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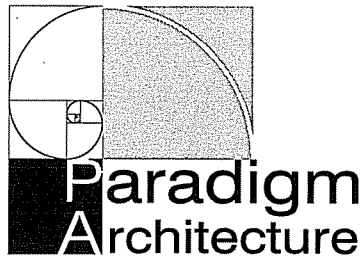
PURCHASING DIVISION  
STATE OF WV

**West Virginia Army National Guard  
Camp Dawson  
Multi-Purpose Building**

**Buyer: #32 – John Abbott  
Req#: DEFK8179**

**Expression of Interest  
Architectural and Engineering Services**

**April 9, 2008  
1:30 pm**



09 April 2008

Department of Administration  
Purchasing Division  
2019 Washington Street, East  
Charleston, WV 25305-0130

RE: EOI for **The West Virginia Army National Guard, Camp Dawson, Multi-purpose Building**

Mr. John Abbott:

**Paradigm Architecture Inc.** is pleased to submit this Expression of Interest for the **Multi-purpose Building** project at Camp Dawson. We have assembled a team of professionals with a local presence and appropriate project experience.

Our proposal provides our Firm Profile, a brief History, References, staff Resumes, and a sampling of projects Paradigm Architecture has been privileged to work on. We have experience with multi-purpose buildings including offices, conference rooms, locker and shower facilities and gymnasiums. Examples of our experience with offices are the **Jackson Kelly Building, One Waterfront Place, Suncrest Corporate Center, and Marina Tower**. We have received design awards for two government office projects, the **Clarksburg Federal Center** and **Charleston Federal Center**. The **Davis and Elkins College Athletic Center, Trinity Christian School, and Chestnut Ridge Church** are examples of our gymnasium, locker and shower room projects. The hotel and conference center at **Two Waterfront Place** includes staff offices, conference, and locker/shower rooms within the fitness center. **The Morgantown Events Center** is a large multi-purpose building that will accommodate sporting events as well as other functions.

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** with an office in Morgantown will provide Civil Engineering services. Dave Simpson, P.E. of **Allegheny Design Services** in Morgantown will serve as Structural Engineer. **Tower Engineering** will provide Plumbing, HVAC and Electrical Engineering services. We have extensive professional relationships with these engineers and we have successfully completed many projects together.

Paradigm is a service-oriented architectural design firm capable of taking a project from inception to completion through the phases of schematic design, design development, bidding/negotiation, construction & contract documents, construction administration, and closeout procedures. We are able to meet a client's needs and expectations while upholding the budget and project deadlines.

It is our goal to provide a high level of personal service and design solutions that reflect the unique image and purpose of our clients. We welcome the opportunity to work with you on this project.

Best regards,

Paul A. 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
DEFK8179

PAGE
1

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

RFQ COPY  
TYPE NAME/ADDRESS HERE

Paradigm Architecture  
2223 Cheat Road, Ste 300  
Morgantown, WV 26508  
(304)284-5015

DIV ENGINEERING & FACILITIES  
CAMP DAWSON ARMY TRAINING SITE  
240 ARMY ROAD

KINGWOOD, WV  
26537-1077 304-329-4417

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS		
03/13/2008						
BID OPENING DATE: 04/09/2008		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-07		
ARCHITECT SERVICES, PROFESSIONAL						
EXPRESSION OF INTEREST (EOI)						
CONTRACT TO PROVIDE ARCHITECT AND ENGINEERING SERVICES FOR THE WEST VIRGINIA ARMY NATIONAL GUARD, CAMP DAWSON MULTIPURPOSE BUILDING, KINGWOOD, WV, PER THE SPECIFICATIONS.						
EXHIBIT 10						
REQUISITION NO.: .....						
ADDENDUM ACKNOWLEDGEMENT						
I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.						
ADDENDUM NO.'S:						
NO. 1 .....						
NO. 2 .....						
NO. 3 .....						
NO. 4 .....						
NO. 5 .....						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE		TELEPHONE		DATE		
President		(304)284-5015		4-8-08		
TITLE		FEIN		ADDRESS CHANGES TO BE NOTED ABOVE		
		63-1263568				

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



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

## Request for Quotation

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2

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304-558-2544

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2223 Cheat Road, Ste 300  
Morgantown, WV 26508  
(304)284-5015


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KINGWOOD, WV  
26537-1077

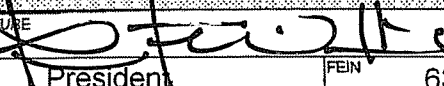
304-329-4417

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/13/2008				

BID OPENING DATE: 04/09/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p> SIGNATURE Paradigm Architecture COMPANY April 8, 2008 DATE</p> <p>VENDOR PREFERENCE CERTIFICATE</p> <p>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</p> <p>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>( ) BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE 	TELEPHONE (304)284-5015	DATE 4-8-08
TITLE President	FEIN 63-1263568	ADDRESS CHANGES TO BE NOTED ABOVE

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



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Department of Administration  
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6

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CAMP DAWSON ARMY TRAINING SITE  
240 ARMY ROAD

KINGWOOD, WV  
26537-1077 304-329-4417

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/13/2008				

BID OPENING DATE: 04/09/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
RFQ. NO.: DEFK8179-----						
BID OPENING DATE: 04/09/2008-----						
BID OPENING TIME: 1:30 PM-----						
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: (304)284-5014 -----						
CONTACT PERSON (PLEASE PRINT CLEARLY): Paul A. Walker -----						
***** THIS IS THE END OF RFQ DEFK8179 ***** TOTAL: _____						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE 	TELEPHONE (304)284-5015	DATE 4-8-08
TITLE President	FEIN 63-1263568	ADDRESS CHANGES TO BE NOTED ABOVE

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

STATE OF WEST VIRGINIA  
Purchasing Division**PURCHASING AFFIDAVIT**

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

**DEFINITIONS:**

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

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

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

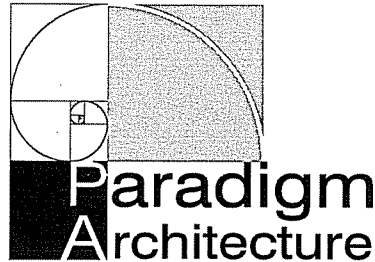
**LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia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

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

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

Vendor's Name: Paradigm Architecture

Authorized Signature:  Date: 4/8/08



## **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

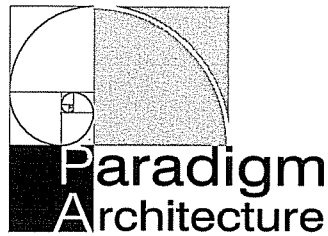
Originally established in Birmingham, Alabama, Paradigm Architecture expanded in 2002 by opening an office in Morgantown, West Virginia. Our staff of nine includes four registered architects, one intern architect, an interior designer, two CAD designers, and an administrative assistant. We utilize the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

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

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

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

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



## **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, religious, and institutional clients.

### **Residential:**

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

### **Corporate:**

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

### **Governmental:**

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

### **Educational:**

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

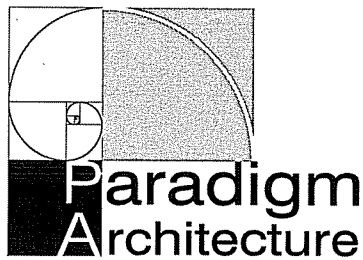
### **Religious:**

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

### **Institutional:**

Medical and retirement life care projects dominate our staff's institutional portfolio. Medical projects include outpatient surgery centers, patient care rooms, emergency medicine, surgery suites, labor & delivery suites, Magnetic Resonance Imaging and 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.

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



## References

### **Mr. Parry Petroplus**

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

*Projects: Charleston Federal Center  
Clarksburg Federal Center  
Two Waterfront Place  
Jackson Kelly Building  
Marina Tower*

### **Mr. Ron Selders**

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

*Project: Davis and Elkins College*

### **Mr. Mike Staud**

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

*Project: Trinity Christian School*

### **Mr. Tim Haring**

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

*Project: Chestnut Ridge Church*

### **Mr. Craig Walker**

Chief of Staff, President's Office  
West Virginia University  
103 Stewart Hall  
Morgantown, West Virginia  
(304) 293-8673

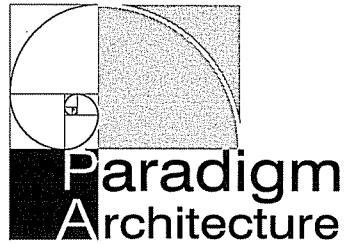
*Project: One Waterfront Place*

### **Mr. Larry Lawrence**

#### **Mr. Jim Decker**

Fairmont State University  
1201 Locust Avenue  
Fairmont, West Virginia  
(304) 367-4100

*Project: Fairmont State University*



## **Paul A. Walker, AIA**

President and Design Architect

Mr. Walker has twenty-six years of experience as an architect and received his registration in 1986. He became a business owner in October 2000 when he created Paradigm Architecture.

Mr. Walker's design responsibilities include programming, development of construction documents, project management, and construction administration. Among the variety of projects he has designed and supervised are: commercial, corporate, educational, governmental, industrial, institutional, recreational, religious, and residential. The scope of projects ranges from a few thousand dollars to over 30 million dollars.

### **EDUCATION**

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

### **ARCHITECTURAL REGISTRATION**

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

### **PROFESSIONAL, CIVIC AND OTHER ACTIVITIES**

American Institute of Architects  
Board Member, Chestnut Ridge Church

### **AWARDS AND HONORS**

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

Madden Student Center at Davis & Elkins College, Elkins, West Virginia  
*2004 Excellence in Construction Award, Associated Builders & Contractors, Inc.*

Two Waterfront Place Hotel & Conference Center, Morgantown, West Virginia  
The Jackson Kelly Building, Morgantown, West Virginia  
*2003 Excellence in Construction Award, Associated Builders & Contractors, Inc.*

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

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

# Paul A. Walker, AIA

President and Design Architect

## REPRESENTATIVE PROJECTS

### **Marina Tower**

**Morgantown, West Virginia**

Est. Completion Date: Summer 2007

Project Cost: \$10 Million

### **Davis and Elkins College**

**Athletic Center**

**Elkins, West Virginia**

Completion Date: Spring 2006

Project Cost: \$5.5 Million

### **Morgantown Event Center**

**Morgantown, West Virginia**

Completion Date: Winter 2009

Project Cost: \$26.3 Million

### **West Virginia University**

**Downtown Student Housing**

**Morgantown, West Virginia**

Completion Date: Summer 2009

Project Cost: \$15.3 Million

### **West Virginia University**

**Milan Puskar Stadium**

**Touchdown Terrace Club Addition**

**Morgantown, West Virginia**

Completion Date: Summer 2007

Project Cost: \$800,000

### **Waterfront Marina & Restaurant**

**Morgantown, West Virginia**

Completion Date: Fall 2007

Project Cost: \$1.5 Million

### **Davis and Elkins College**

**Benedum Hall**

**Elkins, West Virginia**

Completion Date: Summer 2003

Project Cost: \$1.5 Million

### **The Jackson Kelly Building**

**Morgantown, West Virginia**

Completion Date: Spring 2002

Project Cost: \$4.5 Million, Shell

### **Chestnut Ridge Church**

**Morgantown, West Virginia**

Completion Date: Fall 2006

Project Cost: \$12 Million

### **Fairmont State University**

**Parking Facility**

**Fairmont, West Virginia**

Completion Date: Spring 2004

Project Cost: \$10 Million

### **Waterfront Parking Garage\***

**Morgantown, West Virginia**

Completion Date: Summer 2003

Project Cost: \$8.2 Million

### **Two Waterfront Place**

**Hotel & Conference Center**

**Morgantown, West Virginia**

Completion Date: Summer 2003

Project Cost: \$35 Million

### **One Waterfront Place\***

**Morgantown, West Virginia**

Completion Date: Summer 2001

Project Cost: \$21.3 Million

### **Charleston Federal Center\***

**Charleston, West Virginia**

Completion Date: Winter 2000

Project Cost: \$10 Million

### **Clarksburg Federal Center\***

**Clarksburg, West Virginia**

Completion Date: Spring 1999

Project Cost: \$7.5 Million

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

2450 Valleydale Road • Suite 150

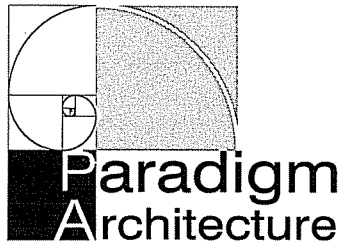
Birmingham, AL 35244

Tele 205•403•2742 205•403•2743 Fax

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Morgantown, WV 26508

Tele 304•284•5015 304•284•5014 Fax



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

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

**EDUCATION**

Auburn University, Auburn, Alabama  
Bachelor of Architecture, 1984

Roofing Technology  
The Roofing Industry Educational Institute, 1995

**ARCHITECTURAL REGISTRATION**

North Carolina No. 05151  
Alabama – Pending

**PROFESSIONAL, CIVIC AND OTHER ACTIVITIES**

American Institute of Architects

**AWARDS AND HONORS**

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

Two Waterfront Place, Morgantown, West Virginia  
Excellence in Construction Award, Association of Building Contractors

The Jackson Kelly Building, Morgantown, West Virginia  
Excellence in Construction Award, Association of Building Contractors

Russell Cancer Center, Alexander City, Alabama  
Excellence in Construction Award, Association of Building Contractors

# David H. Snider, AIA

Project Manager / Architect

## REPRESENTATIVE PROJECTS

**Two Waterfront Place**  
**Morgantown, West Virginia**  
Completion Date: Summer 2003  
Project Cost: \$35 Million

**Lanier Hospital**  
**Ambulatory Surgery Center**  
**Valley, Alabama**  
Completion Date: 2005  
Project Cost: \$4.2 Million

**Lanier Hospital**  
**ICU/Cardiopulmonary Renovations**  
**Valley, Alabama**  
Completion Date: Winter 2007  
Project Cost: \$1.5 Million

**Lanier Hospital**  
**Pharmacy Renovations**  
**Valley, Alabama**  
Completion Date: Winter 2007  
Project Cost: \$366,000

**Russell Medical Center**  
**Cardiopulmonary/Pharmacy Renovations**  
**Alexander City, Alabama**  
Completion Date: Spring 2007  
Project Cost: \$576,000.00

**Russell Medical Center**  
**Professional Office Building #3**  
**Alexander City, Alabama**  
Completion Date: Winter 2004  
Project Cost: \$4.2 Million

**Russell Medical Center**  
**Physical Therapy Fit-up**  
**Alexander City, Alabama**  
Completion Date: Winter 2004  
Project Cost: \$1.6 Million

**The Jackson Kelly Building**  
**Morgantown, West Virginia**  
Completion Date: Spring 2002  
Project Cost: \$4.5 Million, Shell

**Russell Medical Center**  
**Cancer Center\***  
**Alexander City, Alabama**  
Completion Date: Spring 2001  
Project Cost: \$3.2 Million

**Russell Medical Center**  
**Women's Center & Sleep Lab**  
**Alexander City, Alabama**  
Completion Date: Summer 2006  
Project Cost: \$150,000.00/\$116,500.00

**Temple Beth-El**  
**Social Hall Renovations**  
**Birmingham, Alabama**  
Completion Date: Summer 2004  
Project Cost: \$1 Million

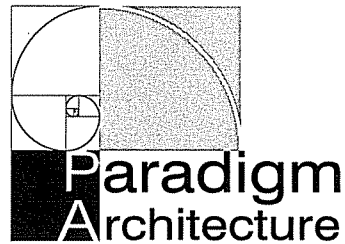
**Wilton Bible Baptist Fellowship Hall**  
**Wilton, Alabama**  
Completion Date: Winter 2004  
Project Cost: \$875,000

**Russell Medical Center**  
**MRI and Open MRI Addition**  
**Alexander City, Alabama**  
Completion Date: 2005  
Project Cost: \$1 Million

**Russell Medical Center\***  
**Alterations and Additions**  
**Alexander City, Alabama**  
Completion Date: Spring 1998  
Project Cost: \$18.2 Million

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



## **Grant T. Gramstad, AIA**

Project Architect

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

### **EDUCATION**

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

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

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

### **ARCHITECTURAL REGISTRATION**

Alabama No. 4897

### **PROFESSIONAL, CIVIC AND OTHER ACTIVITIES**

American Institute of Architects

Certified Construction Contract Administrator

### **AWARDS AND HONORS**

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

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

Two Waterfront Place, Morgantown, West Virginia  
Excellence in Construction Award, Association of Building Contractors

The Jackson Kelly Building, Morgantown, West Virginia  
Excellence in Construction Award, Association of Building Contractors

# Grant T. Gramstad, AIA

Project Architect

## REPRESENTATIVE PROJECTS

### **Marina Tower**

**Morgantown, West Virginia**

Est. Completion Date: Summer 2007

Project Cost: \$10 Million

### **City Hall & Police Department**

**Renovations for**

**City of Trussville**

**Trussville, Alabama**

Completion Date: Summer 2003

Project Cost: DND

### **Performance Fitness &**

**Trussville Rehab**

**Trussville, Alabama**

Completion Date: Fall 2003

Project Cost: \$1.5 Million

### **Lightning Strikes**

**Trussville Family Fun Center**

**Trussville, Alabama**

Completion Date: Spring 2004

Project Cost: \$7 Million

### **Mutual Savings Credit Union**

**Renovations to Trussville Branch**

**Trussville, Alabama**

Completion Date: Spring 2004

Project Cost: DND

### **Russell Medical Center**

**Professional Office Building #3**

**Alexander City, Alabama**

Completion Date: Spring 2004

Project Cost: \$4.2 Million

### **The Foundry**

**Women & Children's Center**

**Bessemer, Alabama**

Estimated Completion Date: Fall 2007

Project Cost: DND

### **The Suncrest Corporate Center**

**Morgantown, West Virginia**

Completion Date: Spring 2001

Project Cost: \$1.1 Million

### **Glade Springs Resort**

**and Conference Center**

**Daniels, West Virginia**

Completion Date: Fall 2005

Project Cost: \$6 Million

### **Charleston Federal Center\***

**Charleston, West Virginia**

Completion Date: Winter 2000

Project Cost: \$10 Million

### **Two Waterfront Place**

**Morgantown, West Virginia**

Completion Date: Summer 2003

Project Cost: \$35 Million

### **The Jackson Kelly Building**

**Morgantown, West Virginia**

Completion Date: Spring 2002

Project Cost: \$4.5 Million, Shell

### **Fairmont State University**

**Parking Facility**

**Fairmont, West Virginia**

Completion Date: Spring 2004

Project Cost: \$10 Million

### **Waterfront Marina & Restaurant**

**Morgantown, West Virginia**

Completion Date: Summer 2007

Project Cost: \$1.5 Million

### **Mountaintop Community Church**

**Family Life Center**

**Vestavia Hills, Alabama**

Estimated Completion Date: Spring 2008

Project Cost: DND

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

2450 Valleydale Road • Suite 150

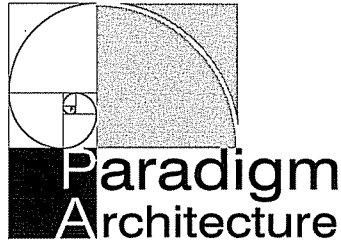
Birmingham, AL 35244

Tele 205•403•2742 205•403•2743 Fax

2223 Cheat Road • Suite 300

Morgantown, WV 26508

Tele 304•284•5015 304•284•5014 Fax



## **Jonathan L. Perry, AIA**

Project Manager

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

### **EDUCATION**

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

Politechnika Krakowska, Krakow, Poland  
Semester Abroad, 1998

### **ARCHITECTURAL REGISTRATION**

West Virginia No. 3953 - received June 2007

### **PROFESSIONAL, CIVIC AND OTHER ACTIVITIES**

American Institute of Architects

Construction Documents Technologist

### **AWARDS AND HONORS**

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

Russell Cancer Center, Alexander City, Alabama  
*Excellence in Construction Award, Association of Building Contractors, Inc.*

