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WV PURCHASING DIVISION



## WV Schools for the Deaf and the Blind Renovation & Assessment Projects

Sealed Bid  
Buyer Joseph E. Hager, III  
Solicitation No. CE01 0400 DB-2 100000001  
Bid Opening Date: April 22, 2021  
Bid Opening Time: 1:30 PM EST



**PARADIGM**   
**ARCHITECTURE**

19 April 2021

Mr. Joseph E. Hager, III  
Department of Administration, Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305-0130

Re: EOI for Renovation and Assessment Projects at the WVSDB  
Solicitation No.: CEOI 0403 DBS2100000001

Dear Mr. Hager:

Paradigm Architecture Inc. is pleased to submit our qualifications for the West Virginia Schools for the Deaf and the Blind Renovation and Assessment Projects. We believe that our team represents the best combination of experience and local representation to achieve the School's objectives in order to make a positive impact for each student, professor, and campus employee.

At Paradigm, we believe that service and responsiveness are critical to project success and client satisfaction. Our office is well positioned to respond rapidly to the unpredictable requirements of project design development and construction conditions. We have strong client relationships as demonstrated by our repeat business with the Waterfront Development, West Virginia University, Glenmark Holdings, Mon Health Medical Center, and Powers & Associates (Cellular Sales).

We will be using an established team of highly qualified consultants for this project: Ascent Engineering - Civil Engineering and Landscape Architecture and CJL Engineering - Structural, Mechanical, Electrical, Plumbing, and Fire Protection Engineering. We have organized our project experience in response to your nine specific buildings. You will find our team to be fair and easy to work with and we invite you to dig deeply into our credentials and qualifications provided. You will see a team that has delivered complex projects in a timely manner and with honesty and integrity throughout the process. We look forward to delivering these qualities to the West Virginia Schools for the Deaf and the Blind.

It is our goal to provide a high level of 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

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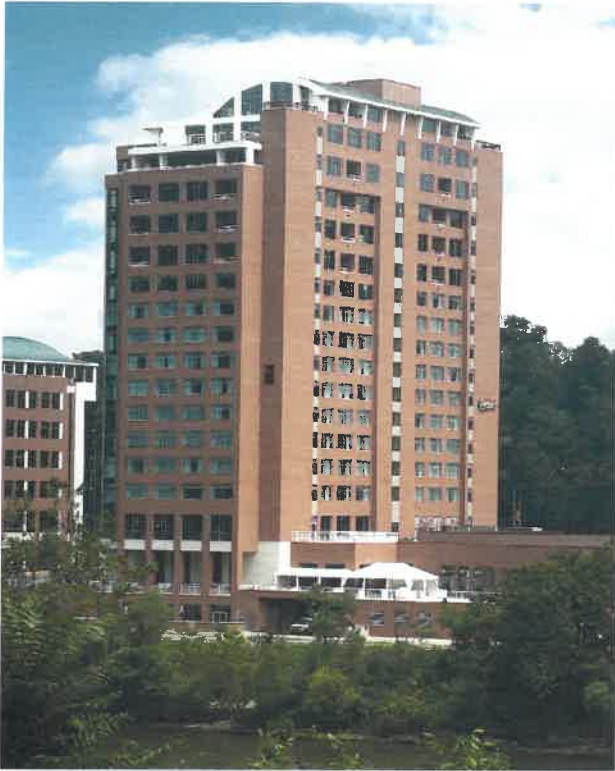
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## Paradigm Corporate Information



Tab 1



Two Waterfront Place

### **Location/Date**

Morgantown, West Virginia – 2002

### **Incorporated**

Birmingham, Alabama - 2000

**Board of Directors:** N/A

**Number of Employees:** 10

### **Size/Location of Field Offices:**

\*Morgantown Office – 6

Birmingham Office – 4

\*The Morgantown office is the principal place of business and place of performance of this contract.

### **Services**

Architectural / Planning / Master Planning

## **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 ten includes five registered architects, three architectural technicians, and two administrative assistants.

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.



West Virginia University Mountaineer Station

*Morgantown Area Chamber of Commerce*

*2019 – Small Business of the Year Award  
Morgantown, WV*

*Mylan Park Foundation*

*2018 – George R. Farmer, Jr. Award  
Morgantown, WV*

*Alabama Masonry Institute*

*2004 – Top Block Award*

*Russell Professional Office Building III  
Alexander City, AL*

*Main Street Morgantown*

*2008 – Best New Construction Award*

*Marina Tower, Morgantown, WV*

*2008 – Best New Office Award*

*Spilman Thomas Battle, Morgantown, WV*

*Pittsburgh Corning Glass Block*

*2004 – Circle of Design Excellence Award*

*Lightning Strikes Family Fun Center*

*Trussville, AL*

*West Virginia American Institute of Architects*

*2010 – Honor Award*

*Upper Monongahela River Center*

*Morgantown, WV*

*2010 – Merit Award*

*West Virginia University*

*Transportation Center & Garage*

*Morgantown, WV*

*International Parking Institute Awards of Excellence*

*2011 – Honorable Mention*

*Mountaineer Station (WVU Transportation Center)*

*Morgantown, WV*

## Firm Profile

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

### EXPERIENCE

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

### Hospitality/Multi-Family Housing

Our multi-family housing experience spans a variety of client types including student dormitories, hotel project, elderly housing, and private residential including single family homes, townhouses, and high end condominiums. West Virginia University Downtown Housing, the Condominiums at Two Waterfront Place in Morgantown, WV, as well as the Glade Springs Resort and Conference Center in Daniels, WV, are a few examples.

### Food Service

We have been privileged to design many food service facilities. These include private restaurants as well as large, full service commercial catering kitchens and banquet facilities. Examples include Two Waterfront Place Hotel and Conference Center, Morgantown Event Center, Regatta Bar and Grille, Boathouse Bistro, Sargasso Restaurant, Trussville Family Center, and Shono's Restaurant.



WVU Honors Dorm

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

*2020 - The Aquatic & Track Center@ Mylan Park  
Morgantown, WV*

*2019 – WVU Center for Hope and Healing  
Morgantown, WV*

*2016 – UClub Sunnyside  
Morgantown, WV*

*2015 - University Park  
Morgantown, WV*

*2014 – WVU College Park  
Morgantown, WV*

*2010 – Morgantown Event Center  
Morgantown, WV*

*2010 – GSA USDA Office Building  
Morgantown, WV*

*2010 – WVU Transportation Center and Garage  
2007 – Waterfront Marina  
Morgantown, WV*

*2007 – Chestnut Ridge Church  
Morgantown, WV*

*2004 – Madden Student Center  
Davis & Elkins College  
Elkins, WV*

*2004 – Two Waterfront Place Hotel  
& Conference Center  
Morgantown, WV*

*2003 – The Jackson Kelly Building  
Morgantown, WV*

*2001 – Russell Cancer Center  
Alexander City, AL*

## Educational

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

## Master Planning

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

## 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.

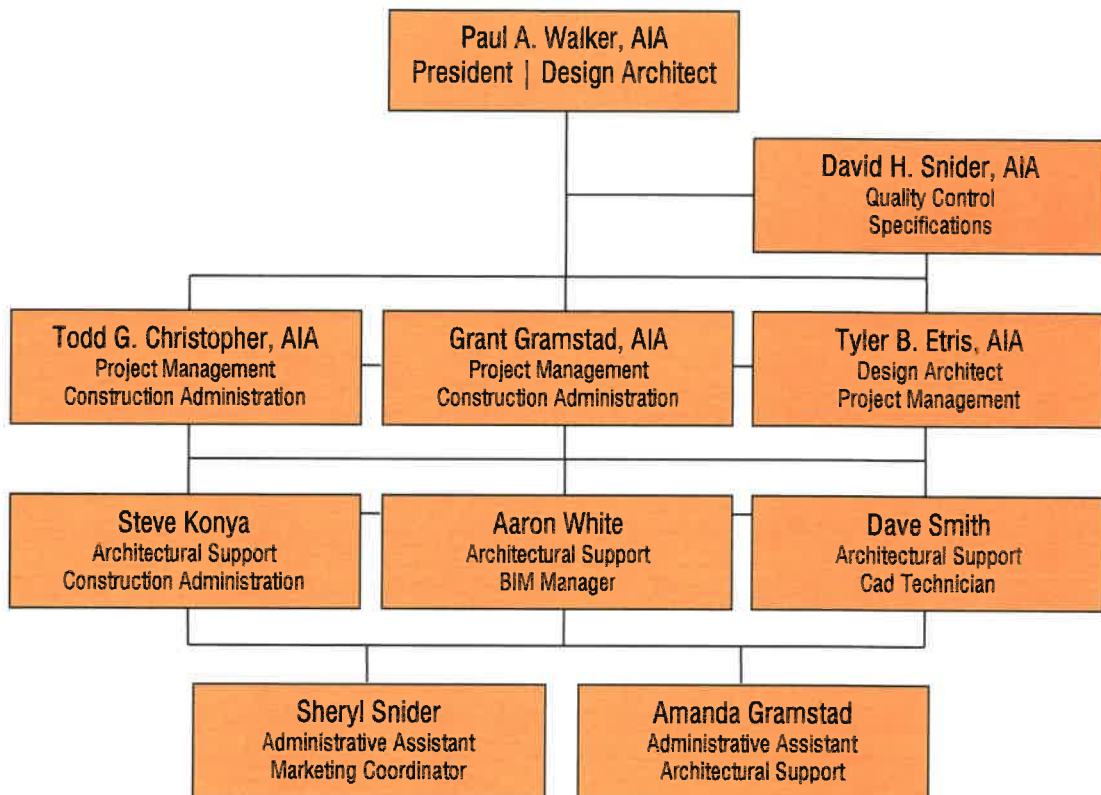
## Healthcare | Institutional

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

## Governmental

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

**PARADIGM**   
ARCHITECTURE







## Project Experience



Tab 2



## Project Sheets Pertaining to Buildings

We have listed below our project sheets that have the experience relating to the School's specific projects.

### **School for the Blind HVAC/Electrical/Window Upgrade**

Fairmont State University Colebank Hall  
WV Department of Health and Human Resources (Lakin Hospital)  
WVU - Parkersburg New Science Wing Fit-Up & Lab Classrooms



### **Central Supply Building Structural Assessment**

Carnegie Library of Pittsburgh, Main Branch  
Kitron Technologies Structural Evaluation & Analysis

### **Seaton Hall Boys Dorm Wing to Administration Offices Renovation**

Beitzel Corporation Office Building  
Marina Tower - WVU Administrative Offices  
Pillar Innovations Office Building & Manufacturing Facility  
The Jackson Kelly Office Building  
WVU B&E School Startup-Accelerator Space



### **School for the Deaf Elevator Upgrade**

Cacapon Resort State Park Lodge Expansion  
Canaan Valley Resort State Park Renovations & Additions

### **Keller Hall Roof Replacement**

Fairmont State University Colebank Hall  
Russell Medical Center Additions & Alterations

### **WVSB/IRC Parking Lot**

Fairmont State University Parking Facility  
U. S. Department of Agriculture (w/parking lot)  
University Place Parking Garage & Retail  
WVU Mountaineer Station  
WVU Mountaineer Station Expansion/Addition



### **Blue & Gold Building**

Chestnut Ridge Church  
U Club Sunnyside  
University Park  
West Virginia University College Park

### **Update All Campus Floor Plans**

West Virginia School of Osteopathic Medicine Masterplan  
WVU Hospital Physician Office Center 2nd/3rd/4th Floor  
Morgantown Marriott @ Waterfront Place Hotel Renovation

### **Keller Hall Dormitory Emergency Generator**

West Virginia University Medicine Children's Hospital  
Forum Health, Trumbull Memorial Hospital  
Allegheny Health Network, St. Vincent Hospital  
DGS A970-221, Southwestern Veterans Center



## Fairmont State University Colebank Hall Renovations Fairmont, WV

This project consisted of various renovation projects to a historic classroom building originally built in the 1940s. Projects included Reroofing, Gymnasium Renovations, Classroom and Administrative Office Renovations, and a Data Center Build-Out.

**Owner:** Fairmont State University  
**Completed:** Winter 2007  
**Cost:** \$2,186,583  
**Delivery Type:** Design-Bid-Build with Competitive Bidding  
**Contractor:** Tmaro Corporation - Mark Owen (304) 842-6926\*  
 Marks-Landau Construction - David Curry (724) 935-8800  
 Sutter Roofing - David Sutter (304) 624-6565  
 Tom Brown Contracting - Tom Brown (724) 743-0690  
**Project Size:** 42,200 SF  
**Key Personnel:** Paul Walker, PIC | David Snider, PA | Steve Konya, CA  
**Client:** Stephanie Slaubaugh, Construction Project Manager  
**Reference:** Fairmont State University - Physical Plant Office  
 1201 Locust Avenue  
 Fairmont, WV 26554  
 (304) 367-4401  
 sslaubaugh1@fairmontstate.edu

**Project Budget: Initial Budget:** \$2,250,000  
**Final Budget:** \$2,186,583  
**Variance (%):** 9.7%  
**Fees/Reimbursables: Fee:** \$56,000/2.6%  
**Amount of Add'l Services:** \$1,000  
**Total Reimbursable Costs:** \$3,846

\*no longer in business



## PROJECT DESCRIPTION

**Program/Goals:** Fairmont State University's goals included maintaining the historical character of the classroom building originally built in the 1940s. Other goals included functional program changes to the interior to accommodate growth and re-direction of the educational program in this building.

**Reroofing Project:** Removal and replacement of existing roofing system that was beyond its warranty and leaking.

**Interior Renovations Projects:** Interior renovations of gymnasium, classrooms, administration offices and data center included removal of selected existing partitions and finishes.

### Solutions:

**Reroofing Project:** New roof system included rigid insulation to comply with energy code, membrane roofing, coping, flashings and replacement of existing expansion joint between Colebank Hall and adjoining facility.

**Interior Renovations Projects:** New work included code compliance review, new partitions, doors and finishes to accommodate the new program changes. Data Center includes a new raised access flooring. Adjustments and redesign to plumbing, mechanical and electrical system were completed to Owner satisfaction.

**Project Completion with Respect to Schedule:** The Colebank Hall Renovations finished on schedule with no schedule extensions.



## West Virginia Department of Health and Human Resources Projects

Various Cities, West Virginia

**Lakin Hospital Capital Improvements  
Beckley  
Window Replacement & Electrical Upgrade**

**John Manchin Sr. Health Care Facility  
Fairmont  
Electrical System Upgrade**

**Hopemont Hospital  
Terra Alta  
HVAC & Electrical System Upgrade**

**Welch Community Hospital  
Welch  
HVAC & Electrical Systems Upgrade**

**Mildred Mitchell-Batemann Hospital  
Huntington  
HVAC Renovations**

**Jackie Withrow Hospital  
Beckley  
Mechanical Systems Upgrade**

**William R. Sharpe Jr. Hospital  
Weston  
HVAC Renovations**

**Completed: Spring 2012  
Cost: \$3.5 Million**



Jackie Withrow Hospital



Hopemont Hospital



William R. Sharpe Jr. Hospital



Lakin Hospital



## West Virginia University - Parkersburg New Science Wing Fit-Up & Lab Classrooms

**Summary:** Paradigm Architecture and Stanley Beaman Sears were tasked with renovating an existing Automobile Welding Shop into the New Science Wing at the Main Campus of WVU Parkersburg. The space was designed for five classroom labs and supporting space for a total of about 11,800 SF of renovated space. Additionally, a new entrance façade converted the existing shop front with its row of garage doors into a contemporary look for the New Science Wing.

This project was done in multiple phases as funding was approved.

**Owner:** West Virginia University - Parkersburg

**Architect of Record:** Paradigm Architecture, Inc.

**Lab Architect:** Stanley Beaman Sears

**Completed:** Summer 2013

**Cost:** \$1 Million

**Size:** 11,800 Square Feet

**Contractor:** Interiors Plus & MIRC Construction Services

**Program/Goals:** West Virginia University – Parkersburg wished to convert an existing automobile welding shop into the campus' New Science wing.

**Site:** The site was contained to the existing building which was approximately 11,800 SF.

**Solution:** The open nature of the automobile welding shop presented a large open area without many obstructions to design around. Labs for biology, botany, zoology, microbiology, anatomy, and other disciplines were provided consisting of both wet and dry lab spaces. Also provided are support and storage spaces for lab equipment.

The exterior of the building incorporates a new façade in front of the existing garage doors giving the building a new contemporary look. The new façade also incorporated a lobby area for the building with a large expanse of glass reinforcing the modern feel of the building.

# Carnegie Library of Pittsburgh, Main Branch

## Electrical and Structural Upgrades, Pittsburgh, PA



### THE PROJECT

The nearly 120 year old Carnegie Library of Pittsburgh Main Branch is a historic building in the heart of the Oakland section of Pittsburgh located between the University of Pittsburgh and Carnegie Mellon University. The project is to build a new Main Electric Room, replace several screw-in plug fuse panels, and replace the Library's existing 4,160V electrical service and low voltage distribution system.

### CJL DESIGN SOLUTIONS

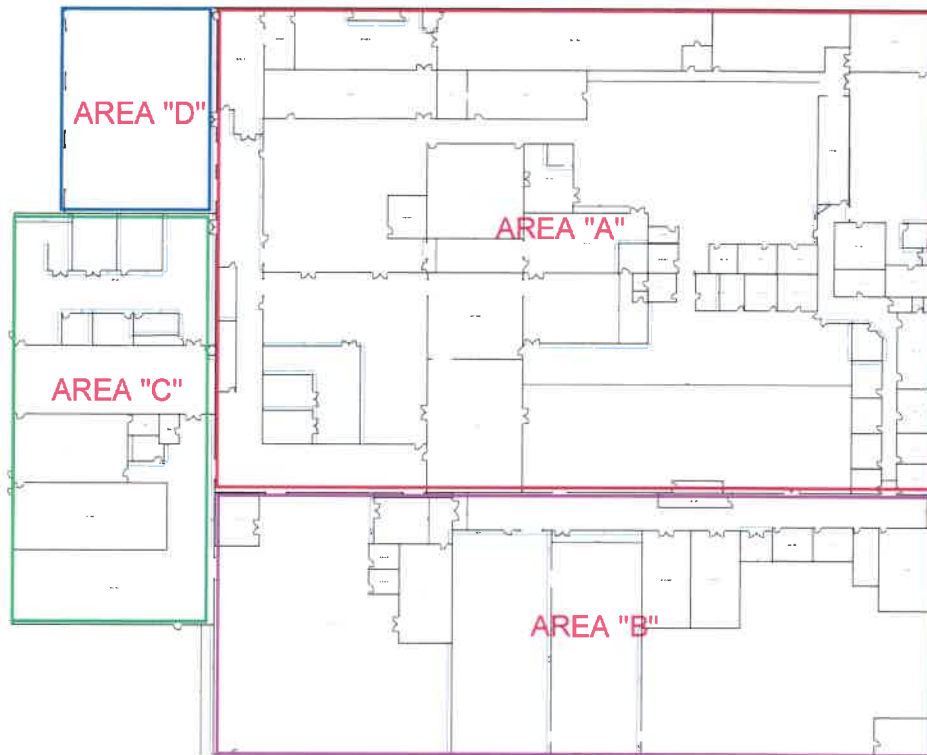
- A new 716 sf main electric room was constructed in an in-fill space between the Carnegie Library and the Carnegie Museum of Natural History
- Within the new main electric room a 4,160V distribution switchboard with integral 4,160V, 3-Phase to 480Y/277V 3-Phase, 4-Wire transformer shall be installed. Additionally, 480Y/277V 3-Phase, 4-wire and 208Y/120V, 3-Phase, 4-wire distribution switchboards shall be installed
- Elevator design upgrade
- There were nine screw-in plug fuse panels that were replaced with new circuit breaker panelboard interior
- Structurally designed the new 786 sf load-bearing masonry building with wood truss roof
- New drainage system that makes use of part of the existing system in order to route storm water away from the new electrical building

### CJL Engineering

Pittsburgh | Johnstown | Youngstown | Frederick | Erie | Morgantown  
P: 412.262.1220 | [cjlengineering.com](http://cjlengineering.com)

# Kitron Technologies, Inc.

## Structural Evaluation and Analysis, Windber, PA



### THE PROJECT

CJL Engineering was contacted to explore the concerns of the 110,000 SF building's roof's adequacy to support the region's snow load. CJL Engineering visited the building and determined that building has four areas of different framing configurations and these areas appear to be constructed as successive building additions. It was decided to take detailed measurements of a representative beam, girder, and column in each of the four areas and perform an analysis on the members to determine their snow load carrying capacities.

