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Header 1

[List View](#)

General Information

[Contact](#)
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[Discount](#)
[Document Information](#)
[Clarification Request](#)

Procurement Folder: 1487701

Procurement Type: Central Purchase Order

Vendor ID:

Legal Name: MONTUM ARCHITECTURE LLC

Alias/DBA:

Total Bid: \$0.00

Response Date:

Response Time:

Responded By User ID:

First Name:

Last Name:

Email:

Phone:

SO Doc Code: CEOI

SO Dept: 0603

SO Doc ID: ADJ2500000005

Published Date: 8/12/24

Close Date: 8/26/24

Close Time: 13:30

Status: Closed

Solicitation Description:

Total of Header Attachments: 1

Total of All Attachments: 1



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

State of West Virginia
Solicitation Response

Proc Folder: 1487701		
Solicitation Description: Building 307 Parachute Maintenance Shop Design- Camp Dawson		
Proc Type: Central Purchase Order		
Solicitation Closes	Solicitation Response	Version
2024-08-26 13:30	SR 0603 ESR08262400000001462	1

VENDOR		
VS0000013207 MONTUM ARCHITECTURE LLC		

Solicitation Number:	CEOI 0603 ADJ2500000005		
Total Bid:	0	Response Date: 2024-08-26	Response Time: 10:03:16
Comments:			

FOR INFORMATION CONTACT THE BUYER David H Pauline 304-558-0067 david.h.pauline@wv.gov		
Vendor Signature X	FEIN#	DATE

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	FMS#4 Maintenance Shop Design-Camp Dawson				0.00

Comm Code	Manufacturer	Specification	Model #
81101508			

Commodity Line Comments:

Extended Description:

Provide professional architectural and engineering design services per the attached documentation.



Expression of Interest
West Virginia – Army National Guard
Building 307 Parachute Maintenance Shop Design –
Camp Dawson
Kingwood, WV
CEOI ADJ2500000005
August 26, 2024



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

Montum Architecture, LLC

55 ER Path, Keyser, WV 26726 • 304-276-7151 • tom@montumarch.com
montumarch.com



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August 26, 2024

State of West Virginia
Department of Administration, Purchasing Division
2019 Washington St. E.
Charleston, WV 25305

**Subject: Building 307 Parachute Maintenance Shop Design – Camp Dawson
Design EOI, CEOI 0603 ADJ2500000005**

Dear Sirs and Madams,

Montum Architecture, LLC is pleased to submit this Statement of Qualifications to provide architectural and engineering services. Montum is headed by Tom Pritts, an architect with 21 years of experience designing a multitude of project types. He will be the primary contact for the duration and provide architectural design and construction administration services. Tom has completed designs for various State and local government agencies across the state. Previous National Guard work includes Bridgeport FWAATS Restroom Renovations, Jackson County AFRC Wash Canopy, USPFO Restroom Renovations, and Camp Dawson FMS4 Fire Protection.

Montum has teamed with Miller Engineering, Inc. to provide mechanical, electrical, and plumbing design services. Miller has completed many the MEP projects for the State of West Virginia and specializes in HVAC, electrical and plumbing renovation projects. We will consult with Arrow Engineering for Structural Engineering and Potesta for Civil Engineering work. All members of the project team have worked together on many successful projects.

All four of the identified goals and objectives in the EOI will be addressed by the design team:

2.1 The design team prides themselves in starting new projects looking at all of the existing conditions, project needs, and limitations that inform the best approach to the design process and goals of the project. Our project sheets clearly reflect the extent of previous experience in working in that manner. Thorough assessment of existing conditions is the first key component to developing the project needs. This design will incorporate energy efficient systems, economical construction methods, and have a maintenance-friendly mindset.

2.2 Geotechnical and utility location will be part of the project scope.

Montum Architecture, LLC

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montumarch.com

2.3 The design team will provide the design services including 35%, 65%, 95%, and 100% document submissions, including estimated construction costs.

2.4 Each primary designer remains as the responsible representative for their portion of the work as the project progresses into construction. The continuity of the design-decision knowledgebase positively impacts the administration of construction activities.

Our goal on every project is to provide exemplary designs that perform to the highest standard for the given budget constraints. We feel that by striving to spend every project dollar to our best ability will inherently serve our client's best interest.

Thank you for taking the time to review the attached information about the design team and we are grateful for your consideration.

Respectfully submitted,
Montum Architecture LLC



Thomas Pritts, AIA, CSI-CCS, LEED-AP

Montum Architecture, LLC

55 ER Path, Keyser, WV 26726 ● 304-276-7151 ● tom@montumarch.com
montumarch.com

Montum Architecture, LLC Firm Profile

Who We Are.

Montum Architecture, LLC was founded in 2017 to provide architectural design and consulting services. Montum Architecture is a Limited Liability Corporation filed in the state of West Virginia. The company is also registered in the State of Maryland as a foreign LLC. Montum is staffed by a licensed principal architect and a design professional. They work manage projects together, from conceptual to construction administration, allowing the utmost coordination of building plans and specifications with minimal potential for miscommunication.

Our Services

Government	Planning
Institutional	Building Assessment
K-12 schools	Architectural Detailing
Higher Education	Specification Writing
Multi-Dwelling	Contract Administration
Medical	Design/Bid/Build
Retail	Renovation
Emergency Services	Renderings
Automotive	Life Safety Evaluations
Financial	Design/Build
Warehouse	Project Management

Why Choose Us.

Communication

Tom Pritts will be the primary point of contact for Montum’s architectural services. Montum will manage communication with the Owner, Contractor, and sub-consulted team of members on this project.

Project Budget

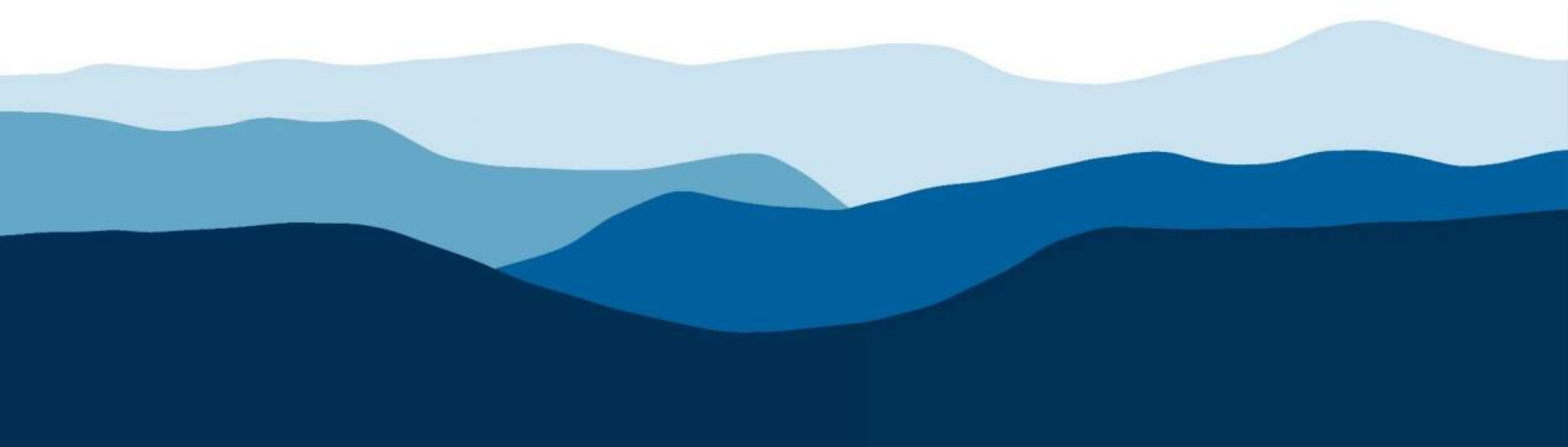
Previous work experience has shown a consistent +/-2%bid-to-budget ratio.

Project Schedule

Montum will monitor and adjust the design tasks in order to complete the design work in the established timetables. They will also work diligently during project construction to maintain the contractual constraints placed as part of the contractor’s bid.

Design Software

Montum utilizes Autodesk Revit for all design projects incorporating three-dimensional modeling and parametric reporting. Existing condition documentation includes drone imaging, 360 camera shots, and handheld LiDAR telemetry.





Firm Profile

MILLER ENGINEERING is a solely held (S) corporation owned by Craig Miller PE, President. The corporation maintains a Certificate of Authority with the WV State PE Board and has carried professional liability insurance since its inception. Neither the firm nor its professional engineers have ever faced disciplinary action in any form from the states in which they are registered.

Our engineered solutions involve a detailed assessment process: investigation, observation, communication with stakeholders, system analysis, building modeling and engagement from our entire team. We approach each and every project with this process and the guiding principle that buildings are designed to be livable and function in their intended purpose.

*Over the past 14 years Miller Engineering, Inc. (MEI) has engineered solutions for over \$23.2M in MEP system upgrades, repairs and renovations for projects of all scopes and sizes, with clients ranging from private owners to local and state governments. With a strict attention to detail and commitment to delivering a job done well and done right the first time, every time, **MEI has accumulated a change order percentage of less than 0.1% over the past 8 years.***

Our team has unique skill-sets regarding engineered renovation solutions. Each member of the team has hands-on mechanical system experience including installation, construction, design and maintenance.

*Miller Engineering takes pride in being **different by design**, and that difference shines through in all phases of our work and continued relationships with our clients.*

- Experienced and Licensed Professional Engineers
- Quality, Value-Engineered Project Delivery
- Qualified Construction Representative on Staff
 - LEED-AP Certified
- Below Industry Change Order Status
 - Building Information Modeling
 - Emergency Facility Response

Engineering Design and Consultation

- Mechanical
- Electrical
- Plumbing
- HVAC Design
- Renovation
- New Construction
- Building Information Modeling

Aquatic Facility Design

Public Pools & Areas
ADA Compliance
Indoor & Outdoor (air flow)
Chlorination/Filtration

Construction Administration

Maintenance/Facility Improvement Plans
Contract Administration
Code Observation

Communication System

Intercomm & Public
AddressVoice/Data/CATV
Urgent Response

Energy

Power Supply (main & backup)
Green & Renewable Consulting
Systems Utilization & Upgrades
Sustainable Solutions

Facility Utilization

Systems Assessment & Solutions
Adaptive Re-use
Planning/Life-Cycle Control
Engineered Replacement

Life Safety Inspection/Design

Fire Protection & Alarm Systems
Access Control
Fire & Electrical Investigation

Industry Experience

Education
Local & State Government
Commercial Development
Healthcare





INDUSTRY LEADING SERVICES YOU CAN TRUST




You want to hire a professional engineering company that can give you a strong end result for your next project. A trustworthy and dependable engineer. One to build a durable foundation, with impressive design work that can hold the pressures of its environment to keep you and your company or loved ones safe.

This sentiment is the reason Arrow Engineering was founded by Mike Howell in 2016.

Who We Are

Arrow Engineering is a structural engineering firm with a team who is dedicated to serving clients in the industrial, residential, and commercial markets.