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

# **Jonathan L. Perry, AIA**

Project Manager

## **REPRESENTATIVE PROJECTS**

### **Hampton Center Renovations**

**Morgantown, West Virginia**

Completion Date: Fall 2007

Project Cost: \$619,000

### **West Virginia University**

**Milan Puskar Stadium**

### **Touchdown Terrace Club Addition**

**Morgantown, West Virginia**

Completion Date: Summer 2007

Project Cost: \$800,000

### **The Dayton Student Housing**

**Morgantown, West Virginia**

Completion Date: Fall 2008

Project Cost: \$3.3 Million

### **Avery Court**

### **Town Homes & Condominiums**

**Parkersburg, WV**

Completion Date: To Be Determined

Project Cost: \$6.5 Million

### **Fairmont State University**

### **Colebank Hall Data Center Build-Out**

**Fairmont, West Virginia**

Completion Date: May 2007

Project Cost: \$400,000

### **Fairmont State University**

### **Colebank Hall Renovations**

**Fairmont, West Virginia**

Completion Date: December 2006

Project Cost: \$767,000

### **Fairmont State University**

### **Conference Center Fit-up**

**Fairmont, West Virginia**

Completion Date: November 2006

Project Cost: \$770,000

### **Davis and Elkins College**

**Athletic Center**

**Elkins, West Virginia**

Completion Date: Spring 2006

Project Cost: \$5.5 Million

### **Trinity Christian School**

**Morgantown, West Virginia**

Completion Date: Summer 2004

Project Cost: \$5 Million

### **The View at the Park Condominiums**

**Morgantown, West Virginia**

Completion Date: Summer 2004

Project Cost: \$8 Million

### **Fairmont State University**

**Parking Facility**

**Fairmont, West Virginia**

Completion Date: Spring 2004

Project Cost: \$10 Million

### **Fairmont State University**

**Morrow Hall Renovation**

**Feasibility Study**

**Fairmont, West Virginia**

Completion Date: To Be Determined

Project Cost: \$4.3 Million

### **Fairmont State University**

### **Parking Deck Feasibility Study**

**Fairmont, West Virginia**

Completion Date: To Be Determined

Project Cost: \$15 Million

### **Two Waterfront Place**

**Hotel & Conference Center**

**Morgantown, West Virginia**

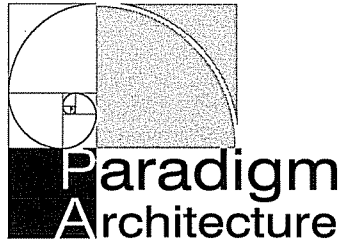
Completion Date: Summer 2003

Project Cost: \$35 Million

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

2450 Valleydale Road • Suite 150  
Birmingham, AL 35244  
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2223 Cheat Road • Suite 300  
Morgantown, WV 26508  
Tele 304•284•5015 304•284•5014 Fax



## **Shelley Johnson**

Interior Designer

Mrs. Johnson has a combined eleven years of experience in commercial and residential interior design disciplines and has been with Paradigm Architecture for the last five years.

Her responsibilities include programming design, space planning, development of construction drawings and documents, project management tasks, creating marketing proposals, and specifying interior finish details. Project types have included commercial, corporate, educational, governmental, institutional, recreational, residential, and retail.

### **EDUCATION**

West Virginia University  
Morgantown, West Virginia  
Bachelor of Science in Interior Design  
Cum Laude, 1997

### **AWARDS AND HONORS**

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

# Shelley Johnson

Interior Designer

## REPRESENTATIVE PROJECTS

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

**Jackson Kelly Building Office Fit-ups**  
**DMJM + Harris**  
**National Biometrics Security Project**  
**Simpson & Osborne**  
**Met Life**  
**Luttner Financial**  
**Morgantown, West Virginia**  
Tenant Fit-ups 2002-2005

**Petroplus & Associates, Inc. Office**  
**West Virginia Public Theatre Office**  
**Riverfront Terrace Meeting Room**  
**Waterfront Fitness Center**  
**Waterfront Spa & Salon**  
**Two Waterfront Place**  
**Morgantown, West Virginia**  
Interior Build-Outs 2003-2005

**WVU Downtown Student Housing**  
**Morgantown, West Virginia**  
Completion Dates: Summer 2009  
Project Cost: \$17.65 Million

**Boathouse Bistro Restaurant**  
**Morgantown, West Virginia**  
Completion Date: Summer 2007  
Project Cost: \$700,000

**The Residences at Waterfront Place**  
**13 Condos & Penthouse**  
**Morgantown, West Virginia**  
Completion Dates: 2003 - 2007  
Estimated Project Cost: \$10 Million

**GSA Offices**  
**Department of Agriculture**  
**Department of Energy**  
**Morgantown, West Virginia**  
Completion Dates: to be determined  
Project Costs: \$6 Mil & \$8 Mil

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

**Fairmont State University**  
**Conference Center Fit-up**  
**Colebank Hall Renovations**  
**Fairmont, West Virginia**  
Completion Date: Nov/Dec 2006  
Project Costs: \$770,000 & \$767,000

**Trinity Christian School**  
**Morgantown, West Virginia**  
Completion Date: Summer 2004  
Project Cost: \$5 Million

**Laidley Tower Interior Improvements**  
**Lobby, Skywalk, Elevator Lobbies**  
**Anne's Hair Specialties**  
**Charleston, West Virginia**  
Completion Date: 2003-2004

**The View at the Park**  
**Morgantown, West Virginia**  
Completion Date: Summer 2004  
Project Cost: \$8 Million

**Avery Court**  
**Town Homes & Condominiums**  
**Parkersburg, West Virginia**  
Completion Date: To Be Determined  
Project Cost: \$6.5 Million

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Tele 304•284•5015 304•284•5014 Fax

# JACKSON KELLY

## 150 CLAY STREET

Morgantown, West Virginia

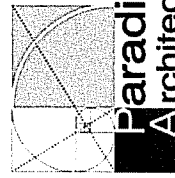
Designed to fit its historic context in the Wharf District, this 50,000 square foot office building houses multiple business tenants, including Jackson Kelly, PLLC, Paradigm Architecture, Simpson & Osborne, Metlife, Luttner Financial, and National Biometric Security Project, with restaurant functions on the first floor.

Completion Date: Spring 2002

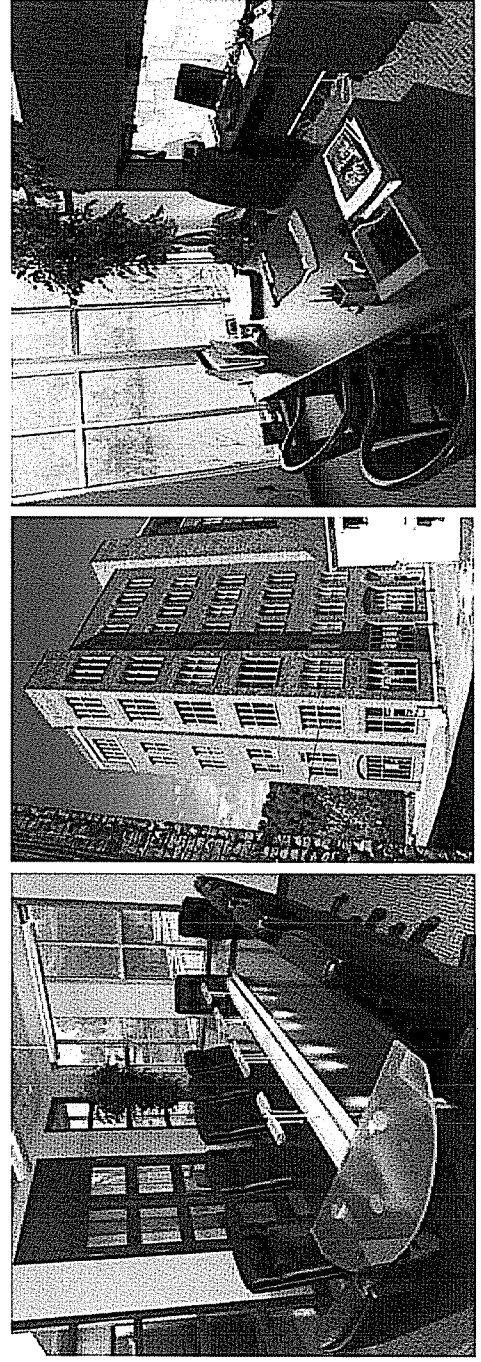
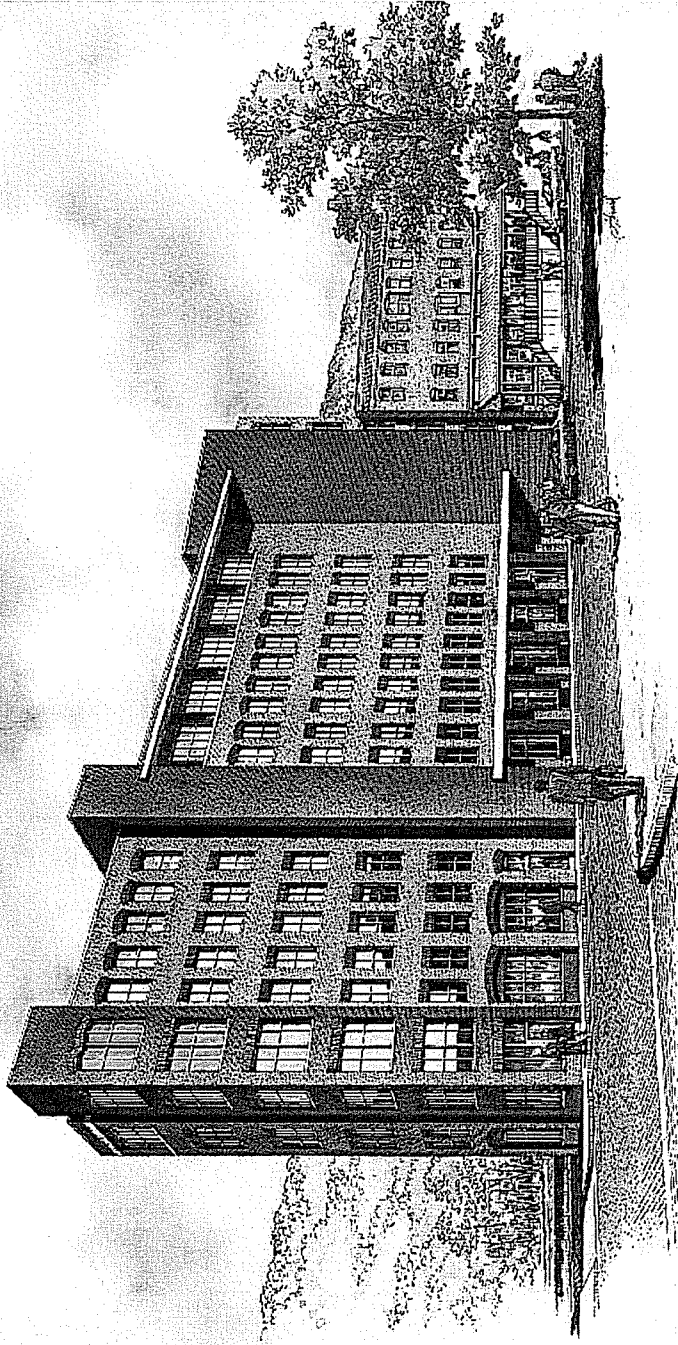
Project Cost: \$4.5 Million, Shell Building

Owner/Developer: Platinum Properties  
Two Waterfront Place  
Morgantown, WV, 26501  
(304) 284-5000

Contractor: March-Westin Company



**Paul A. Walker, AIA**  
Design Architect  
**David H. Snider, AIA**  
Project Manager  
**Grant T. Gramstad, AIA**  
Project Architect



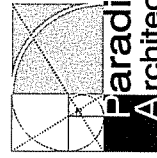
# ONE WATERFRONT PLACE

Morgantown, West Virginia

A seven story, 170,000 square foot office building housing the West Virginia University Foundation and West Virginia University Administrative Services, which include: Television Services, The Visitors Center, Human Resources, Finance and Information Services.

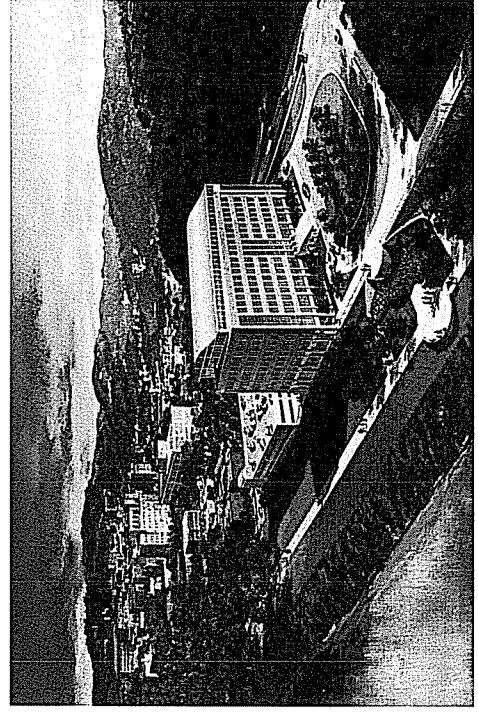
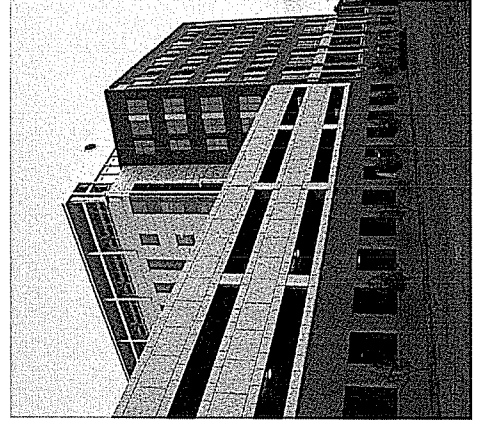
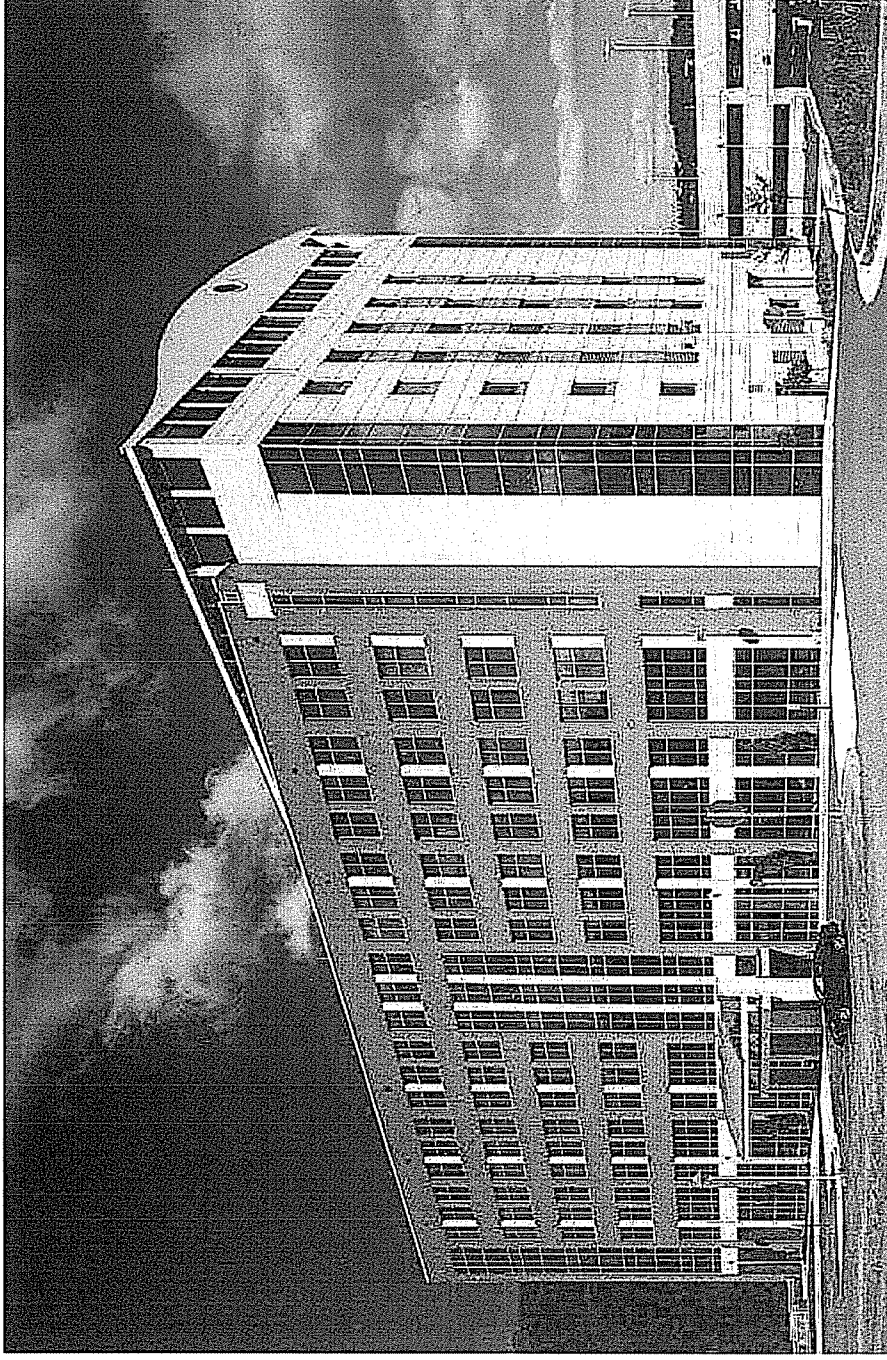
Completion Date: Summer 2001  
Project Cost: \$25 Million

Owner: WVU Foundation  
Developer: Platinum Properties  
Contractor: March-Westfin Company



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

Evan Terry Associates, P.C.  
Architect of Record



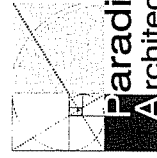
# SUNCREST CORPORATE CENTER

Morgantown, West Virginia

Two-story 12,000 square foot traditional office building in the Suncrest neighborhood of Morgantown with spectacular views of the Evansdale Campus.