### CJL DESIGN SOLUTIONS

- Detailed measurements of the framing members were taken at each of the areas, the dimensions were compared to size tables and shared with the Steel Joist Institute (SJI) to determine possible sizes for the members.
- A structural analysis was performed on each member to determine the maximum allowable snow load on the roof for the given members.





## Beitzel Corporation Office Building Grantsville, MD



The new corporate headquarters for Beitzel Corporation consists of a three story, 29,745 square foot building. The building houses offices, open office areas, a state-of-the-art training facility, conference rooms, catering kitchen, support spaces, and core components. The building also features an outdoor patio space for employee breaks and gatherings. The brick & metal panel building utilizes LED equipped light fixtures, LOW-E reflective glass, and additional insulation to minimize utility needs and reduce its carbon footprint.



**Owner:** Beitzel Resources, LLC

**Completed:** Summer 2015

**Cost:** \$5.35 Million

**Size:** 29,745 Square Feet

**Delivery Type:** Design-Bid

**Contractor:** Harbel, Inc.



## Marina Tower - WVU Administrative Offices | Morgantown, WV

West Virginia University occupies two floors in the Marina Tower office building. The 20,000 square feet of space is used to house administrative functions including Facilities and Services, Real Estate, Facilities Planning and Scheduling, News and Information, Planning and Treasury Operations, and Internal Audit.



**Owner:** Platinum Properties

**Completed:** Fall 2010

**Cost:** \$395,400

**Size:** 20,000 Square Feet

**Delivery Type:** Owner-Constructed/Subcontractor Bids

**Contractor:** WVU In-House Construction Group



## Pillar Innovations Office Building & Manufacturing Facility | Morgantown, WV

**Summary:** The new facility for Pillar Innovations is comprised of 19,830 square feet over two floors. The first floor of the building will house the manufacturing & laboratory spaces of the building as well as core components. The second floor consists of offices, open office areas, a training facility, conference room, catering kitchen, support spaces, and core components. The brick exterior of the building is accentuated with brick banding, composite metal panels, and LOW-E reflective glass. The design allows for future expansion for Pillar Innovations in their ever growing market.

**Owner:** Beitzel Resources, LLC

**Completed:** Fall 2011

**Cost:** \$4.1 Million

**Size:** 19,828 Square Feet

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

**Contractor:** TEDCO Construction Corporation

**Program/Goals:** The desire was to create a state of the art office building and manufacturing facility for Pillar Innovations.

**Site:** The site was located within the Chaplin Hill business park in Morgantown, WV. The site was relatively flat with an ample lay down and staging area for construction.

**Solution:** The solution was to create a two story office and manufacturing facility. The first floor houses the manufacturing facility and was planned with open areas for work tables, material storage, and equipment. The second floor contains offices, conference & training areas and support spaces. Anticipating future growth, Pillar Innovations has long term plans to build a larger manufacturing building behind the current building. Once this transition takes place, the first floor will be built out with office spaces similar to the second floor.

The building has a modern flair which pays homage to Pillar Innovation's ideals of being a progressive company pushing the envelope within their industry. The building has large expanses of glass with complimentary brick colors, anodized metal panels, and a modern colonnade. The metal panels make their way within the interior of the building and accent a grand stair.



## The Jackson Kelly Office Building | Morgantown, WV

**Program/Goals:** Provide lease office space within the historic Wharf District within the city limits of Morgantown, WV. The Owner's wish to respect the historic character of the area created a need for a palette of materials; fenestration along with building massing that complimented the existing structures.

**Site:** The site is a triangular-shaped lot within the Wharf District. Site limitations included the unusual shaped lot along a formal street and a rail trail which runs along the Monongahela River. The formal street includes street design features established for the District by the City of Morgantown, WV.

**Solution:** Off-street parking on-site was not possible due the geometry of the lot. Therefore, the solution used an existing adjacent parking deck owned by the same Owner. The building design solution started with a zero lot line concept common in the district. This approach maximizes the available lease space with a limited site. The building exterior uses brick details and 2 different brick colors which are complimentary to surrounding structures. Fenestration size, shape, and placement mirror existing buildings. Views to Monongahela River and City are spectacular from within the building and from the rooftop terrace. While the final design solution fits the contexts of its historic roots and surroundings, this project starts a new dialogue for future projects.

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

### **ABC West Virginia Chapter: 2003 Excellence in Construction Award**

**Owner:** Platinum Properties

**Owner Contact:** Rich Lane - (304) 284-5013

**Completed:** Spring 2002

**Cost:** \$4.5 Million (Shell)

**Size:** 50,000 Square Feet

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

**Contractor:** March-Westin Company, Inc.



## WVU B&E Startup Engine and Accelerator Space | Morgantown, WV

The WVU Business & Economics School Startup - Accelerator Space is approximately 7,500 square feet of existing space underneath the University Place Garage in Morgantown, West Virginia. The project consists of coworking/startup space, accelerator space for new businesses, meeting space for over 200 people, offices for program directors, a kitchen area, and conference rooms. In addition, the entire space is readily available with top of the line technology capabilities such as video conference and virtual presentations. The program's mission is to attract, select and accelerate startups focused on the sectors/industries identified in the West Virginia Forward report with the objective of supporting the diversification of the state's economy. The Startup Engine supports diversification of the state's economy through sector-specific, cohort-based business development programs. The program helps startups hone their ideas, access seed capital, develop mentor relationships and partner with existing businesses.

**Owner:** West Virginia University

**Owner Representative:** John Thompson (304) 293-3625

**Completed:** Summer 2019      **Size:** 7,500 square feet

**Lead Design Architect:** Tyler B. Efris, AIA

**Initial Budget:** \$924,000    **Final Budget:** \$985,636    **Variance (%):** 8%

**AE Omissions (%):** 0%    **Owner Omissions (%):** 1%

**Fee (\$ amount and % of construction):** \$69,500 - 7%

**Amt of Add'l Services (\$):** \$0      **Total Reimbursable Costs:** \$0

**Contractor:** Lomardi Development Co., Inc.  
Veritas Contracting, LLC



## Cacapon Resort State Park Lodge Expansion

Berkeley Springs, WV

**Summary:** Located in the eastern panhandle of West Virginia, Cacapon Resort State Park is available for both family vacations and business retreats, offering access to golf, lake, and camping activities. The facility functions as the main lodging and meeting center of the resort and offers a mix of hotel rooms and suites, and a conference center. The new addition provides an additional 79 guest rooms, swimming pools, new dining facilities and commercial kitchen, and a spa and fitness area. Additional renovations to the resort includes existing guest rooms, golf course upgrades, as well as water and wastewater treatment upgrades.

**Program/Goals:** Enhance guest experience by providing additional quality lodging, meeting and recreational opportunities. Upgrade aging utility systems to assure long-term operation of the park.

**Solution:** By master planning the entire complex and creating an addition that fulfills the functional goals while maintaining the architectural character of the original lodge.

**Coordinated with the State Historic Preservation Office  
Eligible for National Register of Historic Places**

**Owner:** West Virginia Division of Natural Resources

**Owner's Representative:** Bradley S. Leslie, PE - (304) 558-2764

**Completed:** Fall 2020

**Cost:** \$22 Million

**Size:** 63,669

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

**Contractor:** Paramount Builders





## Canaan Valley Resort State Park Renovations & Additions Davis, WV

**Program/Goals:** The lodge facility at Canaan Resort State Park was comprised of five 1970s modular lodging buildings and a Main Lodge structure housing the public amenities. When Paradigm Architecture was hired, several challenges were apparent. At least two old lodging buildings were in conflict with the desired additions and would have to be demolished. Furthermore, it would be impossible to complete new construction work prior to the onset of Canaan Valley's notoriously brutal winter. This meant months of idleness for the project.

**Solution:** Working closely with the State of West Virginia DNR, we devised a plan to fast track two packages, one for demolition of the two lodging buildings and a foundation and structural steel package. Full construction documents for completion of the project would be bid during the winter months allowing the contractors to begin work in early spring. This decision would result in modest additional costs to the project but speed the opening up by almost a full year. The final facility added 100,000 SF of new construction to 60,000 SF existing Lodge. Canaan Resort represents a highly complex challenge of existing conditions documentation, scheduling, and budget management.

Situated in one of the most scenic and tranquil settings in the Mid-Atlantic, with unlimited recreation and family-focused activities, Canaan Valley Resort is a four-season destination providing the perfect escape from the pressures of daily life. The construction/renovations was administered in phases and included the construction of two brand new guest wings (162 rooms) along with extensive refurbishing of the main lodge (where the front desk, meeting rooms, dining room, and indoor pool are located).

**Coordinated with the State Historic Preservation Office  
Eligible for National Register of Historic Places**

**Owner:** West Virginia Division of Natural Resources  
Park & Recreation  
324 Fourth Avenue, Room 203  
South Charleston, WV 25303-1228

**Owner's Representative & Phone:** Brad Leslie, PE; (304) 558-2764

**Completed:** Fall 2013

**Size:** 102,534 SF (addition); 64,993 SF (renovation)

**Cost:** \$27.6 Million

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

**Contractor:** Harbel, Inc.



## PROJECT DESCRIPTION

Canaan State Park Lodge & Conference Center, Davis, WV. The lodge facility at Canaan Resort State Park was comprised of five 1970s modular lodging buildings and a Main Lodge structure housing the public amenities. When Paradigm Architecture was hired, several challenges were apparent. At least two old lodging buildings were in conflict with the desired additions and would have to be demolished. Furthermore, it would be impossible to complete new construction work prior to the onset of Canaan Valley's notoriously brutal winter. This meant months of idleness for the project. Working closely with the State of West Virginia DNR, we devised a plan to fast track two packages, one for demolition of the two lodging buildings and a foundation and structural steel package. Full construction documents for completion of the project would be bid during the winter months allowing the contractors to begin work in early spring. This decision would result in modest additional costs to the project but speed the opening up by almost a full year. The final facility added 100,000 SF of new construction to 60,000 SF existing Lodge and a construction cost of \$27,600,000.00. See Project Information Sheet included in this proposal.

Though not Higher Education project, Canaan Resort represents a highly complex challenge of existing conditions documentation, scheduling, and budget management. Our efforts resulted in another similar project at the Cacapon Resort State Park Lodge & Conference Center.

### Initial Construction Budget:

Phase I: \$153,000  
 Phase II: \$2,591,900  
 Phase III: \$23,914,010

### Final Construction Budget:

Phase I: \$131,050  
 Phase II: \$3,086,200  
 Phase III: \$24,160,916

### Variance

Phase I: 0%  
 Phase II: 2.1%  
 Phase III: -1.6%

### A/E Omissions:

\$20,000

### Owner Omissions Changes:

\$100,000

### Site Related Geotech Conditions:

\$607,700

### Fees and Reimbursables: Fee:

\$2,151,644 | 8%

### Reimbursables:

\$50,000

### General Contractor:

Phase I: Dan Hill Construction-Robert Dan Hill (304) 632-1600

Phase II: Wiseman Construction-J.C. Linkinoggor (304) 344-1200

JLinkinoggor@wisemanconst.com

Phase III: Harbel, Inc.-Adam Sterne-(301) 729-8900

adam@thebeltgroup.com

\*Coordinated with the State Historic Preservation Office  
 Eligible for National Register of Historic Places

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





## Fairmont State University Colebank Hall Renovations Fairmont, WV

This project consisted of various renovation projects to a historic classroom building originally built in the 1940s. Projects included Reroofing, Gymnasium Renovations, Classroom and Administrative Office Renovations, and a Data Center Build-Out.

<b>Owner:</b>	Fairmont State University
<b>Completed:</b>	Winter 2007
<b>Cost:</b>	\$2,186,583
<b>Delivery Type:</b>	Design-Bid-Build with Competitive Bidding
<b>Contractor:</b>	Tmaro Corporation - Mark Owen (304) 842-6926* Marks-Landau Construction - David Curry (724) 935-8800 Sutter Roofing - David Sutter (304) 624-6565 Tom Brown Contracting - Tom Brown (724) 743-0690
<b>Project Size:</b>	42,200 SF
<b>Key Personnel:</b>	Paul Walker, PIC   David Snider, PA   Steve Konya, CA
<b>Client</b>	Stephanie Slaubaugh, Construction Project Manager
<b>Reference:</b>	Fairmont State University - Physical Plant Office 1201 Locust Avenue Fairmont, WV 26554 (304) 367-4401 sslaubaugh1@fairmontstate.edu
<b>Project Budget:</b>	Initial Budget: \$2,250,000
	Final Budget: \$2,186,583
<b>Variance (%):</b>	9.7%
<b>Fees/Reimbursables:</b>	Fee: \$56,000/2.6%
<b>Amount of Add'l Services:</b>	\$1,000
<b>Total Reimbursable Costs:</b>	\$3,846

\*no longer in business



## PROJECT DESCRIPTION

**Program/Goals:** Fairmont State University's goals included maintaining the historical character of the classroom building originally built in the 1940s. Other goals included functional program changes to the interior to accommodate growth and re-direction of the educational program in this building.

**Reroofing Project:** Removal and replacement of existing roofing system that was beyond its warranty and leaking.

**Interior Renovations Projects:** Interior renovations of gymnasium, classrooms, administration offices and data center included removal of selected existing partitions and finishes.

### Solutions:

**Reroofing Project:** New roof system included rigid insulation to comply with energy code, membrane roofing, coping, flashings and replacement of existing expansion joint between Colebank Hall and adjoining facility.

**Interior Renovations Projects:** New work included code compliance review, new partitions, doors and finishes to accommodate the new program changes. Data Center includes a new raised access flooring. Adjustments and redesign to plumbing, mechanical and electrical system were completed to Owner satisfaction.

**Project Completion with Respect to Schedule:** The Colebank Hall Renovations finished on schedule with no schedule extensions.

## Fairmont State University Projects | Fairmont, WV



**Colebank Hall Renovations**  
Completed: Winter 2007  
Cost: \$1.5 million  
Size: 42,000 sf



**Falcon Center Conference Center/Classroom Fitup**  
Completed: Fall 2006  
Cost: \$770,000  
Size: 9,200 sf



**Hardway Hall Portico Renovations**  
Completed: Summer 2010  
Cost: \$333,000  
Size: 3,000 sf



**Morrow Hall Renovations Feasibility Study**  
Completed: TBD  
Cost: \$4.3 million  
Size: 40,000 sf



**Parking Facility**  
Completed: Summer 2004  
Cost: \$10 million  
Size: 940 spaces; 269,000 sf



**Parking Feasibility Studies**  
Completed: TBD  
Cost: \$5-\$17 million  
Size: 700-900 spaces

**Hunt Haught Hall Renovations**  
Completed: Spring 2008  
Cost: \$233,000

**Education Building Reroofing**  
Completed: Winter 2009  
Cost: \$412,000  
Size: 2,250 sf



## Russell Medical Center Additions & Alterations | Alexander City, AL

Working under an open end contract, various renovations to Russell Medical Center have been ongoing. These projects involved redesigning all major departments and services including: various doctor's suites, physical therapy, lab, open MRI addition, emergency department, sleep lab, pre-admit testing and satellite lab, women's center, hospice, PET scan, lanier accelerator, cafeteria, pharmacy, and site renovations.

**Owner:** Russell Medical Center

**Owner's Representative:** Mike McCaleb

**Phone:** 256-329-7176

**Completed:** Varies from 1999 to current

**Cost:** Ranges from \$200,000 to \$2.5 million

**Funding:** Private

**Size:** 145,787 Square Feet

**Delivery Type:** Negotiated Single Prime Contractor

**Contractor:** Various



## Fairmont State University Parking Facility | Fairmont, WV

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



**Owner:** Fairmont State University  
**Completed:** Summer 2004  
**Cost:** \$10 Million  
**Size:** 269,000 Square Feet  
**Delivery Type:** Design-Build-Negotiated  
**Contractor:** March-Westin Company, Inc.



**Program/Goals:** Provide a new facility to house the various agencies of the United States Department of Agriculture housed in the Federal Building in downtown Morgantown. Support groups such as Information Technology and the Tri-Ag Federal Credit Union will be located in the new facility as well. The program required Federal security standards related to the building, roads, and parking area. Common areas were required for conference/training rooms, break room, mail room and fitness center. In addition, the project was required to achieve LEED Certification.

**Site:** The project site was a relatively flat rectangular parcel along the commercial section of Earl Core Road in Sabraton. The property was a former "Brown Field" site owned by the WV Department of Highways. A portion of the land was within the 100-year floodplain of Deckers Creek which limited the positioning of the building.

**Solution:** The security standards established the perimeter setbacks and the limitations in property width dictated that only visitor parking could be located in front of the building with employee and secured parking in the rear. This functions well because the Tri-Ag Credit Union requires public access and visibility. The remaining agencies generally function as traditional office environments. The southern and western faces of the building are defined by larger window sections which are screened from harsh summer sunlight by an architectural colonnade and continuous sun screens. These treatments in conjunction with the use of three distinct masonry veneer materials add visual interest to a building that is basically a two-story rectangle.

## The General Services Administration for the U.S. Department of Agriculture | Morgantown, WV

Awarded through a Design-Build Competition sponsored by the General Services Administration. This two-story facility houses five agencies of the USDA including: the Credit Union, Rural Development, Farm Services Administration, Natural Resource Conservation services, and the USDA Information Technology Services as well as a wellness center.

