittsburgh, PA

**PROJECT SCOPE:**

- New Office Building
- Training Center
- Conference Hall

**PROJECT VALUE:** \$23 Million

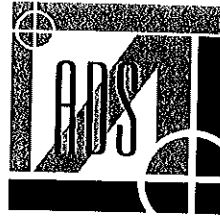
**PROJECT COMPLETION:** 2001



# Allegheny Design Services

Structural & MEP Engineering

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



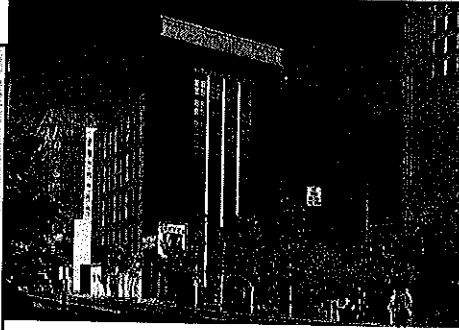
## CONSULTING ENGINEERING FIRM SPECIALIZING IN STRUCTURAL BUILDING DESIGN AND BUILDING ANALYSIS

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

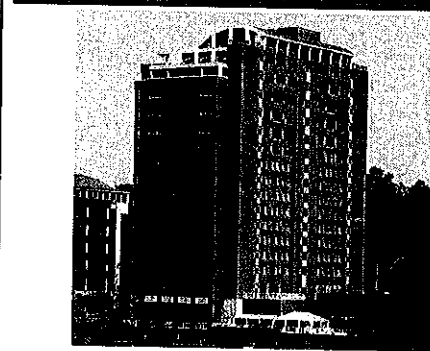
Dedicated to serving West Virginia and the surrounding region, ADS recognizes the need for reliable and full service structural engineering support. ADS provides all phases necessary for the successful completion of a building project including schematic design studies, design development, construction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

Over 20 years in Design and Project Management of:

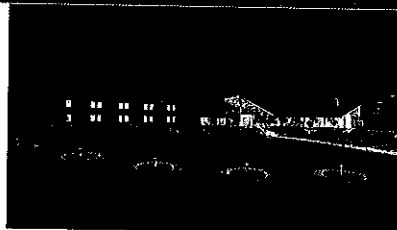
- Commercial
- Industrial
- Institutional
- Educational Facilities