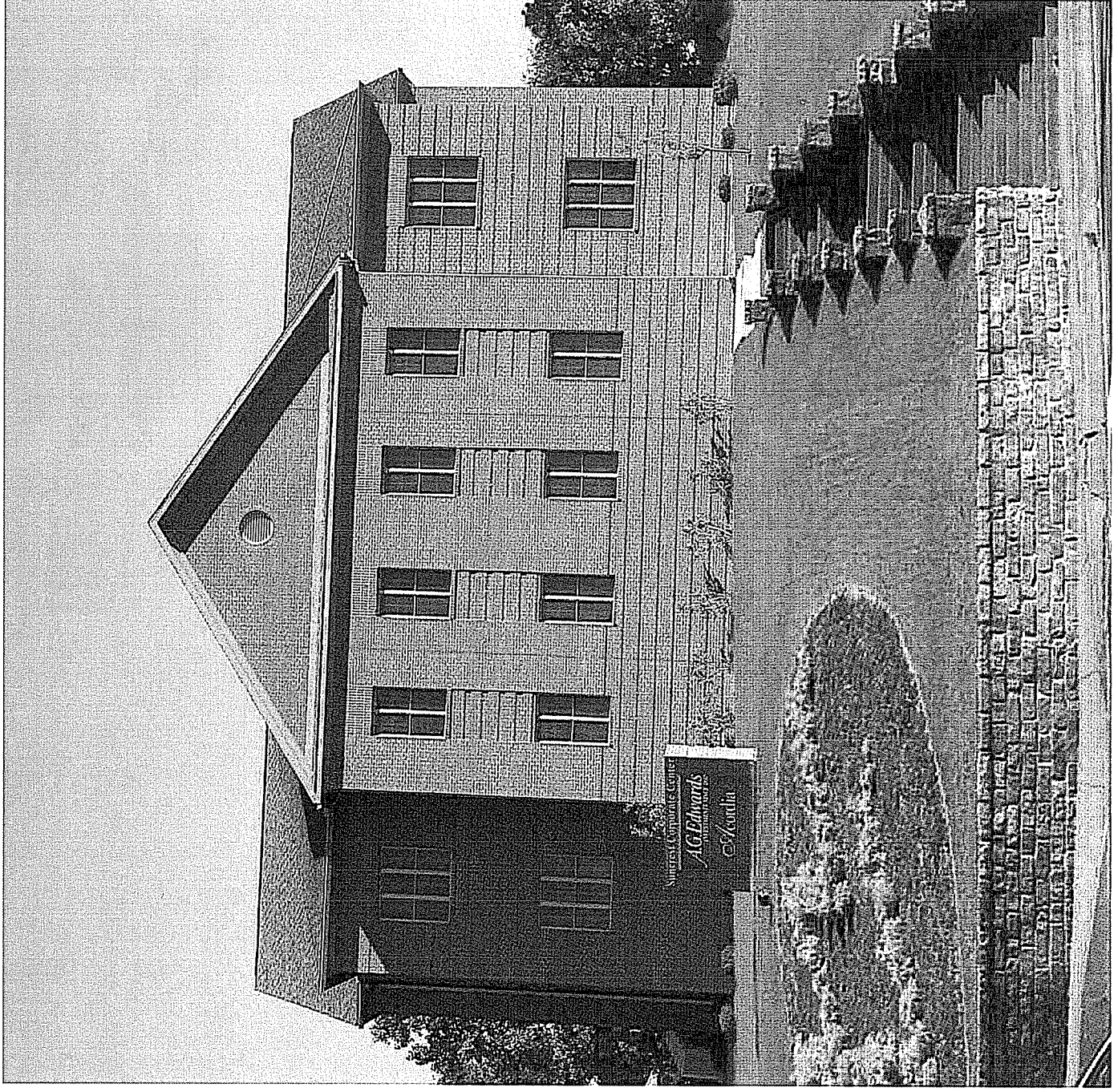
Completion Date: Spring 2001  
Project Cost: \$1.1 Million

Owner/Developer: Platinum Properties  
Contractor: March-Westin Company



**Paradigm  
Architecture**

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

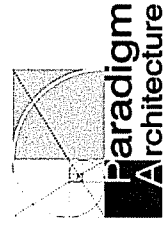


# MARINA TOWER

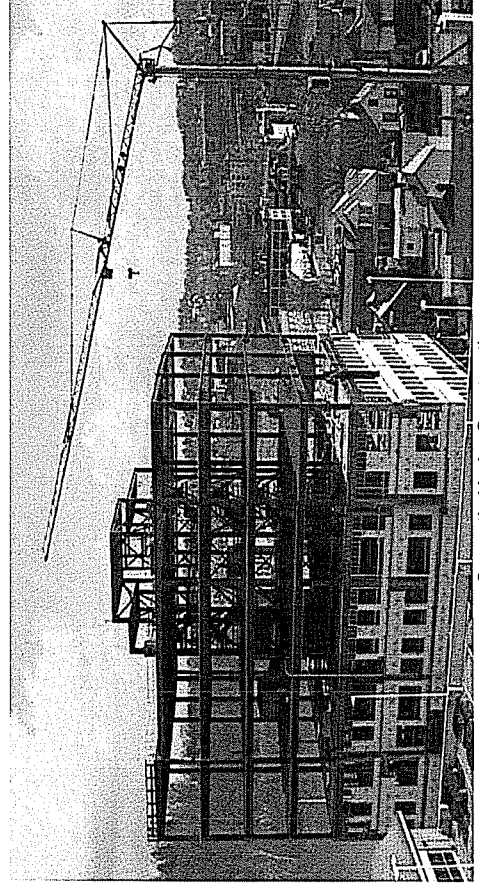
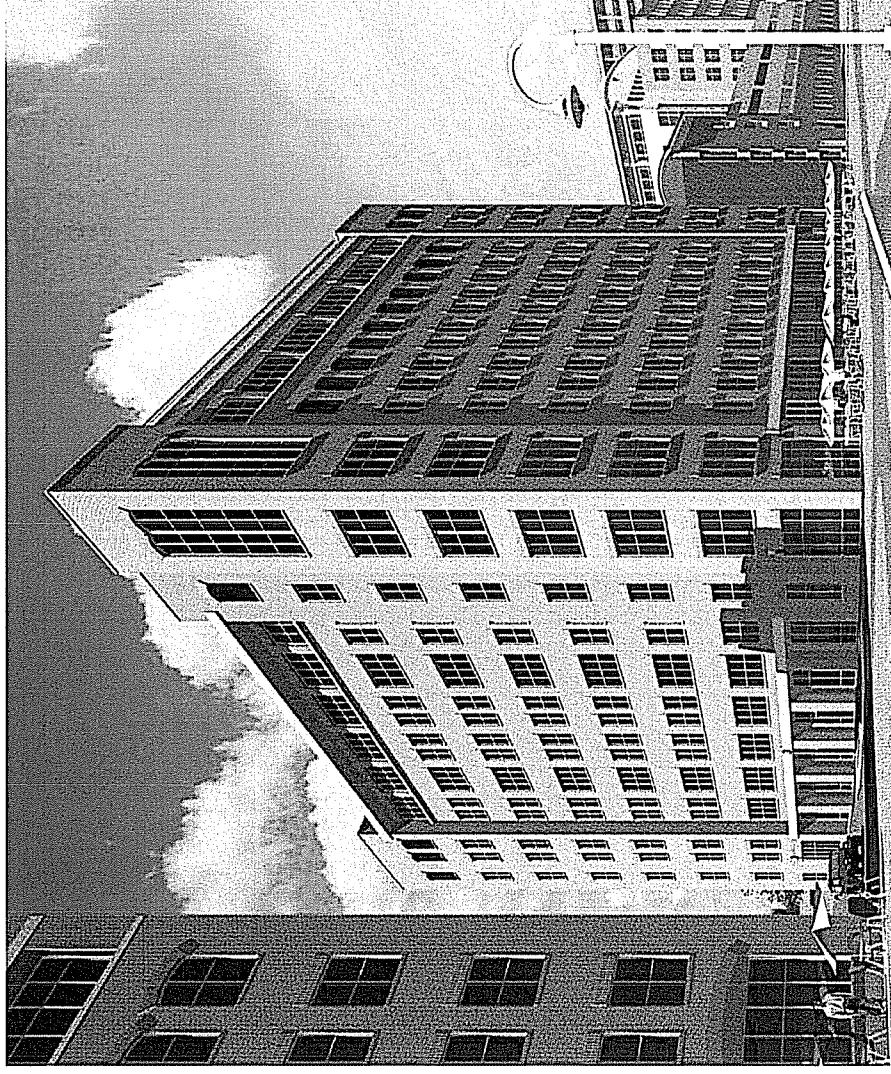
Morgantown, West Virginia

An eight story office building with retail / dining elements on the first level located along the rail trail in Morgantown's Wharf District. Situated between the Jackson Kelly Building and the Waterfront Parking Garage, Marina Tower is the sixth addition to the Waterfront Master Plan.

Estimated Completion Date: Fall 2008  
Project Cost: \$10 Million Shell  
Morgantown, West Virginia 26505  
Owner: Platinum Properties  
Developer: Platinum Properties



Paul A. Walker, AIA  
Design Architect



Currently Under Construction

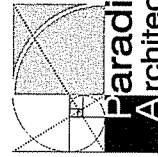
# CLARKSBURG FEDERAL CENTER

Clarksburg, West Virginia

National design competition for design of a new 65,000 square foot office building to consolidate Federal Government Agencies into a new structure in a historic district.

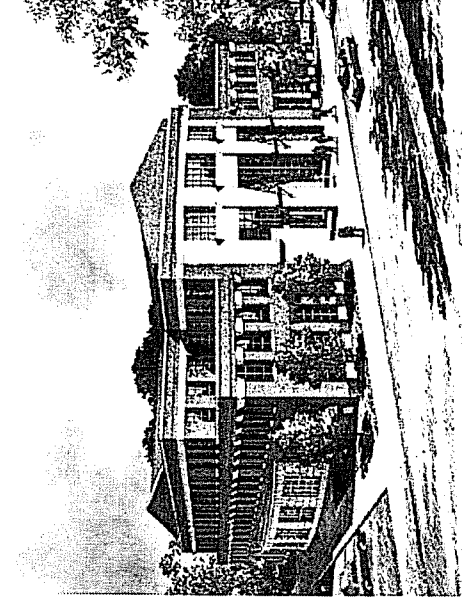
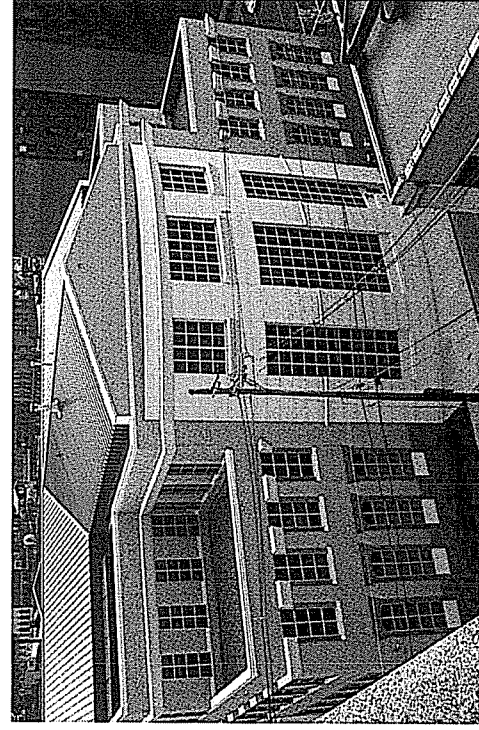
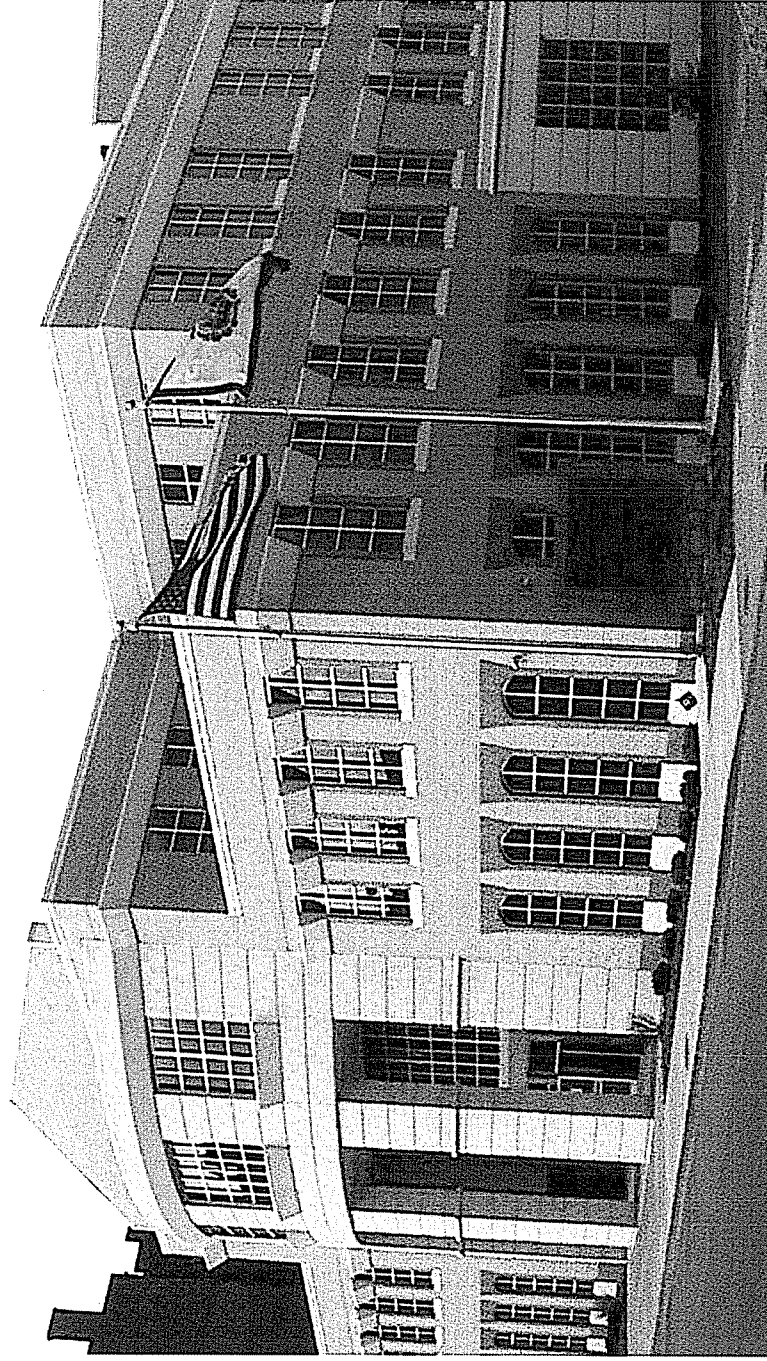
Completion Date: Summer 2001  
Project Cost: \$9 Million

Owner: Platinum Properties, LLC  
Developer: Platinum Properties, LLC  
Contractor: March-Westin Company



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

Gates Calloway Moore & West  
Architect of Record



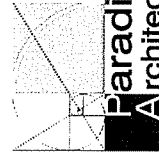
# CHARLESTON FEDERAL CENTER

Charleston, West Virginia

Renovation of a 110,000 square foot former federal courthouse to provide office space for Social Security. This commission was awarded through a national design competition. This project was awarded an Excellence in Construction Award by the Association of Building Contractors. It also received a Development Project Special Recognition Award 2000, presented by the Charleston Renaissance Corporation.

Completion Date: Winter 2000  
Project Cost: \$10 Million

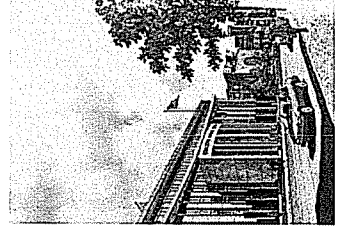
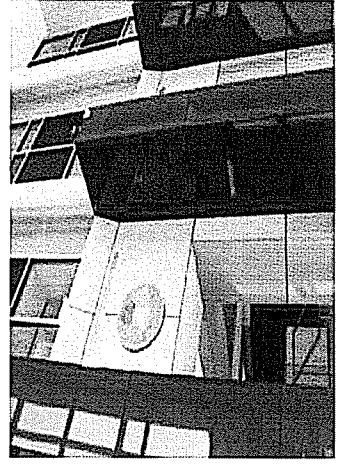
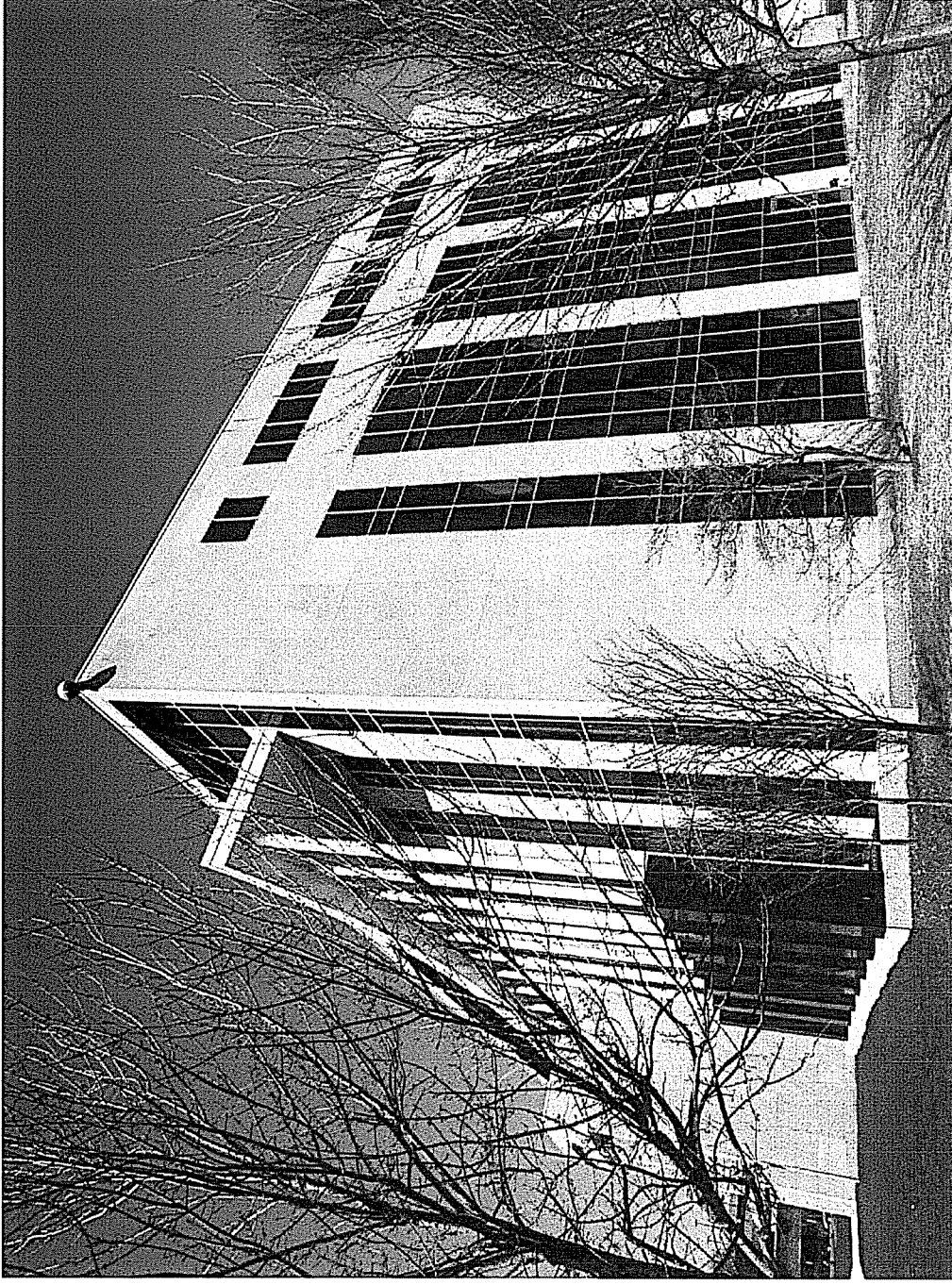
Owner: Platinum Properties  
Contractor: March-Westin Company



**Paradigm  
Architecture**

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

Evan Terry Associates, P.C.  
Architect of Record



# DAVIS & ELKINS COLLEGE

## ATHLETIC CENTER

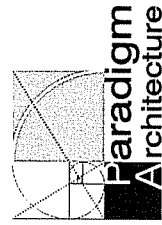
Elkins, West Virginia

The proposed 40,000 SF athletic center will have a gymnasium and seating for 1,200 spectators. The center also will include locker/shower room facilities for basketball, volleyball, and soccer. The lobby will hold a sports hall of fame and concessions. In addition, offices for athletic and physical education are planned.