### LEED Certified

**Owner:** Glenmark Holdings, LLC

**Owner Contact:** Mark Saab - (304) 599-3369 ext. 103

**Completed:** Summer 2009

**Cost:** \$7.5 Million (Shell)

**Size:** 36,000 Square Feet

**Delivery Type:** Design-Build Competition

**Contractor:** March-Westin Company, Inc.



## University Place Parking Garage & Retail

Morgantown, WV

University Place Parking Garage is comprised of a 500 space parking facility and 15,000 square feet of retail on the ground floor. Paradigm set goals and aimed to break up the monotony of a typical parking garage by providing modern architectural elements and program at the ground level that will help facilitate activity on a very pedestrian street, University Avenue.

**Owner:** Downtown Campus Parking Associates, LLC

**Owner's Representative & Phone:** Andy Dye - 412.670.7490

**Completed:** Fall 2015

**Cost:** \$12.2 Million

**Size:** 15,000 Square Feet (retail)

176,682 Square Feet (parking);

714 parking spaces

**Delivery Type:** Design-Build

**Contractor:**

March-Westin Company, Inc.



**Program:** To create a 500 space parking garage in the Sunnyside area of Morgantown, WV to accommodate parking for student housing and retail spaces.

**Site:** A steep hillside site at the corner of University Avenue and Overhill Street. The site is surrounded by multi story, student housing buildings, and single family homes.

**Solution:** A solution was needed that addressed the urban limitations of the site, the difficulty in transporting materials to the site, and the physical limits of the site for erection. As a result the six story building was constructed using a structural steel frame with metal decking and concrete. This allowed components which were easier to transport and erect. In addition to the parking area the building also includes 14,900sf of mixed use space. Building components are defined by brick, curtainwall, glazing, and perforated mesh.



**Program/Goals:** Create a center for various modes of transportation and expand the use of the existing campus Personal Rapid Transportation (PRT) mass transit system. Key elements include: parking for 500 vehicles with plans to expand vertically and horizontally to 1,500 spaces, bus stops for community and campus lines, bicycle storage and showers, lobby/lounges for commuter students, retail, and Administration Offices for the WVU Parking Authority. The facility must provide ADA accessible access to the PRT Station by way of stairs, elevators, and pedestrian bridge.

**Site:** A roughly two-acre hillside site on the Evansdale Campus of West Virginia University. The site is defined by the Personal Rapid Transit (PRT) Station and associated tracks to the east and an irregular boundary established by the campus steamline right-of-way to the west.

**Solution:** Establish an axis in line with the PRT. This serves as the pedestrian connection from entrance to the PRT Station via monumental stair and elevator. The five-story parking garage is situated in the hillside parallel to the PRT tracks. The remaining program functions are organized in a building which is rotated to align with the angle of the right-of-way boundary. This arrangement provides for the addition of a future parking structure to the north. Building components are further defined by different brick colors. Glass curtainwall tower defines entrance and emphasizes the pedestrian pathway through the facility.

## West Virginia University Mountaineer Station

Morgantown, WV

**Intermodal Transportation Center and Parking Garage.** A State of West Virginia Design-Build Competition featuring a 500-car parking garage, bus drop-off area/lounge and toilets, retail space, and office areas for the West Virginia University Parking Authority. The facility is designed to connect to the Public Rapid Transit Station and can be expanded both vertically and horizontally to accommodate a total of 1,500 vehicles.

**Owner:** West Virginia University

**Completed:** Fall 2009

**Cost:** \$14.5 Million

**Size:** 12,500 Square Feet (retail space); 160,00 Square Feet (parking deck)  
500 Parking Spaces

**Delivery Type:** Design-Build Competition

**Contractor:** March-Westin Company, Inc.





**Program:** Expand the existing parking garage to accommodate an additional 758 parking spaces for WVU Hospital. An additional 4,700 sf of mixed use space is also included on the first floor which WVU Hospital will occupy. The facility will provide ADA accessibility to the PRT Station by way of stairs, elevators, and a pedestrian bridge.

**Site:** A hillside site on the Evansdale Campus of West Virginia University lying to the north of the existing Mountaineer Station. The site is defined by the Personal Rapid Transit (PRT) Station and associated tracks to the east and an irregular boundary established by the campus steamline right-of-way to the west.

**Solution:** The addition maintains connection with the axis line defined with the existing building and PRT. The building is comprised of seven stories situated in the hillside to align with the existing building and runs parallel with the PRT tracks. The building uses the same brick colors as the original building. While the colors remain constant, the two types of brick are used to create an opposite appearance to the existing building. Glass curtainwall tower defines entrance and emphasizes the pedestrian pathway through the facility.

## West Virginia University Mountaineer Station Expansion/Addition | Morgantown, WV

Paradigm Architecture was involved in the design of the West Virginia University Transportation Center and Garage in 2009. As part of the design build competition for the commission, the program required vertical and horizontal expansion of the facility. The total parking capacity would increase from the original 500 vehicles in Phase I to a total count of 1,258. A new \$280 million addition to the WVU Medical Center and limited available land prompted the completion of the study for expansion of the parking facility. The new garage connects to the common lobby and has full access to the Personal Rapid Transit System and the Medical Center.

**Owner:** West Virginia University Hospital

**Owner's Representative & Phone:** James Snider - 304.598.4125

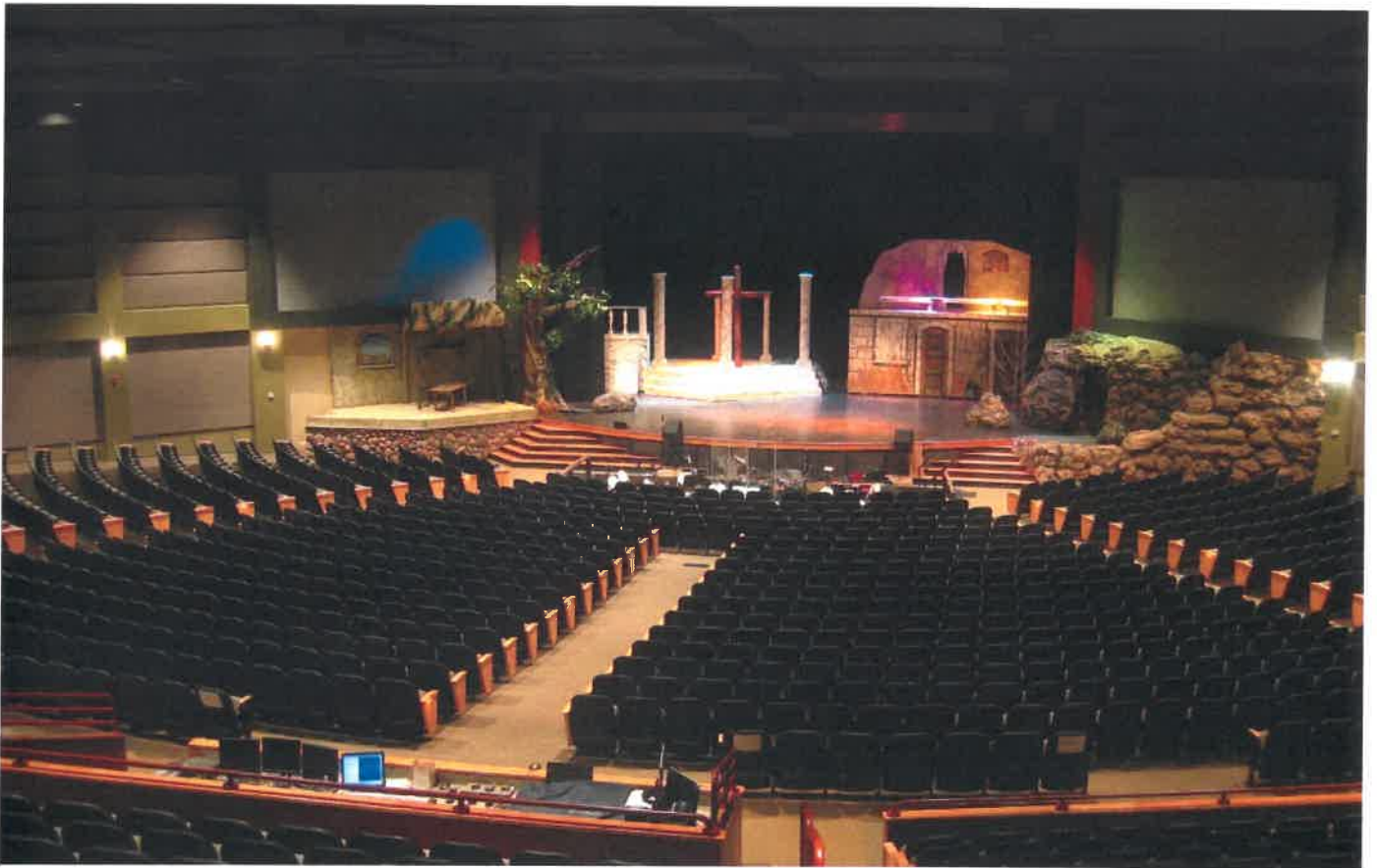
**Cost:** \$19.4 Million

**Size:** 5,016 Square Feet (office/retail)

232,291 Square Feet (parking deck); 758 Parking Spaces

**Delivery Type:** Design-Build

**Contractor:** March-Westin Company, Inc.



## Chestnut Ridge Church | Morgantown, WV



A 2,000+ seat auditorium, non-denominational church in the Cheat Lake area. Includes two additional chapels, a gymnasium, teen center, library, classrooms, a three-story administration building, and 8,400 square feet of circulation / lobby space. The parking lot accommodates 750 spaces.

**2007 Excellence in Construction Award from the Associated Builders & Contractors, Inc.**



Owner: Chestnut Ridge Church

Completed: Fall 2006

Cost: \$10 Million

Size: 85,000 Square Feet

Delivery Type: Design-Build Negotiated

Contractor: March-Westin Company, Inc.



## U Club Sunnyside | Morgantown, WV

A student housing facility with multiple story split buildings containing approximately 210,000 square feet and consisting of 134 units with 536 beds, together with an 8,971 square foot community center. The apartment-style units consist of a combination of 4 bedroom/4 bath and 2 bedroom/2 bath. The community center has a public lobby, administrative offices, fitness center, pool, game room, and study lounge.

Owner: American Campus Communities

Owner's Representative & Phone: Jeremy Roberts; 512.569.7481

Completed: Summer 2016

Cost: \$34 Million

Size: 210,000 Square Feet

Delivery Type: Design-Build

Contractor: March-Westin Company, Inc.

**ABC West Virginia Chapter:  
2016 Excellence in Construction Award**



## University Park Student Housing & Mixed-Use Development | Morgantown, WV

This student housing project at West Virginia University includes a dormitory facility to accommodate 900± students, an apartment complex with two-, three-, and four-bedroom apartments to house 400± students, and a mixed-use building to provide housing for rent as well as building amenities such as a restaurant, and retail space for rent including buildout, along with outparcels and other buildings to fully develop the property.

“University Park Apartments is West Virginia University’s newest apartment complex. It is located on the Evansdale Campus and has modern student living space composed of fully-furnished 1, 2 and 4 bedroom configurations. All apartments have granite countertops in the kitchen and bathrooms, stainless steel appliances, countertop eat-in bar and more.” -[universitypark.wvu.edu](http://universitypark.wvu.edu)

Owner: University Park at Evansdale, LLC

Owner’s Representative & Phone: Mike Saab; 304.599.3369

Completed: Fall 2015

Cost: \$73 Million

Size: 434,104 Square Feet

Delivery Type: Design-Build

Contractor: March-Westin Company, Inc.

**ABC West Virginia Chapter:  
2015 Excellence in Construction Award**



## West Virginia University College Park | Morgantown, WV

Paradigm Architecture and American Campus Communities have design a premier mixed-use state-of-the-art housing community located in close proximity to the University's Downtown Campus on 10+ acres. Of extreme importance to WVU is the integration, impact, and fit of this project with the University's 2020 "strategic plan for the future." Given the property's proximity to the Downtown Campus of the University and access to existing and planned University education, administration, and student use buildings, of key importance to the Project will be its ability to achieve a balance between the various potential housing-market uses of this strategically located property and the mission and educational goals of the University.

**ABC West Virginia Chapter: 2014 Excellence in Construction Award**

Owner: West Virginia University

Developer: American Campus Communities

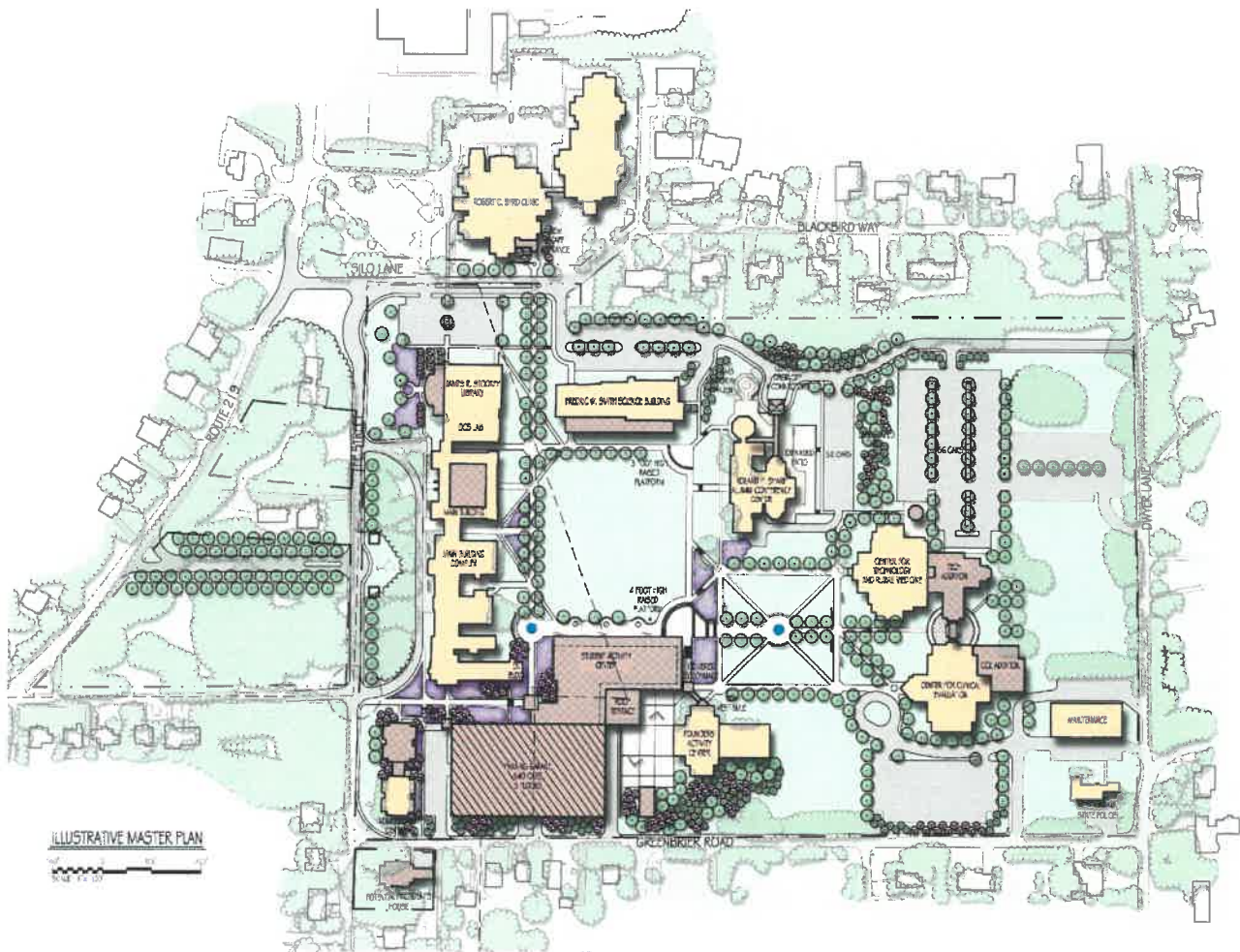
Owner's Representative & Phone: John Delacruz; 512.732.1031

Completion: Summer 2014

Cost: \$35 Million

Size: 258,000 Square Feet

Contractor: March-Westin Company, Inc.



## Masterplan for West Virginia School of Osteopathic Medicine | Lewisburg, WV

(Includes Intramural Sports & Recreation)

This study established the physical development necessary to support the current needs of the campus as well as for projected enrollment growth. The plan addressed the current campus needs and goals while being sufficiently flexible to respond to future changes. In addition to physical evolution, the plan addressed accommodation of academic programs. The physical planning included land use, campus capacity, transportation and circulation, building conditions, guidelines and quality standards for facilities, space requirements, utility needs, parking, landscape and open space structure. Some of the campus grounds and buildings are listed on the National Register of Historic Places.

**Owner:** West Virginia School of Osteopathic Medicine

**Owner's Representative:** Larry Ware, VP Finance & Facilities

**Phone:** (304) 647-6220

**Completion:** Spring 2011



## WVU Hospital POC 2nd/3rd/4th Floor Renovations | Morgantown, WV

Renovations of second, third, and fourth floors of the existing 1980s Physician Office Center at West Virginia University Healthcare System. Project was phased for renovations to occur one floor per year to reduce inconvenience for patients and staff. Additional phasing was necessary for each floor.

### Design Goals:

- Eliminate separate waiting and check-in/out function into one centralized waiting room and include separate patient computer check in capabilities.
- Eliminate the separate doctors' suite concept in the original design.
- Develop cross circulation pathways for patient and staff between the original separate suites. Doctors are assigned exam rooms based on needs for each day. The cross-circulation pathways made it easier to maximize usage of all available exam rooms.
- Develop standard size exam room for doctors practicing different disciplines.

### Exam rooms include the following features:

- Standard size and layout with base/wall cabinets
- Introduce larger exam doors to corridors to move equipment.
- Add computer terminals in each exam room for easy patient record access and documentation.
- All engineering systems such as sprinklers, plumbing, mechanical, electrical and data to receive required updates.

**Owner:** WVU Hospitals, Inc.

**Owner's Representative:** Alan Neptune (304) 598-4125 ext. 73755

**Completed:** Summer 2019

**Size:** 71,932 Square Feet

**Delivery Type:** Negotiated

**Contractor:** Landau Building Co.



## Morgantown Marriott at Waterfront Place Hotel Renovation | Morgantown, WV

The Morgantown Marriott at Waterfront Place Hotel construction had to be phased to minimize the disruption of public circulation and exiting throughout the building. Plus, the desire to keep a significant number of guestrooms occupiable, either existing or new rooms, required phasing. A plan was executed to renovate one side of the lobby and separate it from the other, but still allow freedom to safely exit. We received life safety approval from the local fire marshal before executing the proposed phasing plans.

This 207-room renovation involved a complete transformation from the original traditional appearance to a contemporary European-inspired design. The entrance lobby was converted into a large open space which boasts a Starbucks, live edge bar, peninsula glass enclosed fireplace and penny mosaic pizza oven. The second floor houses an executive lounge and private exterior patio with gas fire pit. Each guestroom now has updated finishes, fabrics, and fixtures consistent with a contemporary European-inspired experience.