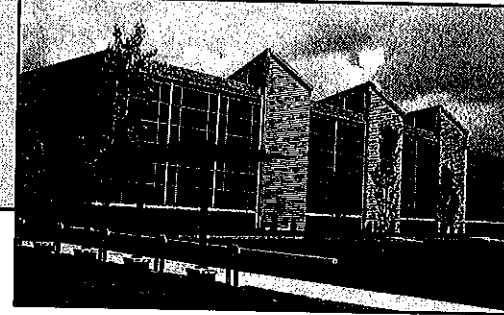
MIXED USE



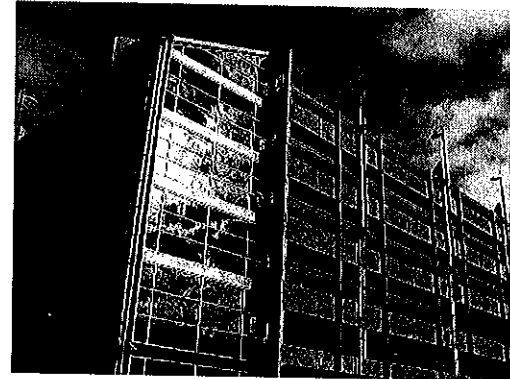
HOTEL  
CONFERENCE CENTERS



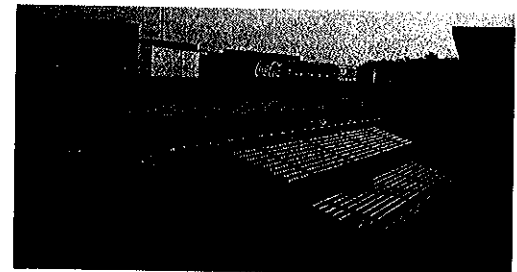
SECONDARY EDUCATION



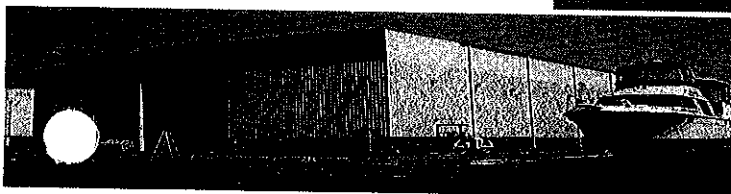
OFFICE BUILDINGS



PARKING GARAGES



ATHLETIC FACILITIES



METAL BUILDING SYSTEMS



HEALTH CARE



# Allegheny Design Services

*Structural & MEP Engineering*

102 Leeway Street

Morgantown, WV 26505

Phone: (304)599-0771

Fax: (304)599-0772

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

Web: [www.AlleghenyDesign.com](http://www.AlleghenyDesign.com)

## **FIRM PROFILE**

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

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

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

Commercial Facilities

Industrial Facilities

Institutional Facilities

Educational Facilities

ADS was established by David Simpson, P.E., MBA, in 2002 as a result of a need in North Central West Virginia for reliable structural engineering services. ADS utilizes a combination of office technology and a motivated staff to deliver projects typically up to \$25 million in construction value. We have completed design work for over \$150 million in construction since our inception. Our clients include architects, contractors, developers, attorneys, and insurance companies.

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

ADS is covered under a \$2 million liability policy for errors and omissions through Travelers.

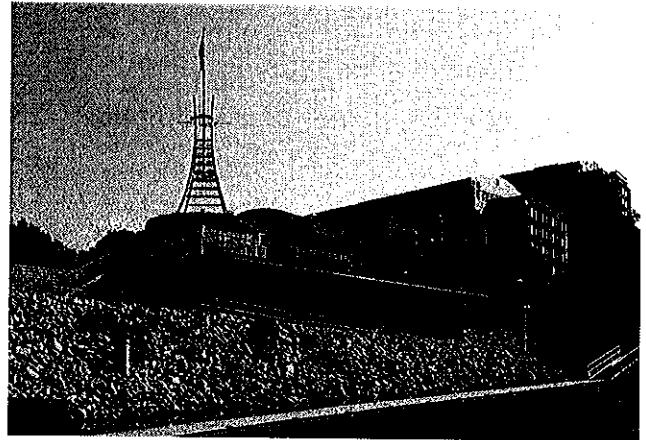


**Allegheny**  
**Design Services**  
*Structural & MEP Engineering*

## **ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH PARADIGM ARCHITECTURE**

### **Boathouse Bistro Morgantown, WV**

ADS was a sub-consultant to Paradigm Architecture for the Boathouse Bistro. The building houses a restaurant, a docking facility, and WVU Crew Team storage. The \$5 Million facility was completed in 2007.

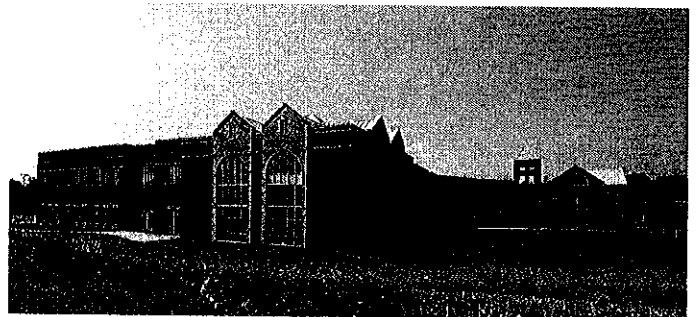


### **Cacapon Resort State Park Golf Course Improvements Cacapon, WV**

ADS is a sub-consultant to Paradigm Architecture for the Cacapon Resort State Park Improvement Projects. ADS will be providing design of foundations and structural system design for multimillion dollar addition.

### **Chestnut Ridge Community Church Morgantown, WV**

ADS was a sub-consultant to Paradigm Architecture for the Chestnut Ridge Community Church. At the time of completion in 2006 this was the largest church facility in West Virginia. At a cost of \$12 Million, it houses an education/gymnasium wing, administrative offices, and a 2000 seat sanctuary.