Completion Date: Spring 2007  
Project Cost: \$5.5 Million  
(approx. \$135 per SF)

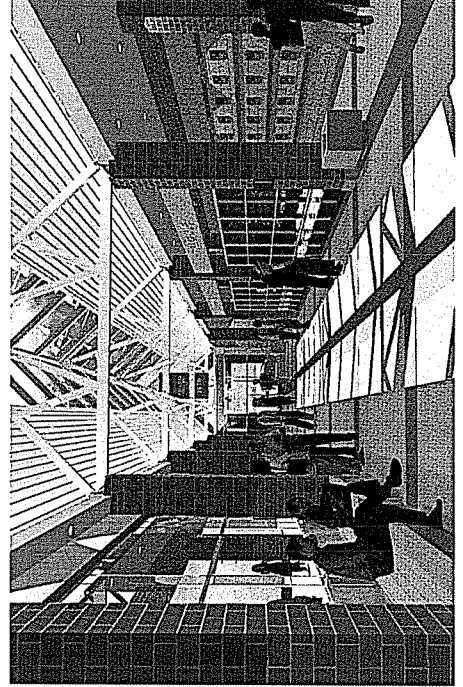
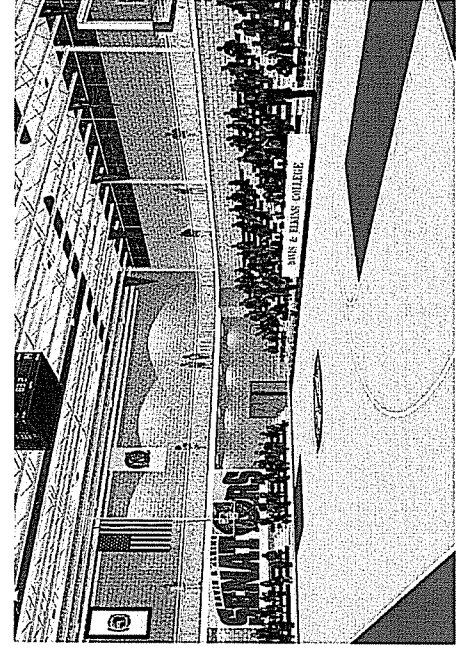
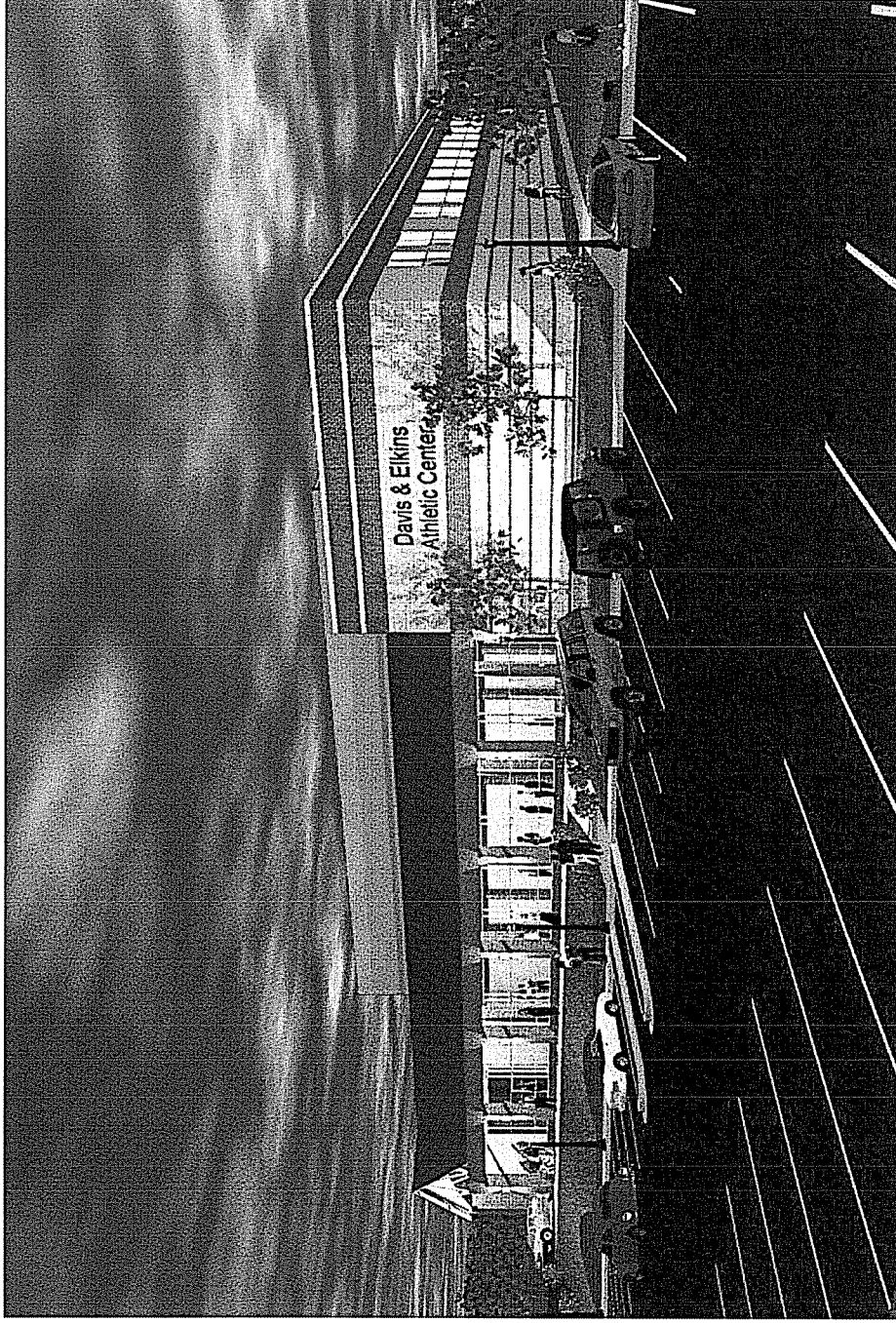
Owner: Davis & Elkins College  
100 Campus Drive  
Elkins, WV 26241  
Contact: Dr. Thomas Mann  
(304) 637-1900

Contractor: March –Westin Company



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

**Jonathan Perry**  
Project Architect



# TRINITY CHRISTIAN SCHOOL

Morgantown, West Virginia

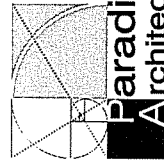
A new facility for Trinity Christian School is being built in a series of five phases. The 57,000 sq. ft. phase 1 was completed in 2004 providing students with art and music classrooms, science labs, a gymnasium, new administration and counseling offices, and a large entry lobby.

Phase 2 was completed in 2005 with the addition of a new elementary school wing. Future phases will include a fine arts center, a practice gym, additional classrooms, and outdoor playing fields.

Completion Date: To Be Determined  
Project Cost: Phase 1 \$6 Million (approx. \$105/SF)

Owner/Developer: Trinity Christian School  
200 Trinity Way  
Morgantown, WV 26505  
(304) 291-4659

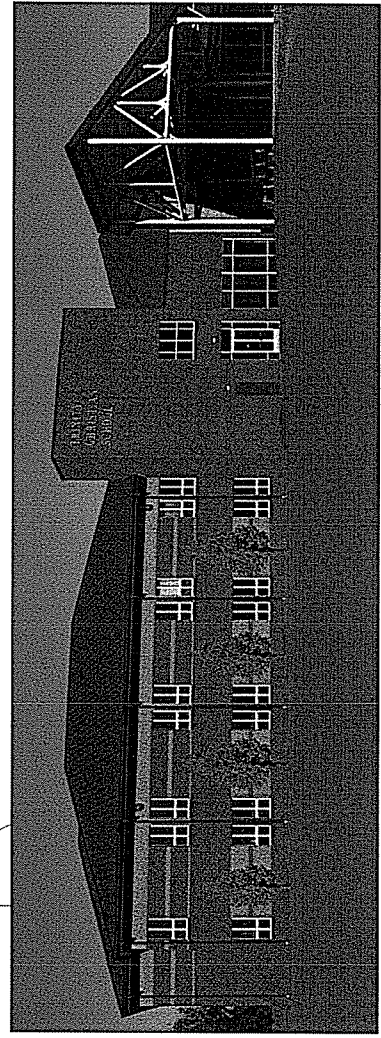
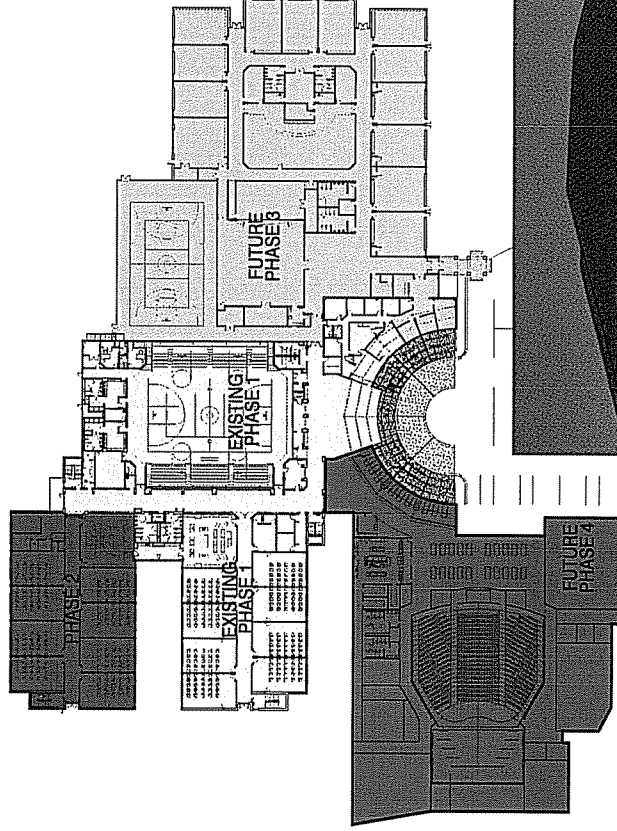
Contractor: Cook Brothers  
Building and Excavating



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

**Jonathan Perry**  
Project Manager

**Shelley Johnson**  
Interior Designer



# CHESTNUT RIDGE CHURCH

Morgantown, West Virginia

A 2000+ seat auditorium in the non-denominational church in the Cheat Lake area.

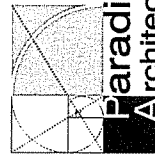
Includes two additional chapels, a gymnasium, teen center, classrooms, a three story administration building, and 8400 square feet of circulation / lobby space.

Surrounded by landscaping and sidewalks, the parking lot accommodates 750 spaces.

Completion Date: Fall 2006  
Project Cost: \$10 Million

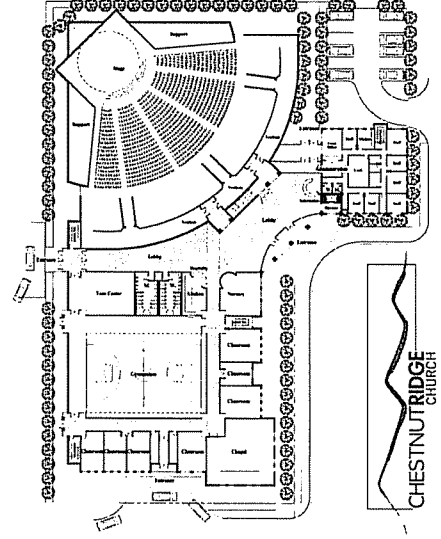
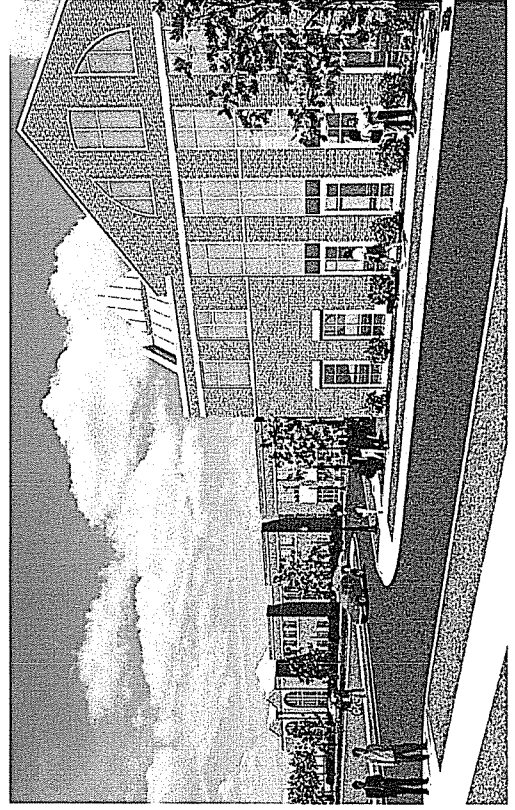
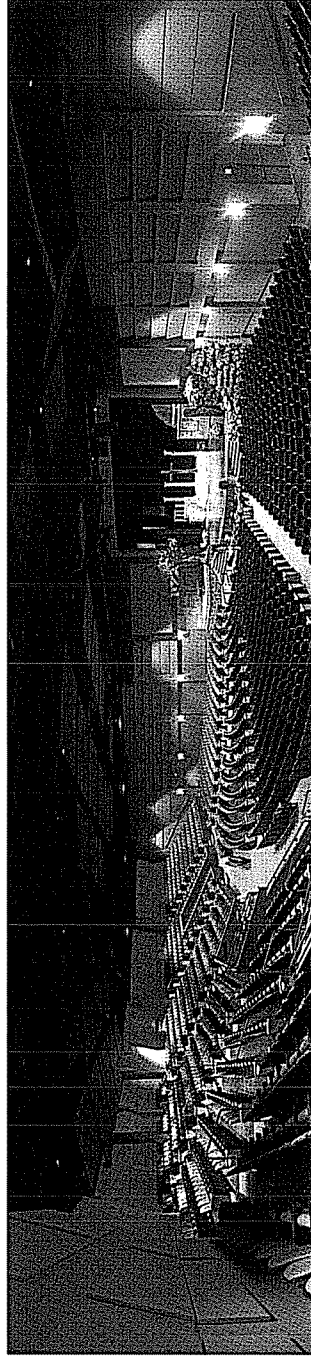
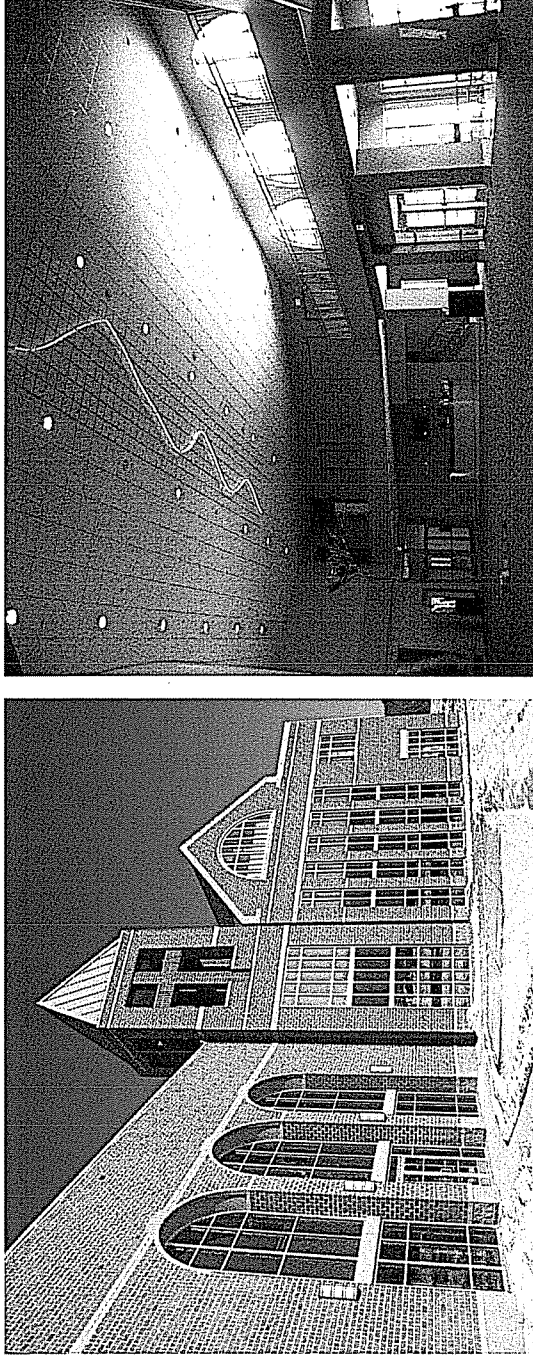
Owner: Chestnut Ridge Church  
Morgantown, WV, 26508  
(304) 594-0548

Contractor: March-Westin Company



**Paradigm  
Architecture**

**Paul A. Walker, AIA**  
Design Architect and Project Manager  
**Steve Konya**  
Technical Support  
**Shelley Johnson**  
Interior Designer



# TWO WATERFRONT PLACE

Morgantown, West Virginia

A seventeen story hotel, conference center, retail, dining, and residential mixed-use facility in the Waterfront District.

