



WEST VIRGINIA STATE
UNIVERSITY

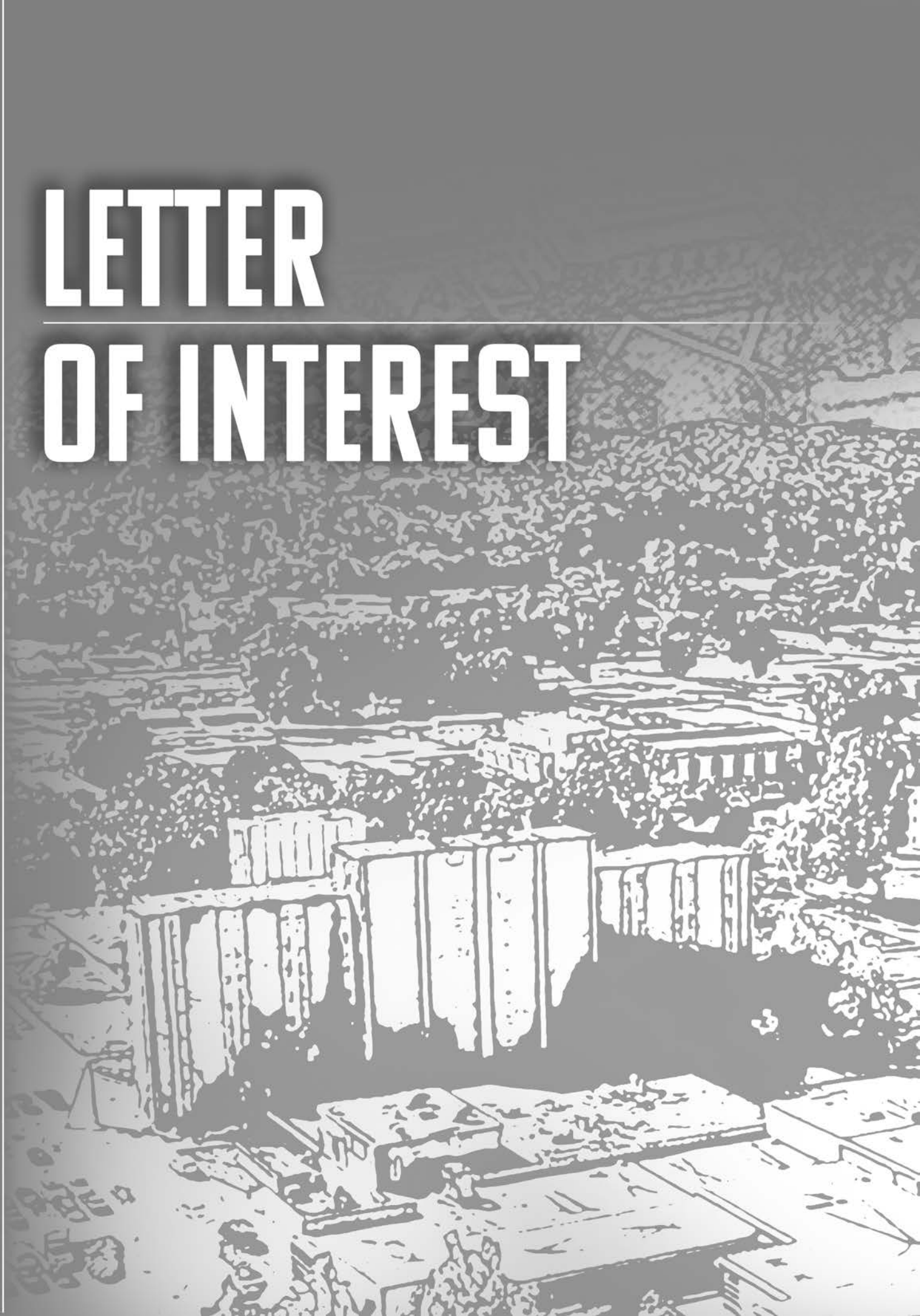
EXPRESSION OF INTEREST

ARCHITECTURAL & ENGINEERING DESIGN SERVICES

SULLIVAN HALL

 MILLS GROUP
ARCHITECTURE • PLANNING • PRESERVATION

LETTER OF INTEREST



March 12, 2024

West Virginia State University

Attn: Jerry D. Rush

Jerry.rush@wvstateu.edu

5000 Fairlawn Avenue

Ferrell Hall Room 301

Institute, WV 25112

Subject: Re: AEOI 2400000002- A&E Services – WVSU Sullivan Hall Renovation Project

We are pleased to submit our proposal to provide Architectural and Engineering Design Services for WV State University's Sullivan Hall. Our team has been executing master plans, overseeing design, rehabilitation, and coordination for a multitude of higher education and affiliated projects for over 18 years. We have a dedicated staff that is well versed in higher education, ready to assist with this contract who value the design process, budgetary requirements, and project deadlines.