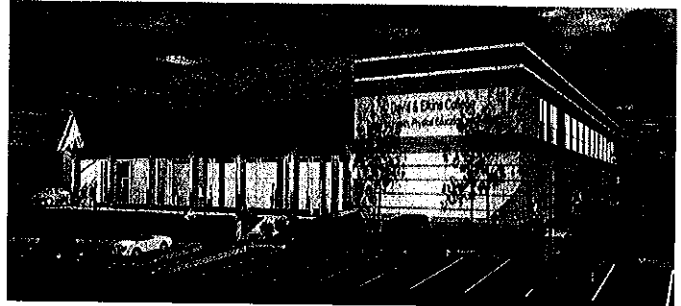


# Allegheny Design Services

Structural & MEP Engineering

## **Davis & Elkins College Athletic Center Elkins, WV**

ADS was a sub-consultant to Paradigm Architecture for the Davis & Elkins College Athletic Center. The building houses a gymnasium, offices, and classrooms. At a cost of \$6 Million it was completed in 2006.



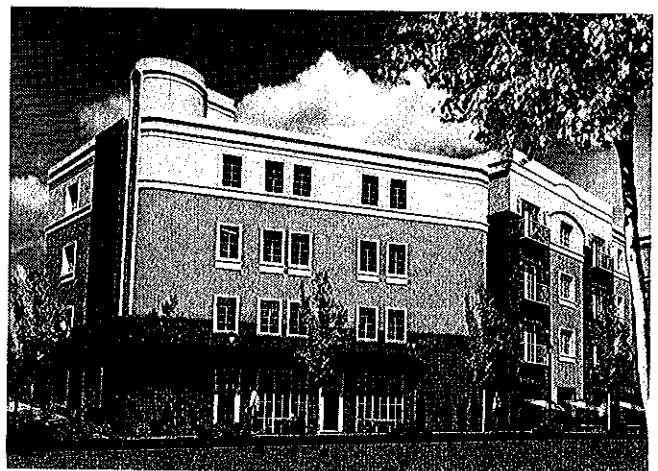
## **Davis & Elkins College Benedum Hall Renovation Elkins, WV**

ADS was a sub-consultant to Paradigm Architecture for the Davis & Elkins College Benedum Hall Renovation. This 16,000 square foot renovation to Benedum Hall included the addition of a rotunda at the entrance. The work was completed in 2003.



## **The Dayton Morgantown, WV**

ADS was a sub-consultant to Paradigm Architecture for The Dayton. The Dayton is a 3 story modular building located at the corners of Ridgeway Avenue, Dayton Street and Richwood Avenue in Morgantown, WV. The building is a mixed used residential housing project with parking garage and retail space located on the ground level. ADS was responsible for foundation and structural system design.

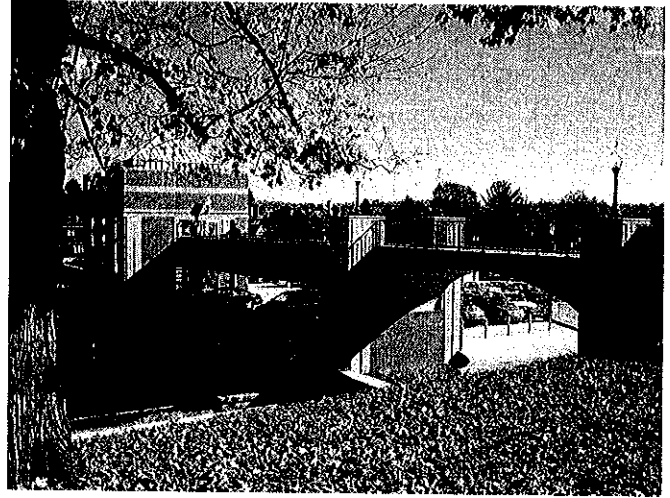




**Allegheny**  
**Design Services**  
*Structural & MEP Engineering*

**Fairmont State University Parking Garage**  
**Fairmont, WV**

ADS was a sub-consultant to Paradigm Architecture for the FSU Parking Garage. This design-build project was completed in 2003 at a cost of \$9.2 Million. This 900 car capacity facility was built over mine cavities which required pre-grouting.