Additional features include an indoor pool, athletic club, day-spa/salon, and private parking for residents.

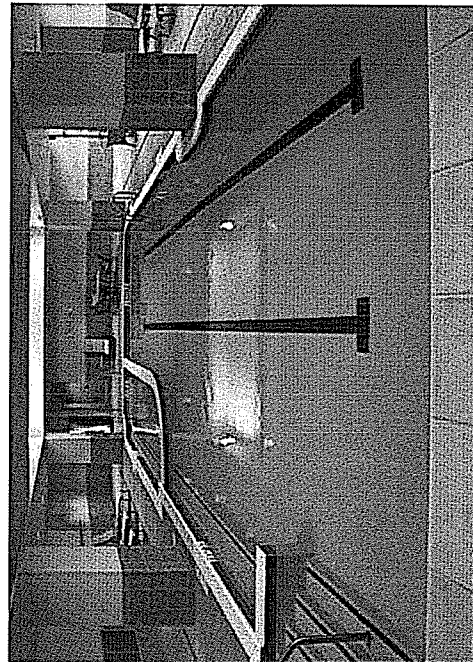
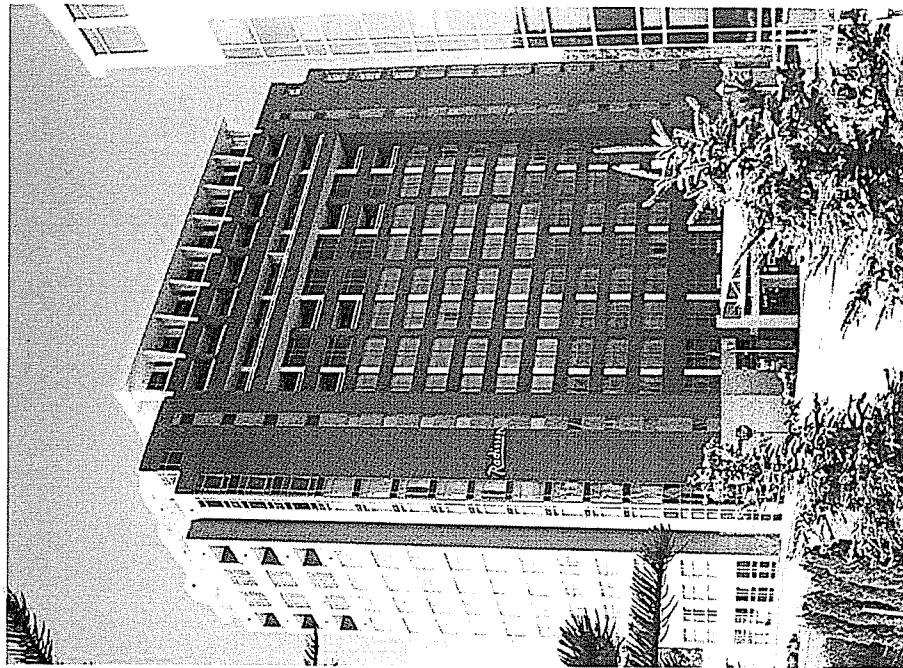
Completion Date: Summer 2003  
Project Cost: \$35 Million

Owner/Developer: Platinum Properties  
Two Waterfront Place  
Morgantown, WV, 26501  
(304) 284-5000

Contractor: March-Westin Company



**Paul A. Walker, AIA**  
Design Architect  
**David H. Snider, AIA**  
Project Manager  
**Grant T. Gramstad, AIA**  
Project Architect



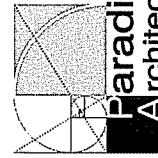
# MORGANTOWN EVENTS CENTER and PARKING GARAGE

Morgantown, West Virginia

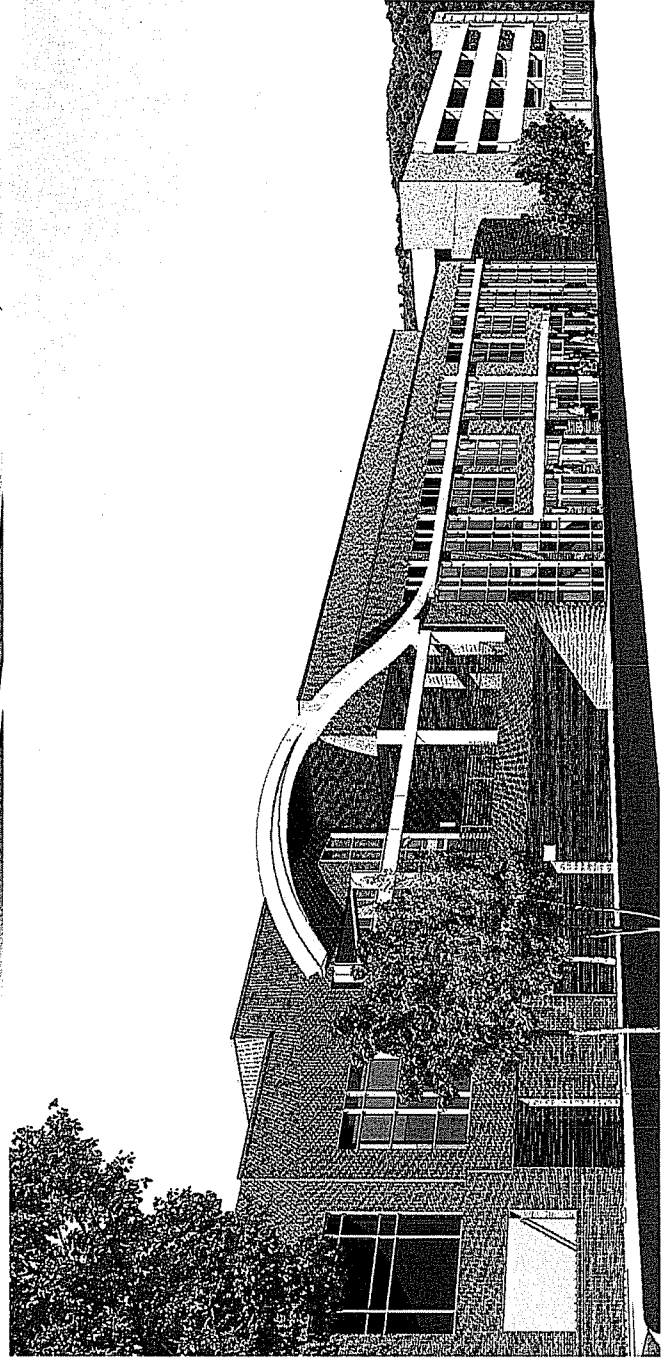
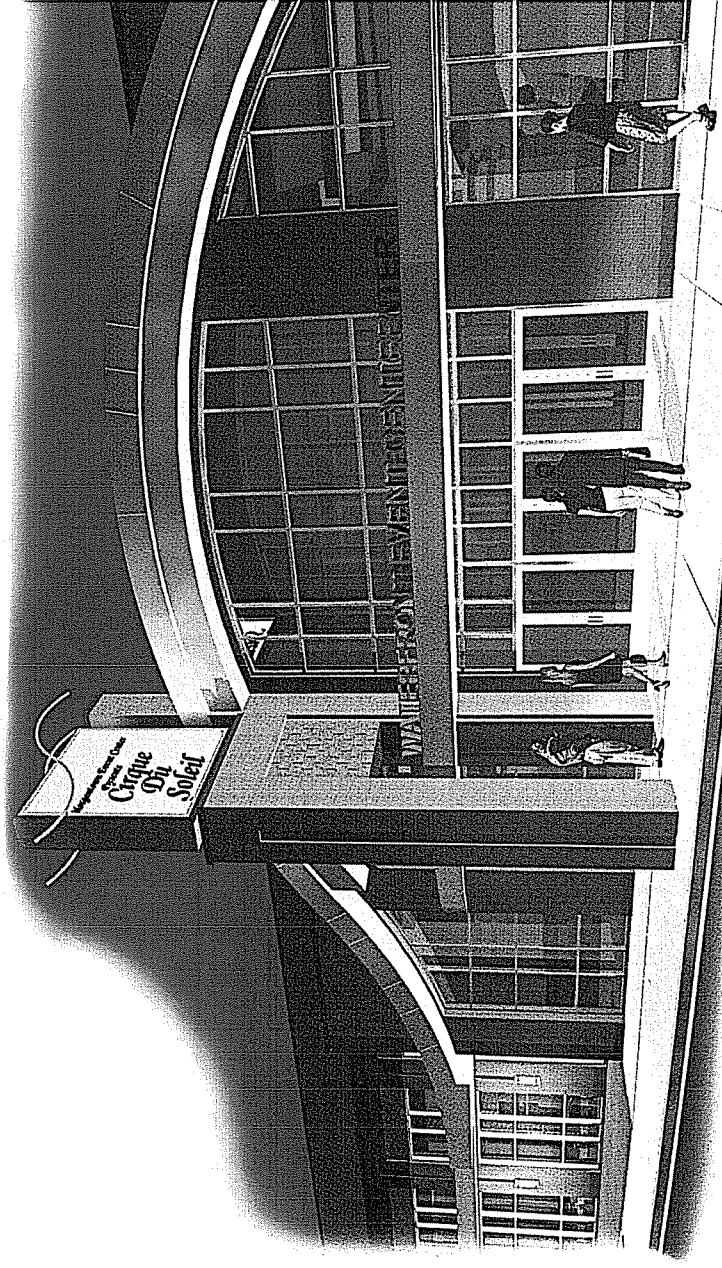
The 80,000 square foot Morgantown Event Center and 300 space Parking Garage will be located adjacent to the Waterfront Place Hotel and Conference Center along the Monongahela River in Morgantown. The large main event room is designed to accommodate a variety of event types including concerts, plays, boxing matches, banquets and conventions. The facility also features a full catering kitchen and support spaces.

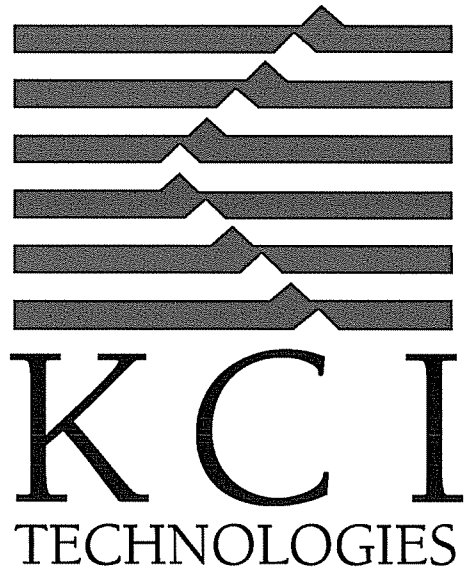
Completion Date: Winter 2009  
Project Cost: \$26.3 Million

Owners  
Event Center: Platinum Properties  
Parking Garage: City of Morgantown



Paul A. Walker, AIA  
Design Architect





## **Civil Engineering**

KCI Technologies, Inc  
240 Scott Avenue, Suite 2  
Morgantown, WV 26508  
[www.kci.com](http://www.kci.com)



## FIRM PROFILE

### Introduction to KCI Technologies, Inc.

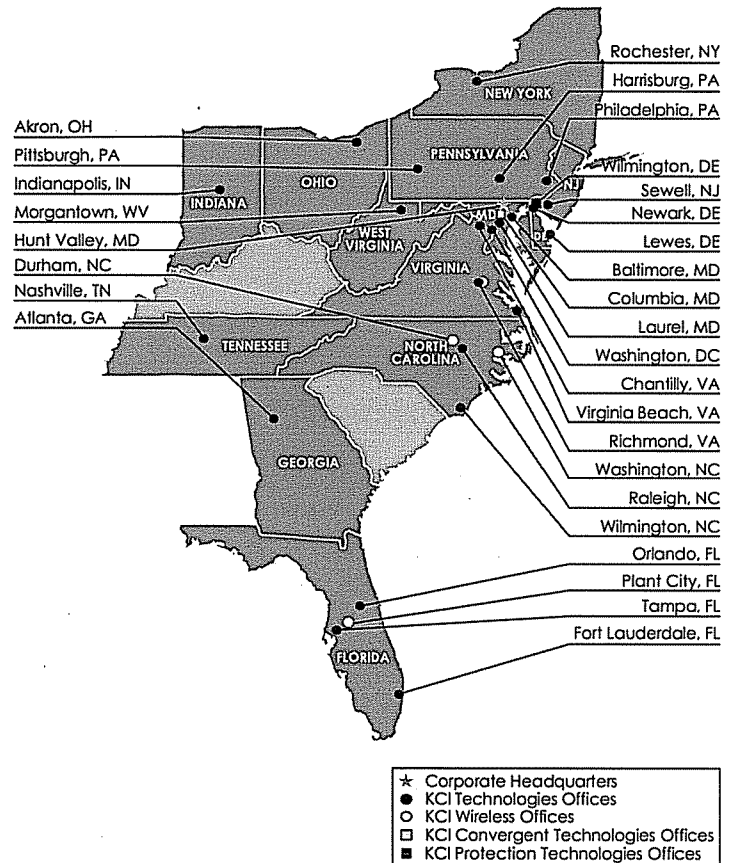
**Early Corporate History** -KCI Technologies, Inc., traces its corporate history to a Baltimore firm founded in 1955. In the early-1970s, the firm---along with a number of other privately held engineering companies-joined Kidde, Inc., and became known in 1978 as Kidde Consultants, Inc. During the 1980s,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

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

With revenues of \$121 million in 2006, KCI Technologies is ranked 83rd among the top consulting engineering firms in the country by the Engineering News Record. Today, the employee-owned, multi-disciplined engineering firm employs almost 1,000 people operating in 29 offices in 13 states--Delaware, Florida, Georgia, Indiana, Maryland, North Carolina, Ohio, Pennsylvania, Virginia, and West Virginia-as well as the District of Columbia.

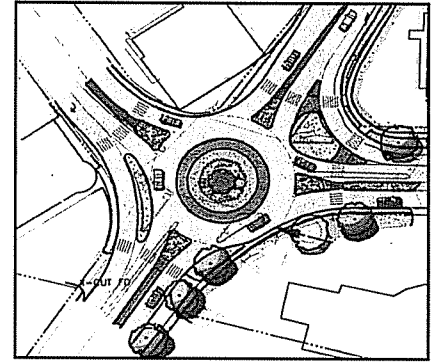
**Technical Expertise**- With a professional staff of engineers, planners, scientists, surveyors, and construction managers, we offer a broad range of engineering services, including civil, structural, transportation, environmental, hazardous waste, mechanical, electrical, telecommunications, and soils.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

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



## Professional Services

**Site Development / Planning** – The planning and design of revitalization projects, particularly in an urban setting, require unique design guidelines. Every urban planning and design or revitalization project has several key elements to be addressed. These issues are intended to ensure a successful project while enacting certain improvements to the commercial, rural, or residential areas in and around the project's urban area. Many projects seek to preserve and conserve the existing historic or "small town" atmosphere, while revitalizing commercial and business districts. Initial studies and subsequent design includes those residents, businesses, and community concerns in and around the project site. The entire project becomes a joint effort between the client, the project team, neighborhoods, businesses and community concerns.



**Site Engineering** – KCI Technologies provides private industry as well as Federal, State, and local government agencies with the expertise and resources necessary to deliver large and small-scale projects. KCI's experienced professionals meet the needs of developers and builders, as well as institution and government staffs. Combining extensive site development expertise with a thorough knowledge of local development, construction, zoning, and permitting requirements, enables KCI to deliver prompt and cost-effective designs and related services. With offices in key locations throughout the Mid-Atlantic and southern United States, KCI clients are offered a detailed understanding of regional regulatory requirements and market conditions. KCI provides expertise on construction economics, environmental and planning regulations, plan processing and approval, and site design.

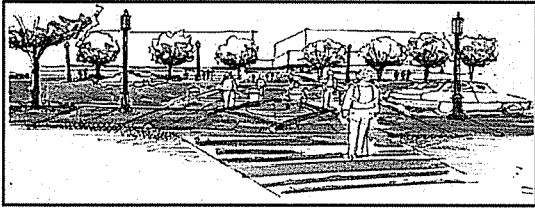
**Field Surveys** – KCI can provide data collection for projects requiring supplemental survey information through the use of conventional total stations and electronic data collectors or through the use of dual frequency GPS receivers with Real Time Kinematic (RTK) features. RTK surveys are best suited to areas with minimal canopy or overhead vegetative coverage, however, they can produce highly accurate data in areas where no controls exist, using only a single person to operate the system. KCI frequently uses GPS solutions for wetland locations to minimize disturbance to the environment caused by clearing line for conventional surveys.

KCI evaluates the appropriate use of technology with our clients based on the specific project requirements. Data collection of topo features includes field surveying physical features, including structures, utilities, substantial vegetation, roadways, driveways, and trees shall be located. Surface elevations shall be obtained to the nearest 0.01' on paved surface and 0.10' on other surface and shots shall be taken at all breaks in grade and spacing of not more than 25 feet which is suitable to develop 0.5 meter or one foot contour intervals over the project as directed by the Project. All data is collected electronically and field file format and codes specified by the Project Planning Division and outlined in the Project Resume. Daily print-outs of field files are downloaded and edited by the Party Chiefs. No changes are made to original field files and all print-outs are provided to the client at the project's conclusion.

**3D Laser Scanning (3DLS)** – 3D Laser Scanning creates a pixelized image of each view. These are then stitched together to create a highly accurate richly populated database which can be archived for immediate or future needs. Some of the benefits of 3DLS are that typically one field trip is required because it captures all objects above the ground including buildings, facades, poles, wires, signs, etc. Photographs are taken at the same time as the scanning so images are superimposed on 3D pixels. Access and safety are two major advantages for using 3DLS because remote objects can be



surveyed from safe areas. Light poles and wires can be remotely located as can features in the street without stopping traffic or placing personnel in the traveled ways.



**Landscape Architecture** – The goal of KCI's landscape architects is to give each new project its own unique identity. This holds true whether the project is a park, a streetscape, or a planting design for a single building or commercial complex. Regardless of the size and scope of the project, each design takes advantage of site topography to achieve the optimum balance of man-made and natural elements, and of aesthetics and economy. The first priority in any design is satisfying the client's objectives.

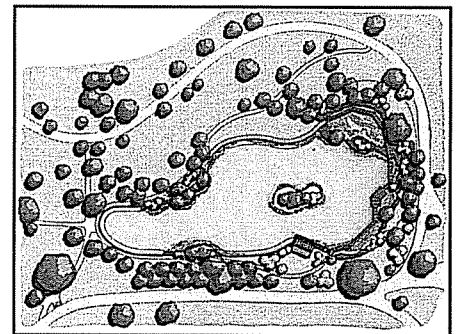
KCI's landscape architects are skilled in site design from analysis and concept formation to imaginative detailing. They provide designs for paving, lighting, fountains, retaining walls, shrubbery, trees, and plants. Consideration is given to public safety, soil erosion, environmental impacts, and aesthetics.