Our partners on this contract have extensive experience and exposure within the Higher Education system. The caliber of talent of the Mills Group team will be an asset to your project. Success stories include:

- D&E College: New Freshman Residence Hall- Elkins, WV
- West Liberty University: Master Plan- West Liberty, WV
- D&E College: Myles Center for the Arts & Myles Plaza- Elkins, WV
- West Liberty University: Media Arts Center- West Liberty, WV
- WV North Community College: Applied Technology Center- Wheeling, WV

These projects are the result of effective and clear communication between the team and the client to ensure timeliness and adherence to the project budget. We have a dedicated staff ready to assist with this project who value the design process, the importance of open and frequent communication with our clients, budgetary requirements, and project deadlines.

It is the mission of the Mills Group to "Design on the principles of the past and preserve for the future". This project directly aligns with our passions and expertise!

M I L L S G R O U P O N L I N E . C O M

88 HIGH STREET
MORGANTOWN, WV 26505
304-296-1010

53 14TH STREET, SUITE 607
WHEELING, WV 26003
304-233-0048

122 E GERMAN STREET
SHEPHERDSTOWN, WV 25443
681-240-1010

102 THIRD STREET
ELKINS, WV 26241
681-264-8045

Proposed Staffing Plan

Michael Mills, AIA is the Managing Principal of the Mills Group. Michael's architecture experience ranges over three states and the District of Columbia. He will provide guidance to ensure that the projects are on time and on budget and serve as the client manager and project Principal.

Ryan Hess, AIA, LEED AP and Principal of Mills Group will serve as the lead Architectural Designer.

Jim King, AIA, LEED AP will serve as the project manager. Jim's institutional experience at the West Virginia Higher Education Policy Commission will be an asset to the team.

Larry Zdinak, PE, of Barton Engineering has extensive expertise in the higher education system and will serve as the MEP Engineer.

David Fyffe, PE, is the Principal and President of Seal Engineering and will lead the exterior envelope and waterproofing portion of the scope.

Michael Howell, PE, is the President of Arrow Engineering and will serve as the Structural Engineers.

Project Team

Mills Group specializes in architecture with a team of talented architects and planners. Our firm's frequent and open dialogue with clients and regulatory agencies allows for streamlined project review and accurate results.

Barton Engineering will serve as the MEP engineers with over 1,500 higher education projects completed.

Seal Engineering will serve as the engineers focusing on the exterior envelope and waterproofing with over 44 years of experience.

Arrow Engineering will serve as the structural engineers. With over 20 years of experience, Arrow provides reliable and full-service engineering support.

Scope of Work

The RFQ scope of work is understood:

- Objective 1: Review existing plans and conditions as well as the operation of the facility and evaluate while communicating effectively with the owner to determine a plan that can be implemented in a manner that will minimize disruption to concurrent operation of the facility and meet all objectives.
- Objective 2: As a portion of this process outlined in Objective 1, provide all necessary services to design the facilities described in this EOI in a manner that is consistent with West Virginia State University needs, objectives, current law, and current code; while following the plan to design and execute the project within the project budget.

- Objective 3: Provide Construction Contract Administration Services with competent professionals that ensures the project is constructed and functions as designed.

Methodology

Our team takes pride in the firm's reputation for producing quality designs on projects large and small with the end goal of a completed project that meets or exceeds the client's expectations. Mills Group architects, planners and designers will draw on our reservoir of experience – gleaned over decades and multiple states – to comprehend client needs and produce a design that we will lead to success at every step we can be relied on to keep all pertinent stakeholders abreast of developments. We pride ourselves on having open and transparent conversations with our clients to ensure they are involved throughout the entire design process. The end goal is to work with the WV State University and all other stakeholders to deliver a strategic plan for improvements and renovations.