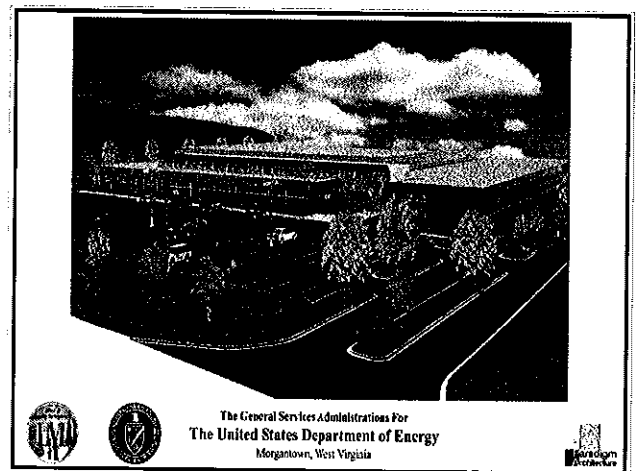
**Glade Springs Hotel & Conference Center**  
**Daniels, WV**

ADS was a sub-consultant to Paradigm Architecture for the Glade Springs Hotel & Conference Center. The facility consists of a 40,000 sq. foot hotel wing, a 12,000 sq. foot conference center and a 2,000 sq. foot Porte Coche. It was completed in 2005 at a cost of \$5 Million.



**GSA - Department of Energy**  
**Morgantown, WV**

ADS was a sub-consultant to Paradigm Architecture for the GSA - DOE. This office and records storage building was completed in 2009. At a cost of \$8 Million (shell only) it was awarded through a Design Build Competition sponsored by the General Services Administration.



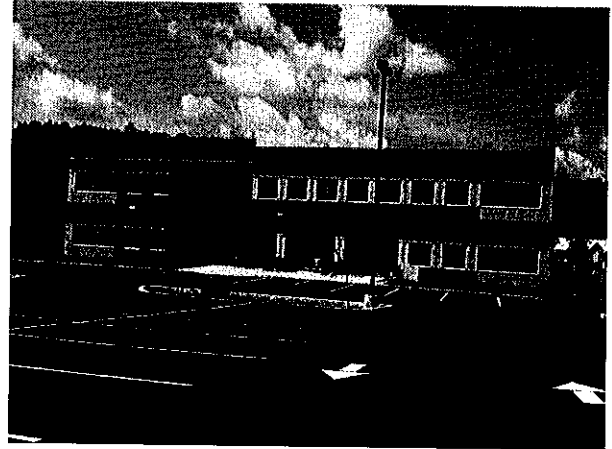


# Allegheny Design Services

*Structural & MEP Engineering*

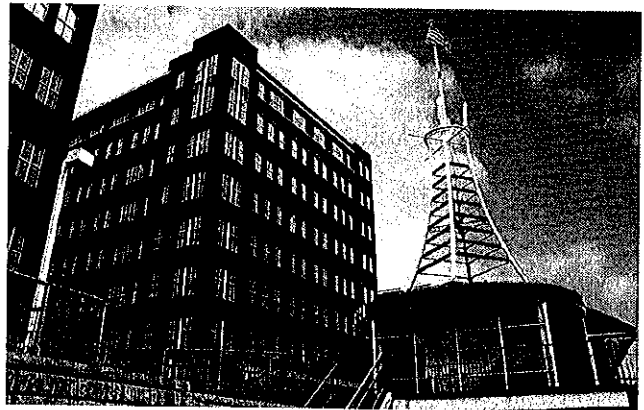
## **GSA/USDA Building Sabraton, WV**

ADS was a sub-consultant to Paradigm Architecture for the USDA Building located in the Sabraton Area of Morgantown. ADS provided foundation and structural system design. This project is pursuing LEED certification.