**Transportation/Traffic Engineering** – KCI has extensive experience providing transportation engineering for various types of open-end or single project assignments for Federal, State, City, and County transportation agencies. Our highway engineering staff is experienced in data collection, analyses, modeling, and design for all types of traffic design and study projects. KCI's comprehensive range of transportation engineering services includes:

- signal design and warrant studies,
- capacity analyses,
- corridor studies,
- simulation and modeling,
- vehicle and pedestrian counts,
- accident analyses,
- safety studies and improvement design,
- intersection studies and improvement design,
- traffic calming design,
- traffic impact studies,
- sign design,
- lighting design,
- intelligent transportation system design,
- pavement marking design, and
- maintenance of traffic

The size and complexity of KCI's project experience varies from intersection improvements to major interstate projects. Our staff of traffic and transportation engineers are recognized for expertise in transportation engineering by Departments of Transportation in MD, PA, FL, NC, DE, and WV; and the Federal Highway Administration to name a few. KCI engineers and managers utilize state-of-the-art computer software technology in all traffic studies and design including simulation, modeling, and forecasting programs.

**Stormwater Design** – KCI's in-house design staff can address any and all storm water issues that may arise as a result of this project. KCI routinely addresses storm water issues on our design projects. KCI has had on-call storm water design contracts throughout various locations in Maryland, Pennsylvania, and Virginia. KCI's staff has experience with storm water design, storm water management, hydraulic analysis, storm water modeling, inspection and analysis of existing storm water facilities, and upgrading and rehabilitating existing drainage systems. KCI is experienced in using Best Management Practices into existing drainage systems as well as new designs.

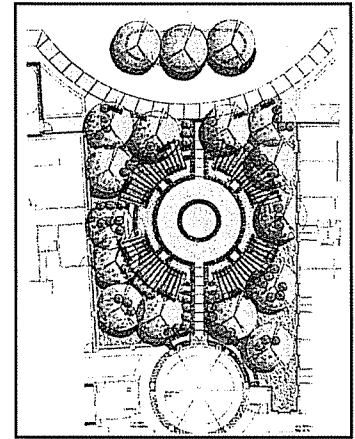




## **KCI'S EXPERIENCE TEAMING WITH PARADIGM ARCHITECTURE**

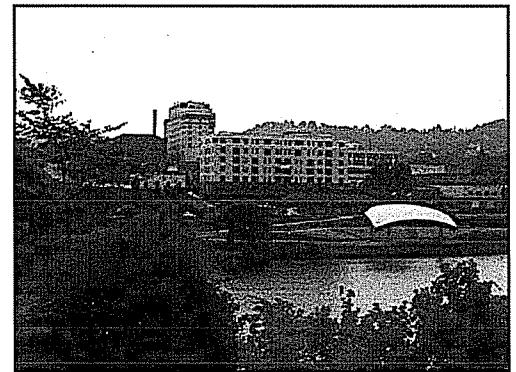
### **West Virginia University Downtown Student Housing Project Morgantown, WV**

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



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

KCI is a sub-consultant to Paradigm Architecture for the proposed 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 will be the new home to the Morgantown Area Chamber of Commerce once completed, along with several residential condominiums. This project is currently under construction. KCI is responsible for overall site design, utility lines, sidewalks, drainage, storm water retention, grading plans, erosion and sedimentation control plans, and the site/civil permitting.



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

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

### **A Flame for Christ Church Anmoore, WV**

KCI provided surveying services to Paradigm Architecture.

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

KCI is a sub-consultant to Paradigm Architecture for the new Morgantown Event Center and garage. KCI is providing site/civil engineering services for this design-build project.



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## **CHARLES A. PHILLIPS, JR., RPLS**

### **Senior Vice President**

#### **Education:**

Coursework / Survey/Civil Engineering - 4 Years

Coursework / Business Management Program - 2 years

#### **Registration:**

RPLS / RPLS / MD / 463

**Years Experience:** 30

**Years with KCI:** 23

#### **Experience:**

Mr. Phillips is the Senior Vice President in charge of KCI's Site & Facilities Group, where this contract will reside. He has over 30 years experience supervising small, medium, and large multi-discipline projects for both public and private sector clients throughout Maryland, Pennsylvania, Delaware, Virginia, West Virginia, and Washington, D.C. He has extensive experience in a wide range of projects, including municipal and institutional facilities, military and federal installations, airports and related structures, commercial buildings, highways, railroads, residential land development, demolition, and land/hydrographic surveying. Relevant experience includes:

**Fort Belvoir Chapel Design/Build. Ft. Belvoir, VA. *Quality Assurance/Quality Control.*** Provided quality assurance/quality control and general oversight of all services provided. KCI provided civil/site engineering, geotechnical, environmental utility engineering, landscape architectural and surveying services for this design-build project on a 12-acre site.

**Maryland Correctional Institute for Women - Site Infrastructure and Dining Improvements. Anne Arundel County, MD. *Principal-in-Charge.*** Provided oversight for services including mechanical, electrical, structural, civil, and geotechnical engineering for site and infrastructure improvements related to the addition and renovation of the kitchen and dining hall. KCI Technologies provided overall project management and comprehensive engineering services, that included mechanical, electrical, structural, civil, and geotechnical engineering for the renovation and addition to the institution's existing kitchen/dining operations. The project involved a multi-phase design in compliance with the institution's overall master plan.

**USPS - A/E Indefinite Quantity Contract - Maryland, Virginia, and Washington, D.C.. Statewide, MD. *Principal-in-Charge.*** KCI provided civil/site development, environmental, and surveying services for various Postal Service sites under this open-end with Smolen-Emr & Associates. Services included stormwater management design; site surveys; civil/site plans and details; environmental Phase I assessments; utilities coordination and relocation; site subdivision plans; plans, specifications, and processing; and attendance at public hearings.

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

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

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

**Education:**

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

**Registration:**

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

**Years Experience: 18**

**Years with KCI: 6**

**Experience:**

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

**West Virginia University Architectural and Engineering Open End. Morgantown, WV. Division Chief/Project Manager.** KCI was awarded an open end contract to provide multi-disciplined engineering services to the West Virginia University. **Work Order No. 1** - KCI performed a structural assessment of the Summit Hall Parking Garage along Grant Street. The garage has been experiencing water leaks from the upper level onto the lower level through cracks in the deck. KCI's scope of services includes the review of existing plans and a building assessment. Upon completion of the building assessment, KCI provided the University with a Report of findings. Upon review of the Report the University has requested KCI to produce construction documents for the rehabilitation of the upper deck. **Work Order No. 2** - KCI performed a structural analysis of the Evansdale Library. **Work Order No. 3** - KCI provided the University with Structural Engineering and Drafting Services associated with the design of a replacement wood deck and support beams for the Percival Hall Pedestrian Bridge. KCI was awarded an open end contract to provide multi-disciplined engineering services to the West Virginia University.

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

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

**A/E Support Services Multiple Award Task Order Contracts, Various Locations, Federal Bureau of Prisons. Alderson Federal Prison Camp, Alderson, WV. Task Manager.** As a subconsultant KCI supported Smolen Emr Architects on this project. Mr. Milne served as Project/Task Manager for Alderson FPC Multi-Purpose Building. Lead civil engineer for site design; design of parking lots, roadway improvements, utility lines, sidewalks, drainage, stormwater retention, grading plans, E&S, preliminary construction cost estimates.

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

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## **JOHN W. RUDMANN, PE**

### **Senior Civil Engineer**

#### **Education:**

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

#### **Registration:**

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

**Years Experience:** 13

**Years with KCI:** 9 months

#### **Experience:**

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

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

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

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

**The View II at the Park. Morgantown, WV. Senior Design Engineer.** KCI is a sub-consultant to Paradigm Architecture for the proposed 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 will be the new home to the Morgantown Area Chamber of Commerce once completed, along with several residential condominiums. This project is currently under construction. KCI is responsible for overall site design, utility lines, sidewalks, drainage, storm water retention, grading plans, erosion and sedimentation control plans, and all the site/civil permitting. Mr. Rudmann was responsible for the overall design of all site/civil services.

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## **RICHARD KINGSBURY, RLA**

### **Landscape Architect**

#### **Education:**

MLA / 1982 / Landscape Architecture / University of Virginia  
BS / 1977 / Resource Management / University of Wisconsin

#### **Registration:**

RLA / RLA / MD / 700  
RLA / RLA / DE / S1-0000401  
PLA / PLA / WV / 322  
RLA / RLA / VA / D406 001356  
RLA / RLA / PA / LA001471R

**Years Experience:** 26

**Years with KCI:** 2

#### **Experience:**

Mr. Kingsbury is the Group Leader of the Planning & Landscape Architecture Group within KCI's Urban Planning & Development Division. He has over 23 years experience in planning, landscape architecture, urban design, and waterfront design. He practices an integrated approach to design, addressing the various demands of site and building design, and working closely with architects and other design professionals. His work has ranged from intimately scaled residential projects in Baltimore to multi-use developments in the US and Far East. He is dedicated to providing responsive client service and inspirational landscape architectural design and land planning services. Relevant project experience includes:

**Sparks Corporate Center. Baltimore County, MD. *Project Manager.*** Responsibilities include: client contact, zoning research, overall planning and schematic design, grading design, product selection, schematic landscape design, road, surface parking, and garage layout and grading, alternatives analysis, and client presentation. Planning and design of the redesign of a previously planned office parcel into a residential development on 5 acres of steeply sloping land.

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

**319 Main Street Office Park. Laurel, MD. *Landscape Architect.*** Provided landscape plans in conjunction with engineering services for the construction of a new office building. The project included a 5,000 SF, a new parking lot, modifications to an existing parking lot, and new utilities.

**New Northside Fire Station. Morgantown, WV. *Senior Landscape Architect.*** KCI is a sub-consultant to Bignell Watkins Hasser for the proposed North Side Fire Station for the City of Morgantown. This project is currently in the final design phase. KCI is responsible for overall site design, access roads, utility lines, sidewalks, landscape, drainage, storm water retention, grading plans, erosion and sedimentation control plans, and all the site/civil permitting. Mr. Kingsbury was responsible for the design and oversight of the landscape plan.

**319 Main Street Office Park. Laurel, MD. *Landscape Architect.*** Provided landscape plans in conjunction with engineering services for the construction of a new office building. The project included a 5,000 SF, a new parking lot, modifications to an existing parking lot, and new utilities.



## NEW NORTHSIDE FIRE STATION

Morgantown, WV

**Owner:**

City of Morgantown  
Morgantown, WV



**Contact:** Patricia Andrasik, AIA, Bignell Watkins Hasser Architects  
(301) 261-8228  
Terry Hough, Morgantown City Engineer  
(304) 284-7412

**Completion Date:** Final Construction Documents April, 2008

**Highlights:**

KCI is a sub-consultant to Bignell Watkins Hasser for the proposed North Side Fire Station for the City of Morgantown. The construction documents for this project will be completed April, 2008 with the project going out to bid soon there-after. KCI is responsible for overall site design, access roads, utility lines, sidewalks, drainage, storm water quality and retention, grading plans, erosion and sedimentation control plans, and the site/civil permitting.

KCI provided an innovative design to capture storm-water on the project site through the use of four on site Bio Cells. KCI also designed a 3000 gallon water harvesting tank to harvest the rain water from the roof of the proposed building. KCI's innovative approach to storm-water design on this project enabled the site to be designed without any connection to the existing storm-water system in the area. The design also provides a cost effective solution to long term water demand by the Fire Station.

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



## **A/E SUPPORT SERVICES MULTIPLE AWARD TASK ORDER CONTRACTS**

### **Nationwide**

**Client:**

Federal Bureau of Prisons  
Annapolis Junction, MD



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

**Completion Date:** 2005

**Highlights:**

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

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

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

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

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

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



## **IDIQ CONSTRUCTION & DESIGN/BUILD CONTRACT, FORT BRAGG, NC**

### **Fort Bragg, NC**

**Owner:**

US Army Corps of Engineers Savannah District  
Savannah, GA

**Contact:** George Todd, Todd Construction Company, Inc.  
(405) 755-2299

**Completion Date:** 2003



**US Army Corps  
of Engineers**

**Highlights:**

KCI supported Todd Construction on this Indefinite Delivery/Indefinite Quantity Construction & Design/Build Contract with the Savannah District U.S. Army Corps of Engineers. The contract included work primarily at Fort Bragg for architecture, engineering, and environmental services. The scope of work includes: Design of new facilities or utility systems of various types, sizes, and complexities; design of projects on Army installations; sustainable design utilizing the SPiRiT or LEED rating tools; rehabilitation of existing facilities or utility systems of various types, sizes, and complexities; application of AT/FP criteria; cost engineering; construction phase services including shop drawing review and preparation of O&M manuals; CADD delivered in the (\*.dgn) format; compliance with the Savannah District Design Manual and the Fort Bragg Installation Design Guide.

**Access Control Points, Fort Bragg, and Sunny Point, North Carolina** In response to the Nation's increased emphasis on security, under a task order KCI completed the designs for the six Access Control Points (ACPs), characterized by channelized traffic entrance lanes monitored by tollbooth style guard shacks. The six sites required civil, transportation, structural, hydraulics, mechanical/electrical/plumbing engineering, surveys, and geotechnical, and security features including pop-up bollards and wedges, guard booths, camera pits and specialized lighting.

**Upgrade Main Entrance and Parking, JSOC** - KCI provided engineering services for the new entrance to the JSOC compound which included a shifted roadway entrance to coordinate with the future All-American Freeway project. Portions of the existing JSOC perimeter road had to be re-located along with some fencing, security cameras and lighting. A new parking layout and an inspection canopy were incorporated in the plans. The most striking feature of this design is the underground stormwater management system. This project incorporated site design, transportation design, hydraulics, structures, electrical lighting and power.

**JSOC North Expansion** - KCI provided survey and engineering services for a security upgrade on a lot housing a large NORAD antenna. Amid concerns that traditional fencing might interfere with the antenna's operations, KCI was asked to provide a perimeter of bollards around the property as well as some modifications to the existing fencing and gate system. The mapping showed extensive utility interference enabling the construction team to avoid unnecessary utility disturbances.

**CID Burnout Repair** - KCI provided engineering services to repair and upgrade a burnt out section of a metal maintenance garage. The new section incorporated a taller ceiling height and roll-up doors to accommodate taller vehicles than the building's original design. Elements of the project included an office upgrade, bathroom repair and shower addition and new exterior personnel doors. KCI also prepared plans to add fencing around the maintenance compound.

**Ft. Bragg Perimeter and Security Road SC 12** - KCI provided engineering services for construction of a perimeter road which included installation of security fencing with alarms, surveillance, lighting and site improvements to support minimum force protection for approximately a 6 acre tract at the JSOC property. This project included Phase I Environmental Site Assessment and a Record of Environmental Concern. The site is



monitor by Fort Bragg Installation Restoration Program, which prohibited excavation beyond seven feet. A boundary survey and topographic mapping were completed for this site. Typical roadway sections were created along with vertical and horizontal alignments for approximately 1200 feet of roadway. Geopak was utilized to balance all earthwork for the site and therefore creating a zero borrow situation. Drainage design and erosion and sediment control plans were completed and permits obtained. Finally, cost estimates, specifications, and construction phasing documentations were completed for this project.

**Ft. Bragg Perimeter and Security Road SC 13** - Project included installation of security fencing with alarms, surveillance, lighting and site improvements to support surveillance operations for force protection for approximately a 5-ac tract at the JSOC property. A boundary survey and topographic mapping were completed for this site along with locating underground cables. Surveying was hampered by dense woodland vegetation. A geotechnical investigation was performed on the site to ensure the subgrade would support vehicular traffic. Typical roadway sections were created along with vertical and horizontal alignments for approximately 1100 feet of roadway. Geopak was utilized to balance all earthwork for the site to minimize borrow and waste. Drainage design and erosion and sediment control plans were completed and permits obtained. Existing erosion problems were noted during field inspection from uncontrolled runoff from adjacent properties therefore necessitating a need to design a storm water management facility. Cost estimates, specifications, and construction phasing documentations were completed for this project.

**Ft. Bragg JSOC Entrance & Parking at Malvesti and Butner** - KCI provided surveying and engineering services for the improvement of the entrance to JSOC at Malvesti and Butner. A new access location off of Butner was designed to improve sight distance and additional parking was provided. In addition, the layout included the design or relocation of security fencing, surveillance, lighting, electrical, site improvements to support minimum force protection, and stormwater management. A boundary survey and topographic mapping were completed for this site. Vertical and horizontal alignments were provided along with overlay of existing pavement. Drainage design and erosion and sediment control plans were completed and permits obtained. Finally, cost estimates, specifications, and construction phasing documentations were completed for this project.



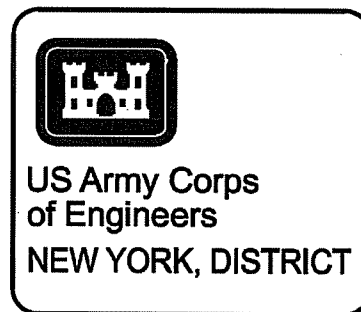
## **DESIGN/BUILD 91<sup>ST</sup> MP OPERATIONS FACILITIES**

**Fort Drum, NY**

**Owner:**

US Army Corps of Engineers New York District  
New York, NY

**Contact:** Anthony B. Felder, P.E.  
(917) 790-6232



**Completion Date:** 2010

**Highlights:**

On March 31, 2008, KCI received notification of award of our first design-build project at Fort Drum, NY. The project, issued from the U.S. Army Corps of Engineers New York, District, is for the design and construction of the 91st MP Battalion Complex. The \$32M project involves a Battalion/Brigade Headquarters (BH), a Company Operations Facility (COF), and a Tactical Equipment Maintenance Facility (TEMF). The buildings range in size from approximately 15,000- to 88,000-SF with total square footage for the project of 140,000 sf located on a 20 acre site. KCI is teamed with Bette and Cring, LLC of Albany and Watertown NY and Michael Baker Jr. Inc out of their Pittsburgh PA and Alexandria VA offices.

KCI will provide comprehensive site/civil design for the buildings, associated roadways, and parking areas along with local design support for the project team.