**Owner:** Minsyr-Oxbridge, LLC

**Completed:** Spring 2017

**Size:** 125,000 Square Feet (full renovation)

**Cost:** \$16.3 Million

**Delivery Type:** Negotiated

**Contractor:** Hyphen Construction Group



# WVU Medicine, Children's Hospital

## New Construction, Morgantown, WV



### THE PROJECT

Our expertise in healthcare engineering including central plants and system planning for hospitals allowed CJL to skillfully design the mechanical and electrical systems for this new Children's Hospital owned by and located on the WVU Medicine Ruby Campus.

The \$158 million project consists of a new 9-story building of 300,000 sf. This full-service hospital houses operating rooms, emergency department, cath lab, GI lab, PICU beds, private NICU rooms, acute care, postpartum, compounding pharmacy, full radiology suite, LDRP, clinics, oncology floors – infusion, epilepsy monitoring unit, central sterile processing, offices and building support, common and collaborative spaces; additional classrooms; a multi-purpose room; and a space for enhanced research. The 10<sup>th</sup> Floor will host the Family Resource Center, a unique space for family therapy and gathering.

### CJL DESIGN SOLUTIONS

- CJL collaborated with WVU Medicine and the Architect to plan the mechanical and electrical systems to serve the building efficiently while providing the style and functionality they desired.
- New energy efficient chilled water plant was designed.
- New steam boiler plant to serve hot water, domestic water, and sterilization needs.
- Three 2 Megawatt emergency generators and new electrical service, 23KV.
- Indoor location and size required custom air handling units to be designed, 100,000 and 150,000 CFM.
- Designed a new below grade fuel oil system which required extensive coordination for permitting and construction. - 25,000 gallon tank
- Provided commissioning services.

### CJL Engineering

Pittsburgh | Johnstown | Youngstown | Frederick | Erie | Morgantown  
P: 412.262.1220 | [cjlengineering.com](http://cjlengineering.com)

# Forum Health, Trumbull Memorial Hospital Emergency Generator Central Plant, Warren, OH



## THE PROJECT

CJL Engineering designed the Emergency Generator Central Plant at Trumbull Memorial Hospital in Warren, Ohio. The design consisted of replacing the existing three (3) emergency generators, replacing the existing paralleling switchgear, upgrading the diesel fuel system and generator exhaust systems. The equipment is housed in its own separate building on the Trumbull campus.

## CJL DESIGN SOLUTIONS

- Replaced the existing three (3) emergency generators with three (3) 1 megawatt emergency generators
- Replaced the antiquated emergency generator paralleling switchgear with new parallel switchgear.
- Upgraded the diesel fuel system with a new 15,000 gallon tank
- Replaced the generator exhaust system
- The generator room exhaust system was replaced

## CJL Engineering

Pittsburgh | Johnstown | Youngstown | Frederick | Erie | Morgantown  
P: 412.262.1220 | [cjlengineering.com](http://cjlengineering.com)



# Allegheny Health Network, St. Vincent Hospital

## Cumulative Projects, Erie, PA



### THE PROJECT

The comprehensive Master Plan and Implementation strategy for St. Vincent Hospital was developed by CJL Engineering. The Master Plan includes: renovations to the existing nursing units, a new 120,000 sf. infill building addition which includes the emergency department, pre-admission testing and MRI renovations and upgrades to the existing facility infrastructure.

### CJL DESIGN SOLUTIONS

- Nursing unit upgrades included HVAC, plumbing, fire protection and electrical renovations to eight floors in the North and South Buildings
- Infill building addition is a 120,000 sf. addition to the existing facility. The addition contains the expanded Emergency Department on the ground floor and new normal/emergency switchgear, UPS, chiller and boiler plants in the Lower Level. One floor of the building is shell space for future expansion.
- 2 megawatt emergency generator.
- 15,000 gallon underground fuel tank.
- Pre-Admission Testing/MRI renovations included the relocation of the existing Pre-Admission Testing department to permit a new MRI to be installed at that location.
- Facilities improvements included the upgrades of existing air handling units, chiller and boiler plant upgrade.
- The Hardner building renovations included a new Infusion Center and a CV-PV surgeons' office.

# DGS A970-221, Southwestern Veterans Center

## Installation of Emergency Generator, Pittsburgh, PA



### THE PROJECT

CJL provided electrical design services as the Prime Professionals. The scope of work included the replacement of the existing emergency generator with two (2) 725 Kw natural gas generators to serve the facility. This included paralleling switchgear and service entrance rated transfer switches.

### CJL DESIGN SOLUTIONS

- CJL designed the emergency generator upgrade for the facility to be in compliance with all local codes.
- CJL coordinated the existing electrical service relocation with the utility company.
- CJL attended design meetings as required.
- Coordinated and submitted all required documentation to Building/Fire Departments and other public agencies.
- Attended pre-construction conference with contractors and evaluated bids received and made recommendations for award of contracts.
- Reviewed shop drawings, RFI's and assisted in the review and evaluation of change orders.
- Attended construction meetings during active construction on a bi-weekly basis.

### CJL Engineering

Pittsburgh | Johnstown | Youngstown | Frederick | Erie  
P: 412.262.1220 | [cjlengineering.com](http://cjlengineering.com)

## References

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# Renovation & Upfit Experience

Paradigm Architecture has a solid history of renovation projects (180+), many of which have been for repetitive clients. Our clients can testify to our attention to detail and successful project management on their renovations, most of which have required the existing facilities to remain operational during construction. Our approach to renovations work typically involves an initial assessment of the existing facility, identifying critical needs, operational issues, life safety, potential environmental concerns, and infrastructure requirements. Next we will assist the client in conducting a feasibility study. Our feasibility studies will include cost estimating and phased planning scenarios for construction sequencing.

## **West Virginia University** - Morgantown, WV

Business & Economics Startup Engine Upfit  
WVU School of Dentistry Complete Renovation  
Engineers Sciences Building Innovation Hub  
Shell Building Renovation Study  
Press Box Renovation  
School of Pharmacy Lab Renovation  
Health Sciences Center Museum  
Oglebay Hall Forensics Lab Facilities Renovation  
Aquatics Lab Renovation  
Coaches Locker Room Renovation  
Wrestling Locker Room Renovation  
Milan Puskar Stadium Renovation Construction Admin  
Milan Puskar Stadium Press Box Suites Renovation  
Milan Puskar Stadium Scoreboard Addition  
Milan Puskar Stadium Touchdown Terrace Addition  
Milan Puskar Stadium Concession Stand Addition  
Multiple Coliseum Renovations  
- Team Shop & Phys Ed Department  
- Upper Concourse & HVAC Upgrades  
- Phys Ed Offices  
Marina Tower - 2nd & 4th Floor Upfits  
Administrative Offices Build-Out - Jackson Kelly Building  
Coliseum Visitors' Center Addition  
Mountainlair Student Union Renovations  
Vandalia Hall Stair Addition  
Stewart Hall General Counsel Renovations  
Data Center Relocation Study  
Visitors' Resource Center Renovation  
Creative Arts Center Addition & Renovations  
Creative Arts Center Rehearsal Room  
Creative Arts Center – Construction Administration  
One Waterfront Place Space Planning and Reconfiguration

## **West Virginia University Hospitals** - Morgantown, WV

Outpatient Behavioral Medicine Renovation  
POC Buildings - 2nd, 3rd, & 4th Floor Renovation  
Health Sciences Center Third Floor North Renovation  
Ruby Office Complex Renovation  
Cheat Lake Clinic  
ENT/MRI First Floor Renovation  
Anesthesiology Suite Renovation  
Ramada Inn Renovation  
Health Sciences Center PT-OT Clinic Renovation

## **Russell Medical Center** - Alexander City, AL

Wound Care Center	Master Plan
Parking Expansion	Sleep Lab
Orthopedic Surgery	ER Canopy
Cath Lab Renovations	Satellite Lab
Additions & Alterations	Eye Surgery
Pharmacy Renovations	PET Scanner
Cancer Center Renovation	Dialysis Suite
MRI & Open MRI Addition	Hospice House
Nurse Station Renovations	CT Renovations
Linear Accelerator Addition	Women's Center
Lab Addition and Renovation	Doctors' Parking
Information Technology Suite	Physical Therapy
Multiple Doctors' Offices (13+)	Pre-Admit Testing
Education Department Renovation	X-Ray Renovations
Emergency Department Renovations	Cafeteria Renovation

## **West Virginia University—Parkersburg**

New Science Wing—Lab Classrooms

## **West Virginia University—Potomac State**

Catamount Place Entrance Upgrade Renovations

## **West Virginia University—Beckley**

Barnes & Noble Store @ WVU Beckley Library

## **West Virginia Division of Natural Resources**

Cacapon Resort State Park Lodge Expansion & Park

Improvements - Berkeley Springs, WV

Canaan Valley Resort/Conference Center Renovations - Davis, WV

Blackwater Falls State Park - Davis, WV

## **Fairmont State University** - Fairmont, WV

Data Center Expansion  
Colebank Hall Renovations  
Falcon Conference Center & Classroom Fitup  
Hunt Haught Hall Entrance Stairway Renovations  
Hardway Hall Portico Renovations  
Education Building Renovations  
McAteer Building Feasibility Study  
East-West Stadium Feasibility Study  
Morrow Hall Renovations Feasibility Study  
Parking Garage Facilities Assessment  
Roofing Evaluations on Multiple Facilities  
Hunt Haught Hall Greenhouse Renovations  
Hunt Haught Hall Window Replacement Renovation  
Musick Library Roof Renewal

# Renovation & Upfit Experience

**Lanier Memorial Hospital** - Alexander City, AL  
ICU/Cardiopulmonary/Pharmacy/Classrooms & Offices  
Renovation  
Surgery & OB Renovations  
Emergency Department Renovations  
Replacement CT Project

**American Red Cross** - Nationwide  
West Park Drive Conference Room Fitup, Birmingham, AL  
Blood Services Distribution Center & Chapter Services  
Renovation, Chicago, IL  
Blood Donor Center Renovation - Myrtle Beach, SC;  
Virginia Beach, VA; & Madison, WI  
Regional Blood Donor Center Renovations, San Diego, CA  
Interior Office Renovations to St Vardell Lane Facility,  
Charlotte, NC  
Biomedical Lab Interior Renovations, Rio Pedras Facility,  
San Juan, PR  
Relocation of Testing Support, Charlotte, NC  
Relocation of Chapter Operations & Biomed Blood Donor  
Center, Springfield, MA  
Alt Operations Site, Richmond, VA  
IRL Renovations, Houston, TX

**WV Department of Health and Human Services**  
Window Replacement & Electrical Upgrade, Capitol  
Improvements, Lakin Hospital - Beckley  
Electrical System Upgrade, John Manchin Sr. Health Care  
Facility - Fairmont  
HVAC & Electrical Systems Upgrade, Hopemont Hospital -  
Terra Alta & Welch Community Hospital - Welch  
HVAC Renovations, Mildred Mitchell-Bateman Hospital -  
Huntington & Wm. R. Sharpe Jr. Hospital - Weston  
Mechanical Systems Upgrade, Jackie Withrow Hospital -  
Beckley

**U. S. Postal Service** - WV  
Salem, WV Main Office HVAC Replacement  
Clarksburg, WV Finance Station HVAC Upgrade  
Clarksburg, WV Processing & Distribution Facility - Vehicle  
Maintenance Facility - Reseal Parking  
Spencer, WV Main Office Boiler Replacement  
Weston, WV Main Office Retaining Wall Addition  
Weston, WV Main Office Regrade Parking Lot  
Grafton, WV Main Office Front Steps & Handrails  
Fairmont, WV Main Office Repavement

**Sodexo North America**  
Health Sciences Center Jazzman's at Cavanaugh's  
WVU Engineering Sciences Building Bits & Bytes  
University Place Apartments Market & Starbucks

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

**Davis & Elkins College** - Elkins, WV  
Madden Student Center

**University of Montevallo** - Montevallo, AL  
Peterson House Renovations  
Barnes & Noble Campus bookstore Renovation

**University of Alabama @ Birmingham**  
Bartow Arena Basketball Locker Room Renovations

**Glade Springs Resort** - Daniels, WV  
Hotel and Conference Center Addition/Renovation  
Clubhouse Renovation  
Leisure Center Renovation

**Cellular Sales ( a Verizon Retailer)** - AL/FL  
Over 20 different interior/exterior renovations projects

**Mon Health Medical Center** - Morgantown, WV  
Pharmacy USP Renovation  
Echocardiogram Renovation  
Retail Pharmacy Renovation  
Lab Renovation (Blood Bank/Histology/Chemistry)  
Cardiology Office Renovation  
Microlab Renovation  
Family Birthing Center Renovation  
North Tower West AHU Renovation  
IT Office Renovation  
Kitchen & Loading Dock Renovation  
MRI Renovation  
Acuity Healthcare @ Mon Health Medical Center

National Oceanic and Atmospheric Administration Cyber Security  
Operations Center Expansion - Fairmont, WV  
Hampton Center Renovations - Morgantown, WV  
Benjamin Russell High School Addition/Renovations - Alexander  
City, AL  
MVB Insurance Upfit - Marina Tower - Morgantown, WV  
Domino's South Park - Morgantown, WV  
Frank Anthony's Pizza @ Beech View Place - Morgantown, WV  
Coyote Logistics Upfit - Birmingham, AL  
Morgantown Marriott at Waterfront Place Renovations - WV  
Marina Tower Upfit Suite 503 - Morgantown, WV  
GSA Tenant Renovations, Clarksburg, WV  
BTS Technologies Office Renovation - Homewood, AL  
Friendly Nail Salon Upfit - Morgantown, WV  
Smoothie King Upfit - Morgantown, WV  
AT&T Direct Antennae Services, Music City Center, Nashville, TN  
Charleston Federal Center Renovations - Charleston, WV\*

**Courtyard Marriott**  
Courtyard Blackstone Renovation, Ft. Worth TX  
Courtyard Clackamas Renovation, Clackamas, OR  
Courtyard Tucson Interior Renovation, Tucson, AZ

## Higher Education Experience



### **West Virginia University**

General Open End Contract

Satellite Campus Open End Contract

Athletic Department Open End Contract

Student Housing Initiative

School of Dentistry Renovation

Business and Education School Start Up

Accelerator Space @ University Place Garage

Engineering Sciences Building - Innovation Hub

Puskar Stadium Renovations

Puskar Stadium Scoreboard Addition

Coaches' Locker Room Renovation

Stadium Press Box Suites Renovation

Athletic Press Box Suites Renovation

Wrestling Locker Room Renovation

Health Sciences Center Museum

School of Pharmacy Lab Renovation

Health Science Center - Third Floor - North Wing Renovation

College Park Housing Community

University Park Housing Community

Ag Sciences Greenhouse & Labs

Vandalia Hall Stair Addition

Connector Building & Site Plan Study

Visitors' Resource Center Renovation

Oglebay Hall Forensics Facilities Renovations

Evansdale Campus Animation

Honor's Hall Residence Hall

Mountaineer Station Intermodal Garage

Mountaineer Station Expansion

Marina Tower—2nd & 4th Floor Upfits

Administrative Offices Build-Out, Jackson Kelly Building

Aquatics Lab Renovation

Mountainlair Student Union Renovation

Milan Puskar Stadium Touchdown Terrace Addition

Milan Puskar Stadium Concession Stand Addition

Coliseum Visitors Center Addition

Coliseum Renovations/Additions—Team Shop & Phys Ed Dept.

Coliseum Renovations—Upper Concourse & HVAC Upgrades

Coliseum Renovations—Phys Ed Offices & Floor Concession

Jackson Kelly Building—3rd Floor Upfit

Stewart Hall General Counsel Renovations

Stewart Hall Presidential Suite Renovations Study

Data Center Relocation Study

Creative Arts Center – Construction Administration

Creative Arts Center Rehearsal Room Renovation

College of Creative Arts Additions/Renovations

Alumni Center Screen Wall



## Higher Education Experience



One Waterfront Place Space Planning and Reconfiguration  
Health Sciences Center Physical Therapy-Occupational Therapy Clinic

### **West Virginia University—Beckley**

Barnes & Noble Store Renovation @ WVU Beckley Library

### **West Virginia University—Parkersburg**

New Science Wing—Lab Classrooms

### **West Virginia University—Potomac State**

Catamount Place Renovations

### **Fairmont State University**

Parking Facility

Data Center Expansion

Colebank Hall Renovations

Falcon Conference Center & Classroom Fitup

Hunt Haught Hall Entrance Stairway Renovations

Hardway Hall Portico Renovations

Education Building Renovations

McAteer Building Feasibility Study

East-West Stadium Feasibility Study

Morrow Hall Renovations Feasibility Study

Parking Garage Facilities Assessment

Roofing Evaluations on Multiple Facilities

Hunt Haught Hall Greenhouse Renovations

Hunt Haught Hall Window Replacement Renovation

Musick Library Roof Renewal

### **West Virginia School of Osteopathic Medicine**

Campus Master Plan

### **Davis & Elkins College**

Madden Student Center

The McDonnell Center for Health, Physical Education, and Athletics

### **University of Montevallo**

Peterson House Feasibility Study

Peterson House Renovations

Lovelady Building Feasibility Study

Jeter Hall Feasibility Study

Barnes & Noble Campus Bookstore Renovation

### **University of Alabama @ Birmingham**

Bartow Arena Basketball Locker Room Renovations

AT&T Services Direct Antenna Services - Telecommunications Room

**University of Louisiana @ Lafayette Cajun Dome DAS**

**Louisiana State University @ Tiger Stadium**

**Mississippi State University @ Davis Wade Football Stadium**

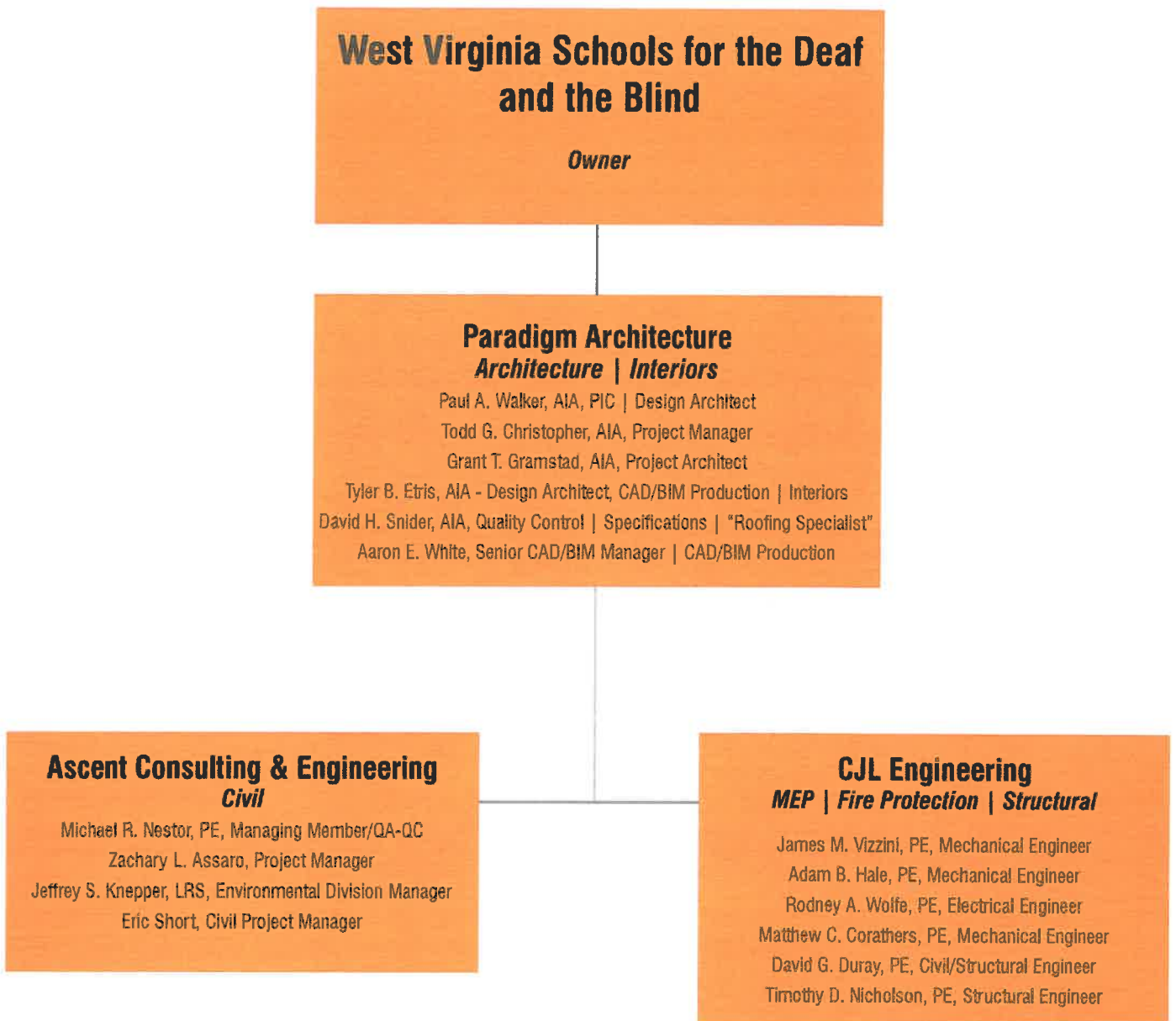


Architectural & Engineering Team



Tab 3

## Team Organization Chart





# Paul A. Walker, AIA

## Principal-in-Charge | Design Architect

Paul has 38 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. Paul'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: medical, commercial, corporate, educational, governmental, industrial, institutional, recreational, religious, and residential. The scope of projects ranges from a few thousand dollars to over 73 million dollars. Paul also has extensive experience with commercial and corporate facilities as well as higher education facilities while working at other firms in WV, NC, and AL.