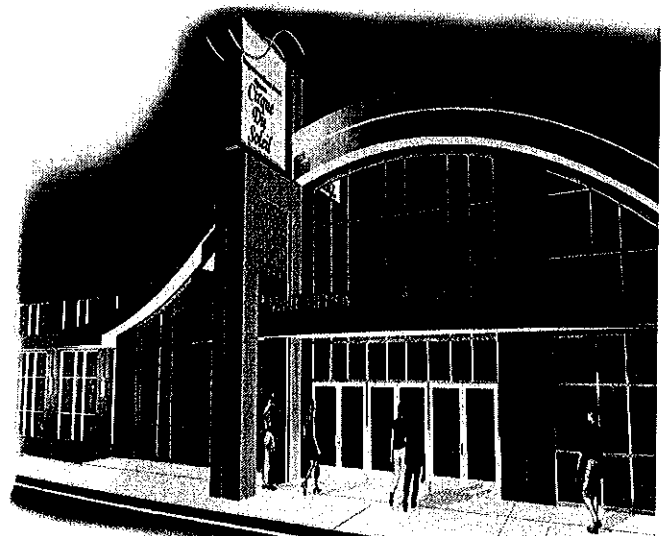
## **Marina Tower Morgantown, WV**

ADS was a sub-consultant to Paradigm Architecture for the Marina Tower. At a cost of \$10 Million (shell only) this building was completed in 2009. The eight story structure was a winner of an Excellence in Construction Award from Associated Builders and Contractors, WV Chapter.



## **Morgantown Event Center Morgantown, WV**

ADS is a sub-consultant to Paradigm Architecture for the new Morgantown Event Center and Parking Garage, located in the Wharf District of Morgantown, WV. ADS is providing foundation and structural system design.







# Allegheny Design Services

Structural & MEP Engineering

## Trinity Christian School Morgantown, WV

ADS was a sub-consultant to Paradigm Architecture for the Trinity Christian School. The 50,000 square foot high school was completed in 2004 at a cost of \$5 Million.



## The View at the Park Morgantown, WV

ADS was a sub-consultant to Paradigm Architecture for The View at the Park. The 6 story building contains 56 apartments. It was completed in 2003 at a cost of \$6 Million.



## The View II at the Park Morgantown, WV

ADS was a sub-consultant to Paradigm Architecture for the View II. The View II is the second phase of a three phased development along the waterfront in Morgantown, WV. The View II is a 4-story structure that houses Morgantown Area Chamber of Commerce on the first floor, with residential condominiums on the upper floors. ADS was responsible for foundation and structural system design.



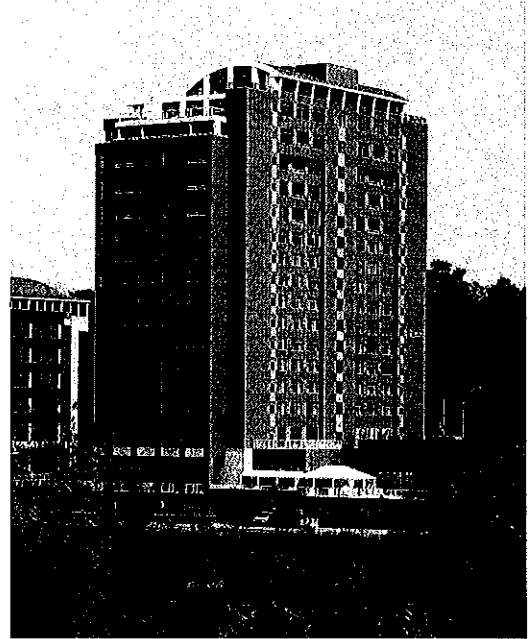


# Allegheny Design Services

Structural & MEP Engineering

## **Waterfront Place Hotel & Conference Center** Morgantown, WV

ADS was a sub-consultant to Paradigm Architecture for the Waterfront Place Hotel & Conference Center. The \$33 Million hotel and conference center was completed in 2003. The 17 story building contains 300,000 sq. foot of heated space with a lower level parking garage.