## WEST VIRGINIA UNIVERSITY ARCHITECTURAL AND ENGINEERING OPEN END Morgantown, WV

### Owner:

West Virginia University  
Morgantown, WV

**Contacts:** Paul Hanko  
(304)293-2854

Charlie Robison  
(304) 293-5280

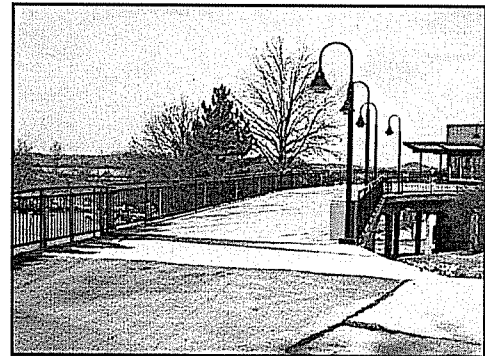
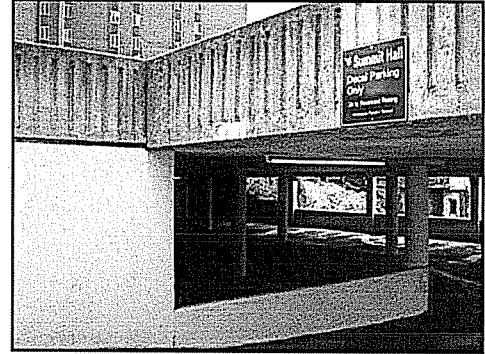
Kevin Kilinsky  
(304) 293-2876

**Completion Date:** Open-End

### Highlights:

KCI was awarded an open end contract to provide multi-disciplined engineering services to the West Virginia University.

- **Work Order No. 1 - Summit Hall Parking Garage.** KCI performed a structural assessment of the Summit Hall Parking Garage along Grant Street. The garage has been experiencing water leaks from the upper level onto the lower level through cracks in the deck. KCI's scope of services included the review of existing plans and a building assessment. Upon completion of the building assessment, KCI provided the University with a Report of findings. Upon review of the Report the University requested KCI to produce construction documents for the rehabilitation of the upper deck. Construction documents have been submitted to the University.
- **Work Order No. 2 - Evansdale Library.** KCI performed a structural analysis of the Evansdale Library.
- **Work Order No. 3 - Percival Hall Pedestrian Bridge.** KCI provided the University with Structural Engineering and Drafting Services associated with the design of a replacement wood deck and support beams for the Percival Hall Pedestrian Bridge. Project was completed November, 2007.
- **Work Order No. 4 - WVU Coliseum Tunnel.** KCI was just recently awarded this project. KCI will be providing the University with complete design services for the reconstruction of the East Wall of the Coliseum Tunnel which is in current need of repair. Design Services should be completed in early summer with anticipated construction of the new wall occurring in the summer of 2008 while the students are on summer break.





# **FORT DRUM DESIGN CHARRETTE IN SUPPORT OF 1391 CHILD DEVELOPMENT CENTER AND CENTRAL ISSUE FACILITY**

**Fort Drum, NY**

**Owner:**

US Army Corps of Engineers New York District  
New York, NY

**Contact:** Anthony B. Felder, P.E.  
(917) 790-6232

**Completion Date:** 2008

**Highlights:**

KCI Technologies provided on site design for the Army Corps of Engineers, New York District at Fort Drum, NY for mechanical, electrical, structural, fire protection, and civil/site design for the development of the 1391 documents for a 6 week to 5 year child development center and a central issue facility. KCI was a sub-consultant to Michael Baker Jr. Inc. who provided project management, architectural design and cost estimating.

The 15,800 sf, 126 person child development center included a playground, a 100 car parking lot, storm water basin, and primary utilities. The 65,000 sf central issue facility included high bay warehouse areas, administrative support spaces, a 100 car parking lot, storm water basin and primary utilities. Both facilities will meet LEED Silver requirements.



**US Army Corps  
of Engineers  
NEW YORK, DISTRICT**



## FORT BELVOIR CHAPEL DESIGN/BUILD

Ft. Belvoir, VA

**Client:**

Gardner and Gardner  
Crofton, MD

**Contact:** Mr. Greg Gilbert (Bignell Watkins Hasser Architects)  
(410) 841-6595

**Completion Date:** 2004

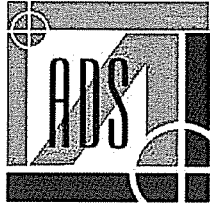


**Highlights:**

KCI provided civil/site engineering, geotechnical, environmental utility engineering, landscape architectural and surveying services for this design-build project on a 12-acre site.

**Scope of services included:**

- Conceptual design - KCI provided a site layout plan showing the Chapel footprint, proposed roads, retaining walls, and parking lots for the required 180 spaces and eight handicap spaces. KCI demonstrated that the site would accommodate the required functions of the project and included a general overview of major site features planned, such as building orientation, drainage patterns, parking provisions, traffic circulation including delivery access, provisions for the handicapped, security requirements, etc.
- Preliminary Design - KCI provided design analysis of the siting requirements for all related site aspects and how they complied with project requirements, focusing on SWM and erosion and sediment control. The team analyzed the existing storm drainage and provided design of all new storm drainage for the site. KCI also designed the roof drainage collection system; proposed sanitary sewer facilities and water service; erosion and sediment control, grading, layout, and utilities plans; and plans and computations for one aboveground stormwater management facility and one bioretention facility for water quality. KCI provided an analysis of the existing site conditions, including an indication of existing plant materials that are to remain on the site. Concept drawings were provided for landscaping which corresponded with the site layout and grading plans. An overall planting layout was developed and included enlarged detail plans of specific areas, to clarify requirements. Preliminary design also included coordination of the exterior electrical distribution system, field checking of the topographic survey provided by USACE, and a demolition plan, indicating all site utilities to be abandoned, capped, plugged, rerouted, or demolished in place.
- Final Design - Final design requirements included the applicable Design Analysis (developed to 95%), 95% complete drawings, draft specifications, and annotated 50% review comments, for Final Design Review. After the Final Design Phase, KCI incorporated any comments generated during the Final Design Review and prepared final specifications. KCI submitted Design Analysis (in final 100% complete form), 100% complete drawings, final specifications, annotated 95% review comments, two copies of CADD files of all drawings and calculation files, for the design complete submittal. As part of the project, KCI also attended team coordination and site meetings. During the construction administration phase, KCI provided shop drawing review, and responded to contractors RFI's.



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

## **Structural Engineering**

**102 Leeway Street**  
**Morgantown, WV 26505-3194**  
**Phone: (304)599-0771**  
**Fax: (304)599-0772**  
**Web: [www.AlleghenyDesign.com](http://www.AlleghenyDesign.com)**  
**E-Mail: [Dave@AlleghenyDesign.com](mailto:Dave@AlleghenyDesign.com)**

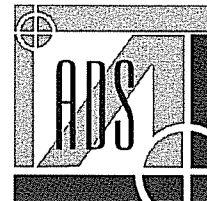


# **Allegheny**

## **Design Services**

*Structural 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



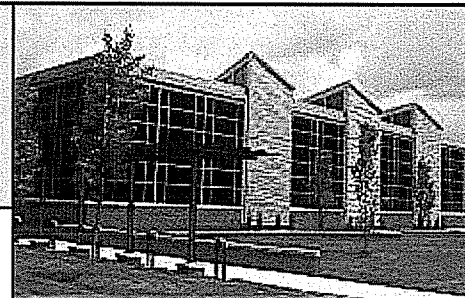
**MIXED USE**



**HOTEL  
CONFERENCE CENTERS**



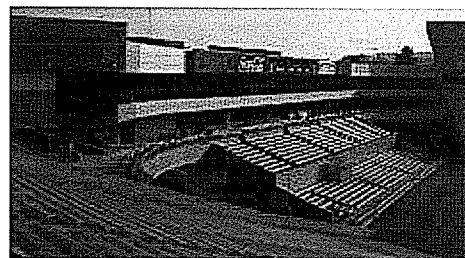
**SECONDARY EDUCATION**



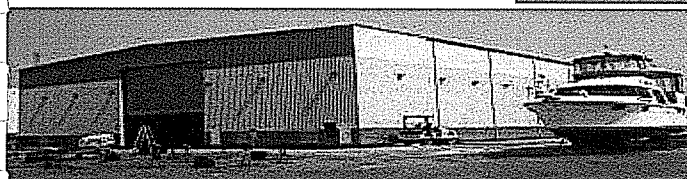
**OFFICE BUILDINGS**



**PARKING GARAGES**



**ATHLETIC FACILITIES**



**METAL BUILDING SYSTEMS**



**HEALTH CARE**



**Allegheny  
Design Services**  
*Structural Engineering*

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

## **FIRM PROFILE**

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

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

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

Commercial Facilities

Industrial Facilities

Institutional Facilities

Educational Facilities

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

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

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



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

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

## **KEY PERSONNEL**

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

West Virginia Institute of Technology, BSCE

West Virginia University, MBA

Structural Engineering Certification Board

P.E. Licenses in the following States:

West Virginia

Pennsylvania

Maryland

Virginia

District of Columbia

National Council of Examiners for Engineering and Surveying

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

West Virginia Institute of Technology, BS Mechanical Engineering

West Virginia University

Structural Analysis

Steel Design

Reinforced Concrete Design

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

West Virginia University, BS Civil Engineering



# **Allegheny**

## **Design Services**

*Structural Engineering*

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

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

### **President**

#### **Education:**

West Virginia Institute of Technology  
B.S. Civil Engineering

West Virginia University  
Masters Business Administration

West Virginia State College  
Architectural Technology

#### **Professional Registrations:**

Year first registered: 1983  
Structural Engineering Certification Board  
West Virginia  
Pennsylvania  
Maryland  
Virginia  
District of Columbia  
National Council of Examiners for Engineering and Surveying

#### **Professional Memberships:**

American Society of Civil Engineers  
Structural Engineering Institute, Charter Member  
American Concrete Institute  
American Institute of Architects – West Virginia Chapter  
American Institute of Steel Construction, Inc.  
American Iron and Steel Institute Member

#### **Continuing Education:**

2005 AISC Specification for Structural Steel Buildings – September 27, 2006 – Pittsburgh, PA  
ASCE Testifying Skills for Engineers – February 16, 2007 – Orlando, FL

#### **Professional Experience:**

Responsible for project management and design at Allegheny Design Services. Experience includes over 24 years in structural design and project management for industrial, commercial, institutional, and nuclear/chemical facilities utilizing steel, concrete, masonry, and wood. Past accomplishments include design and construction administration of health care facilities, hotels, schools, shopping centers, aircraft hangars, numerous retail facilities, and numerous forensic engineering assignments. Experience has been obtained from the following assignments:

## Experience Record:

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

## Additional Professional Experience:

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

Project experience includes:

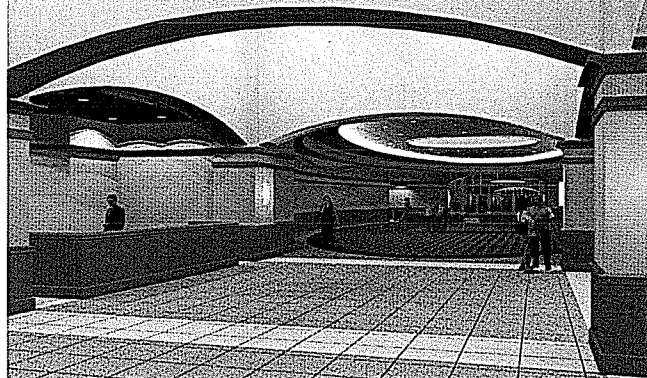
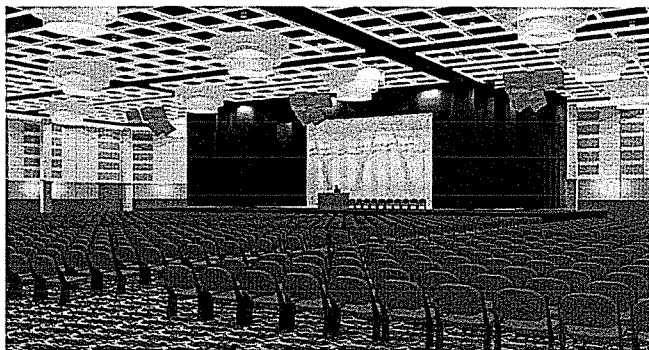
Fairmont Senior High School, Fairmont, WV  
Belmont Community Center, St. Clairsville, OH  
Monongalia General Hospital Operating Room Addition, Morgantown, WV  
Chestnut Ridge Church, Morgantown, WV  
West Virginia University Business and Economics Building, Morgantown, WV  
West Virginia University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



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

## **PROJECT PROFILE**

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



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

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

**PROJECT SCOPE:**

- Multi-Purpose 150 ft. Clear Span Arena
- Conference Rooms
- 350 Car Parking Garage

**PROJECT VALUE:**           \$23 Million

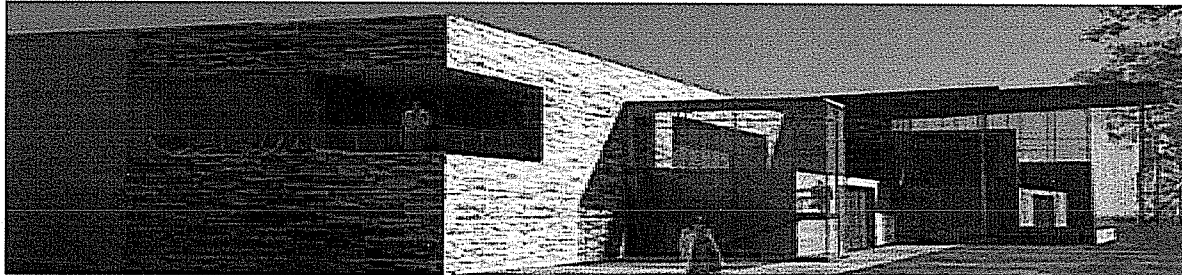
**PROJECT COMPLETION:**       2009



**Allegheny**  
Design Services  
*Structural Engineering*

## **PROJECT PROFILE**

### **West Virginia University Basketball Practice Facility Morgantown, WV**



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

Ellerbe Becket, Inc., Kansas City, MO  
Allegheny Design Services, Morgantown, WV  
To Be Bid

#### **PROJECT SCOPE:**

- Men's & Women's Varsity Basketball Practice Facility
- Meeting & Training Rooms
- WVU Basketball Hall of Fame

**PROJECT VALUE:**      \$23 Million

**PROJECT COMPLETION:**      2009



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

## **PROJECT PROFILE**

### **Cutlip Christie Office Complex Clarksburg, WV**



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

WYK Architects, Clarksburg, WV  
Allegheny Design Services, Morgantown, WV  
March-Westin Company, Inc., Morgantown, WV

**PROJECT SCOPE:**

- 12,000 Sq. Ft. Corporate Office Building
- Structural Steel Framing System
- Shallow Foundation Systems

**PROJECT VALUE:**        \$1.5 million

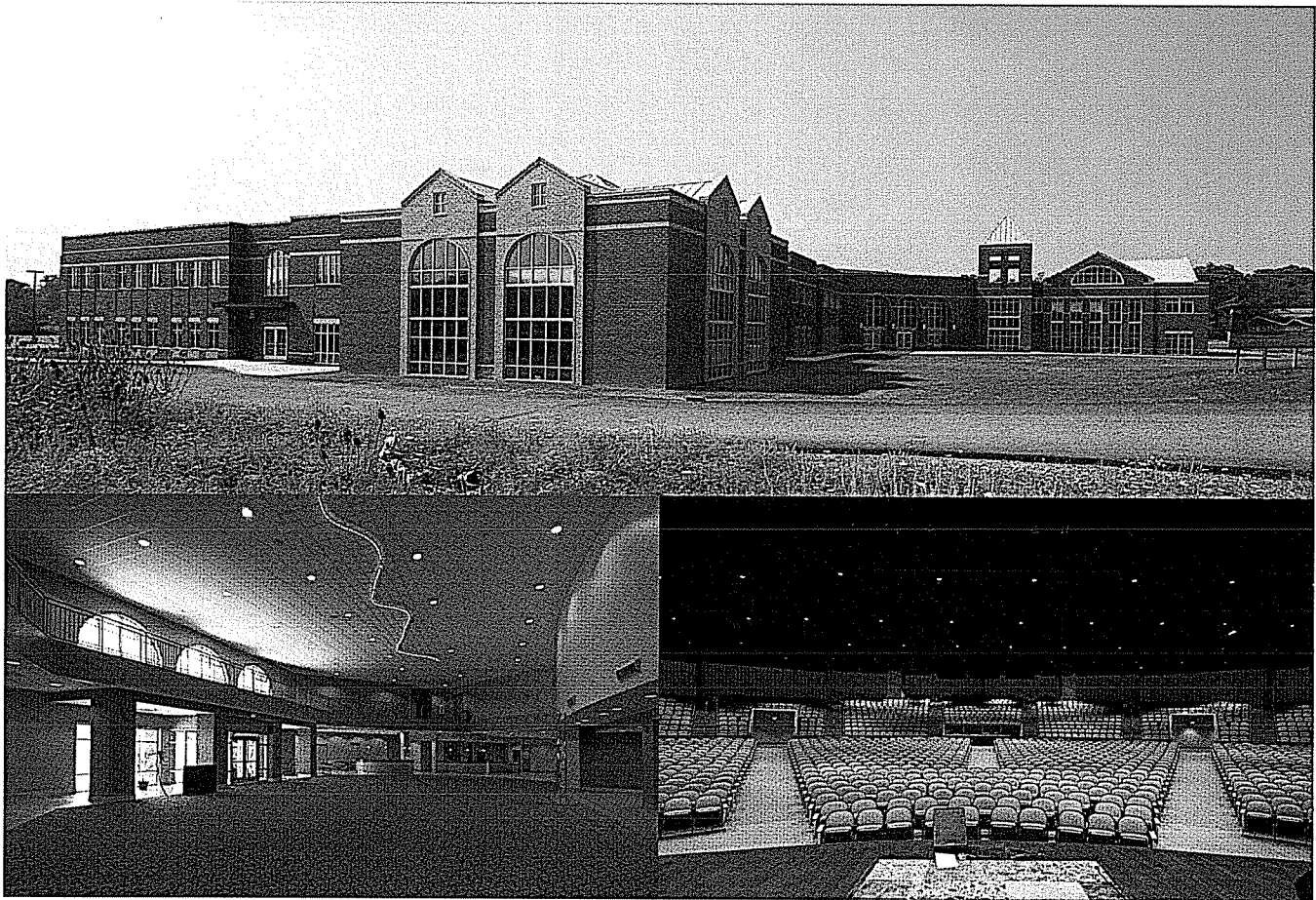
**PROJECT COMPLETION:**    2007



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

## **PROJECT PROFILE**

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



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

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

#### **PROJECT SCOPE:**

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

**PROJECT VALUE:** \$12 Million  
**PROJECT COMPLETION:** 2006



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

## **PROJECT PROFILE**

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



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

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

#### **PROJECT SCOPE:**

- Gymnasium
- Offices
- Classrooms

**PROJECT VALUE:**        \$6 million

**PROJECT COMPLETION:**        2006



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

## PROJECT PROFILE

### Trinity Christian School Morgantown, WV



<b>PROJECT ARCHITECT:</b>	Paradigm Architecture, Morgantown, WV
<b>STRUCTURAL ENGINEER:</b>	Allegheny Design Services, Morgantown, WV
<b>CONTRACTOR:</b>	Cook Brothers, Inc., Fairmont, WV

#### PROJECT SCOPE:

The Project is a 50,000 sq. ft. classroom/gymnasium High School located on Interstate I68 near Morgantown, WV. The project features an exposed pipe truss main entry. Completion in the Fall of 2004, it is the first phase of a campus which will include an adjoining elementary school.