3 promises we commit to with every project

-  Rise above our client's expectations.
-  Maintain exceptional knowledge of construction and design practices as experts in our field.
-  Deliver high quality documents and communication that are both practical and detailed.

"Our strongest connections are with those who we serve, whose dreams we help build."

***- Arrow Engineering
Owner, Mike Howell***

Arrow Engineering

info@arwgcg.com

www.arwgcg.com

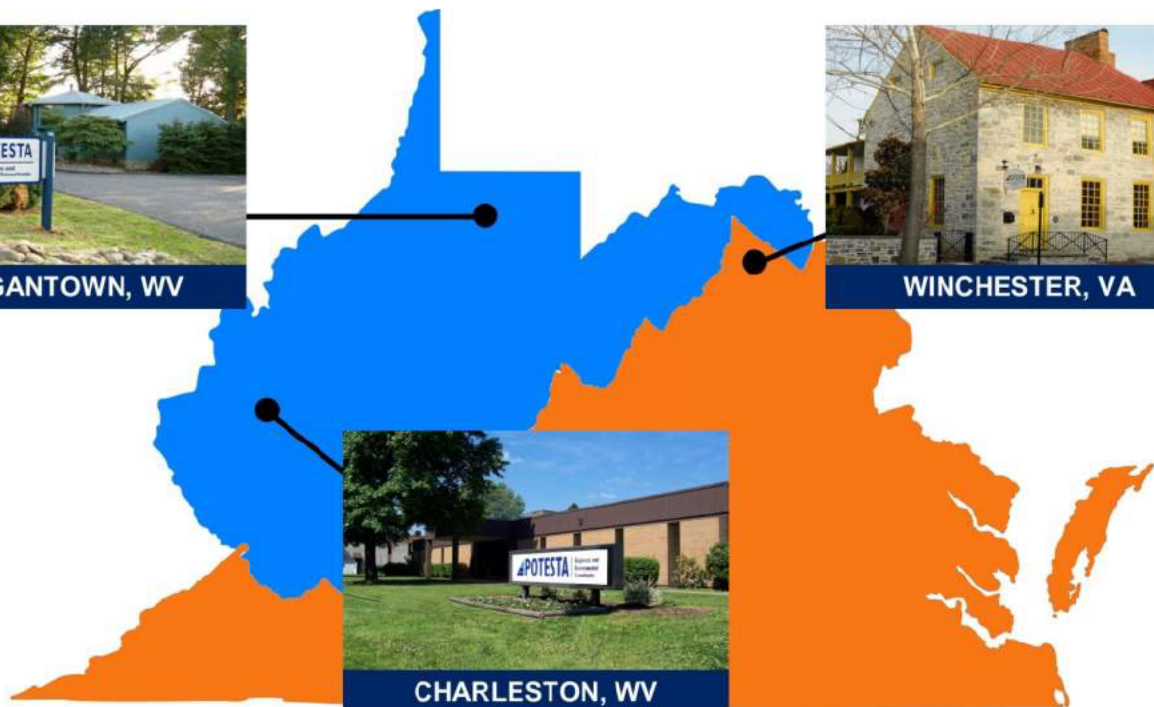
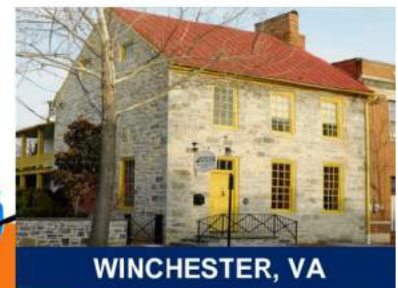
304-276-1296

POTESTA & ASSOCIATES, INC.

QUALIFICATIONS

BRIEF HISTORY OF FIRM

Established in 1997 by Mr. Ronald R. Potesta, POTESTA operates as a comprehensive engineering and environmental consulting firm headquartered in Charleston, West Virginia. Since the beginning, POTESTA has consistently delivered high-quality engineering and environmental consulting services across the Mid-Atlantic region. Our team comprises a diverse staff of experienced engineers, scientists, and support personnel, with branch offices situated in Winchester, Virginia, and Morgantown, West Virginia. Our clientele spans various sectors, including local, state, and federal agencies, as well as mining, manufacturing, and chemical companies, utility companies, waste management firms, land developers, attorneys, financial institutions, insurance companies, K-12 schools, colleges, universities, construction companies, and architects.



VARIED RANGE OF PROFESSIONAL SERVICES

- Air
- Biological and Toxicological
- Civil Engineering and Design
- CADD
- Construction Monitoring
- Endangered Species Consultation
- Environmental Site Assessment
- Environmental-Reclamation Liability Assessments
- GIS
- Geotechnical Engineering
- Groundwater
- Hydrology and Hydraulics Design
- Landfills and Solid Waste Management
- Land Management
- Litigation Support
- Permitting
- Remedial
- Risk-Based Remediation
- Roadway Engineering
- Sampling
- Site Design
- Solar Development
- Storage Tanks
- Stormwater Management
- Stream Restoration
- Surveying and Mapping
- Water/Wastewater Engineering
- Water Quality Studies
- Wetlands

QUALIFICATIONS

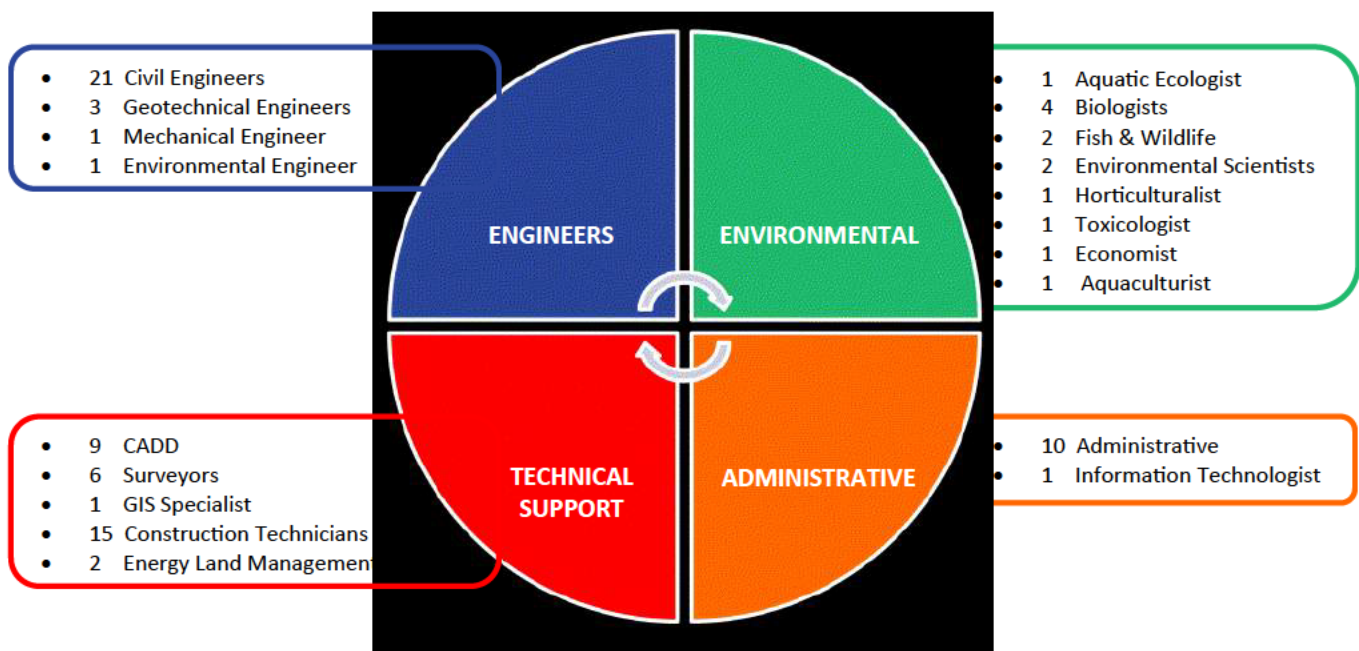
LEADERSHIP

As the President of the company, **Mr. Ronald R. Potesta** brings a wealth of experience, having served as the Director and Deputy Director of West Virginia's Department of Natural Resources (WVDNR). Throughout his tenure, WVDNR encompassed all environmental regulatory programs, wildlife management, and law enforcement. Mr. Potesta specializes primarily in federal and environmental regulatory matters, statutory schemes, and environmental guidance. His expertise includes agency interaction, as well as the review of regulatory requirements and recommendations.

Dana L. Burns, PE, PS, Vice President, boasts over 45 years of expertise in overseeing civil, geotechnical, mining, and environmental engineering projects. His extensive experience spans the management of various projects, including preliminary feasibility evaluations, detailed design, and the preparation of construction drawings, specifications, and bid documents. Serving as the Principal-in-Charge on numerous projects, he has successfully completed assignments for diverse clients, including local and state governments, municipalities, public service districts, utility providers, residential and commercial developers, as well as universities/colleges and manufacturing facilities.

David K. Paylor, Vice President of Environmental, brings over 45 years of dedicated public service in safeguarding natural resources within the Commonwealth of Virginia. For the past 16 years, he served as the Director of the Virginia DEQ, appointed by Governors Tim Kaine, Bob McDonnell, Terry McAuliffe, and Ralph Northam. Mr. Paylor's extensive expertise encompasses waste management, measurement of water quality and quantity, air quality management, climate control, pollution prevention, and a commitment to environmental justice. Mr. Paylor joined the firm in 2022 and Mr. Paylor contributes technical and policy expertise, particularly focusing on environmental permitting in Virginia.

STAFF PROFILE: 83 TOTAL





Attached is your wallet card, evidence of your current registration to practice architecture in West Virginia. You will receive a renewal notice prior to the expiration date indicated.