### Experience

Shepherd University East Campus Loop Buildings Renovations  
Shepherdstown, West Virginia

West Virginia University Greenhouse & Labs  
Morgantown, West Virginia

West Virginia University - Parkersburg  
New Science Wing Fit-Up & Lab  
Parkersburg, West Virginia

Canaan Valley Resort State Park Renovations & Additions  
Morgantown, West Virginia

Fairmont State University Colebank Hall Renovations  
Fairmont, West Virginia

West Virginia University Mountaineer Station  
Morgantown, West Virginia

West Virginia University Honors Hall Student Housing  
Morgantown, West Virginia

Fairmont State University Hardway Hall Portico Renovations  
Fairmont, West Virginia

West Virginia University College Park Student Housing  
Morgantown, West Virginia

One Waterfront Place Office Building  
Morgantown, West Virginia

Two Waterfront Place Hotel & Conference Center | Mixed-Use  
Morgantown, West Virginia

U Club Sunnyside Student Housing  
Morgantown, West Virginia

University Park Student Housing & Mixed-Use  
Morgantown, West Virginia

Mountaineer Center & Education Complex - Aquatic/Track Facility  
Morgantown, West Virginia

#### Education

Bachelor of Architecture  
University of Tennessee  
Knoxville, 1982

#### Affiliations

American Institute of Architects  
NCARB [REDACTED]

#### Registrations

West Virginia [REDACTED]  
Alabama [REDACTED]  
Arizona [REDACTED]  
Florida [REDACTED]  
Georgia [REDACTED]  
Maryland [REDACTED]  
North Carolina [REDACTED]  
Oregon [REDACTED]  
Pennsylvania [REDACTED]  
South Carolina [REDACTED]  
Tennessee [REDACTED]  
Texas [REDACTED]  
Virginia # [REDACTED]



## Todd G. Christopher, AIA

### Project Manager

Todd's responsibilities have included development of construction documents and drawings, project management, marketing presentations, bidding procedures, and construction administration. He has a combined 18 years of experience in commercial, corporate, hospitality, educational, performing arts, healthcare, continuing care retirement communities, laboratories, industrial, institutional, sports facilities, and multi-family residential. and joined Paradigm Architecture in 2009.

### Experience

Canaan Valley Resort State Park Renovations & Additions  
Morgantown, West Virginia

West Virginia University Greenhouse & Labs  
Morgantown, West Virginia

West Virginia University College Park Student Housing  
Morgantown, West Virginia

U Club Sunnyside Student Housing  
Morgantown, West Virginia

University Park Student Housing & Mixed-Use  
Morgantown, West Virginia

United States Department of Agriculture Office Building  
Morgantown, West Virginia

University of South Carolina Discovery I Biomedical Research Facility\*  
Columbia, South Carolina

University of NC at Pembroke Sampson Classroom Building\*  
Pembroke, North Carolina

UNC at Charlotte Robinson Hall Performing Arts Building\*  
Charlotte, North Carolina

Pillar Innovations Office Building & Manufacturing Facility  
Morgantown, West Virginia

Beitzel Corporation Office Building  
Grantsville, Maryland

Mountaineer Center & Education Complex - Aquatic/Track Facility  
Morgantown, West Virginia

Mountaineer Station Parking Garage - WVUH Addition  
Morgantown, West Virginia

West Virginia University Coliseum Visitor's Center  
Morgantown, West Virginia

#### Education

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

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

#### Affiliations

American Institute of Architects  
NCARB [REDACTED]

#### Registrations

West Virginia [REDACTED]  
North Carolina [REDACTED]

\*Project experience prior to joining Paradigm



## Grant T. Gramstad, AIA

### Project Architect

Mr. Gramstad has 24 years of experience in the design industry as an architect. He is one of the founding members of Paradigm Architecture and is the Architect of Record for all of the firm's Alabama projects. Located in the Birmingham office, his experience includes multiple higher education clients, including West Virginia University, Fairmont State University, University of Alabama at Birmingham, and the West Virginia School of Osteopathic Medicine. Grant has recently completed projects for the Morgantown Marriott at Waterfront Place and an undisclosed design-build office building project in Pennsylvania. His roles have included project management, design, and supervision of small to large scale architectural projects. Project experience includes commercial, corporate, educational, governmental, healthcare, industrial, institutional, recreational, and residential.

### Experience

Canaan Valley Resort State Park Renovations & Additions  
Morgantown, West Virginia

West Virginia University Greenhouse & Labs  
Morgantown, West Virginia

West Virginia University Visitor's Resource Center  
Morgantown, West Virginia

West Virginia University Mountaineer Station  
Morgantown, West Virginia

West Virginia University College Park Student Housing  
Morgantown, West Virginia

Morgantown Event Center & Parking Garage  
Morgantown, West Virginia

University Park Student Housing & Mixed-Use  
Morgantown, West Virginia

Russell Medical Professional Office Building #3  
Alexander City, Alabama

United States Department of Energy Records Storage Facility  
Morgantown, West Virginia

West Virginia University Honors Hall Student Housing  
Morgantown, West Virginia

"Undisclosed Office Buildings (2)" Project  
Pennsylvania

Mountaineer Center & Education Complex - Aquatic/Track Facility  
Morgantown, West Virginia

#### Education

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

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

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

#### Affiliations

*American Institute of Architects*

#### Registrations

*Alabama* [REDACTED]



## Tyler B. Etris, AIA

### Design Architect | CAD/BIM Production | Interiors

Tyler's responsibilities have included development of schematic design, design development, interior design and construction drawings. Since joining Paradigm in 2007, Tyler has aided in the design of projects, when combined, add up to be over \$200 million. He also provides marketing support for proposals and presentations. Project types have included healthcare, commercial, corporate, educational, hospitality, institutional, multi-family housing and retail.

### Experience

Canaan Valley Resort State Park Renovations & Additions  
Morgantown, West Virginia

University Park Student Housing & Mixed-Use  
Morgantown, West Virginia

West Virginia University Honors Hall Student Housing  
Morgantown, West Virginia

Morgantown Event Center & Parking Garage  
Morgantown, West Virginia

West Virginia University Greenhouse & Labs  
Morgantown, West Virginia

West Virginia University College Park Student Housing  
Morgantown, West Virginia

West Virginia University Mountaineer Station  
Morgantown, West Virginia

U Club Sunnyside Student Housing  
Morgantown, West Virginia

West Virginia University College Park Student Housing  
Morgantown, West Virginia

Mountaineer Center & Education Complex - Aquatic/Track Facility  
Morgantown, West Virginia

Mountaineer Station Parking Garage - WVUH Addition  
Morgantown, West Virginia

West Virginia University Coliseum Visitor's Center  
Morgantown, West Virginia

Cacapon Resort State Park Lodge Expansion  
Berkeley Springs, West Virginia

WVU HSC PT-OT Build Out  
Morgantown, West Virginia

### Education

Bachelor of Architecture  
College of Architecture  
NAAB Accredited Program  
University of Tennessee  
Knoxville, 2011

Krakov Polytechnic University  
Krakow, Poland  
Spring, 2010

### Affiliations

American Institute of Architects  
First United Advisory Group

### Registrations

West Virginia [REDACTED]



## David H. Snider, AIA

### Quality Control | Specifications | “Roofing Specialist”

Mr. Snider graduated from Auburn University with a degree in architecture and practiced in North Carolina before returning to his hometown of Birmingham, Alabama. As one of the founding members he has spent the last 17 years of his 36-year career with Paradigm Architecture. His responsibilities with Paradigm Architecture have included project management, construction documents, contract administration, and writing specifications. Project experience includes hospitality, educational, healthcare, churches, libraries, schools, historic office buildings, airports, and commercial facilities. David has extensive experience with healthcare facilities throughout the duration of his entire career and currently manages open-end contracts with Russell Medical and Lanier Memorial Hospital. These project types include cancer centers, medical office buildings, physical therapy, assisted living facilities, and major hospital renovations.

### Experience

Canaan Valley Resort State Park Renovations & Additions  
Morgantown, West Virginia

Fairmont State University Colebank Hall Renovations  
Fairmont, West Virginia

West Virginia University Greenhouse & Labs  
Morgantown, West Virginia

West Virginia University Mountaineer Station  
Morgantown, West Virginia

West Virginia University Honors Hall Student Housing  
Morgantown, West Virginia

Morgantown Event Center & Parking Garage  
Morgantown, West Virginia

One Waterfront Place Office Building  
Morgantown, West Virginia

Trussville City Hall Office Renovations & Reroofing  
Trussville, Alabama

U Club Sunnyside Student Housing  
Morgantown, West Virginia

University Park Student Housing & Mixed-Use  
Morgantown, West Virginia

Davis & Elkins College Athletic Center  
Elkins, West Virginia

Russell Medical Center Additions & Alterations  
Alexander City, Alabama

Benjamin Russell High School Gymnasium Renovations/Reroofing  
Alexander City, Alabama

#### Education

*Bachelor of Architecture  
Auburn University  
Alabama, 1984*

*Roofing Technology  
The Roofing Industry  
Educational Institute, 1995*

#### Affiliations

*American Institute of Architects*





## Aaron E. White

### Senior CAD/BIM Manager | CAD/BIM Production

Mr. White's responsibilities have included development of construction drawings and documents and project management tasks. He has a combined 18 years of experience in commercial architecture and has been with Paradigm Architecture for 9 years. Project types have included renovations, healthcare, commercial, corporate, educational, hospitality, institutional, residential, and retail.

### Experience

Canaan Valley Resort State Park Renovations & Additions  
Morgantown, West Virginia

West Virginia University Greenhouse & Labs  
Morgantown, West Virginia

West Virginia University Mountaineer Station  
Morgantown, West Virginia

West Virginia University Honors Hall Student Housing  
Morgantown, West Virginia

Pillar Innovations Office Building & Manufacturing Facility  
Morgantown, West Virginia

Morgantown Event Center & Parking Garage  
Morgantown, West Virginia

West Virginia University College Park Student Housing  
Morgantown, West Virginia

U Club Sunnyside Student Housing  
Morgantown, West Virginia

University Park Student Housing & Mixed-Use  
Morgantown, West Virginia

Beitzel Corporation Office Building  
Grantsville, Maryland

Mountaineer Center & Education Complex - Aquatic/Track Facility  
Morgantown, West Virginia

WVU Creative Arts Center Addition/Renovation  
(Assisting HMBA)  
Morgantown, West Virginia

Cacapon Resort State Park Lodge Expansion  
Berkeley Springs, West Virginia

University of Connecticut Hotel & Office Space  
Storrs, Connecticut

### Education

Computer-Aided  
Drafting/Design  
Morris County Vocational  
Technical School  
Denville, New Jersey, 1990

# MICHAEL NESTOR, PE

## SUMMARY

Mr. Nestor is a Civil Engineer registered professionally in WV and serves as the Managing Member of Ascent Consulting and Engineering, LLC. He has over 16 years of consulting experience focusing on land development projects and stormwater management in WV, MD, and PA. His expertise allows him to guide projects from concept to completion by understanding the goals/vision of the project, effectively communicating with the project team, and paying careful attention to the details. Mr. Nestor will be responsible for leading and client communication on this project.

## EXPERIENCE

### **ASCENT CONSULTING AND ENGINEERING, (CLARKSBURG, WV)**

Mr. Nestor is the founding/managing member of Ascent. He is responsible for the day to day operations of the firm and Quality Assurance/Control. In addition, Mike serves as the Engineering Division Manager, working with Engineers, CAD Techs, etc. to ensure projects include practical and efficient designs, and are delivered in a timely manner.

### **THE THRASHER GROUP, (BRIDGEPORT, WV)**

Throughout Mr. Nestor's employment with The Thrasher Group, he served in a variety of roles ranging from Staff Engineer up to Site Group Division Manager. This allowed him to work on teams for a wide variety of projects and in a range of capacities.

### **BUSINESS AND INDUSTRIAL PARKS**

Designed and permitted the sites for multiple commercial and industrial properties ranging from major development projects such as the White Oaks Business Park and West Ridge Development to individual development sites for commercial and retail uses.

### **ROADS/SIDEWALKS**

Designed and managed various roadway projects ranging from new road builds to maintenance and improvement projects.

### **STORMWATER MANAGEMENT**

Designed numerous stormwater management facilities and developed stormwater management programs for compliance to the State of WV's MS4 Program in several communities.



## REGISTRATIONS

Professional Engineer:

- West Virginia
- Virginia,
- Ohio
- Pennsylvania
- Maryland

## ASSOCIATIONS

- American Society of Civil Engineers.
- American Society of Highway Engineers (Past President of NCWV Region).

## EDUCATION

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

## YEARS EXPERIENCE

- 16 years
- 2 ½ years at ACE

Email:  
mike@ascentconsultingengineers.com



## **EDUCATION**

Fairmont State College, Fairmont,  
WV

Bachelor of Science in Engineering  
Technology

## **YEARS EXPERIENCE**

- 10 years
- 2 ½ years at ACE

Email:  
zach@ascentconsultingengineers.com

# **ZACH ASSARO, PROJECT MANAGER**

## **SUMMARY**

Mr. Assaro is an Engineering Consultant/Manager and Member of Ascent Consulting and Engineering, LLC. He has 10 years of consulting experience focusing on land development projects and stormwater management in WV and PA. His expertise allows him to guide projects from concept to completion by understanding the goals/vision of the project, effectively communicating with the project team, and paying careful attention to the details. Mr. Assaro will be responsible for managing support staff and project details throughout this project.

## **EXPERIENCE**

### **ASCENT CONSULTING AND ENGINEERING (CLARKSBURG, WV)**

#### **JENKINS SUBARU – ADDITION**

Site plan development for the addition of a 10,000 sf office space in the parking lot of an existing dealership. The project consisted of layout to allow for circulation within the existing dealership, parking, utility connections, stormwater conveyance, and re-grading of the existing gravel parking lot.

#### **THE VALE**

Layout and engineering design for an upscale housing development in Bridgeport, WV. The community utilizes low impact development practices to provide 22 lots ranging in size from 1 to 7 acres. The project required substantial utility extensions and creativity in stormwater management controls as well as major roadway extensions throughout challenging terrain.

#### **THE THRASHER GROUP (BRIDGEPORT, WV)**

Throughout Mr. Assaro's employment with The Thrasher Group, he served in a variety of roles ranging from Staff Engineer up to Project Manager. Zach's primary role was value engineering. He worked closely with developers and contractors to develop efficient projects that were successful for ownership, designers, and contractors.

#### **BUSINESS AND COMMERCIAL/RETAIL**

Designed and permitted sites for multiple commercial properties including Hawthorn Suites, TGI Friday's, Generic Retail Centers, Shop N' Save, Dollar General, Kia, Audi, Subaru, and Ford Dealerships. Also served on Project Team as lead engineer for the Boy Scouts of America Welcome Center located on US Rt. 19 and various road improvement projects.

#### **INDUSTRIAL PARK**

Designed and managed America's Best Block factory. Throughout this experience, he handled foreign affairs and coordinated design among architects, engineers, planners, and ownership.

#### **STORMWATER MANAGEMENT**

Designed and managed multiple stormwater upgrades for municipalities such as the City of Bridgeport and Fayetteville, WV



# JEFFREY KNEPPER, CPG, LRS

## SUMMARY

Mr. Knepper has 20 years of experience working on complex environmental and regulatory projects specializing in environmental/regulatory compliance, remediation, permitting, and aboveground storage Tank (AST) services. Mr. Knepper is adept at developing practical and innovative solutions to challenging environmental issues often faced by oil and gas and other industrial clients. His track record in regulatory compliance, permitting, soil and groundwater remediation, and environmental impacts make him a key team member on projects. Mr. Knepper is a certified professional geologist and a WV licensed remediation specialist. Mr. Knepper is an experienced AST inspector with over 1,000 completed inspections in various states including: WV, PA, OH, KY, WI, MI, VA and NY.

## EXPERIENCE

### **ENVIRONMENTAL INVESTIGATIONS**

*CPFilms, Industrial Facility, Fieldale, VA* – Mr. Knepper performed nature and extent and site characterization studies for volatile organic compounds. He developed corrective action plans, installed groundwater monitoring wells and performed statistical analyses on results.

*Federal Mogul, Industrial Facility, Winchester, VA* – Mr. Knepper performed groundwater sampling and statistical analyses on results to determine the cause of upgradient groundwater contamination. Mr. Knepper received a commendation from the Virginia Department of Environmental Quality for exemplary sampling methods and techniques.