Our first step would be comprehensive conversations with all the relevant stakeholders coupled with site visits to assess conditions and develop a more defined scope of work for the initial assessment. It would be important to understand the programmatic goals, the building infrastructure goals and requirements of any future project.

Once we have a defined scope and understanding of the existing conditions, we will then be able to provide a complete construction estimate for the project with a recommended approach and secondary alternates that might be structured as future deductive bid alternates. This will give us the basis needed to propose a definitive timeline for major project milestones. Sustainability and preservation assessment, code, life safety and zoning evaluations will be part of the scope. Precedent and product research will lead to design concepts, construction documents, bidding and negotiations. Supervising the construction will be the culmination of all this work in later phases.

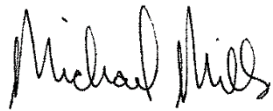
The overarching methodology to achieve the project objectives as agreed upon by the client are summarized in the following bullet points:

- *Research the site and its context*
- *Observe Existing Conditions*
- *Analyze and Identify Issues and Opportunities*
- *Develop Alternatives*
- *Make Recommendations and Creating a Solution*
- *Assemble Construction documents*
- *Provide assistance with bidding and execute construction observation*

For Mills Group, the ROADMAP, is a critical path to achieve the success of an existing structure project. The process outlined above is subject to change, based upon phasing of the work to be performed. Mills Group will work with the WV State University to determine appropriate phasing of different scopes, as to not greatly disrupt the function of any facilities.

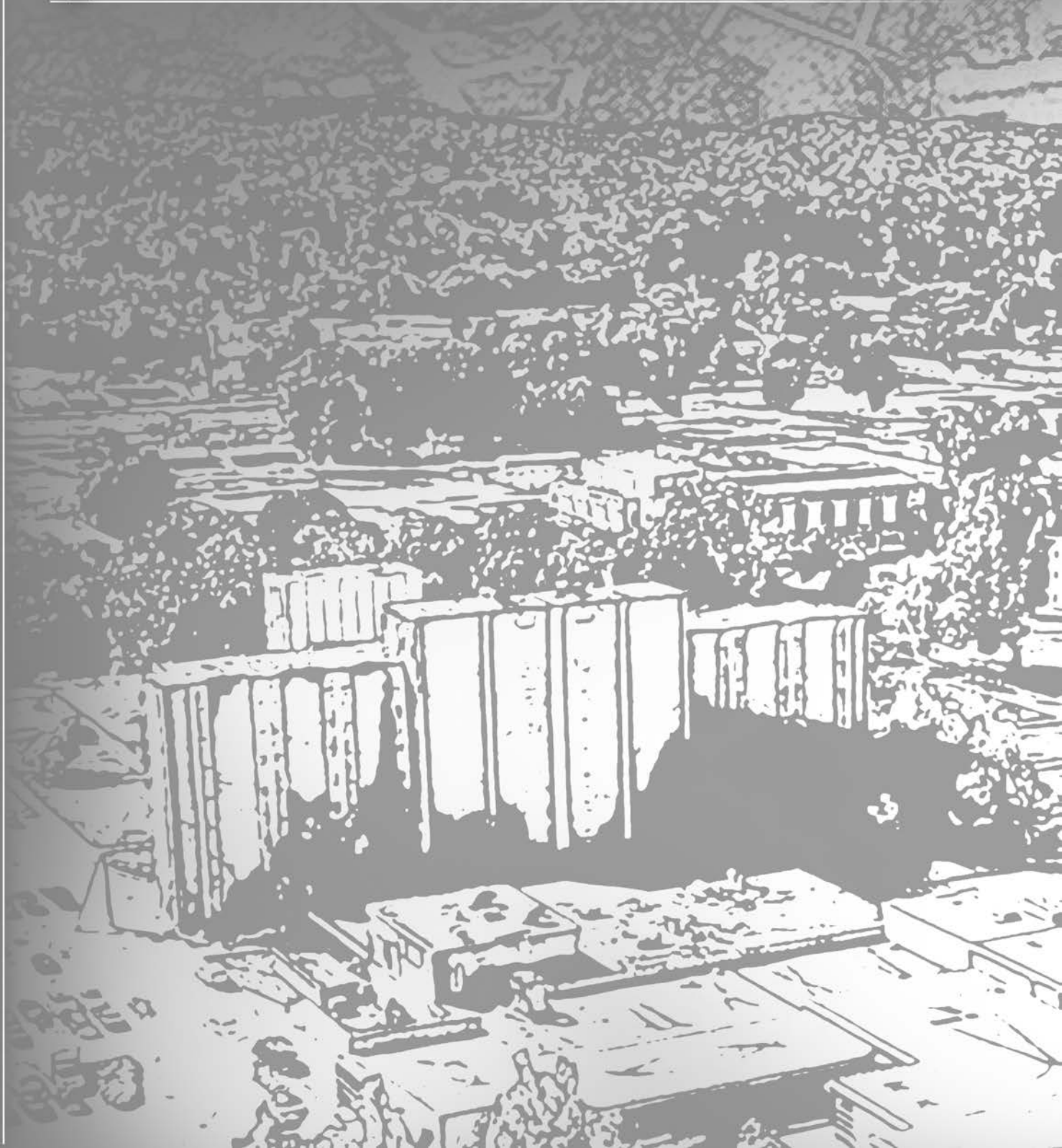
Please find attached our firm and team member resumes, along with examples of our work. We would be honored to aid the WV State University for the Architectural and Engineering Design Services for the Sullivan Hall Renovations. Should you have any questions, please feel free to contact me at 304-296-1010 or email me at mmills@millsgrouponline.com.