Certificate No: [REDACTED]

STATE OF WEST VIRGINIA
BOARD OF ARCHITECTS

This Certifies that:

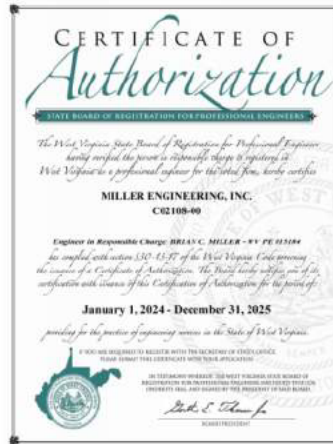
THOMAS PRITTS

is duly Registered and entitled to practice as a
REGISTERED ARCHITECT
until and including 06/30/2024

Attest [Signature] President

SECRETARY [Signature]

Staff – Licenses & Certifications







Staff – Proposed Staffing Plan:

**Architect/ Team Leader/
Primary Point of Contact**

Thomas Pritts, AIA

**Lead Designer/BIM Specialist/
BIM Coordinator**

Jordyn Henigin

**Engineer in Responsible Charge
Lead MEP Engineer
MEP Designer**

***Craig Miller, PE
Travis Taylor, PE
Tyler Trump***

**Lead Structural Engineer
Project Engineer
Junior Structural Engineer
Junior Structural Engineer**

***Michael Howell, PE
Ashbee Sykes, PE
Philip Bailey, EI
Sydney Raeckelboom, EIT***

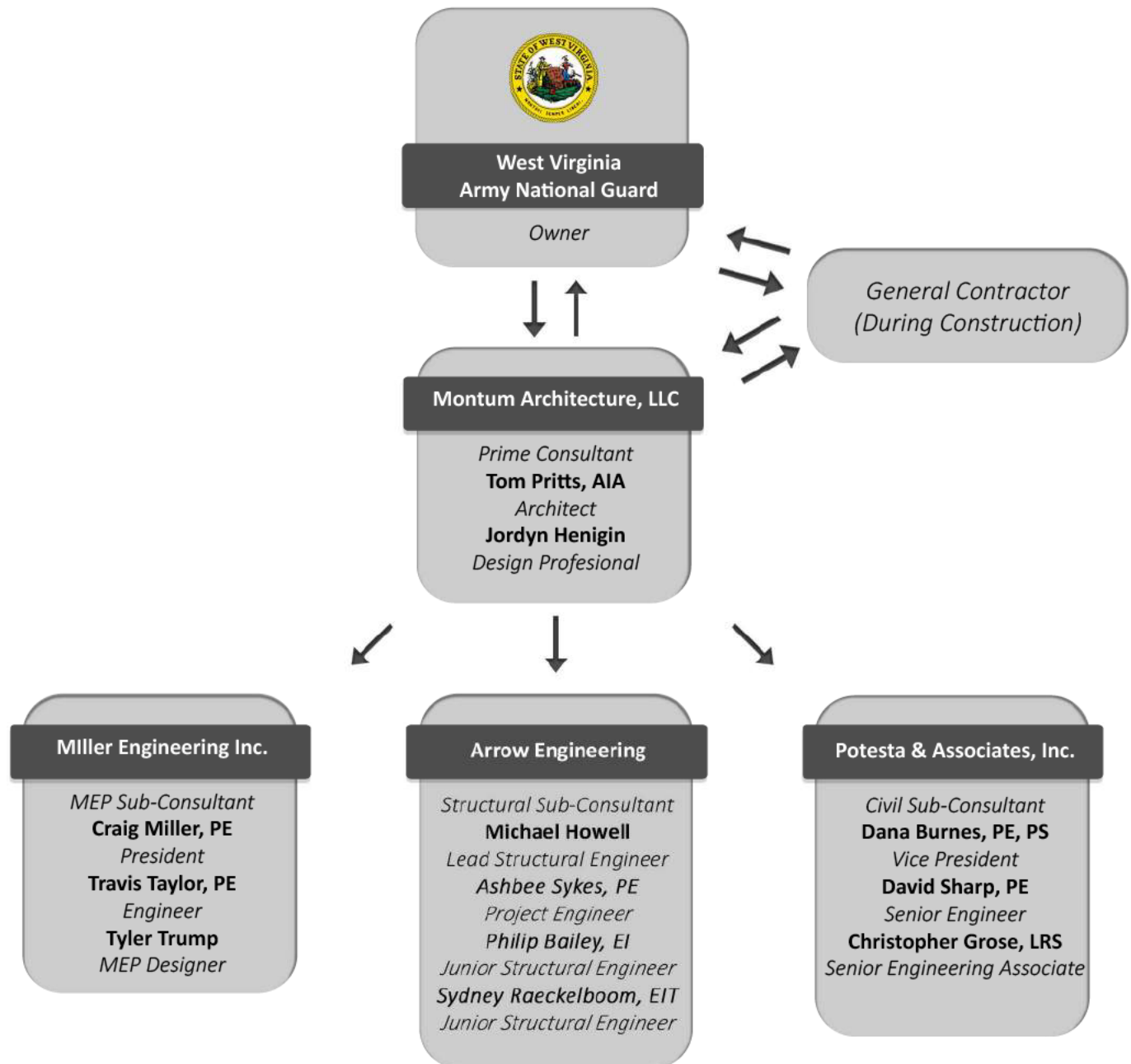
**Lead Civil and Environmental
Engineer
Senior Engineer
Senior Engineering Associate**

***Dana Burnes, PE, PS
David Sharp, PE
Christopher Grose, LRS***

Montum Architecture, LLC

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Project Organization Chart





Thomas Pritts, AIA, LEED-AP, CSI-CCS

Tom founded Montum Architecture in 2017. He has more than 15 years experience in design, specification, and project management. During his former employment, Tom has designed and managed dozens of built projects. His experience encompasses a wide range of projects including K-12 and higher education facilities, financial Institutions, emergency services buildings, and automotive dealerships. A native of Mineral County, Tom is member of the West Virginia Chapter of American Institute of Architects and was involved in the establishment of the US Green Building Council's West Virginia chapter. He is highly skilled in the design of complex building systems, technical construction detailing and specifying, and construction contract administration. These skills were critical in the development and maintaining of many multi-year, multi-project relationships with Clients in his previous employment.

Project Role: Relationship Manager – Primary Point of Contact

- Principal in Charge
- Design and Project Management
- Concept and Construction Design
- Quality Assurance and Control

Professional History

2017- Present	Montum Architecture	Architect
2004-2017	Alpha Associates	Associate and Architect
2003	Marshall Craft Associates	Architectural Intern

Education

2004	Virginia Tech	Bachelors of Architecture
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Licenses and Certifications

- Licensed Architect (West Virginia, Maryland)
- NCARB Certificate
- Construction Specifier Institute – Certified Construction Specifier
- LEED-AP Certified
- 30-hour OSHA Card

Professional Project Highlights

- Potomac State College – Bachelor of Nursing Renovation
- Wyoming East High School HVAC Renovation – Wyoming County Schools, WV
- Mountainview and MTEC HVAC Renovation – Monongalia County Schools, WV
- Berkeley Springs State Park – Pool Bathhouse Roof Replacement
- Berkeley Springs State Park – Old Roman Bath Renovation
- Blackwater Falls State Park – Boiler Room Renovation
- Our Lady of the Mountains Parish – Bathroom Renovation
- Mountain View Assembly of God – Rec Hall Ceiling Design



Professional Project Highlights (former employment built projects)

- Potomac State College – ADA Connector Building, Church-McKee Plaza, Shipper Library Façade
- WVU Engineering Sciences Building – East Wing Addition, 10th Floor Fit-Out, Basement Renovation
- WVU Engineering Research Building – G07 & G08 Renovation
- WVU Equine Education Center
- WVU College of Physical Activities and Sports Sciences/ Student Health Center
- WVU Center for Alternative Fuel Engines and Emissions
- WVU Colson Hall Water Infiltration Repairs
- WVU Mountainlair Water Infiltration Repairs
- WVU Chemistry Research Laboratories Fit-Out
- WVU Creative Arts Center Wheelchair Lift
- Alderson Broaddus University – Pyles Arena Deck Replacement
- Glenville State College – Morris Stadium Skybox
- Washington High School, Jefferson County Schools, WV
- Pineville Elementary School, Wyoming County Schools, WV
- Huff Consolidated School, Wyoming County Schools, WV
- Aurora School Addition, Preston County Schools, WV
- Riverview High Field House Design-Build, McDowell County Schools, WV
- Safe School Entries, Monongalia County Schools, WV
- Morgantown High Elevator, Monongalia County Schools, WV
- 2010 Comprehensive Education Facilities Plan- Monongalia County Schools, Wyoming County Schools
- Clear Mountain Bank Branches, Oakland, MD - Reedsville, WV - Kroger-Sabraton, WV
- Grant County Bank, Petersburg, WV
- Fairmont Federal Credit Union, Bridgeport, WV
- Freedom Ford, Kia, and Volkswagen Automotive Dealerships, Morgantown and Clarksburg, WV
- Jenkins Subaru Addition, Bridgeport, WV
- Elkins Fordland Renovation - Elkins Chrysler Dealership, Elkins, WV
- Harry Green Nissan Design-Build, Clarksburg, WV
- Cool Green Automotive Addition and Renovation, Shepherdstown, WV
- Veteran's Affairs – OI&T Office Fit-Out, Shepherdstown, WV
- OPM, Eastern Management Development Center Addition, Shepherdstown, WV
- National Energy Technology Laboratory – Building B-8 Roof Replacement, Morgantown, WV
- US Coast Guard – Conference Room Renovation, Martinsburg, WV
- Eastern Panhandle Transit Authority Addition, Martinsburg, WV
- Cacapon State Park – Old Inn HVAC and Interior Renovation
- WV National Guard - Armory Office Fit-out, Parkersburg, WV
- South Berkeley Fire Station, Inwood, WV
- Jefferson County Emergency Services Agency – New Headquarters
- Berkeley County Ambulance Authority – South Station Renovation and Addition
- Poolhouse Renovation, McMechen, WV
- Community Center, Ridgeley, WV
- Wastewater Treatment Plant Renovations, Martinsburg, WV
- Public Works Building, Fairmont, WV
- Oatesdale Park Little League Fields, Martinsburg, WV
- St. Luke Canopy Replacement, Morgantown, WV
- Freshwater Institute – Aquaculture Building, Shepherdstown, WV
- Clarion Hotel Renovation, Shepherdstown, WV
- Shenandoah Village Apartments – Façade and Deck Replacement, Martinsburg, WV
- Regional Eye Associates/ Surgical Eye Center, Morgantown, WV
- Bavarian Inn – Infinity Pool/ Pool Bar, Shepherdstown, WV



Jordyn Henigin, M.Arch

Jordyn joined Montum Architecture in May 2020. A recent graduate of Fairmont State University, She has been eager to enhance her skills in the business field and develop a stronger knowledge of architectural design principals and methods. Jordyn is in the process of pursuing her goal to become a licensed Architect.

Project Role: Design Professional

- Concept and Construction Design
- Building Information Modeling – Revit
- Architectural Rendering - Lumion

Professional History

2020- Present	Montum Architecture	Design Professional
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Education

2020	Fairmont State University	Bachelors of Architecture
2022	Fairmont State University	Masters of Architecture

Licenses and Certifications

- LEED-Green Associate
- 30-hour OSHA Card

Associations and Memberships

- Assoc. AIA

Professional Project Highlight

- Watters Smith State Park, Lost Creek WV
- Mon Co Schools Transportation Addition, Morgantown WV
- Jackson Co ARFC Wash Bay, Millwood WV
- BUMFS Staggers Recovery, Burlington WV
- BUMFS Knobley Rehab, Burlington WV
- Aging & Family Services of Mineral County - Keyser Senior Center, Keyser WV
- Mineral County Detention Center, Courthouse, and Annex addition and renovations, Keyser WV
- Larenim Park Amphitheater, Burlington WV
- Building 25 HVAC, Parkersburg WV
- WVGSD Elevator Modernizations
- Westside HVAC and Roof, Clear fork WV
- Ed Kelley Memorial, Keyser WV
- Cass Campground, Cass WV
- Waxler Warehouse, Keyser WV
- Greenbrier SF Headquarters, White Sulphur Springs WV
- FWAATS, Bridgeport WV
- WV Challenge Academy Maclin Hall



B. Craig Miller, PE

Craig founded Miller Engineering in 2003, and serves as President and Principal Engineer. He has more than 20 years experience in design, specification, operations and project management. During his employment with WVU, Craig was directly involved with approximately \$130 million in new capital construction. His experience with a wide range of projects including HVAC, electrical, plumbing, infrastructure upgrades, building automation, energy efficiency and maintenance/renovation, among others, allows him to serve in multiple capacities within a given project. Craig will serve as the "Relationship

Manager" for Miller Engineering as the main communication interface between the Owner, the design team, contractors and end users.