*U.S. Silica, Berkeley Springs, WV* – Mr. Knepper led the field operations team at an emergency spill cleanup for chemicals which included: sulfuric acid, caustic soda and petroleum sulfonate from aboveground storage tanks. Mr. Knepper's full knowledge of the WVDEP regulations for tanks and site cleanup proved invaluable in minimizing potential contamination and receiving high praise from the WVDEP.

### **ENVIRONMENTAL REGULATORY AND COMPLIANCE**

*Dominion Energy Transmission, Bridgeport, WV* – Mr. Knepper developed a permitting guide to monitor permit conditions, permit expirations and regulatory deadlines. This guide encompassed all of Dominion's permits. It helped to mainstream and organize permits regardless of personnel responsibilities and turnover.

*American Electric Power, Mountaineer Plant, New Haven, WV* - Mr. Knepper developed the first Carbon Capture and Sequestration (CCS) permit in WV and the United States. The permit was issued prior to the Environmental Protection Agency releasing the regulations for the newly established class VI rules which now govern CCS.

## **REGISTRATIONS**

- Certified Professional Geologist – Virginia
- Licensed Remediation Specialist – West Virginia
- Certified Aboveground Storage Tank Inspector – STI-SP001
- Certified Aboveground Storage Tank Inspector – Pennsylvania

## **EDUCATION**

West Virginia University,  
Morgantown, WV – Bachelor  
of Science in Geology – 1998

## **ASSOCIATIONS**

- American Institute of Professional Geologist
- West Virginia
- Manufacturers Association
- IOGA of West Virginia
- PIOGA – PA

## **YEARS EXPERIENCE**

- 20+ years
- 1 ½ years at ACE

Email:

[jeffk@ascentconsultingenineers.com](mailto:jeffk@ascentconsultingenineers.com)

## **UNDERGROUND INJECTION CONTROL**

Mr. Knepper has over 10 years of experience working with underground injection control projects. He was the state-wide Environmental Resources Program Manager for WV handling all permitting and compliance approvals for mining facilities working closely with various mining companies including: Wolf Run Mining, Greenbrier Minerals, Independence Coal, Brooks Run Mining, Mid-Vol Coal Sales, Pinnacle Mining, ICG-Beckley, LLC and many more. Mr. Knepper has also provided this knowledge to the consulting realm as an alternative to existing permits or lack of efficiency in current treatment options.

*Vesuvius, Globe Mine, Newell, WV* – Mr. Knepper led a team to renew a NPDES permit at an old clay mine. The facility had been violation for many years because of the high concentration of iron. Mr. Knepper was instrumental in renewing the NPDES permit and providing an alternative to help bring the facility back into compliance with the WVDEP.

## **HYDROGEOLOGY**

*Georgia Pacific, Industrial Facility – Martinsville, VA* - Mr. Knepper performed groundwater sampling and statistical analyses on volatile organic compounds, metals and semi-volatile organic compounds from groundwater samples.

*Scott County, Gate City, VA* – Mr. Knepper performed site characterization studies on volatile organic compounds contaminating multiple sites. Mr. Knepper prepared corrective action plans and nature and extent studies. He also performed groundwater statistics that were used by the VDEQ as a model for how to perform the various investigations and studies.

*Patrick County, Stuart, VA* – Mr. Knepper helped design and manage a gas extraction system for the County. He also was instrumental in the approval of a corrective action plan from the VDEQ for vinyl chloride contamination. Mr. Knepper developed alternatives the State of Virginia now uses to evaluate nature and extent studies and site characterization reports.

# ERIC SHORT, PROJECT MANAGER



## EDUCATION

B.S., Civil Engineering Technology,  
2003 – Fairmont State University

A.S., Architectural Engineering  
Technology, 2003 – Fairmont State  
University

## CERTIFICATIONS

American Society of Civil  
Engineers  
American Society of Highway  
Engineers

## YEARS EXPERIENCE

- 16 years
- 2 ½ years at ACE

Email:  
eric@ascentconsultingengineers.com

## SUMMARY

Eric Short is a Senior Civil Project Manager/Engineer. In his 16 years of consulting, he has worked on a variety of projects which include all types of development, transportation designs, stormwater management designs, site grading, and oil/natural gas facilities. His tasks involve the design and development of Demolition, Erosion and Sediment Control, Site, Grading, and Utility Plans along with creating details for site specific elements. Mr. Short is also an experienced highway designer with a background in the preparation of roadway construction, right-of-way, sign, and pavement marking plans. Other responsibilities include traffic studies, storm water and sanitary sewer design, and cost estimation.

Eric Short's expertise lies in taking detailed designs and translating them into easy to understand and executable documents. His ability to communicate effectively with contractors and stakeholders while using a commonsense design and approach to construction makes him a very effective Engineer and Manager.

## EXPERIENCE

**City of Ripley, Main Street Revitalization:** This project was one of kind for us in that we took all of the existing overhead utility lines along Main Street and putting them underground in conduit. The project involved direct coordination with the utility companies to ensure they had the necessary number, size, and location of conduit. Beyond the utilities, the Main Street was designed with new sidewalks that incorporated brick pavers, hand railing, decorative street lights, and handicap ramps.

•**City of Grafton, Main Street Revitalization:** The project consisted of designing sidewalks that incorporated decorative street lights, benches, handicap ramps, and landscape islands.

•**Raleigh County Memorial Airport & Industrial Park:** Design of a 1,100 linear footroad extension, Drainage and Erosion and Sediment Control Plan.

•**Cambridge Place Business Park:** Complete Site Design Package, multiple tenant building and parking layout, utility extensions, and storm water system in accordance with the City of Bridgeport regulations.

•**Genesis Youth Crisis Center:** Complete Site Design Package, including approximately 35,000 cubic yards of earthwork, building and parking layout, utility extensions, and storm water management facilities.



James M. Vizzini, P.E.  
LEED® Accredited Professional  
Partner | Mechanical Engineer

#### Contact Information

☎ 814.536.1651, ext. 112

✉ [jvizzini@cjlengineering.com](mailto:jvizzini@cjlengineering.com)

## PROFESSIONAL SUMMARY

Jim Vizzini is a Partner of CJL Engineering. He has been with CJL since 1992. Jim is responsible for management decisions, overseeing current projects, and maintaining relationships with architect and clients. Jim maintains a close connection to all facets of his projects. His responsibilities include on-site surveys, systems comparisons, scope determination, plan and specifications review as well as construction inspection. Jim has supervised HVAC system facility evaluations and design for over 300 schools (K-12), many colleges, universities, health care facilities, commercial and institutional projects.

These projects have ranged from large equipment replacement such as chillers, cooling towers, boilers and air handling units, entire HVAC systems design to district heating and cooling plants. Jim has been responsible for over \$3.5 billion of mechanical and electrical construction projects.

## REPRESENTATIVE PROJECTS

Erie Public Schools, Erie, PA

- Erie High School Renovations and Domestic Hot Water Heater Replacement
- Northwest PA Collegiate Academy Reno.
- Ventilation System Assessment/Upgrade
- Woodrow Wilson Middle School Reno.
- Jefferson Elementary School Electrical Switchgear Installation

Fox Chapel Area School District, Pittsburgh, PA

- New Kerr Elementary School
- High School Expansion

Mt. Lebanon School District, 9 Schools, Air Condition Design, Pittsburgh, PA

- Mars Area School District, Mars, PA
- High School Gym A/C and Auditorium Add.
- Centennial School Renovations
- Middle School Renovations

A.W. Beattie Career Center, LEED® Gold, Renovations, Allison Park, PA

Fort Cherry School District, New District Boiler System and Water System, McDonald, PA

Belle Vernon Area School District, Renovations / Additions, Belle Vernon, PA

Ringgold Area School District, Upgrades and District Feasibility Study, New Eagle, PA

Brentwood Borough School District, Middle/High School Renovations, Pittsburgh, PA

Canon-McMillan School District, Canonsburg, PA

- Middle School MEP Design
- New Muse Elementary School

Fairview School District, High School Addition and Alterations, Fairview, PA

Chartiers-Houston Area School District, Houston, PA

- Jr./Sr. High School Boiler Upgrade
- Allison Park Elementary School Boiler Replacement

Ambridge School District, Jr. High HVAC Energy Performance Contract, Ambridge, PA

Bradford Area School District, High School Gym AHU Replacement, Bradford, PA

Moniteau School District, Sunbury, PA

- Moniteau Jr. Senior High School Alterations
- Dassa McKinney Elem. School Alterations

Baldwin-Whitehall School District, Pittsburgh, PA

- McAnnulty Elem. School Improvements
- Whitehall Elem. School Improvements
- J.E. Harrison Middle School Improvements
- Baldwin High School Improvements

Upper St. Clair School District, Fort Couch Middle School, LEED® Silver, Pittsburgh, PA

Fox Chapel School District, Renovations and HVAC Upgrades, Pittsburgh, PA

Blairsville-Saltsburg School District, High School A/C, Blairsville, PA

## EDUCATION

1987 - Bachelor of Science  
Mechanical Engineering Technology  
University of Pittsburgh at Johnstown

## SPECIALIZATIONS

Mechanical Engineering  
Schools (K-12)  
Colleges and Universities  
Master Planning  
District Cooling Plants  
Indoor Air Quality

## REGISTERED PROFESSIONAL ENGINEER

Pennsylvania, Alabama, Delaware  
District of Columbia, Maryland  
Massachusetts, Nebraska, New Jersey  
North Carolina, Virginia, West Virginia

## MEMBERSHIPS/ACTIVITIES

### ASHRAE

Construction Specifying Engineer October, 2006 Featured in: "Full of Hot Air?" The Chevron Science Center Renovation, University of Pittsburgh

### Presenter

International Association of Museum Facility Administrators Annual Conference (Carnegie Museum of Natural History, Chilled water plant Upgrade) Pittsburgh, PA - 2019

Energy and Education Conference (Geothermal Design) St. Francis University, Loretto, PA - 2009

Johnson Controls Leadership Conference, Potomac, MD (Consulting Engineers Business Strategies & Vendor Teaming) - 2012

KAPPA Conference, Bedford, PA - 2013

KAPPA Conference, Altoona, PA - 2017



Adam B. Hale, P.E.  
Associate Principal | Mechanical Engineer

Contact Information

☎ 814.536.1651, ext. 139

✉ [ahale@cjlengineering.com](mailto:ahale@cjlengineering.com)

### PROFESSIONAL SUMMARY

Adam Hale is a Mechanical Engineer at CJL Engineering. He joined the firm in 2008 as an intern and became a full-time employee in 2010.

Adam is responsible for the design and specification of HVAC and other mechanical systems for educational, healthcare, commercial, and corporate clients. He surveys existing facilities and systems to confirm and evaluate their condition. He conducts engineering studies, establishes design criteria, and estimates project costs. He is also responsible for communicating project needs and requirements between owner, architect, engineer and client.

### REPRESENTATIVE PROJECTS

Homer-Center School District, Jr/Sr High School HVAC Upgrades, Homer City, PA  
Kane Area School District, Middle School Addition, Kane, PA  
East Allegheny School District, Jr/Sr High School Boiler Upgrade, North Versailles, PA  
Ellwood City Area School District, Lincoln High School Renovations, Ellwood City, PA  
Derry Area School District, Grandview Elementary School Renovation, Derry, PA  
Huntingdon Area School District, Middle School Upgrades, Huntingdon, PA  
Chartiers-Houston School District, Jr/Sr High School Addition, McGovern, PA  
Dubois Area School District, Juniata Elementary School, Dubois, PA  
Wilmington Area School District, Addition and Alterations, New Wilmington, PA  
Mars Area School District, Centennial School, Mars, PA  
Carmichaels Area School District, Jr/Sr High School Renovations, Carmichaels, PA  
Franklin Area School District, Central Elementary School, Franklin, PA  
St. Marys Area School District, Middle School HVAC Upgrades, St. Marys, PA  
Mount Pleasant Area School District, Ramsay Elementary School Renovation, Mt. Pleasant, PA

University of Pittsburgh, Salk Hall Renovation, Pittsburgh, PA  
West Virginia University, Morgantown, WV  
• Puskar Center Performance Dining Facility  
• New Business and Economics Building  
St. Francis University, Loretto, PA  
• New Science Center and Vivarium  
• Degol Fieldhouse Renovation  
The Pennsylvania State University, Behrend – Knowledge Park, Advanced Manufacturing and Innovation Center, Erie, PA  
UPMC, Multiple Locations  
• UPMC East LEED® Silver, New Medical Center, Monroeville, PA  
• UPMC Hamot, Regional Center for Mother and Baby Health, Erie, PA  
• UPMC Hamot, New Patient Care Tower, Erie, PA (In-Design)  
• UPMC Passavant Pavilion, LEED® Silver, Expansion Pittsburgh  
• UPMC Presbyterian, Deconstruction & Redesign, Pittsburgh, PA  
WVU Medicine, Children's Hospital, Morgantown WV  
WVU Medicine, Central Sterile Renovation, Morgantown, WV  
Duke LifePoint, Conemaugh Health Systems, Johnstown, PA  
Meadville Medical Center, Vernon Place – Medical Office Building, Meadville, PA

### EDUCATION

University of Pittsburgh at Johnstown, Johnstown, PA  
Bachelor of Science  
Mechanical Engineering Technology  
2010

### SPECIALIZATIONS

Mechanical Engineering  
HVAC Design  
Facility Analysis  
Master Planning  
On-site Troubleshooting

### REGISTERED PROFESSIONAL ENGINEER

Pennsylvania, West Virginia

### MEMBERSHIPS / CERTIFICATES

ASHRAE  
ASHRAE HFDP (Healthcare Facility Design Professional)  
ASHE





Rodney A. Wolfe, P.E.  
Principal | Electrical Engineer

Contact Information

☎ 412.262.1220, ext. 115

✉ [rwolfe@cjlengineering.com](mailto:rwolfe@cjlengineering.com)

### PROFESSIONAL SUMMARY

Rodney Wolfe is an Electrical Engineer and Principal of CJL Engineering. He started with the firm in 1993 and he is responsible for overseeing the electrical drafting, design and specifications of projects to assure compliance with local, state and federal codes, regulations and standards, establish company electrical design criteria, and schedule electrical department personnel to complete project assignments. Rodney is involved in the design and specification of low and medium voltage distribution systems, lighting systems, emergency power systems, local area networks, sound and communications systems and site utilities. His noteworthy projects, comprising new construction, expansions and adaptive retrofit include:

### REPRESENTATIVE PROJECTS

Mars Area School District, Mars, PA. Elementary School Classroom Expansion and High School Gym A/C  
South Butler School District, Saxonburg, PA. Knoch Middle and High School  
Armstrong School District, Ford City, PA. West Shamokin High School  
New Brighton Area School District, New Brighton, PA. Elementary and High School  
Rochester Area School District, Rochester, PA. Elementary and High School  
Freeport Area School District, Freeport, PA. Buffalo and South Buffalo Elementary Schools  
Belle Vernon Area School District, Belle Vernon, PA. Multiple School Additions / Alterations and Upgrades  
Crawford County Career & Technical Center, Meadville, PA  
Chartiers Valley School District, Multiple Schools, Pittsburgh, PA. Multiple School Renovations  
City of Erie School District, Erie, PA. Multiple School Renovations, Additions, Upgrades and Alterations  
Riverview School District, Oakmont, PA. High School, 10<sup>th</sup> Street and Verner Elementary School  
Fox Chapel Area School District, Pittsburgh, PA. Multiple School Upgrades and Renovations  
Midland Borough School District, Midland, PA. Lincoln Park Performing Arts Center  
Gateway School District, Monroeville, PA. Multiple School Renovations  
PENNCREST School District, Saegerstown, PA - Multiple School Upgrades and Renovations

Penn Hills School District, Pittsburgh, PA. Multiple School Renovations and Additions  
East Allegheny School District, North Versailles, PA. Logan Middle School  
Jefferson County-DuBois Area Vocational School, Reynoldsville, PA  
Norwin School District, North Huntingdon, PA. Multiple School Renovations  
Iroquois Area School District, Erie, PA. High School  
Hempfield Area School District, Greensburg, PA. Multiple School Upgrades and Renovations  
Wattsburg Area School District, Wattsburg, PA. Elementary Center  
Avella Area School District, Avella, PA. Kitchen Renovations  
Punxsutawney Area School District, Punxsutawney, PA. Middle and High School  
McKeesport Area School District, McKeesport, PA. Multiple School Renovations  
Connellsville School District, Connellsville, PA. Junior High School-East  
Corry Area School District, Corry, PA. Multiple School Upgrades and Renovations  
Frazier School District, Perryopolis, PA. Middle School Renovations  
Central Greene School District, Waynesburg, PA. Margaret Bell Middle  
West Branch Area School District, Morrisdale, PA. Jr/Sr High School  
Greater Johnstown School District, Johnstown, PA. New High School  
Johnsonburg Area School District, Johnsonburg, PA. Elementary and High School  
Claysburg-Kimmel Area School District, Claysburg, PA. Junior/Senior High School  
Salisbury-Elk Lick School District, Salisbury, PA. High School

### EDUCATION

B.S. / 1988 / Electrical Engineering  
University of Pittsburgh

### SPECIALIZATIONS

Electrical Engineering  
Primary Power  
Industrial Power  
Government and Healthcare  
Schools K-12  
Colleges and Universities  
Building Evaluations  
Feasibility Studies

### REGISTERED PROFESSIONAL ENGINEER

West Virginia  
Pennsylvania  
Maryland  
Ohio

### MEMBERSHIPS/ACTIVITIES

Member of the Building Industry Consulting Service International (BICSI).  
Pennsylvania Society of Professional Engineers (PSPE)  
National Society of Professional Engineers (NSPE)



Matthew C. Corathers, P.E.  
Senior Engineer | Mechanical Engineering

Contact Information

☎ 412.509.0523

✉ mcorathers@cjlengineering.com

### PROFESSIONAL SUMMARY

Matthew Corathers is a Senior Mechanical Engineer of CJL Engineering. He started with the firm in 2021 and has over 15 years of progressive experience. Matthew has been involved with the different stages of building design for Medical, Education, and Food Service Facilities. His responsibilities span from existing conditions surveys to 100% submittals, as well as Construction Administration during project construction phases. He has been involved in engineering and design of various types of HVAC system layouts as well as equipment selection and sizing, load calculation, detail compilation, and specification editing for Contract Document set production. Matthew's HVAC System experience consists of Electric, Natural Gas, Steam, Hot Water, Chilled Water, Condenser Water, Direct Expansion (DX), Variable Refrigerant Flow, Heat pipe, and Desiccant Heat Wheel systems.