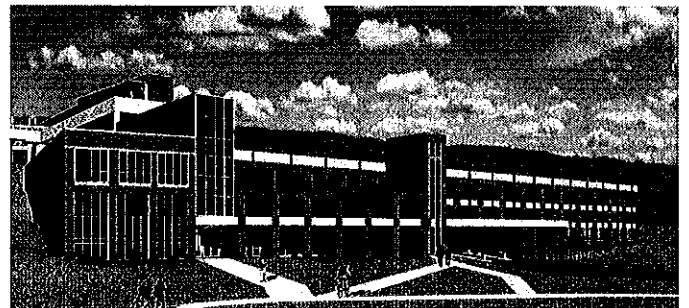
## **West Virginia University Honors Dormitory** Morgantown, WV

ADS was a sub-consultant to Paradigm Architecture for the new Honors Dormitory located on West Virginia University's downtown campus. This project was recently completed. ADS was responsible for overall foundation and structural system design.



## **WVU Transportation Center & Parking Garage** Morgantown, WV

ADS was a sub-consultant to Paradigm Architecture for the WVU Transportation Center & Parking Garage. The \$17 Million facility contains a 500 car parking garage, offices, public space, and retail space. It was completed in 2009.



## KCI Technologies, Inc.

As one of the nation's leading multi-discipline, full-service engineering firms, KCI Technologies, Inc. (KCI) is consistently ranked among the top 100 consulting engineering firms in the country by Engineering News Record.

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. We also provide cultural and environmental resource management services, land planning and landscape architecture, geology, hydrology, ecology, surveying, and construction management and inspection.

The professional staff is supported by CADD (Computer-Aided Drafting and Design) designers, BIM (Building Information Modeling) designers, GIS (Geographic Information Systems) experts, and database analysts, programmers, and technicians; as well as state-of-the-art computer, field, and lab equipment. KCI's computer network supports the firm's core production systems, including BIM, CADD, GIS, three-dimensional visualization/animation tools, document processing and desktop publishing, and project management. The firm's integrated approach to automating design, drafting, documentation, and presentation minimizes costs, facilitates coordination among engineering disciplines, and expedites the production of high-quality products.

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.

### History

KCI 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. In August, 1987, Hanson Trust, PLC, of Great Britain (a manufacturing company with diversified holdings, worldwide) purchased Kidde, Inc. In 1988, an employee buyout was completed, 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. Today, the firm employs approximately 900 people operating in 21 offices across 12 states as well as the District of Columbia.

### Location

KCI opened the West Virginia office in Morgantown in 1998, building off the success of KCI's experience in neighboring states. KCI has been working throughout the state of West Virginia for more than 10 years and is familiar with conditions and infrastructure of West Virginia. Our local office has a wide range of experience working with various state agencies, as well as private developers and contactors. Our backgrounds range from WVDOH to USDA Rural Development. We have engineers who understand and advocate for the needs of rural communities and public service districts. KCI has the knowledge to aid our clients in all aspects of this project including but not limited to preliminary study, preliminary design, funding assistance, final design, bidding services, construction administration, construction inspection, or any other service needed to complete these types of projects.

### Quality Assurance

As part of our strategic plan, KCI is committed to achieving corporate wide ISO 9001:2000 certification. KCI's Northeast Region was certified to ISO 9001:2000 in September 2005 and re-certified in October 2008. The Mid-Atlantic Region achieved certification in December 2008. The Southeast Region will complete their certification process in 2010.

Our primary quality objectives are to:

- Satisfy client expectations through designs and professional services that conform to client specifications;
- Continually review company performance by analyzing objective data regarding both our processes and deliverables; and
- Use this objective data to identify and drive opportunities to continuously improve the Quality Management System.

ISO is a quality management system (QMS) standard requiring that company activities be modeled as a system of inter-related processes and that these processes be continually audited in order to objectively measure performance and improve outcomes. A key component of the ISO standard that differentiates it from others systems is the mandatory continual auditing and improvement requirement. Quality control procedures for the work performed in each of KCI's technical disciplines are defined in each discipline's quality control manual. Conformance to these procedures is ensured through KCI's internal auditing process.

## KCI & Paradigm

### **West Virginia University Downtown Student Housing Project Morgantown, WV**

KCI was a subconsultant to Paradigm Architecture for the New Honors Dormitory located on West Virginia University's downtown campus. This project was recently completed. KCI was responsible for overall site design, plaza, utility lines, sidewalks, drainage, stormwater quality and retention, grading plans, erosion and sedimentation control plans, and the site/civil permitting.