Project Role: Relationship Manager – Primary Point of Contact

- *Engineer in Responsible Charge*
- *Design and Project Management of Mechanical, Electrical, Plumbing Projects*
- *Concept and Construction Design*
- *Business Operations and Financial Management Oversight*
- *Quality Assurance and Control*

Professional Project Highlights

- Morgantown High School Area 4 HVAC Renovations
- WVU Life Sciences Building and Student Recreation Center – Owner's Engineer
- WVANG Bridgeport FWAATS Restroom Renovations
- ChalleNGe Academy Maclin Hall Make Up Air Unit Replacement
- Advanced Surgical Hospital
- Camp Dawson FMS4 Fire Protection
- Chief Logan Lodge HVAC Renovations
- Cheat Lake Elementary & Middle School Renovations

Professional History

2003- Present	Miller Engineering, Inc.	President, Relationship Manager
2002-2003	Casto Technical Services	Existing Building Services Staff Engineer
2001-2002	Uniontown Hospital	Supervisor of Engineering
1995-2001	West Virginia University	Staff Engineer
1990-1995	BOPARC	Caretaker – Krepps Park
1983-1988	University of Charleston	Electrician/HVAC Mechanic

Education

1995	West Virginia University	BS- Mechanical Engineering
1988	University of Charleston	BA- Mass Communications

Licenses and Certifications

- Professional Engineer (West Virginia, Pennsylvania, Maryland, and Ohio)
- Licensed Master Plumber
- LEED-AP Certified



Travis Taylor, PE

Experience in project management facilitates Travis's ability to create and design constructible projects. Prior to joining the Miller Engineering team he was directly responsible for managing \$10 million in electrical construction budgets. His experiences encompass both new construction and renovation. Travis maintains professional competencies by attending seminars and continuing education classes. These include local ASHRAE classes in addition to classes on electrical systems, and also steam systems through Shippenburg Pump Company. As lead engineer he provides HVAC, mechanical, plumbing, and electrical design solutions and services for our clients. In addition, he is part of our team's complete assessment process in both planning and MEP design through construction administration.

Project Role: Lead MEP Engineer

- *Design of Mechanical, Electrical, and Plumbing Systems*
- *Building Information Modeling - Revit*
- *Constructible Materials Evaluation*
- *Site Evaluation and Mechanical System Review*
- *Submittal and RFP Review*
- *RFI Coordination, Review, and Response*
- *Construction Observation*

Professional Project Highlights

- WVANG Bridgeport FWAATS Restroom Renovations
- WVANG USPFO Buckhannon Restroom Renovations
- Camp Dawson FMS4 Fire Protection
- WVANG Jackson County AFRC Canopy
- WV State Building 25 (Piping, HVAC, Lighting)
- Hawks Nest Lodge Renovations
- Blackwater Falls Lodge Renovations
- Holly River State Park Primary Electric Service Replacements Phase I & II
- Pipestem Lodge McKeever Lodge HVAC Piping Replacement

Professional History

2011-Present	Miller Engineering, Inc.	Staff Engineer
2006-2011	Tri-County Electric, Co.	Project Manager
2006-2006	Schlumberger	Field Engineer Trainee - MWD

Education

2006 West Virginia University, BS – Mechanical Engineering

Licenses and Certifications

- Professional Engineer - State of West Virginia, Maryland
- OSHA 10-hour Course: Construction Safety & Health



Tyler Trump

Tyler joined Miller Engineering in August 2022. A recent graduate of West Virginia University, he has been eager to learn the means and methods of MEP consulting. Tyler assists the MEP design team with design calculations and is rapidly learning design software such as Autodesk REVIT and Hourly Analysis Program by Carrier. He is also learning construction administrations along with building, electrical, and plumbing codes and standards. Tyler is currently preparing to take the Fundamentals of Engineering Exam.

Project Role: Junior Engineer

- *Design Calculations*
- *Drafting of MEP Systems*
- *Assist with Construction Administration*

Professional Project Highlights

- Cass Scenic Railroad State Park Campground
- Lost River Campground
- Mountain Line Transit Authority Office Renovation
- WV Building 25 Lighting Upgrades
- Ronald McDonald House Morgantown Addition & Renovations
- McKeever Lodge Boiler Replacement
- Chief Logan Lodge HVAC Renovations
- ChalleNGe Academy Maclin Hall Make Up Air Unit Replacement

Professional History

2022- Present Miller Engineering, Inc. MEP Designer

Education

2022 West Virginia University, BS - Mechanical Engineering

Licenses and Certifications



Michael Howell PE, SE

President

With more than 20 years of experience, Michael is the force behind Arrow. Originally from Pittsburgh, Pennsylvania, he founded this company in a town that he grew to love as a child, Morgantown West Virginia.

From holding a hammer in his hand and going in crawl spaces, to attaining his PE and SE and working with many different project types and scales throughout the years, he has a background in both construction and engineering.

Michael's experience includes residential, commercial, and industrial projects of all sizes throughout the United States and across the world. He brings a straightforward and practical approach to projects that saves clients time and money while ensuring the Arrow team produces the highest quality materials and goes the extra mile to give people what they need.

EDUCATION

UNIVERSITY OF PITTSBURGH

BACHELOR'S OF SCIENCE
CIVIL ENGINEERING

WEST VIRGINIA UNIVERSITY

MASTER'S OF ARTS
BUSINESS ADMINISTRATION

PROFESSIONAL LICENSURE

WV, VA, PA, IN, LA, CA,
MD, KY, TN, NJ, OH

CURRENT AFFILIATIONS

Spark! Imagination and Science Center
Bartlett House
Pace Enterprises, Inc
BNI International
Habitat for Humanity
American Society of Civil Engineers

RECENT PROJECT EXPERIENCE

Bridgeport Fire Department

Bridgeport, WV

Grow West Expansion Phase II

Cumberland, MD

Parkersburg Children's Museum

Parkersburg, WV

Sweet Springs Resort Bathhouse Restoration

Sweet Springs, W.V.

Mon General Community Hospital

Fairmont, WV





Ashbee Sykes, PE

Project Engineer

Growing up working in a family construction business, Ashbee has a great appreciation for construction and structures. From framing houses to planning and engineering on multimillion dollar infrastructure projects, he has experience in many facets of the industry and understands the hard work that goes into projects and the impact design decisions may have.

As a Structural Project Engineer, Ashbee's work as a young carpenter inspired his appreciation for structural engineering and led him to where he is today. His vast knowledge and practical experience is a valuable asset to the Arrow team.

EDUCATION

WEST VIRGINIA UNIVERSITY
BACHELOR'S OF SCIENCE
MECHANICAL ENGINEERING

WEST VIRGINIA UNIVERSITY
MASTER'S OF SCIENCE
AEROSPACE ENGINEERING

THE CITADEL
GRADUATE CERTIFICATE
STRUCTURAL ENGINEERING

PROFESSIONAL LICENSURE

WV, VA, PA, NC

CURRENT AFFILIATIONS

American Society of Civil Engineers
Structural Engineering Institute
American Institute of Steel Construction

FORMER PROFESSIONAL EXPERIENCE

The Thrasher Group — Bridgeport, WV
Sykes Construction — Kitty Hawk, NC

RECENT PROJECT EXPERIENCE

300 South Campus Drive

Imperial, PA

APM Apartments

Martinsburg, WV

Connellsville Event Center

Connellsville, PA

New Hope Commons Chipotle

Uniontown, PA

Sutherland Residence

Morgantown, WV

Opequon-Hedgesville WWTP Upgrades

Martinsburg, WV





Phillip Bailey, EI

Junior Structural Engineer

A Junior Structural Engineer and native Mountaineer, Phillip was born and raised in the small town of Bridgeport, West Virginia. As a student, prior to his graduation from West Virginia University, he assisted West Virginia University's Women and Children's Hospital as a Project Manager for two years and has experience with large-scale projects.

Phillips passion for construction and advanced knowledge of structural engineering analysis software programs brings great value to Arrows clients.

EDUCATION

WEST VIRGINIA UNIVERSITY

BACHELOR'S OF SCIENCE
CIVIL ENGINEERING

CURRENT AFFILIATIONS

Former Marshall of WVU Chi Epsilon Chapter

Young Life Youth Ministry Leader

RECENT PROJECT EXPERIENCE

Bridgeport Fire Department

Bridgeport, WV

Boone Memorial Hospital

Danville, WV

Ascend West Virginia

Morgantown, WV

Birchwood Power Station Demolition

King George, VA

Fairmont United Methodist Renovation

Fairmont, WV

Crown Jeep Dealership and Service Center

Washington, PA





Sydney Raeckelboom, EIT

Junior Structural Engineer

Originally from South Carolina, Sydney has roots in West Virginia. Her grandmother grew up in War and went to Big Creek High school, the historic home of the Rocket Boys, portrayed in the popular movie "October Sky".

A Project Engineer, Sydney began her career working on pre-manufactured metal building systems. She soon moved onto working with various commercial projects for government bases around the world. As a junior engineer, she has over 5 years experience collectively.

Sydney brings a fresh perspective and modern approach to Arrow's projects.

EDUCATION

CLEMSON UNIVERSITY

BACHELOR'S OF SCIENCE
CIVIL ENGINEERING

FORMER PROFESSIONAL EXPERIENCE

Cranston Engineering — Augusta, Ga
SS&A — Montgomery, Al
Nucor Building Systems — Swansea, SC

RECENT PROJECT EXPERIENCE

Augusta Preparatory School

Augusta, GA

Beverage Outlet

Evans, GA

Veterinary Clinic

San Francisco, CA

Starbucks Middletown

Middletown, WV

Advanced Learning Center Addition

Morgantown, WV

Spencer Middle School

Spencer, WV



DANA L. BURNS, P.E., P.S.