Sincerely,

A handwritten signature in black ink that reads "Michael Mills". The signature is written in a cursive, flowing style.

Michael Mills, AIA, NCARB
Managing Principal

QUALIFICATIONS





MILLS GROUP
ARCHITECTURE ■ PLANNING ■ PRESERVATION

“Designing on
the principles
of the past and
preserving
for the
future”

LOCATIONS:

88 High Street
Morgantown, WV 26505
304.296.1010

53 14th Street, Suite 607
Wheeling, WV 26003
304.233.0048

122 E German Street
Shepherdstown, WV 25443
681.240.1010

102 Third Street
Elkins, WV 26241
681.264.8045

SITE:

millsgrouponline.com

For more than 18 years, the architects, designers, planners and historians of the Mills Group have collaborated with our clients to improve communities through the latest design techniques while preserving the rich architectural character of the past. This blend of modern technology and story-telling makes for timeless, inspired design.

We know that the most successful projects are built on collaboration with our clients, team and partners. Open and honest communication combined with a detailed site plan that accounts for all potential variables is key to success. We look to the region's architectural heritage for inspiration to celebrate the best of the past and to promote economic vitality for the future.

Mills Group specializes in both public and private projects. Our public clients include cultural agencies, development offices, municipalities, schools, and non-profits. Other architects and engineers, developers, homeowners, and business owners are among our private clients.

We are committed to designing with our clients, not for our clients. Understanding and respecting your needs, schedule and budget are of the highest priority to us. We are also committed to understanding the history of the building or place and how that plays into the design. These contextual concerns make all the difference in creating truly special places.



Mills Group maintains offices in Morgantown, Wheeling, Elkins, and Shepherdstown, West Virginia. Our new office in downtown Morgantown is a reflection of our commitment to community and the adaptive re-use of existing buildings; the team works closely together to create truly special places for our clients and their communities.

Architecture

COMMERCIAL
RESIDENTIAL
PUBLIC

Planning

ENABLE
EXTEND
ENHANCE

Preservation

REVITALIZE
REHABILITATE
CONSULT

Mills Group has a holistic focus in architecture, assisting clients with residential, commercial, public, and interior designs. We work with our clients to create structures that improve their lives and their communities. Every project is developed with an emphasis on traditional design principles, vernacular design influences, and long-term sustainability.

Our clients entrust us with creating a well-researched and detailed plan that will foster a rich and engaging environment for people to live, work, and play. We carefully consider the complex interaction of functional, economic, and social needs of our clients, while also providing the needs of the site's users.

Buildings tell the story of our past and each building provides a unique set of requirements and conditions to share that story. Sensitive and responsible preservation and restoration work must be responsive to the historic significance of the building. We perform historical research and assess existing conditions, and we compile our findings into a comprehensive feasibility study and/or historic structures report for the owner to implement planning for the next phase of use for the building.