### **The Dayton Morgantown, WV**

KCI was a subconsultant to Paradigm Architecture for the Dayton. The Dayton is a 3-story modular building located at the corners of Ridgeway Avenue, Dayton Street and Richwood Avenue in Morgantown, WV. The building is a mixed used residential housing project with a parking garage and retail space located on the ground level. KCI was responsible for overall site/civil design, landscape design, water lines, sanitary sewer, general utility coordination, site/civil permitting and erosion and sediment control.

### **The View II at the Park Morgantown, WV**

KCI was a subconsultant to Paradigm Architecture for the View II. The View II is the second phase of a three phased development along the waterfront in Morgantown, WV. The View II is a 4-story structure that houses Morgantown Area Chamber of Commerce on the first floor, with residential condominiums on the upper floors. KCI was responsible for overall site design, utility lines, sidewalks, drainage, stormwater retention, grading plans, erosion and sedimentation control plans, and the site/civil permitting.

### **Morgantown Event Center Morgantown, WV**

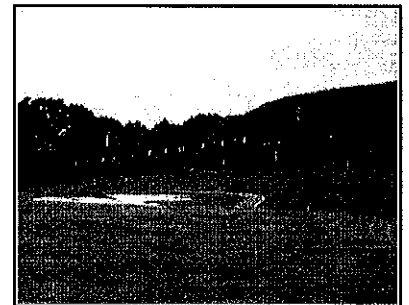
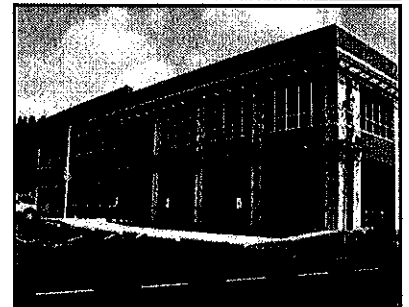
KCI is a subconsultant to Paradigm Architecture for the new Morgantown Event Center and Parking Garage, located in the Wharf District of Morgantown, WV. KCI is providing site/civil engineering and landscape architecture services for this design-build project.

### **USDA Building Sabraton, WV**

KCI was a subconsultant to Paradigm Architecture for the USDA Building located in the Sabraton Area of Morgantown. KCI provided site/civil engineering and landscape architecture design services for this design/build project. This project is pursuing LEED certification.

### **Cacapon Resort State Park Golf Course Improvements Cacapon, WV**

KCI is a subconsultant to Paradigm Architecture for the Cacapon Resort State Park Improvement Projects. KCI is currently providing engineering services for the golf course. The improvements are to be commensurate with a Robert Trent Jones style course. KCI is also providing design services to upgrade the park's waste water collection system, and improve the potable water distribution throughout the park. KCI will also be providing site/civil engineering and landscape architecture services to accommodate the addition to the resort that is currently being designed by Paradigm Architecture.



**USDA Design/Build**  
*Morgantown, West Virginia*

**Client**  
US Department of Agriculture

**Contact**  
Jonathan Perry,  
(304) 284-5015

KCI was a subconsultant to Paradigm Architecture for the USDA Building located in the Sabraton area of Morgantown. KCI provided site / civil engineering and landscape architecture design services for this design / build project.

The parking lot was designed to hold 154 spaces with 24 spaces in a secured area. To maintain ADA compliance and efficiently fit the parking lot into the existing terrain, the parking lot was design at a 5% running slope with a 2% cross slope. This cross slope allowed the asphalt to be contoured into swales to direct water into a series of bio-filtration cells within the parking lot areas and swales located closer to the building. The location of the site is well known for stormwater problems and frequent flooding. The bio-retention areas have effectively alleviated the flooding condition for this site due to a significantly slower time of concentration which allows for water to slowly infiltrate on side and the excess to discharge off site. The site was also previously disturbed and certified a brownfield site.

This project is pursuing LEED® certification. The site received a Certificate of Completion 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 in order 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 onsite 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 and 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.