Vice President



EDUCATION

M.S. Civil Engineering, 1979
West Virginia University

B.S. Civil Engineering, 1978
West Virginia University

EMPLOYMENT HISTORY

1997-Present	Potesta & Associates, Inc.
1994-1997	Terradon
1979-1994	GAI Consultants, Inc.
1978-1979	West Virginia University
1976-1977	West Virginia Department of Highways (summers)

PROFESSIONAL REGISTRATIONS

- Professional Engineer – West Virginia, Illinois
- Professional Surveyor – West Virginia

PROFESSIONAL CERTIFICATIONS

40-Hour Health and Safety Training

SERVICE ON BOARDS AND COMMISSIONS

- Environmental/Technical Committee member – West Virginia Coal Association
- Environmental Committee member – Kentucky Coal Association

- Past Board of Directors member and current Waste Team Chairman on the Environmental Safety and Health Committee – West Virginia Manufacturers Association
- Environmental and Safety Committee member – Independent Oil and Gas Association of West Virginia
- Environmental Committee member – West Virginia Oil and Natural Gas Association
- Past President – West Virginia Society of Professional Engineers, Professional Engineers in Private Practice
- Past President and past Board of Directors member – American Council of Engineering Companies West Virginia Chapter
- Past Chairman of Transportation Committee – American Council of Engineering Companies West Virginia Chapter
- Past Board of Directors member – Society of American Military Engineers Huntington Post
- Member Committee D-18 on Soil and Rock – American Society for Testing and Materials (ASTM)

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- National Society of Professional Engineers
- WV Society of Professional Surveyors

AREAS OF SPECIALIZATION

Management of design and permitting of civil, environmental, geotechnical, and mining engineering projects. Siting, designing, and permitting industrial and municipal waste disposal sites; reclamation of abandoned mine lands; and development of stormwater management plans and groundwater sampling programs. Environmental/reclamation liability assessments. Development of site plans for commercial and industrial facilities including hydrologic and hydraulic analyses. Expert witness testimony. Directs engineering division, including day-to-day operation of headquarters and three branch offices concerning staffing, coordination, training, business development, and overall technical and support staff management.

PROFESSIONAL EXPERIENCE

Civil/Site Design

Utility extension, site grading plans, stormwater management, roadway design, and permitting for site development for residential subdivisions and commercial developments.

University of Charleston – Principal-in-Charge for the following projects:

- Development of topographic mapping of campus
- Evaluation of storm sewer system
- Civil site services – UC Pharmacy School, New Hall, Middle Hall, and Brotherton Hall
- Design of new campus entrance roadway

Marshall University – Principal-in-Charge for the following projects:

- 400-bed housing project
- Biotechnology Center
- Fifth Avenue parking and 6th Avenue parking facility
- Jomie Jazz Center
- Childcare Center
- Mid-Ohio Valley Center
- Campus landscape master use plan
- Campus improvements project
- MU Graduate College South Charleston campus
- Student Center and Henderson Center
- Bookstore addition
- University Heights

Glenville State University – Principal-in-Charge for the following projects:

- Student Residence Hall
- Athletic Convocation Center and Forestry/Survey Class Center

West Virginia University – Principal-in-Charge for a sidewalk repair project located near Allen Hall on the Evansdale Campus in Morgantown, West Virginia.

The Villages at Coolfont – Principal-in-Charge to provide environmental and engineering consulting services for the redevelopment of the Coolfont Recreation property in Morgan County, West Virginia to create a second home community with high-end amenities:

- Phase I Environmental Site Assessment
- American Land Title Association (ALTA) boundary and property survey of 997 acres
- Completed an assessment of the facility's sanitary sewer wastewater treatment plant to facilitate the acquisition of the property.
- Participated in weeklong planning charette with clients, land planners, and other design consultants to assess characteristics of the property, identify opportunities and constraints, obtain input from residents and businesses, and develop design guidelines.
- Land use plan including 1,300 homes, a village center, spa, expansion of an existing lake, a proposed second lake, walking/hiking/biking trails, and the necessary infrastructure.
- Civil engineering design for potable water and wastewater treatment facilities.
- Selected source well locations, drilled 3 source test wells, and completed field testing and permitting.
- Designed a 300-gallon per minute potable water treatment plant.
- Designed 2- 316,000-gallon water storage tanks and 75,000 LF of distribution system.
- Completed the design and permitting for a 448,000-gallon per day membrane bioreactor wastewater treatment plant, including the design of a 70,000 LF collection system.
- Assisted with permitting required for the development of the new lake and upgrades/expansion of the existing lake (included were Section 404 individual permit and Section 401 water quality certification).
- Prepared roadway and stormwater management plans, including typical pavement sections, road profiles, geometric layout plans, culvert and drop inlet sizing, drainage conveyance pipe and channel profiles, and miscellaneous stormwater management details.

Principal-in-Charge for the civil/site design for the new Sissonville Middle School in Kanawha County, West Virginia. The project included a site grading plan with more than 230,000 cubic yards of earthwork to obtain 20 acres of level ground for a 74,000-square-foot school, football field, soccer field, baseball field, access roadways, and parking areas. The project included utility designs for water service and sanitary sewer. Stormwater collection systems and erosion and sediment control plan/permit completed.

DAVID B. SHARP, P.E.

Branch Manager/Senior Engineer



and right-of-way plans; and municipal water and wastewater projects.

PROFESSIONAL EXPERIENCE

Geotechnical

Engineer responsible for performing subsurface investigations, preparing geotechnical reports, coordinating laboratory analysis programs, and providing recommendations for lateral earth pressures, bearing capacities, modulus of subgrade reactions, settlements, and construction specifications for multi-story structures. Foundations considered have included steel H-piles, auger-cast piles, drilled piers, spread footings, and mat foundations:

- Snowshoe Resort Activity Center – Snowshoe, WV
- Stockert Youth Center – Buckhannon, WV
- D&E College Dormitory – Elkins, WV
- Suncrest UMC Parsonage – Morgantown, WV
- Elkins-Randolph Public Library – Elkins, WV
- Historic Tygart Hotel Elevator – Elkins, WV
- Mon County BOE Tech Center Feasibility – Morgantown, WV
- MedExpress Admin Office – Morgantown, WV
- Firefly Commons Housing Dev – Elkins, WV
- Solvay Expansion – Marietta, OH
- Superior Fibers Add. – Reedsville, WV
- Citizens Bank Add. – Buckhannon, WV
- Chemours Fire Station – Washington, WV
- Camp Dawson 2 New Buildings – Kingwood, WV
- Dental Spa – Morgantown, WV
- Marshall Baseball Stadium – Huntington, WV
- Citizen's Bank – Buckhannon, WV
- Miners & Merchants Bank – Davis, WV
- D&E College Myles Center Add. – Elkins, WV
- Buzz Foods Add. – Charleston, WV
- Solvay WWTP Clarifier – Marietta, OH
- Black Oak Office Building – Morgantown, WV
- D&E College Harper McNeeley Waterproofing – Elkins, WV
- Family Dollar Store – Berkeley Springs, WV
- Rubbermaid Distribution Ctr Add. – Winchester, VA
- WVU Transportation Ctr/ Garage – Morgantown, WV
- 4 West WTP – Greene County, PA
- CA Ventures Student Housing – Morgantown, WV
- Copper Beech Student Housing – Morgantown, WV
- Sunnyside Commons Student Housing – Morgantown, WV

EDUCATION

M.S. Civil Engineering, 1995
West Virginia University

B.S. Civil Engineering, 1993
West Virginia University

EMPLOYMENT HISTORY

2003-Present	Potesta & Associates, Inc.
2000-2003	CTL Engineering, Inc.
1997-2000	Potesta & Associates, Inc.
1994-1997	Terradon Corporation

PROFESSIONAL REGISTRATIONS

Professional Engineer – West Virginia, Pennsylvania, Maryland, Ohio, and Kentucky

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers

AREAS OF SPECIALIZATION

Involved with many aspects of civil engineering with a special interest in the geotechnical/environmental aspects. Responsibilities have included projects involving Civil/Site Design; Geotechnical Design, Solid Waste Management Facility Design, including geosynthetic applications; hydrologic and hydraulic design; transportation/highway projects, including geotechnical

- WVU Eng. Building East Add. – Morgantown, WV
- PSC Admissions Bldg. Add. – Mineral County, WV
- GSC Health & Sciences Bldg. – Gilmer County, WV
- GSC Residence Hall – Gilmer County, WV
- Christy Street Office Building – Morgantown, WV
- Harry Green Nissan Dealership Building Add. – Harrison County, WV
- Elkins Dodge Dealership – Randolph County, WV
- Sam's Club Fueling Station – Clarksburg, WV
- Wal-Mart Fueling Station – Connellsville, PA
- Cheat Lake Elementary School Bldg. Add. – Monongalia County, WV
- Churchill Village Housing Project – Monongalia County, WV
- R.E. Michel HVAC Commercial Bldg. – Monongalia County, WV
- ICM Islamic Center – Morgantown, WV
- Catlettsburg Refining Company Alkylation and Wastewater Control Room – Catlettsburg, KY
- WVARNG Camp Dawson Fueling System – Kingwood, WV
- MEPCO Dock Expansion Project – Morgantown, WV
- West Run Student Housing – Morgantown, WV
- Fairmont Federal Credit Union – Bridgeport, WV
- Morgantown Waterfront Marina – Morgantown, WV
- Residence Inn – Morgantown, WV
- Suncrest Executive Office Plaza and Parking Garage – Morgantown, WV
- WVU Research Park – Morgantown, WV
- View at the Park Apt Complex – Morgantown, WV
- Marriott Hotel – Morgantown, WV
- Bucks Tavern – Morgantown, WV
- Stouts Run United Methodist Church Add. – Parkersburg, WV
- Fairfield Inn Hotel – Fairmont, WV
- Wendy's Restaurant – Morgantown, WV
- Sunoco Service Station – Robinson Township, PA
- St. Stephen Baptist Church – Morgantown, WV
- Islamic Center – South Charleston, WV
- Oak Hill Public Library – Oak Hill, OH
- Westside High School – Oceana, WV
- WVARNG Readiness Center – Summersville, WV
- Marshall Student Housing Facility – Huntington, WV
- Marshall Parking Garage – Huntington, WV
- Marshall Library – Huntington, WV
- Marshall Student Center Add. – Huntington, WV
- Marshall Jomie Jazz Center – Huntington, WV
- Marshall Child Care Center – Huntington, WV
- U.S. Equipment Distributors – Huntington, WV
- Pace Carbon Fuels WV #2 and #3 – Summersville and Eckman, WV
- WVU Luxury Box – Morgantown, WV
- Marshall Mid-Ohio Valley Ctr – Point Pleasant, WV
- Arbor Terrace Assisted Living – Charleston, WV
- Arbor Terrace Assisted Living – Huntington, WV
- Pocahontas County PSD WTP – Snowshoe, WV
- Pt. Marion Water Tank Replacement – Pt. Marion, PA
- Mon Gen Hospital/Access Road – Morgantown, WV
- Kasson Elem/Middle School Repair – Kasson, WV
- North Marion Vocational/Technical Center School Repair – Marion County, WV
- Mon County Public Office Bldg. – Morgantown, WV
- Cell Phone Towers in WV, PA, and MD
- EQT – Natural gas compressor stations pads and additions in Wetzel and Marion Counties, WV, and Monroe County, OH
 - EQT – Logansport Compressor Station Add.
 - EQT – Plasma Compressor Station Pad
 - EQT – Corona Compressor Station Pad
 - EQT – Gemini Compressor Station – Geotechnical Feasibility
 - EQT – Gemini Interconnect Pad
- Basic Systems, Inc. – Natural gas compressor stations pads and additions in Greene, Franklin, and Adams Counties, PA, and Wetzel and Randolph Counties, WV
 - Basic Systems, Inc. – Waynesburg Compressor Station Add.
 - Basic Systems, Inc. – Gettysburg Compressor Station Add.
 - Basic Systems, Inc. – Greencastle Compressor Station Add.
 - Basic Systems, Inc. – Files Creek Compressor Station Add.
 - Basic Systems, Inc. – Smithfield Compressor Station Add.
- Dominion Transmission – Crayne Compressor Station Add. in Greene County, PA
- Stone Energy – Marcellus Well Pad Sites in Wetzel County, WV:
 - Stone Energy – Mills Wetzel #3 Well Pad – Wetzel County, WV
 - Stone Energy – Conley Well Pad – Wetzel County, WV
 - Stone Energy – Langmyer Pad – Wetzel County, WV
- Mountaineer Keystone – Mackey-Wolfe Well Pad in Barbour County, WV
- Chesapeake Energy – Rayle Coal Co. Well Pad in Ohio County, WV
- Residential geotechnical projects in Charleston and Morgantown, WV
- EQT Midstream – Geotechnical recommendations for natural gas transmission lines including horizontal directional drilling projects:
 - H-310 Coal Refuse Area – Monroe County, OH
 - Harrison County HDD – Harrison County, WV

CHRISTOPHER A. GROSE, L.R.S.