**PROJECT VALUE:** \$5 million

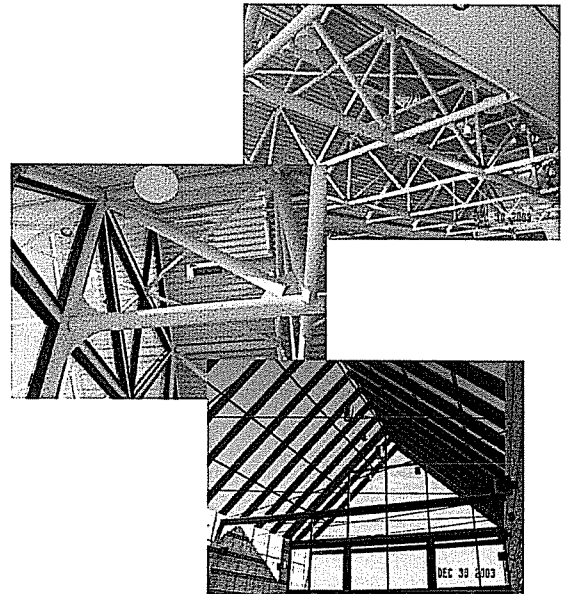
**PROJECT COMPLETION:** 2004 Fall



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

## **PROJECT PROFILE**

### **Carnes Community Center St. Clairsville, OH**



**PROJECT ARCHITECT:**  
**STRUCTURAL ENGINEER:**  
**OWNER:**

William Hooker, AIA, Wheeling, WV  
Allegheny Design Services, Morgantown, WV  
Belmont County Park Commission

#### **PROJECT SCOPE:**

The Project is a 22,000 sq. ft. community conference center located over an old strip mine site. Built on a dynamically compacted site, the project features a pipe trusses structural system clear spanning 80 feet across the commons areas. The prefabricated glass roof is restrained with an adjustable tension rod system. Foundations are reinforced to mitigate any future damage due to mine subsidence.

**PROJECT VALUE:**           \$3 million

**PROJECT COMPLETION:**     2003



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

## **PROJECT PROFILE**

### **Waterfront Place Hotel & Conference Center**



**PROJECT ARCHITECT:**  
**STRUCTURAL ENGINEER:**  
**OWNER:**  
**CONTRACTOR:**  
**STEEL FABRICATOR:**

Paul Walker, Paradigm Architecture, Morgantown, WV  
David Simpson of Allegheny Design Services, Morgantown, WV  
Platinum Properties, Inc.  
March-Westin Company, Inc., Morgantown, WV  
Contracting Engineering Consultants, Morgantown, WV

#### **PROJECT FEATURES:**

- 17 story structural steel, deep foundations
- 300,000 sq. ft. facility
- Conference Center Wing

**PROJECT VALUE:**       \$33 Million

**PROJECT COMPLETION:**   2003



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

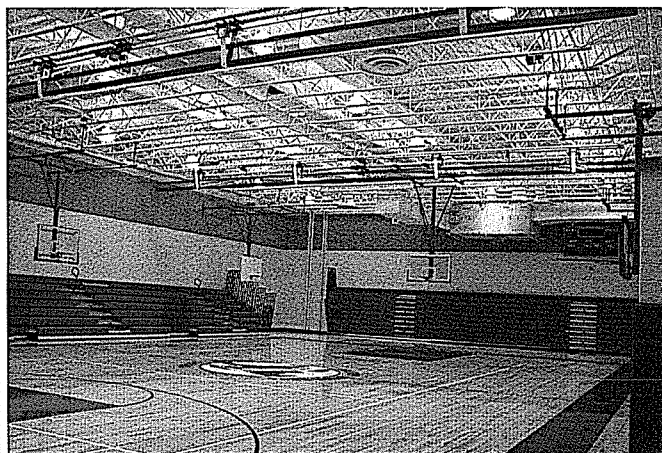
**PROJECT COMPLETION:**       2001



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

## **PROJECT PROFILE**

### **Laurel Highlands Classroom and Gymnasium Addition Uniontown, PA**



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

Altman & Altman Architects, Uniontown, PA  
Allegheny Design Services, Morgantown, WV

**PROJECT SCOPE:**

- 10,000 Classroom Addition
- Full Court Gymnasium Addition
- Construction of New Main Entry

**PROJECT VALUE:**           \$5 million

**PROJECT COMPLETION:**       1999



## **Mechanical & Electrical Consulting Engineers**

Tower Engineering  
115 Evergreen Heights Drive, Suite 400  
Pittsburgh, Pennsylvania 15229  
412.931.8888  
[www.estower.com](http://www.estower.com)

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

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

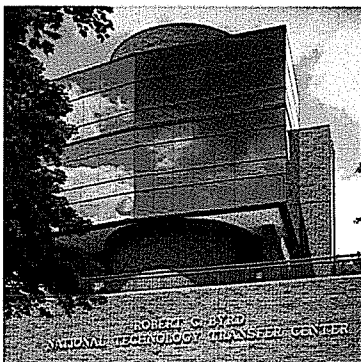
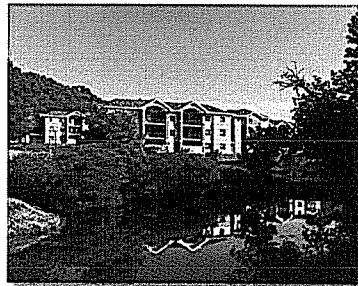
Primary markets of the firm include educational, health care, environments for the aging, and commercial renovations and new construction.

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

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

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

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



**TOWER**  
ENGINEERING

115 Evergreen Heights Drive  
Suite 400  
Pittsburgh, Pennsylvania 15229  
Phone (412)931-8888  
Fax (412)939-2525

Tower Engineering

## Specific Engineering Services

### HVAC

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

### Electrical

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

### Telecommunications

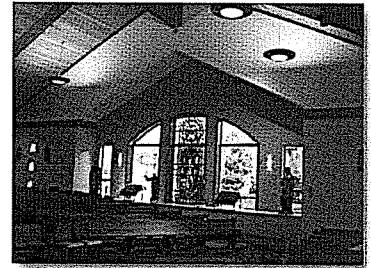
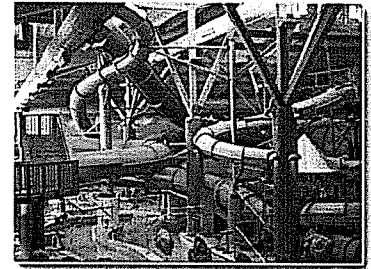
- Voice communication systems
- Data network systems

### Plumbing

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

### Fire Protection

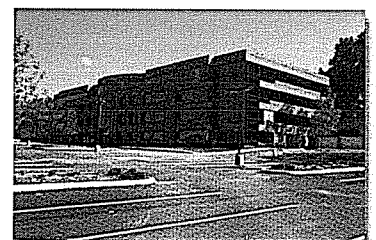
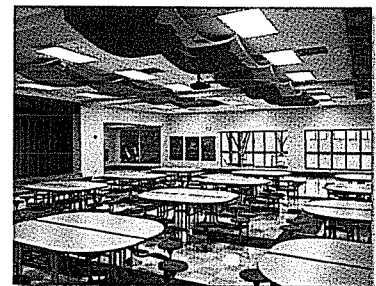
- Standpipe and sprinkler systems
- Fire protection systems



## Our Design Experience

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

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



Tower Engineering maintains full CAD capabilities utilizing AutoCAD Release 2004, which is compatible with most micro and mini based computer systems. Our AutoCAD software has been modified in-house to further enhance productivity per discipline. Firm-wide CAD standards are also in place to ensure uniformity.

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

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



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## Recent Projects in West Virginia Have Included:

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

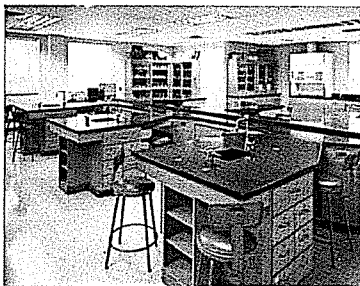
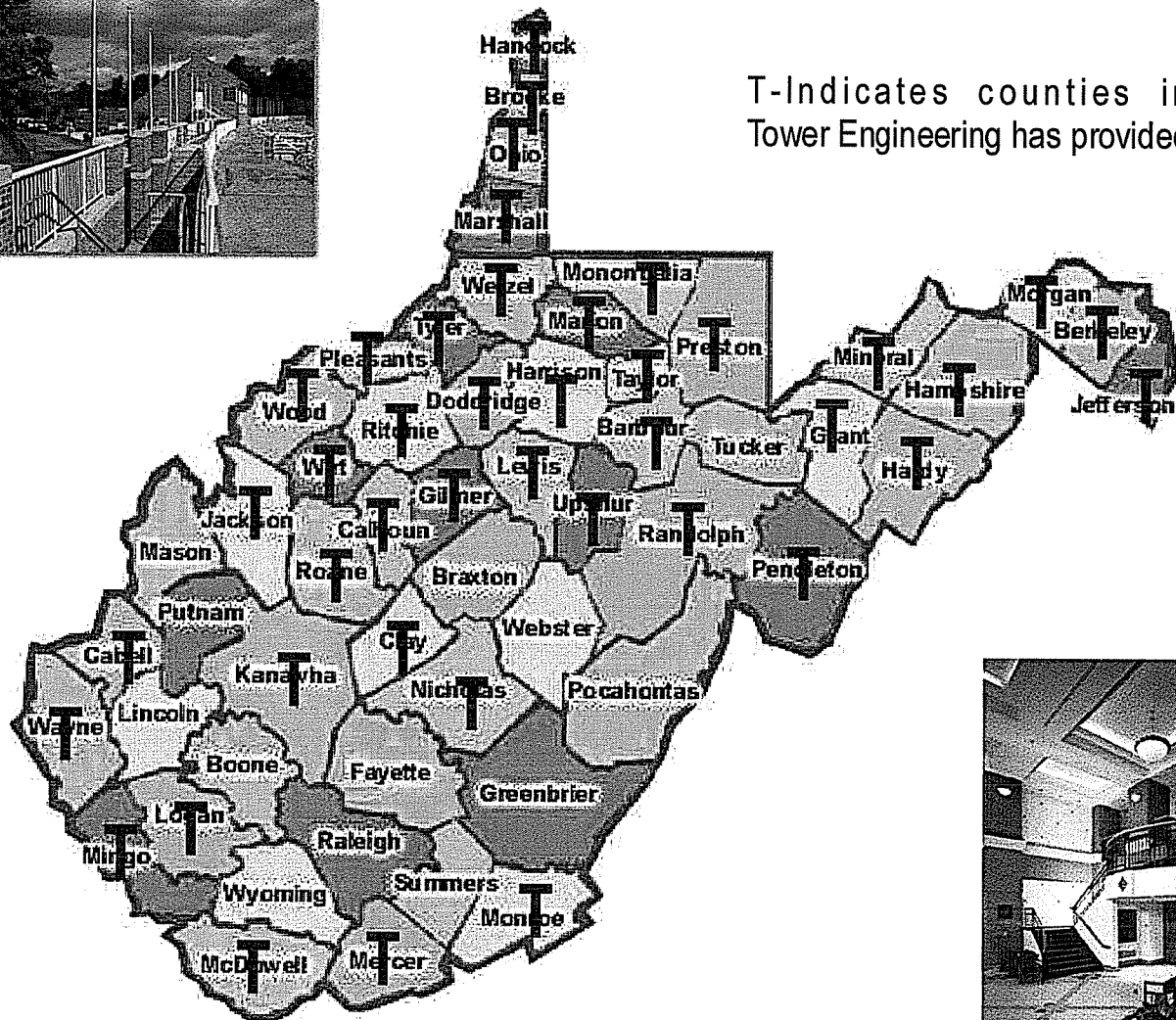


Engineering West Virginia

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



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



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

David E. Tower  
Principal, Retired



## EDUCATION

BS, Mechanical Engineering  
Penn State University  
1982

## REGISTRATION

PE, Pennsylvania  
PE-040568-E

PE, West Virginia  
PE-11973

NCEES Registration

## AFFILIATION

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

## THOMAS J. GORSKI, P.E.

*Principal, President  
Mechanical Engineering Department Head  
Senior Project Manager*

Mr. Gorski has twenty-four (24) years of experience as a mechanical engineer. His primary responsibilities are the design of HVAC systems and their components for schools, universities, commercial and light industrial office buildings, laboratory buildings, health care facilities and military facilities. He has designed HVAC systems including constant and variable air volume, air handling and exhaust systems; chilled water and hot water systems and steam distribution systems; electric/electronic control, pneumatic control and DDC systems.

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

## REPRESENTATIVE EXPERIENCE

**U.S. Army Corps of Engineers, Pittsburgh, Pennsylvania**  
*Lab Ventilation*

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

**Pennsylvania Army National Guard, Connellsville, Pennsylvania**  
*New Readiness Center*

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

**VA Pittsburgh Medical Center, Pittsburgh, Pennsylvania**  
*Inpatient Pharmacy Renovation  
IMRT and IMRT2 Renovations  
New Parking Garage*

## **EDUCATION**

Master of Business Administration  
Frostburg University  
1997

BS, Electrical Engineering  
University of Pittsburgh  
1988

## **REGISTRATION**

PE, Pennsylvania  
PE-052645-E

PE, Virginia  
PE-0402-026204

## **STEPHEN J. KISAK, P.E.**

*Principal  
Electrical Engineering Department Head  
Senior Project Manager*

An electrical designer/engineer for 19 years, including 3 years as a high voltage electrical designer, Mr. Kisak has provided engineering services for the design of educational facilities, office buildings, college and university facilities, health care, assisted living/nursing homes, and commercial facilities. His primary responsibility is for the preparation of electrical opinions of cost, technical specifications, engineering drawings, field observation, and coordination with architectural and other engineering disciplines.

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

## **REPRESENTATIVE EXPERIENCE**

**Pennsylvania Army National Guard, Connellsville, Pennsylvania**  
*New Readiness Center*

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

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

## **EDUCATION**

Bachelor Mechanical Engineering  
Penn State University  
1997

## **REGISTRATION**

PE, Pennsylvania  
PE-062304, 2003

Certified in Plumbing  
Engineering (CIPE), 1998

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

*Associate, Plumbing & Fire Protection Engineering Department Head  
Senior Project Manager*

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

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

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

## **REPRESENTATIVE EXPERIENCE**

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

**Pennsylvania Army National Guard, Connellsville, Pennsylvania**  
*New Readiness Center*

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

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

**VA Pittsburgh Medical Center, Pittsburgh, Pennsylvania**  
*Radiology Department Offices*

# Project Experience

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## **Pennsylvania National Guard Readiness Center** Connellsville, Pennsylvania

Tower Engineering recently provided mechanical/electrical engineering services for construction of a new 23,017 square foot armory at the Pennsylvania National Guard Readiness Center in Connellsville, Pennsylvania. This specially designed facility of permanent masonry type construction is constructed of brick and concrete block units with concrete floors, and a metal standing seam roof, including a one-story structure with mechanical and electrical equipment. The building contains offices, drill hall, classrooms, locker rooms, kitchen, toilets, storage, arms vault, Abrams Full-Crew Interactive Simulation Training ALIST Simulation Room, and maintenance training workbays. Cost effective energy conserving features were incorporated into the design, including energy management control systems and high efficiency motors, lighting, and HVAC systems. Construction of this new Armory was completed in 2005. Total construction costs were \$4,1million; mechanical/electrical construction costs were \$1.1 million

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

Tower Engineering is currently providing design/build engineering services for the construction of a new 69,900 s.f. Readiness Center and 19,800 s.f. Organizational Maintenance Shop (OMS) for the Stryker Brigade Combat Team. These facilities will provide spaces for training and housing of troops, as well as storage and maintenance of military vehicles and equipment. Sustainable design features are included with a goal of SPIRiT rating of Gold. Design requirements included Anti-Terrorism / Force Protection (AT/FP). Estimated construction costs are \$19.6 million.



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Readiness Centers & OMS Facilities

**Tower Engineering** provided engineering services for the U.S. Army Reserve Training Center in Jane Lew, WV. The Center provides a suitable facility for weekend and other intermittent training exercises of the Army Reserve. At 7,400 square feet, the facility includes offices, a large Assembly area, a full service Kitchen, Arms Storage, and supporting storage and mechanical areas. A separate Organizational Maintenance Shop Building (OMS) provides an enclosed garage area for maintenance operations on the various vehicles, an office, and tools and parts storage.

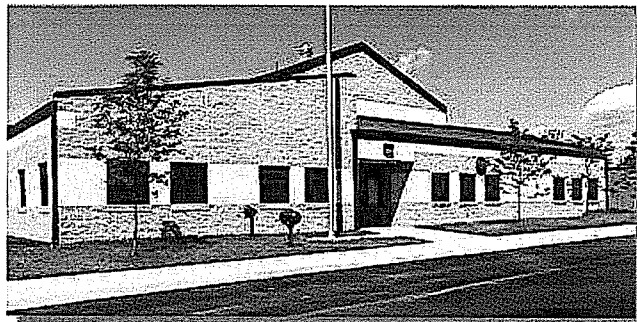
A Trane variable volume/variable temperature (VVT) air handling unit with a separate air cooled condenser provided conditioning to the office areas. A separate constant volume air handling unit (with associated condensing unit) served the main assembly area and kitchen. The kitchen also used a gas-fired rooftop unit to provide tempered makeup air when the hood exhaust system was operating. A gas-fired boiler system provides water for heating purposes. The arms vault included a packaged dehumidifier to maintain proper humidity levels for gun and ammunition storage. A gas-fired boiler system heats the OMS building, and a packaged terminal air conditioner provides cooling to the OMS office.

The electrical engineering portion of this project included the design of secondary power supply and distribution, grounding, interior and exterior lighting, fire alarm, communications, and security system raceway.

Features relevant to the plumbing design in the Training Building included a commercial kitchen, toilet and shower facilities, and supporting mechanical equipment. Features relevant to the plumbing design in the OMS building included a unisex toilet room, emergency fixtures for the battery room, trench drains in the work and wash down bays, compressed air for user equipment, and supporting mechanical equipment.

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

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



#### Project Experience

U.S. Army Corps of Engineers  
21st Floor Conference Room Study

U.S. Air Force Gate House  
911 Tactical Unit

U.S. Army Corps of Engineers  
Lab Ventilation, Neville Island

U.S. Army Reserve Center  
Jane Lew, West Virginia

U.S. Army Reserve Center  
Clarksburg, West Virginia

Pennsylvania Army National Guard  
Connellsville, PA Readiness Center

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