### REPRESENTATIVE PROJECTS

Mon General Hospital, Radiology Renovation, Morgantown, WV (In-Design)

West Virginia University, New Business and Economics Building, Morgantown, WV (In-Construction)

James Madison University Dining Hall, Harrisonburg, VA\*

Winchester Medical Center, MOB 1 Expansion and three Fit-outs for Cardiac Rehab, Cardiology, and Cardio-Thoracic, Winchester, VA\*

Mon General Hospital, Miscellaneous troubleshooting/advising of systems, Morgantown, WV\*

- OR Airflow corrections
- HCC Steam
- MRI Equipment Humidity
- Facilities Boiler Replacement

Bridgewater College, Forrer Learning Commons Renovation and Addition, Bridgewater, VA\*

United Technical Center, Site Lighting and RTU Replacement, Clarksburg, WV\*

Davis Memorial Hospital Addition, Elkins, WV\*

Martinsburg VA Medical Center, Music Room Renovation, Martinsburg, WV\*

Centra Southside Community Hospital, ICU Renovation, Farmville, VA\*

Mon General Hospital, Pharmacy Chemo Hood Replacement, Morgantown, WV\*

Sentara RMH Mobile MRI Corridor, Harrisonburg, VA\*

Ariake Food Processing Plant Expansion, Harrisonburg, VA\*

West Virginia University, Evansdale Traffic Gate Utility, Morgantown, WV\*

WV DOH District 4 Office Buildings, Bridgeport, WV\*

Wheeling Air National Guard Hangar, Wheeling, WV\*

Kanawha County Schools, Nitro High School, HVAC Renovation, Nitro, WV\*

New River Community Technical College, Lewisburg, WV\*

Harrison County Schools, Fire Alarm Renovation, Harrison County WV\*

\* Experience from previous employer

### EDUCATION

2005 – Bachelor of Science  
Mechanical Engineering  
West Virginia University

### SPECIALIZATIONS

Mechanical Engineering  
Project Management  
Field Observations  
Healthcare Facilities  
Education Facilities  
Master Planning  
On-site Troubleshooting

### REGISTERED PROFESSIONAL ENGINEER

West Virginia



David G. Duray, P.E.,  
LEED® Accredited Professional  
Principal | Civil Engineering

Contact Information

☎ 412.262.1220, ext. 119

✉ [dduray@cjlengineering.com](mailto:dduray@cjlengineering.com)

### PROFESSIONAL SUMMARY

Dave Duray is the Department Head of Civil Engineering at CJL Engineering. He started with the firm in 2007. Dave's 35 years of experience includes a wide variety of Civil Engineering and Surveying disciplines, plus the management and ownership of his own consulting engineering firm for over 19 years. His responsibilities include scheduling and coordination of personnel, client liaison work, project development, design and quality control.

Dave's technical background includes structural, water systems, sanitary sewer systems, stormwater management, site development, roadways, paving, drainage, municipal and permitting. He performs feasibility studies, cost analysis, total project cost estimates and evaluation of funding alternatives.

### REPRESENTATIVE PROJECTS

#### STRUCTURAL

- Carnegie Museum Heat/Cool Plant Master Plan, Pittsburgh, PA
- University of Pittsburgh, Fisher Hall Chiller Replacement, Pittsburgh, PA
- University of Pittsburgh, Steam Line, Pittsburgh, PA
- St. Francis University, DeGol Field House, Loretto, PA
- Mt. Nittany Medical Center, Blood Lab, State College, PA
- Elliott Company, Jeanette, PA
- Westinghouse Electric Co., Waltz Mills, PA
- Single Source Roofing Office Renovation, Pittsburgh, PA
- Marion Manor Renovations, Pittsburgh, PA
- Callahan Ice Rink, Bradford, PA

#### SITE DEVELOPMENT

- Frederick National Laboratory, Fort Detrick, Chilled Water Plant Expansion Phase I, Frederick, MD
- UPMC Mercy Hospital, Pittsburgh, PA
- UPMC, New Physician's Office, Mount Jewett, PA
- Jameson Hospital Site Work, New Castle, PA
- St. Francis University (New Science Center and DeGol Field House – Expansion), Loretto, PA
- PNC Bank – 35 Summit Central Plant, Pittsburgh, PA

- City of Johnstown - 2012 Street Reconstruction Project, Johnstown, PA
- CamTran Operations Facility, LEED® Compliant, Johnstown, PA
- WRC Assisted Living Facility, Clarion, PA
- Ebensburg Animal Hospital, Ebensburg, PA
- Liberty Grace Brethren Church Parking Lot, Johnstown, PA

#### WATER AND SANITARY

- Ferndale Borough Sanitary Sewer Project, Johnstown, PA
- CTMA Rt. 985 Waterline Extension, Johnstown, PA
- Glendale High School Sewer and Water, Glendale, PA
- Maple Avenue Waterline, South Fork, PA
- Wagner Road Waterline, Vinco, PA
- Jerome-Hyasota Sewer System, Jerome, PA
- Pegasus Sewer System, Johnstown, PA
- Duman Lake Sanitary Sewer System, Belsano, PA

#### RECREATION

- City of Johnstown Playground Rehab., Johnstown, PA
- North Star High School Athletic Field Renovation, Boswell, PA
- Roxbury Park Improvements, Johnstown, PA
- Greater Johnstown Community YMCA, Johnstown, PA

### EDUCATION

University of Pittsburgh  
B.S. – Civil Engineering - 1980

### SPECIALIZATIONS

- Civil Engineering
- Structural Engineering
- Feasibility Studies
- Stormwater Management

### REGISTERED PROFESSIONAL ENGINEER

Pennsylvania, Colorado, District of Columbia, Kentucky, Maryland, Missouri, New York, Ohio, Oklahoma, Texas, Virginia, West Virginia



Timothy D. Nicholson, P.E.  
Structural Engineer

Contact Information

☎ 412.262.1220, ext. 154

✉ [tnicholson@cjlengineering.com](mailto:tnicholson@cjlengineering.com)

### PROFESSIONAL SUMMARY

Tim Nicholson is a structural engineer at CJL Engineering. He started with the firm in 2013 and has over 14 years of experience in the field of architectural engineering. Tim's experience includes a wide variety of building types and uses. He is responsible for the entire structural design process from schematic design, and construction documents, to construction administration. Tim also is experienced with creating three-dimensional building information models (BIM) using the Autodesk Revit® software. His technical background includes the structural engineering and the design of masonry, concrete, steel, wood, and a variety of lateral force resisting systems.

### EDUCATION

The Pennsylvania State University  
B.S. – Civil Engineering - 2000  
M. Eng. – Civil Engineering - 2001

### SPECIALIZATION

Structural Engineering  
Building Evaluation  
Structural Design REVIT®  
• Masonry, Concrete  
• Wood, Steel

### REPRESENTATIVE PROJECTS

Elliott Group, Jeannette, PA

- Building 48, Office Renovation
- Gauge and Instrument Lab
- Research and Development Facility
- Roof Structure Evaluation

Columbia Gas of Pennsylvania,  
Adamsburg, PA

Bakery Square, Self-Storage Structural  
Renovations, Pittsburgh, PA

Mercer County I-79, (DGS A251-685)  
Roadside Rest Site #17 & #18,  
Mercer County, PA

SCI Forest, (DGS 377-3 Phase 2) HTHW  
Piping, Marienville, PA

Greater Johnstown YMCA, Additions and  
Alterations, Johnstown, PA

Paramount Senior Living,  
Rehab Renovation, McMurray, PA

Westminster Canterbury at Shenandoah  
Valley, Senior Living Community  
Expansion, Winchester, VA

WRC Assisted Living Center, Clarion, PA

University of Pittsburgh, Fisher Hall Chiller  
Replacement & Platform, Bradford, PA

Millcreek Community Hospital, Erie, PA

National Cancer Institute - Fort Detrick,  
Chiller Plant Master Plan and Expansion,  
Frederick, MD

YMCA of Youngstown, Youngstown, OH

University of Pittsburgh, Pittsburgh, PA  
• McGowan Center HVAC Upgrades  
• Campus Steam Tunnel & Vault Upgrade

Grove City College, Grove City, PA  
• PLC recreation Pool Upgrade  
• Competition Pool HVAC Upgrade

Mount Aloysius College, Alumni Hall,  
Cresson, PA

Mount Lebanon School District,  
Cooling Addition, Pittsburgh, PA

Canon McMillan School District, High  
School HVAC Upgrades, Canonsburg, PA

Garrett County Memorial Hospital,  
Oakland, MD

Meadville Medical Center, Vernon Place  
Medical Office Building, Meadville, PA

DaVita Dialysis Center, Various Locations,  
MD, OK, MO

Dale Oxygen, Addition and Renovation,  
Johnstown, PA

### REGISTERED PROFESSIONAL ENGINEER

Pennsylvania



## Design & Project Approach



Tab 4



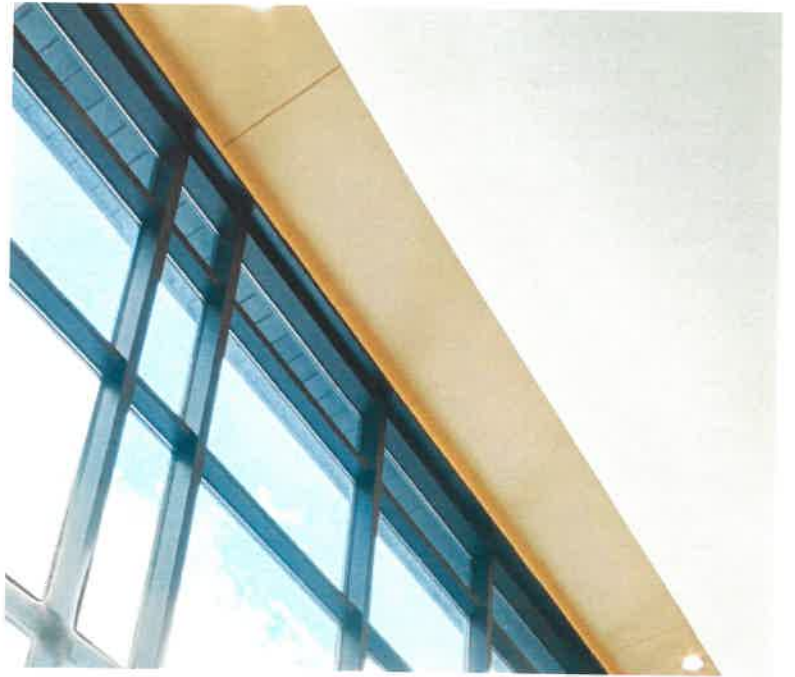
Two Waterfront Place

## Design & Project Approach

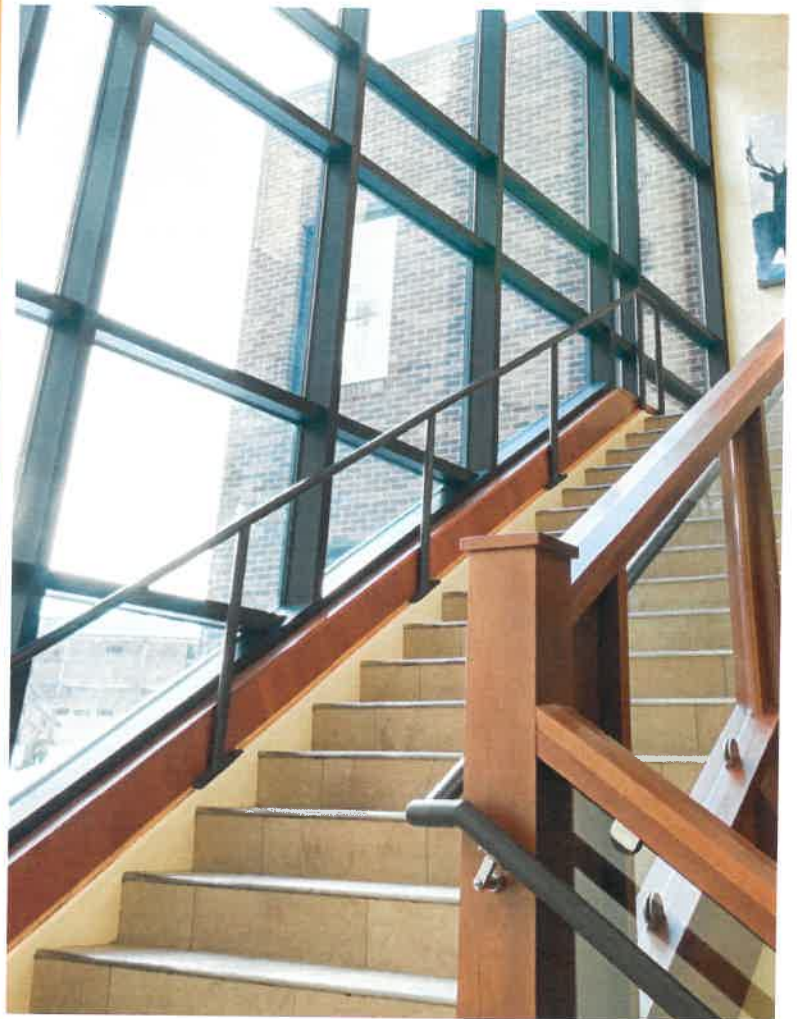
- Meeting with Owner to review any ongoing problems with the facilities\*
- Field verify existing conditions\*
- Confirm program requirements with users\*
- Examine existing building for code deficiency, systems, etc.\*

### *\*Can occur concurrently*

- Schematic Design
  - ‡ Review design options with Owner
  - ‡ Evaluate pros/cons to each design solution
  - ‡ Owner approves Schematic Design
    - Make changes as required
- Design Development
  - ‡ Create systems layouts
    - HVAC
    - Lighting/Electrical/Fire Alarm
    - Sprinkler/Plumbing
  - ‡ Review with Owner
    - Make changes as required
- Construction Documents
  - ‡ 35% Review & Estimate
    - Make changes as required
  - ‡ 65% Review & Estimate
    - Make changes as required
  - ‡ 95% Review & Estimate
    - Make changes as required
  - ‡ 100% Release Bid Package (Drawings/Specs)
- Receive Bids
  - ‡ Review with Owner
- Award Contract to General Contractor
- Begin Construction



Ascent Consulting & Engineering



Tab 5



## **FIRM IDENTIFICATION AND BACKGROUND**

### **FIRM PROFILE**

Founded in January 2018, Ascent Consulting and Engineering is a young company with big experience. Ascent employs a diverse staff, bringing expertise in nearly every facet of Civil and Environmental Engineering. We are committed to providing quality services, building long lasting relationships, and supporting/encouraging our employees.

### **LAND DEVELOPMENT**

Ascent knows development. Our knowledge in Site Development ranges from on thousand acre mixed use developments and business parks to small commercial site plans and residential housing communities. We pride ourselves in understanding the goals of the development and our designs are practical, complete, well-coordinated, and on budget.

### **UTILITIES**

Ascent has a wide range of experience in utility designs and upgrades. From service line extensions to major system expansions and replacement projects, ACE has the technical knowledge and personnel to meet your needs.

### **STORMWATER MANAGEMENT & DRAINAGE**

Every project is different. Ascent evaluates drainage patterns and works with clientele to determine which best management practice are best suited for each project. From traditional basin design to underground systems and bio-retention facilities, Ascent has the knowledge to work with any site, providing a responsible design that compliments the landscape and fits the budget.

### **ENVIRONMENTAL SERVICES**

With over twelve years of experience, our environmental capabilities cover a wide range of services including Phase I and Phase II Environmental Site Assessments, aquatic resource surveys/permitting, endangered species consultations, asbestos inspections, operating permit compliance, and general environmental consulting.

### **INSPECTION SERVICE**

We have built a senior team of construction inspectors that have knowledge in utilities, earthwork, slip repairs, retaining walls, pipeline, etc. No matter what your project is we will always strive to give you the best service, with the highest quality at all times.

## **ASCENT CONSULTING AND ENGINEERING**

2361 Davisson Run Rd, Suite 103 Clarksburg, WV 26301

304.933.3463



## Ascent Team Management Methodology

The primary objectives of the management framework / processes are:

- **Time, Cost and Scope** – Cost, schedule, and quality control are key components of the Ascent Team’s



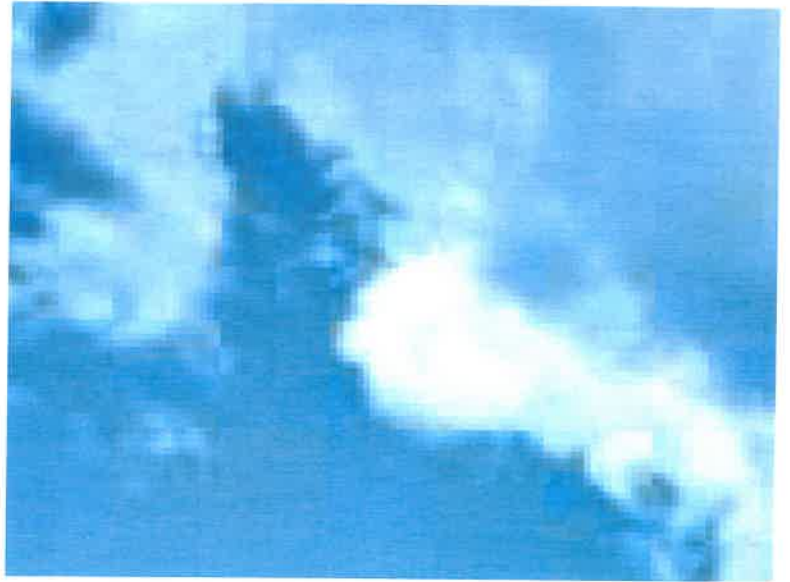
management approach. This module is primarily concerned with defining and controlling the project; tracking, modifying, and controlling the steps for realizing the anticipated project benefits; and providing a structure to manage change. We will use cost, schedule, and quality performance measures agreed to during the kickoff meeting to monitor progress.

- **Communications and Reporting:** Ascent understands communication is a key to success for this effort, and good communication will deliver key messages to stakeholders and other team members. This includes status of activities, schedule, and informational awareness on the project and/or task, as well as reporting on a weekly, monthly, or contract basis.