Senior Engineering Associate



EDUCATION

- M.S. Geological Engineering, 1990
University of Missouri-Rolla
- B.S. Civil Engineering, 1988
West Virginia Institute of Technology

EMPLOYMENT HISTORY

- 1997-Present Potesta & Associates, Inc.
1994-1997 Terradon Corporation
1990-1994 GAI Consultants, Inc.
1989-1990 University of Missouri-Rolla
1989 Triad Engineering Consultants
(summer)
1988 West Virginia Institute of Technology
1983-1988 Clint Bryan & Associates Architects
(summers)

PROFESSIONAL REGISTRATIONS

Licensed Remediation Specialist – West Virginia

PROFESSIONAL CERTIFICATIONS

- Hazardous Waste Site Operations and Superfund Worker Protection Training
- American Red Cross Standard First Aid and CPR
- Troxler Moisture-Density Gauge

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- Association of Engineering Geologists
- Society of America Military Engineers

AREAS OF SPECIALIZATION

Geological/Geotechnical engineering related to subsurface exploration studies, soil and rock slope design, landslide causation studies, foundation system design, surface/subsurface hydrogeology, ground subsidence, contaminant transport, and groundwater flow modeling. Planning, designing, and permitting natural gas production well pads and access roads. Geological study of hazardous waste remediation sites, CERCLA/SARA, RI, and FS report compilation, geological and geotechnical aspects of siting and design of municipal and industrial waste landfills.

PROFESSIONAL EXPERIENCE

Expert Witness

Forensic study, expert testimony, and legal support related to the failure of numerous soil/rock slopes throughout West Virginia. This work included an extensive review of relevant project case documents, site reconnaissance visits, interviews with project personnel, and deposition testimony.

Lynn Elementary School – Technical insight and recommendations to attorneys representing an adjacent property owner related to the contributing factors related to the formation and continued failure of an excavated soil slope. The toe of the slope was excavated during the site development of the proposed elementary school site in Lynn, West Virginia.

Crichton & Crichton – Landslide formed along a wooded hillside below a residential driveway on Pleasant Lane in Wood County, West Virginia. The slope failure was noted during a substantial leak in an existing water main. The work included a review of case documents, interviews with various residents (plaintiffs in the case), and the development of supporting causation theory for the formation of the landslide. The work also includes the development of repair alternatives and associated construction estimates to be considered during the dispute hearing between the plaintiff and defendants.

Chesapeake Appalachia/Law Office of Jeffrey Mahal (R. Baker Natural Gas Production) – Provided technical study and file review of case documents related to the grading contractor's construction work efforts to prepare a well pad for the installation of a series of horizontal gas production wells in Marshall County, West Virginia. The work included the removal of soil and rock from an existing hilltop. The resulting material was placed or wasted in a series of three side hill fills along the edges of the resulting well pad. All three of these fills experienced progressive and ongoing failures following the construction effort. We reviewed design documents, construction records, and details related to several repair attempts to result in the development of a professional opinion related to the various factors contributing to the multiple slope failures.

Nationwide Trial Division/Khan & Wheeler (Ross v. WVAW Landslide Case) – Provided professional opinion related to the formation of a slope failure along the Elk River immediately behind several commercial and residential homes near the Town of Elkview, West Virginia. The initial landslide occurred immediately following a main waterline break along the front of the structures. The regressive and prolonged failure continued over several weeks and ultimately damaged a gravity sanitary line as well as several of the structures. Work included an extensive review of several years of case records provided for the case including a review of existing utility maintenance records, historic climatologic data, river stage information, and depositional testimony from many of the affected parties. A summary of a professional opinion report was prepared describing several factors including lack of maintenance storm culverts in the area as well as an increase of saturation along the slope from the failed water main as the cause of the slide. It was determined that several of the structures were supported on previously placed fill material which was placed along the river bank in the early 1900's in conjunction with the initial roadway construction. This coupled with the lack of maintenance and the presence of deteriorated drainage culverts likely contributed to the slope failure. The initial installation of this fill material was determined through an extensive study of the historic topographic mapping of the area.

Geotechnical

Responsible for the development of geotechnical and geological recommendations as well as the development of stabilization designs for many failed soil/rock slopes in

West Virginia. This work included initial site reconnaissance visits, the development of a subsurface exploration study and materials testing program, evaluation of stabilization alternatives, and construction plan preparation.

Travelers Insurance/City of Charleston – The Project included a subsurface exploration study, engineering design, and global stability evaluation of a failed soil slope in a residential neighborhood on Bona Vista Drive for the City of Charleston, West Virginia. The slide was caused by a water main break along an existing residential neighborhood paved roadway. The recommended slope stabilization method was to install a soldier beam and lagging retaining wall along an existing paved roadway (supporting the buried utilities) with the remainder of the failed slope below being removed and replaced with compacted soil backfill.

City of Charleston – Geotechnical assessment and development of regrading construction plans for the repair of a failed soil slope below Grandview Drive for the City of Charleston, West Virginia. The slope failure occurred between two adjacent residential structures and encompassed a sanitary sewer main as well as a storm drainage pipe receiving storm drainage from Grandview Drive. The stabilization plan involved the removal of the failed mass beginning at the toe of the slope and then working progressively upslope to result in a stabilized and regraded slope surface. The work required the removal of all failed material to the underlying rock surface and included the installation of a shot rock toe buttress which was installed along a natural topographic bench near the toe. Following completion of the work the affected utilities were installed either below the fill material or outside the regraded slide area.

Greer Industries Cheat River Quarry Haulroad – The project included the development of stabilization and repair recommendations for a failed soil slope which impacted a critical haul road utilized by the quarry operator to move raw shot rock material from the quarry to the crusher at the aggregate plant in Rowlesburg, West Virginia. The landslide occurred because of the failure of a cross-drainage culvert in the haul road. The failed soil mass was removed to the underlying bedrock and following the installation of a stone toe buttress and toe key, the material was blended with aggregate material from the plant and placed in compacted lifts. The underlying rock surface was excavated to result in a series of "bond benches" allowing for the installation of





Mineral County Commission

Facility Renovations and Additions

Description of Project:

The Mineral County Commission operates three primary buildings at the Courthouse Complex which are the Courthouse, the Judicial Annex, and Sheriff Building. Additional office space is provided via a second-story addition to the Sheriff Building with elevator access. The Courthouse gains a security checkpoint vestibule, egress stair, and elevator access to all three existing floors. The Judicial Annex improvements include the fitout of the existing second floor, an addition of a security checkpoint vestibule, egress stair, and elevator. The project includes fire alarm and sprinkler system installations for code compliance. The existing courthouse and annex structures are under the purview of the State Historic Preservation Office. Section 106 approvals were gained before construction began.

Construction Cost

\$8.5 Million

Project Size

40,000 SF Existing

10,500 SF New

Project Location

Keyser, WV

Construction Completion

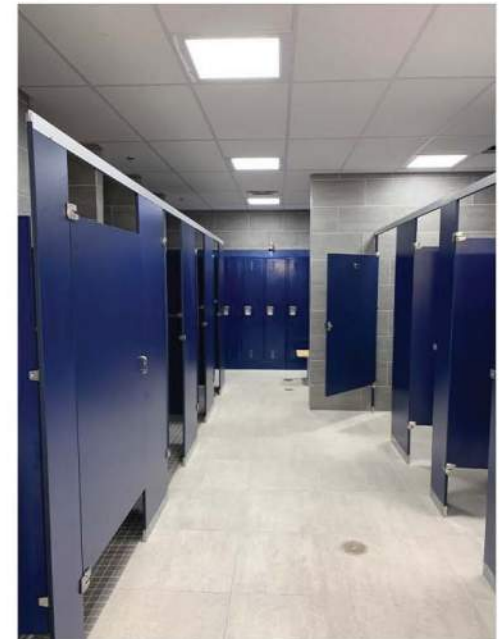
Spring 2025

Contact

Luke McKinzie

County Coordinator

304-788-5921



WVANG Bridgeport FWAATS Restroom Renovations

Description of Project:

In Partnership with Miller Engineering, Montum Architecture helped prepare renovated floor plans for two locker / shower rooms and two restrooms. The goal was to renovate the spaces to meet ADA guidelines and improve efficiency and utilization of the areas. As well as, choose appropriate finishes that bring these spaces into the modern era. The flooring on the first floor was also replaced under this project. MEI designed renovations to the plumbing, lighting, fire alarm, fire protection, electrical, and VAC systems to accommodate the changes to the floor plans. The existing boiler was replaced with two, high efficient, modulating boilers. The owner was pleased with the chosen finishes and plans to use these as a standard going forward.

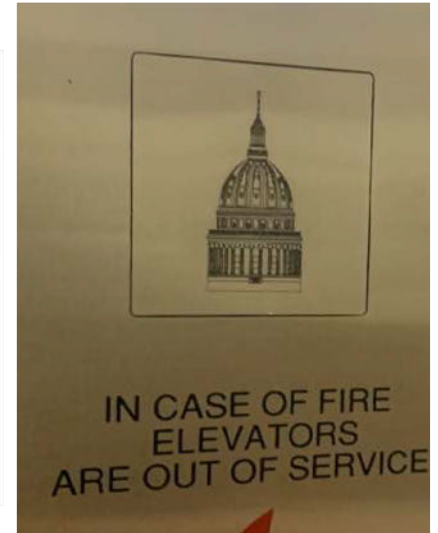
Construction Cost
\$1M

Project Size
1,400SF Renovated

Project Location
Bridgeport, WV

Construction Completion
May 2023

Contact
Jim Skaggs
WV ANG
(304) 561-6550



West Virginia General Services Division Various Elevator Modernizations

Description of Project:

Miller Engineering, Richard Kennedy & Associates, and Montum Architecture partnered for the project. They were tasked with evaluating 31 current elevator systems and developed modernizations for each in a three-phase project method. Modernizing the machine rooms and bringing the systems into compliance with as few or no deviations as possible is a key aspect in the scope of service. To ensure that State decision-makers better understand the findings, the team created a full report including discussions, projections, suggestions, an executive summary, and an elevator system "primer". Phase I included seven elevators at the West Virginia Capitol Building, two at WV Building 7, and two at WV Building 25. Work at the Capitol Campus was reviewed and approved by the Capitol Building Commission, including historic restoration and complimentary aesthetics in the WV Capitol Building. Phases 1 & 2 are currently in construction.

Construction Cost
\$20M

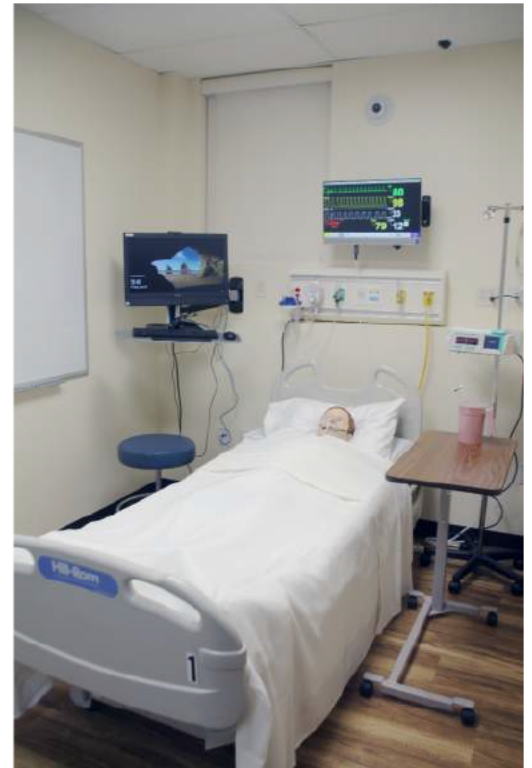
Project Size
N/A

Project Location
Charleston, WV

Construction Completion
In Construction

Contact
Pat O'Neill
Project Manager
WV General Services Division
112 California Ave
Charleston, WV
304-957-7133
Patrick.s.oneill@wv.gov

POTOMAC STATE COLLEGE BACHELORS IN SCIENCE OF NURSING RENOVATION



West Virginia University - Potomac State College received the former National Guard Armory in 2016. In addition to recreational facilities, the newly named J. Edward Kelley Center will house the 4-year WVU School of Nursing BSN program. The project converted former meeting spaces into demonstration nursing laboratories and lecture spaces. Office spaces were renovated. Electrical and HVAC systems were updated to meet the new needs.



COMPLETED: 2018

BUDGET: NOT DISCLOSED

SIZE: 3,900 SF RENOVATED

LOCATION: KEYSER, WV

CONTACT:
Mike Simpson
Director of Facilities
304-788-6886

Montum Architecture, LLC

37 ER Path, Keyser, WV 26726 ● 304-276-7151 ● tom@montumarch.com ● montumarch.com



Before



After

Aging and Family Services of Mineral County Keyser Senior Center

Description of Project:

Aging and Family Services of Mineral County contracted Montum Architecture to design a single-story addition and renovate the existing building, which was previously a Pizza Hut. The addition included a 39-foot expansion to the front of the building, housing the new kitchen, dining room, office, and accessible restrooms. The renovated space was converted into the pantry, overflow dining, and conference space. The building's exterior was updated with new windows and stone veneer to create a more inviting look.

Construction Cost
\$961,000

Project Size
2,000 SF Renovated
2,000 SF Addition

Project Location
Keyser, WV

Construction Completion
August 2022

Contact
Scott Mallery
875 S Mineral St
Keyser, WV 26726
(304) 788-5467



Plum Orchard Wildlife Management Area Maintenance Building

Description of Project:

West Virginia Division of Natural Resources contracted Montum Architecture to design a versatile building to support the efficient operations and upkeep of the wildlife management areas. This facility will serve as a hub for storing equipment, providing office space, accommodating overnight stays, and offering basic amenities for staff. Of the 3,700 sf building is 2,100 SF is unheated bay space while 690 SF is heated bay space. Miller Engineering was sub-consulted on the project and designed the MEP drawings. Arrow Engineering was sub-consulted and designed the structural drawings, which included the metal building design, foundation, and concrete slab design to withstand the storage equipment loads.

Project Size
3,700 SF

Project Location
Scarbro, WV

Project Status
Ready For Bid

Contact
Edward L Raines
DNR Project Manager
304-558-2764
edward.l.raines@wv.gov

Project Experience: MEP

Cacapon Lodge Addition & Renovation

Services Provided:

- Electrical
- Plumbing
- HVAC
- Fire Alarm
- Fire Protection
- Pool

Estimated Budget: \$26M

Facility Area: 113,000 sq ft

Owner: WV Department of Natural Resources



Miller Engineering teamed with Paradigm Architecture to design the addition to the lodge at Cacapon State Park. The addition includes approximately 80 guest rooms, new kitchen and dining areas, a spa, indoor pool, and support spaces. The boiler system was replaced with new efficient modulating boilers and a chiller was added.

New chilled and hot water piping was installed to allow for simultaneous heating and cooling of the lodge. The electric service was upgraded with a new main electric room in the addition with distribution panels throughout. All lighting was replaced with efficient LED fixtures. The fire protection system was upgraded and extended to the new addition.

Project Contact:

*Bradley S. Leslie, PE, Assistant Chief
WVDNR State Parks Section
(304) 558-2764 ext. 51826*

Descriptions of Past Projects Completed – Code Evaluation

Tri-State Airport

Services Provided:

- Code Compliance Evaluation

Estimated Budget: N/A
Facility Area: 20,000 ft²



Project Contact:
Ed Tucker, AIA
Edward Tucker Architects
(304) 697-4990

Miller Engineering was contacted by the client's architect with a request to perform a National Electrical Code compliance evaluation of the Terminal Building at Huntington's Tri-State Airport. The request was due to a recent kitchen fire which the West Virginia State Fire Marshall's Office believed likely had its root cause in the kitchen electrical wiring. The terminal had been constructed in phases over many years and the concern was that no one had looked at the "entire picture" related to work by successive contractors over many years. MEI was retained to perform this evaluation, and conducted a thorough facility evaluation in short order on short notice. While the evaluation was principally focused on electrical systems, plumbing and HVAC systems deficiencies were also noted as a courtesy. MEI coordinated its findings with the owner and WV State Fire Marshall, including a recommended course of action to correct code issues and concerns.

Descriptions of Past Projects Completed – New Construction

WVANG Challenge Academy Maclin Hall MAU Replacement

Montgomery, WV

Services Provided:

- Mechanical
- Electrical
- General Trades

Construction Cost: \$496K

Owner: WVANG



MEI was tasked with replacing two failing make-up air (MAU) units at Maclin Hall. The units provide ventilation air for the facility. The MAU replacement involved installing new rooftop mounting curbs and replacement on rooftop mounted ductwork. New exhaust fans were installed on the roof and tied to the existing exhaust / relief air systems. New electrical feeds were installed to the new MAUs and fans. Montum Architecture assisted with the addition of rooftop railing to improve worker safety and the replacement of roof hatches and access ladders. The project was completed in January 2024 with no disruption to Challenge Academy operations.

Project Contact:

Jim Skaggs

WV ANG

(304) 561-6550

Descriptions of Past Projects Completed – Fire Protection

Camp Dawson FMS4 Fire Protection

Kingwood, WV

Services Provided:

- Fire Protection

Budget: \$130K

Facility Area: 7,400 sq ft

Owner: WVARNG



FMS4 is a vehicle and equipment repair facility located on the Camp Dawson Army National Guard base located near Kingwood, WV. The 7,400 square foot facility includes 4,800 square feet of high bay service area, with the remaining area dedicated to office space, storage, and locker rooms. The facility contains bulk storage of oil and other equipment fluids, requiring fire protection. MEI was tasked with designing a fire protection system which would provide adequate coverage of FMS4 and meet applicable codes. Through research of NFPA 30 and NFPA 13, MEI was able to determine the size of the service and coverage requirements. MEI determined that by providing separation of the bulk storage from the rest of the facility, the fire protection service requirements could be reduced, eliminating a water service upgrade by the utility. Montum Architecture was brought on board to provide architectural support in regards to the separation of the bulk storage room and for the construction of the sprinkler room. The project was successfully completed in December 2019, one month ahead of schedule.

Project Contact:

Jim Skaggs

WV ARNG

(304) 561-6550

PROPOSED MAILROOM BUILDING CAMP DAWSON

*ZMM Architects and Engineers
Kingwood, Preston County West Virginia*

Potesta & Associates, Inc. (POTESTA) performed surveying and geotechnical engineering services for a project that consisted of site work and construction of proposed mailroom building located at the Camp Dawson Facility in Kingwood, Preston County, West Virginia. The subsurface investigation included geotechnical borings, laboratory testing, and a geotechnical report with foundation and site recommendations. POTESTA also performed private utility location services and topographic surveying services for the proposed project.



POTESTA & ASSOCIATES, INC.

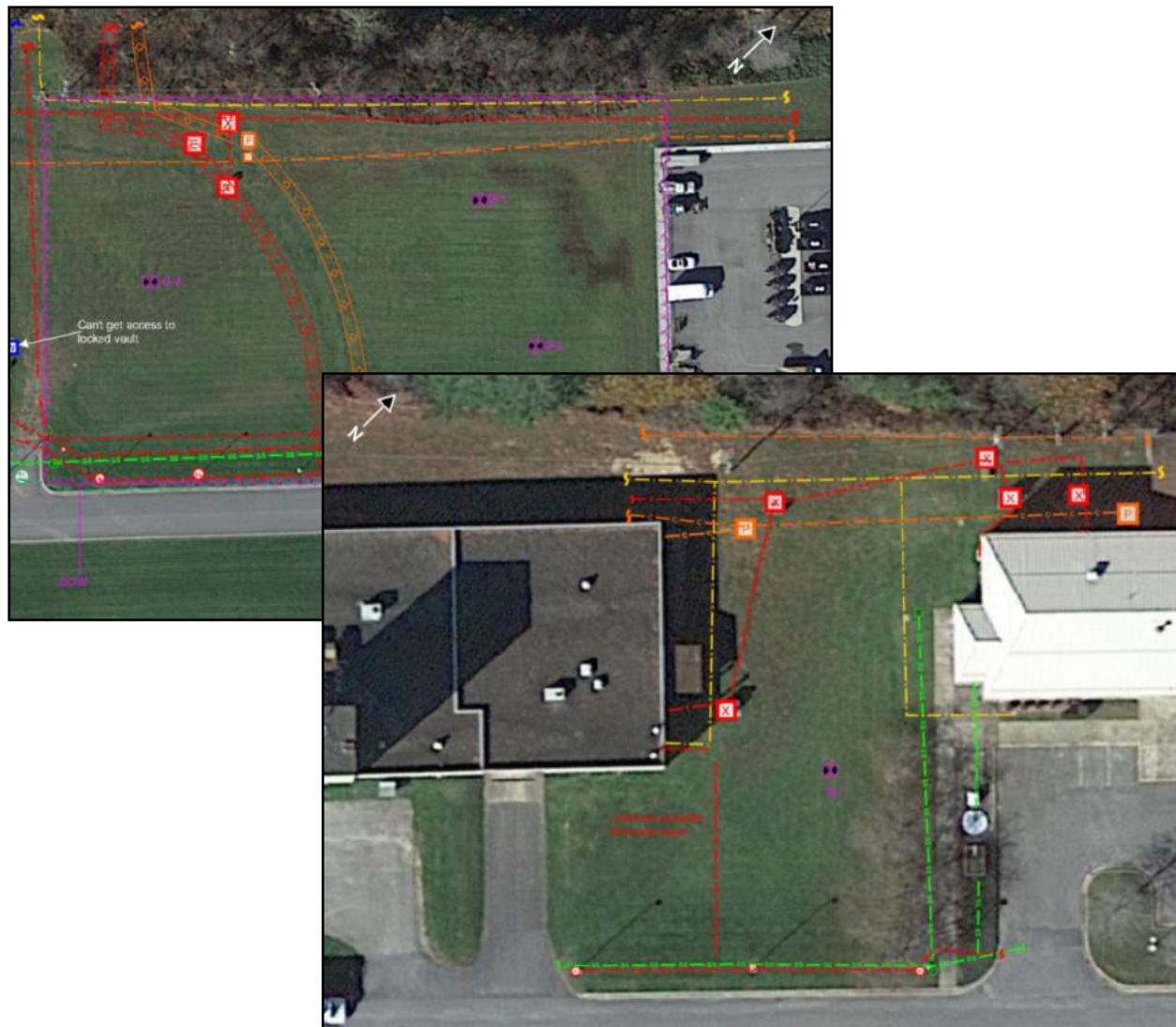
Charleston, WV • Morgantown, WV • Winchester, VA