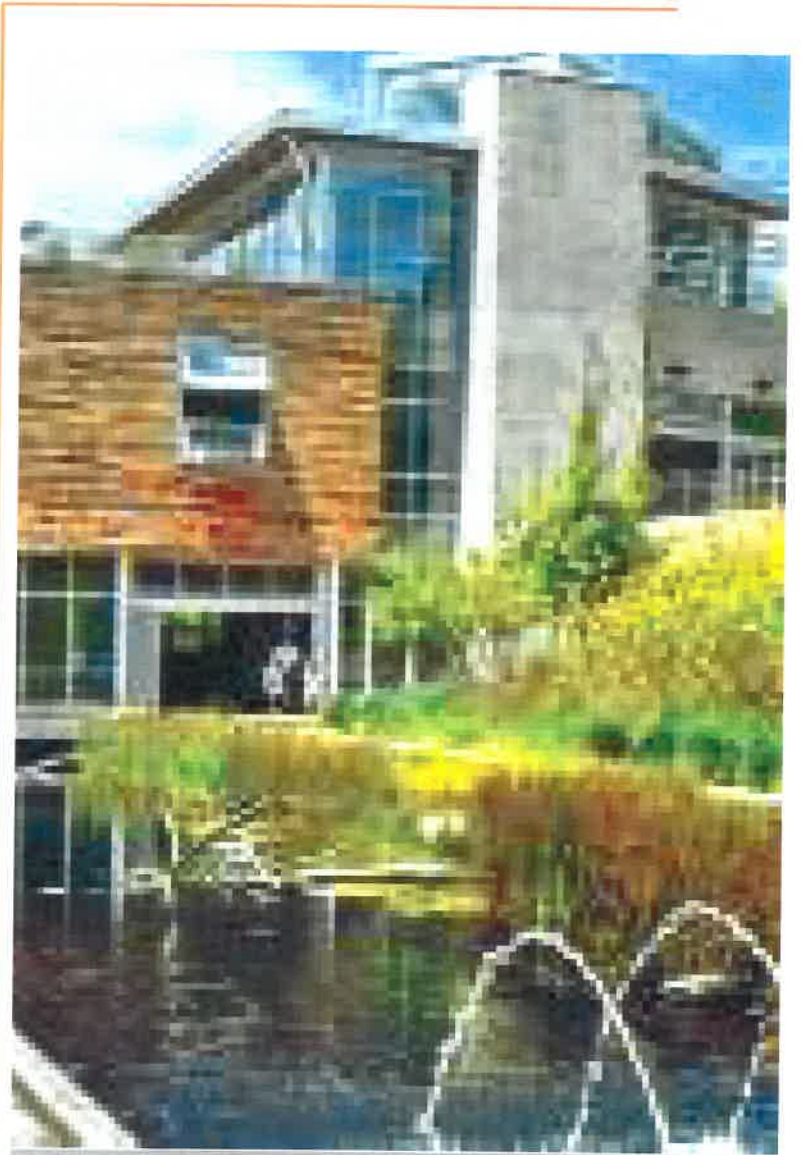
- **Financials:** Ascent utilizes resource planning, cost estimating based on effort, cost budgeting and cost control

processes to ensure that the project is completed within the approved budget. Projects are tracked financially and billing activities are monitored and controlled along with the collection processes.

- **Quality Management:** All studies for the project will be performed to the industry standard to adhere to proven guidelines. The reports that are generated are peer reviewed internally as a quality control measure.
- **Resource Management:** Our resource management approach ensures that pre-planning, scheduling, and the allocation of Ascent’s resources will maximize efficiency for the Railyard Event/Conference Center project.
- **Change Management:** Ascent’s change management approach is to first stop and pause to understand what is driving the change. Once this is understood, it is communicated directly to the client so that a clear path forward can be developed.
- **Knowledge Management:** Our knowledge management process includes collecting, organizing, clarifying, and disseminating information and knowledge throughout an organization and our customers. Ascent has developed and maintains an in-house Sharepoint knowledge management site. This knowledge management site is used to house project specific documentation including workflows for routing and approvals.
- **Risk / Issue Management:** Our risk management approach is to reduce the variation in expected project results, including cost, schedule, and performance. Risk management begins with the development of our Risk Management Plan that will continue throughout the life of the project with active participation by all stakeholders. Our PM will manage the Risk Plan, which will contain a description of the risk, the risk category, the risk impact assessment, the risk ranking and urgency, the originator, and the name of the assigned manager/staff member. All problems and issues associated with project performance or related issues will be identified, qualified, and documented in the form of action items, assigned to a responsible individual, entered our Quality Control database, and tracked to resolution. We will employ our rapid issue escalation process via daily stand-up meetings and weekly status reports from our key personnel staff. The Project Manager will ensure that any adverse trends are analyzed for root causes and that appropriate corrective actions are taken.



CJL Engineering



Tab 6

## FIRM OVERVIEW

Established in 1938, CJL Engineering is a full service, mechanical, electrical, plumbing, fire protection, and civil/structural consulting engineering firm, located in western Pennsylvania, eastern Ohio, northern West Virginia and Maryland. Our super-regional focus has enabled us to become one of the preeminent MEP firms in the industry, with a wide range of specializations and clients.

CJL Engineering has extensive hands-on experience with the architectural, structural, mechanical, electrical, plumbing and fire protection consulting services of K-12 schools, colleges, universities and trade school facilities of all sizes. CJL Engineering provides fully engineered, high quality designs and detailed documentation for all mechanical and electrical systems.



### Range of services:

- Analysis and concept
- Construction budgeting
- Building information modeling (BIM)
- Energy modeling
- Detailed construction documents
- Construction phase services
- Building commissioning



### More than 150 personnel, including:

- 32 Professional Engineers
- 28 LEED LEED® Accredited Professionals
- Certified Energy Managers (CEM)
- Commissioning Process Management Professionals (CPMP) Building Energy Assessment Professionals (BEAP)
- Healthcare Facility Design Professionals (HFDP) and Certified Healthcare Constructor (CHC)



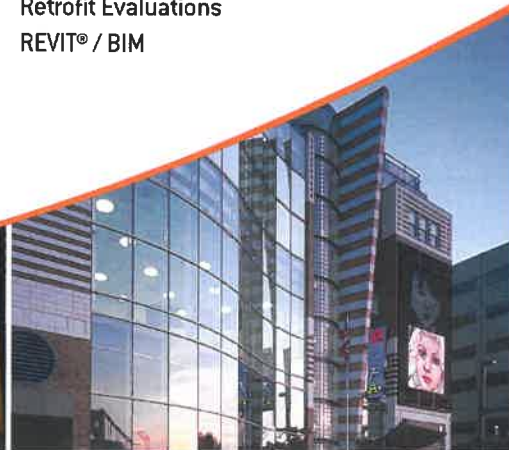
### A broad range of clients

- Education - Colleges, Universities, Trade Schools, K-12
- Green Buildings, Science, Laboratory and Research Facilities
- Healthcare - Hospitals, Urgent Care, Medical Centers and Labs
- Corporate, Commercial, Office Buildings
- Industrial - Light and Heavy Manufacturing, Warehousing
- Performing Arts Centers, Museums, Theaters and Libraries
- Government and Secure Facilities
- High Tech Buildings/ Mission Critical Data Centers
- Hotels, Ice Arenas and Sports Facilities
- Apartments, Dormitories and High Rise
- Central Plants, Energy Facilities and Utility Distribution Centers
- Historic and Adaptive Retrofit
- Master Planning and Design



### Specialization

- HVAC Systems
- Electrical Systems
- Fire Detection and Protection
- Plumbing Design
- LEED® Green Building Design Commissioning
- Energy Modeling Solutions
- Civil / Structural Engineering
- Architectural Lighting and Controls
- Telecommunications
- Life Safety Systems
- Voice/Data/Audiovisual
- Security Systems
- Power System/Quality Evaluations
- Life Cycle Analyses
- Retrofit Evaluations
- REVIT® / BIM



# A.W. Beattie Career Center, LEED® Gold Upgrade and Expansion, Pittsburgh, PA



CJL designed the systems to be sustainable and energy efficient, which allowed the A.W. Beattie Center to become the First LEED® Gold CTC in Pennsylvania.

## THE PROJECT

The A.W. Beattie Career Center offers advanced technical training, career development, business ethics and career-related employment opportunities in 16 technical areas including Culinary Arts, Pastry Arts, Auto Body, Auto Tech, Cosmetology, HVAC and Early Childhood Development. Located in the Allison Park suburb of Pittsburgh, the center serves students from nine sending schools. CJL Engineering provided a total HVAC and electrical systems upgrade to this educational facility, as well as the MEP engineering for an expansion to the center. The project earned LEED® Gold Certification.

## CJL DESIGN SOLUTIONS

- New HVAC system
- Replace all rooftop units including five multi-zone rooftop units
- New building automation system
- New overhead vehicle exhaust system
- New energy recovery system for the automotive shop area which accommodates 12 vehicles
- New cast iron boilers
- New electrical service entrance, distribution, and branch circuits and services throughout the expanded building. New voice / data / security systems
- New interior and exterior lighting and controls to meet energy codes

## CJL Engineering

Pittsburgh | Johnstown | Youngstown | Frederick | Erie | Morgantown  
P: 412.262.1220 | [cjlengineering.com](http://cjlengineering.com)

# Jefferson County-DuBois AVTS (JEFF TECH), Reynoldsville, PA



## THE PROJECT

Jefferson County-DuBois Area Vocational Technical School is a comprehensive career and technical high school offering exceptional training in 14 technical training areas. They offer core high school academics alongside CTE and Cooperative Education programs. Jeff Tech also offers a wide range of adult education opportunities, including full-time, short-term and online programs. Their Adult Education program provides career training and certifications. The four sending districts include: Brockway, Brookville, DuBois and Punxsutawney Area School Districts. CJL Engineering provided both mechanical and electrical engineering services for the upgrade and expansion of the school.

## CJL DESIGN SOLUTIONS

- HVAC upgrades included two new gas fired hot water boilers and an exterior 150-Ton air-cooled chiller
- New hot water and chilled water pumps, new piping and ductwork, unit ventilators, air-handling units, heaters, radiant panels and exhaust fans
- A Building Energy Management System
- New sanitary drainage, storm drainage, fire/water service, natural gas, shop compressed air, and new domestic hot water heating equipment
- New circulating pumps, wall hydrants, mixing valves, hose bibs, backflow preventer, plumbing fixtures, grease and solids interceptors, hair interceptors, elevator sump pumps, and shop oil separator tank
- All new electrical distribution system, fire alarm system, emergency generator, lighting system, voice / data / video network
- Uninterruptible power system, lighting controls, access control / security system, building sound systems, telephone and wireless clock system

## CJL Engineering

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# Portage Area Elementary School Roof Replacement, Portage, PA



## THE PROJECT

CJL Engineering was contracted to provide Portage Area School District with full architectural services for the roof replacement at the Portage Area Elementary School in accordance with state and local building codes and City ordinances.

## CJL DESIGN SOLUTIONS

- Full engineering assessment and design documentation suitable for City Plan Review submission.
- Conducted site visits to establish and verify existing building/roof and mechanical and electrical equipment conditions and locations.
- Attended design meetings.
- Coordinated with Local Building Department and other public agencies.
- Provided the following construction administration services:
  - Pre-construction and construction job meetings
  - Product and material shop drawing reviews
  - Construction RFI reviews
  - Project scope reviews and evaluation of change orders

## CJL Engineering

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# Greenville Elementary School

## Greenville Area School District, Greenville, PA



CJL designed the systems to meet the needs for the 50,000sf addition and provide Greenville Area School District with energy efficient equipment that help lower utility cost.

### THE PROJECT

CJL Engineering was contracted to provide Greenville Area School District with mechanical, electrical and plumbing design for the Additions and Alteration for their newly named Elementary School. The School District decided to merge their two elementary schools, East Elementary and Hempfield Elementary renaming it Greenville Elementary School. The 50,000 sf addition consisted of 18 new classrooms, a band room, a gym, a stage, a cafeteria kitchen, two outdoor courtyards that let in natural light, a computer lab, an expanded library, bathrooms, nurse's room and a office space,

### CJL DESIGN SOLUTIONS

- To meet the heating needs of the building, two new hot water boilers were designed.
- Hot water circulating pumps were designed for proper head pressure and flow and equipped with variable frequency drives for energy conservations.
- A new direct digital control system was designed to integrate existing equipment and new equipment for a building wide control system.
- Extended the sanitary sewers and water service to the municipal systems.
- An automatic wet-pipe sprinkler system was designed for the new gym addition.
- Backbone cabling system was designed to provide interconnections between communications equipment rooms and entrance facilities in the telecommunications cabling system structure.

### CJL Engineering

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P: 412.262.1220 | [cjleengineering.com](http://cjleengineering.com)

# Clearfield Area Jr-Sr High School Expansion and Renovation, Clearfield, PA



CJL upgraded the electrical, mechanical and plumbing systems to resolve corrosive water issues and provide Clearfield School District with energy efficient equipment.

## THE PROJECT

The 40 year-old Clearfield Area Jr-Sr High School underwent a \$31.2 million expansion / renovation and reopened in September 2014. The school was reprogrammed to include grades seven and eight, in addition to four years of traditional high school. The project also saw the relocation of the District's Administrative Offices into the new addition. CJL Engineering was contracted to design the mechanical, electrical, and plumbing systems for the expansion and renovation.

## CJL DESIGN SOLUTIONS

- Complete HVAC renovation, including new gas-fired hot water boilers, air-cooled chillers, a cooling tower and 4-pipe hot and chilled water system
- New automatic temperature control and emergency power systems were designed.
- Replaced the entire domestic water system, changed all plumbing fixtures, installed a new domestic water filtration system and added a heat exchanger for the pool.
- A new pool rooftop unit with energy recovery to pre-heat pool water to save energy was designed.
- CJL designed new air-handling units with fan-powered boxes for the classrooms .
- Installation of a new electrical distribution system throughout the building, including a new lighting system.
- New video surveillance, card access, fire alarm, public address, and voice/data systems were installed throughout the building.
- CJL designed theatrical lighting and sound systems for the auditorium.

## CJL Engineering

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P: 412.262.1220 | [cjlengineering.com](http://cjlengineering.com)



# NASA IV&V Facility

## West Virginia University, Fairmont, WV



CJL modernized the mechanical and electrical systems for this 50,000 square foot, super computer center to help achieve total power redundancy.

### THE PROJECT

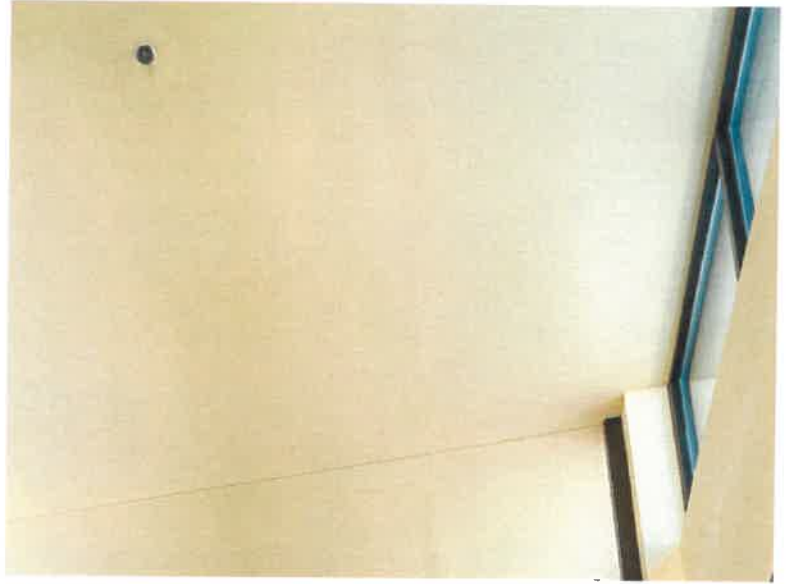
The Independent Verification and Validation Center was built by West Virginia University for NASA. CJL Engineering was responsible for the facility's Mechanical and Electrical Engineering Design. Achieving total power redundancy was a priority for this 50,000 sf super computer center.

### CJL DESIGN SOLUTIONS

- Chilled water systems with redundant chillers and air-handling units with variable frequency drives.
- Under-floor chilled water loop.
- Redundant chilled water and hot water pumping systems with VFD.
- Energy management system with monitoring and alarm sensors.
- Two 4000-amp 480-volt independent primary power feeds from separate power companies for system redundancy.
- Two 1000 KVA generators, with provisions for a third, provide generator / utility paralleling.
- 1000 KVA uninterruptible power supply (UPS) and 15-minute wet battery backup.
- Emergency diesel generators with a redundant unit, and provisions for a fourth, supply the entire building with back-up power.
- Under-floor duct system for computer, communication, and power cable.

### CJL Engineering

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Executed Documents



Tab 7



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

**State of West Virginia  
 Centralized Expression of Interest  
 Architect/Engr**

<b>Proc Folder:</b> 858601			<b>Reason for Modification:</b> Addendum #2 issued to revise Section 3: Project Specifications of EOI to include Item #9 and extend bid due date.
<b>Doc Description:</b> A&E EOI for Renovation and Assessment Projects at the WWSDB			
<b>Proc Type:</b> Central Contract - Fixed Amt			
<b>Date Issued</b>	<b>Solicitation Closes</b>	<b>Solicitation No</b>	<b>Version</b>
2021-04-14	2021-04-22 13:30	CEOI 0403 DBS210000001	3


**BID RECEIVING LOCATION**

BID CLERK  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

**VENDOR**

Vendor Customer Code: 000000220792  
 Vendor Name : Paradigm Architecture, Inc.  
 Address : Suite 300  
 Street : 2223 Cheat Road  
 City : Morgantown  
 State : WV Country : USA Zip : 26508  
 Principal Contact : Paul A. Walker, AIA  
 Vendor Contact Phone: (304) 284-5015 Extension: 1

**FOR INFORMATION CONTACT THE BUYER**  
 Joseph E Hager III  
 (304) 558-2306  
 joseph.e.hageriii@wv.gov

Vendor Signature X  FEIN# 63-1263568 DATE 4/19/20

**ADDITIONAL INFORMATION**

Addendum

Addendum #2 issued to distribute the attached documentation to the vendor community

\*\*\*\*\*

The Acquisition and Contract Administration Section of the Purchasing Division ("Purchasing Division") is soliciting Expression(s) of Interest ("EOI" or "Bids") for West Virginia Schools for the Deaf and the Blind ("Agency"), from qualified firms to provide architectural engineering services ("Vendors") as defined herein per the attached specifications and terms and conditions.

PROJECT: The mission or purpose of the project for which bids are being solicited is to provide necessary engineering, and other related professional services to design as well as provide construction contract administration services for a School for the Blind HVAC, electrical, and windows upgrades, Central Supply building structural assessment, Seaton Hall Boys Dorm renovation into administrative offices, School for the Deaf building elevator upgrade, Keller Hall building roof replacement, IRC building parking lot completion, Blue & Gold building renovation, and update all campus building floor plans and related work at the West Virginia Schools for the Deaf and the Blind. The project will include the design, specification, and construction administration of all necessary improvements to the buildings ("Project").

INVOICE TO	SHIP TO
SCHOOL FOR THE DEAF & BLIND 301 EAST MAIN ST  ROMNEY WV 26757-1894 US	SCHOOL FOR THE DEAF & BLIND 301 EAST MAIN ST  ROMNEY WV 26757-1894 US

Line	Comm Ln Desc	Qty	Unit Issue
1	Architectural Engineering		

Comm Code	Manufacturer	Specification	Model #
81101508			

**Extended Description:**  
Services of an architectural engineering firm

**SCHEDULE OF EVENTS**

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
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**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: CEOI DBS21\*01**

**Instructions:** Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

**Acknowledgment:** I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

**Addendum Numbers Received:**

(Check the box next to each addendum received)

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  |
| <input checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3            | <input type="checkbox"/> Addendum No. 8  |
| <input type="checkbox"/> Addendum No. 4            | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5            | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further 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.

Paradigm Architecture, Inc.

Company



Authorized Signature

4/19/21

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

Revised 6/8/2012



**PARADIGM ARCHITECTURE**

2223 Cheat Road | Suite 300

Morgantown, WV 26508

T 304.284.5015 | F 304.284.5014

5184 Caldwell Mill Road | Suite 204351

Birmingham, AL 35244

T 205.403.2742