Phone: (304) 342-1400 • Fax: (304) 343-9031 • www.potesta.com

STUDENT TRAINING FACILITY BUILDINGS CAMP DAWSON

*ZMM Architects and Engineers
Kingwood, Preston County West Virginia*

Potesta & Associates, Inc. (POTESTA) performed surveying, engineering, geotechnical services for a project that consisted of site work and construction of two buildings designated as Site 1 (approximately 0.75 acre) and Site 2 (approximately 2 acres) located at the Camp Dawson Facility in Kingwood, Preston County, West Virginia. The subsurface investigation included geotechnical borings, laboratory testing, and a geotechnical report with foundation and site recommendations. POTESTA also performed private utility location services and topographic surveying services for the proposed project.



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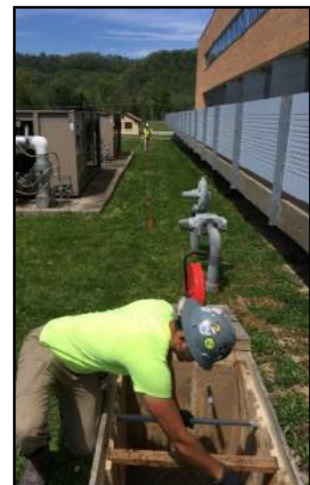
Phone: (304) 342-1400 • Fax: (304) 343-9031 • www.potesta.com

UNDERGROUND UTILITY LOCATION PROJECT WEST VIRGINIA ARMY NATIONAL GUARD CAMP DAWSON FACILITY

*ZMM Architects and Engineers
Kingwood, Preston County, West Virginia*

Potesta & Associates, Inc. (POTESTA) performed private utility locations, surveying, and engineering services for the existing utilities within an approximate area of 150 acres at the West Virginia Army National Guard's (WVARNG) Camp Dawson facility in Kingwood, Preston County, West Virginia. The project consisted of locating the existing aboveground/underground utilities and providing construction documents to assist with relocating the existing above ground utilities to underground.

Initially POTESTA met with the WVARNG to review existing mapping and utility plans for the facility. POTESTA then utilized a subcontractor to provide private utility locating services using geophysical methods including Electromagnetic (EM) scanning and Ground Penetrating Radar (GPR) for the underground electric, water, communications, storm sewers, sanitary sewers, and gas lines. Simultaneously, POTESTA's survey crews located flags from the underground utility locations as well as locations of above ground utilities and appurtenances. Following data collection, POTESTA prepared an existing utility map showing the location of verified existing aboveground and underground utilities.



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GEOTECHNICAL AND CIVIL SITE DESIGN

STONERISE HEALTHCARE

EASTBROOK ADDITION

Stonerise Healthcare
Charleston, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Stonerise Healthcare (Stonerise) to provide geotechnical evaluation and site development services for an approximate 38,000 ft² addition to the existing Eastbrook facility in Charleston, West Virginia. POTESTA first performed a subsurface exploration, which included seven subsurface test borings. POTESTA then prepared the civil site design plans while working closely with the Stonerise architect, as well as the City of Charleston. There were many aspects to this project in which creative solutions were used to work within tight parameters associated with this site. Some of the tasks associated with the geotechnical exploration and civil site design are listed below:



- Designing a box culvert to cover up 275 feet of stream with minimal cover allowed for a parking lot.
- The design of a 120-foot segmental retaining wall.
- Working with the City of Charleston and West Virginia Department of Environmental Protection (WVDEP) to acquire proper permits associated with the addition.
- Design of a new ambulance entrance under tight restrictions associated with planned location and proximity to Chesterfield Avenue.
- Evaluation of the sanitary line with restrictions associated with minimal slope, the box culvert, existing tie in location, and existing buildings connection.

POTESTA prides itself on working closely with the client to deliver a product that POTESTA and the client are happy with. POTESTA has worked on many other similar projects for Stonerise and continues to do so.



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WVDOH WEBSTER COUNTY HEADQUARTERS

ZMM Architects & Engineers Webster County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by ZMM Architects & Engineers to provide surveying, civil/site design, geotechnical engineering, and related services for the construction of the West Virginia Division of Highways (WVDOH), District 7, Webster County Maintenance Headquarters situated on an approximate 14-.5-acre parcel near the community of Bolair, West Virginia. WVDOH utilized their medium-sized prototype plans for this project which consisted of an office suite, three vehicle maintenance bays, and a dedicated wash bay.



The initial site was rough graded by the WVDOH, including clearing and grading operations at the site which were required to establish an access road, installation of a new concrete box culvert in Sandy Run, and the grading of two-level terraces in support of the proposed construction.

POTESTA performed the following services:

- Utilized the previous survey to prepare a new topographic survey and base map of the planned development construction documents.
- Provided field technician to provide full-time direction and evaluation of the soil and rock samples during subsurface exploration.
- Preparation of a Geotechnical Report including a general description of the site, site drainage conditions, a brief description of the subsurface soil conditions encountered, and foundation recommendations.
- Development of a site layout plan to indicate the location and orientation of the planned 10,360-square-foot buildings, pedestrian walkways and sidewalks, access drives, parking lot, drainage structures, truck and equipment parking, and storage areas. The site design also included a paving plan for the loads expected from the various vehicles.
- Preparation of site grading plan to provide the proposed site's finished grade elevations with spot elevations and contours, finished floor elevations of the planned structures, parking lot grades, site drainage features, sidewalks, etc.
- Coordination with local utility providers and preparation of utility design plans and profiles.
- Preparation of stormwater management plan.



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GEOTECHNICAL ENGINEERING FOR PARK PLACE DEVELOPMENT

*South Charleston Development Authority/City of South Charleston
South Charleston, West Virginia*

Potesta & Associates, Inc. (POTESTA) was selected by South Charleston Development Authority/City of South Charleston as the design engineers for the development of Park Place, a 500,000 square-foot retail, entertainment, and food/beverage development on a former fly ash disposal and former manufacturing plant in South Charleston, West Virginia. The fly ash disposal basin area encompasses approximately 38 acres. The condition and physical characteristics of the fly ash material contained in the pond required geotechnical engineering ground improvements prior to construction to allow the property to be developed.



The property is regulated by the West Virginia Department of Environmental Protection (WVDEP) due to its history as a former chemical manufacturing and waste disposal facility. The fly ash pond was remediated under the Voluntary Remediation Program of the WVDEP; therefore, certain requirements had to be met before land disturbance and subsurface exploration activities take place. These requirements included preparation of a health and safety plan, preparation of a soil management plan, and implementation of special drilling techniques to avoid contamination of soil and groundwater below the bottom of the fly ash basin.

POTESTA completed the following geotechnical engineering services:

- Subsurface exploration and sample collection plan to characterize the fly ash contained in the pond and the natural soils under the fly ash.
- Geotechnical Report including evaluation of the anticipated consolidation settlement of the fly ash and underlying soils with recommendations for ground improvement measures.
- Grading plan for excavation and removal of 900,000 cubic yards of soil and rock from a borrow site.
- Preparation of soil sampling plan to verify the soils to be removed were acceptable.
- Construction monitoring of the placement of an approximate 10-foot-thick layer of engineered fill over the fly ash material to support the proposed development and the installation of a triangular arrangement of wick drains at various spacings completely through the fly ash and down to the lower part of the alluvium soil layer to enhance dewatering and shorten the settlement time.



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Select Project List Municipal & Government

Residential | Commercial | Industrial

Arrow Engineering has experience as the design engineer, Engineer of Record, or project manager for the following municipal and government projects:

Spencer Middle School

Spencer, WV

Lewisburg Fire Station

Lewisburg, WV

Bridgeport Fire Station

Bridgeport, WV

Webster County High School

Rooftop HVAC Renovation

Webster County, WV

Fairmont-Marion Transportation

Authority Bus Terminal

Fairmont, WV

United Way Structural Repair

Morgantown, WV

Morgantown Courthouse Elevator Upgrade

Morgantown, WV

Child Advocacy Center

Morgantown, WV

Marilla Park Slide Foundation Repair

Morgantown, WV

Light Pole Replacement

WV Division of Highways

Charleston, WV

Steam Vault In-Service Replacement Plan

Morgantown Energy Associates

Morgantown, WV

Dorsey Knob Cabin Renovation

Morgantown, WV





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

Proc Folder: 1487701

Doc Description: Building 307 Parachute Maintenance Shop Design- Camp Dawson

Reason for Modification:

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2024-08-12	2024-08-26 13:30	CEOI 0603 ADJ2500000005	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code: VS0000013207

Vendor Name : Montum Architecture, LLC

Address : 55

Street : ER Path

City : Keyser

State : West Virginia

Country : USA

Zip : 26726

Principal Contact : Thomas Pritts, AIA

Vendor Contact Phone: 304-276-7151

Extension:

FOR INFORMATION CONTACT THE BUYER

David H Pauline
304-558-0067
david.h.pauline@wv.gov

**Vendor
Signature X**

FEIN# 82-1385831

DATE August 26, 2024

All offers subject to all terms and conditions contained in this solicitation

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Thomas Pritts, Member

(Address) 55 ER Path, Keyser, WV 26726

(Phone Number) / (Fax Number) 304-276-7151

(email address) tom@montumarch.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

Montum Architecture, LLC

(Company)

(Signature of Authorized Representative)

Thomas Pritts, Member

(Printed Name and Title of Authorized Representative) (Date)

304-276-7151

(Phone Number) (Fax Number)

tom@montumarch.com

(Email Address)