WHY BARTON

- 55+ Years' Experience
- 80+ Higher Education Clients
- 1500+ Higher Education Projects

ABOUT US

Our education team has provided quality engineering solutions to more than 80 higher education clients and completed more than 1,500 projects. We understand that higher education projects are often highly sensitive and complex in nature and require a customized engineering approach. Barton has an extensive portfolio of state-of-the art facilities including research laboratories, academics, campus life, performing art centers, athletics, student housing and food services. We understand that without the proper infrastructure in place, providing an environment conducive to achieving the institution's mission is not possible. Our history of working with many repeat clients since our inception in 1968 is a testament to our commitment to technical accuracy and customer service. We apply focus, dedication, practicality, precision and longevity to each project we deliver and live by these principles to help us achieve our mission—**We Make Buildings Work.**

Barton Associates, an employee-owned company, provides quality engineering solutions for clients throughout the Mid-Atlantic Region with office locations in York, State College, Pittsburgh, Raleigh, and Cherry Hill. Our team of registered professional engineers, designers, technicians and support staff do more than just design MEP and architectural lighting systems. We offer a holistic approach to any new construction, addition or renovation project ranging from energy studies and facility master planning to systems design and sustainability. Barton considers ways to minimize energy consumption, conserve resources and enhance indoor environmental quality for every project we complete. Energy Conservation is a priority in every design and our staff of professionals are trained, licensed and/or certified to design MEP systems and evaluate the performance of these systems. We also utilize building information modeling for greater team collaboration.

PERSONNEL

- 103 Total
- 38 Registered Engineers
- 36 Designers
- 5 CADD/BIM Technicians
- 6 Construction Services
- 10 Administrative
- 8 Interns

Whether we are serving as the prime professional or as a sub consultant to an architectural, engineering, contracting, construction management or other professional firm, Barton provides an extensive list of services:

SERVICES

- Feasibility Studies, Facility Assessments & Master Planning
- Energy Modeling, Life Cycle Costs & Payback Analysis
- Construction Cost Estimating
- Construction Drawings & Specifications Preparation
- Construction Contract Administration
- Peer Review Services
- Trouble-shooting existing Systems and Components

MECHANICAL SYSTEM DESIGN

- Heating, Ventilation, and Air Conditioning (HVAC) Design
- Central Plant Design
- Cogeneration Systems
- Building Automation System Design
- Energy Analysis
- Mechanical System Troubleshooting

ELECTRICAL SYSTEM DESIGN

- Lighting and Lighting Controls
- Power Distribution Systems and Studies
- Information Technology Design
- Fire alarm and Security System Design
- Nurse Call System Design

PLUMBING SYSTEM DESIGN

- Domestic (potable) Water Systems
- Sanitary and Storm System Design
- Medical Gas Systems
- Laboratory Plumbing Systems
- Fire Protection System
- Fuel Gas Systems

ARCHITECTURAL LIGHTING DESIGN

ENERGY SERVICES & SUSTAINABLE DESIGN





SEAL ENGINEERING, INC.

“Providing professional services related to roofing, waterproofing and the building envelope as a whole”

LOCATION :

3323 Duke Street
Alexandria, Virginia 22314
P - 703.823.6366
F - 703.823.2890

SITE :

SEAL-ENG.COM

Established in 1980, Seal Engineering's professional staff consists exclusively of civil engineers and structural engineers. Professional engineers are registered to practice in the Commonwealth of Virginia, Maryland, the District of Columbia, and West Virginia. All staff engineers are trained, experienced and licensed to operate laboratory and nondestructive materials testing equipment.

We pride ourselves on careful and thorough investigations and reports. Our recommendations and designs emphasize maintenance and repair whenever possible to maximize the service life of the building envelope. We recommend replacement only when it is clearly the most practical and economical alternative. Also, our engineering services have proven successful in the bidding process, where our sound, clear and practical designs and bid packages have obtained truly competitive bids. For special assistance beyond our capabilities, we work closely with several architectural and engineering firms, materials consultants and testing laboratories.

Seal Engineering, Inc. is a civil-structural engineering firm dedicated to providing professional engineering services in the following areas:

- Low and steep sloped roofing
- Terrace, plaza deck and below-grade waterproofing
- Building facade, concrete, masonry, window and sealant restoration
- Parking garage and balcony restoration
- Site drainage and paving system improvements






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**

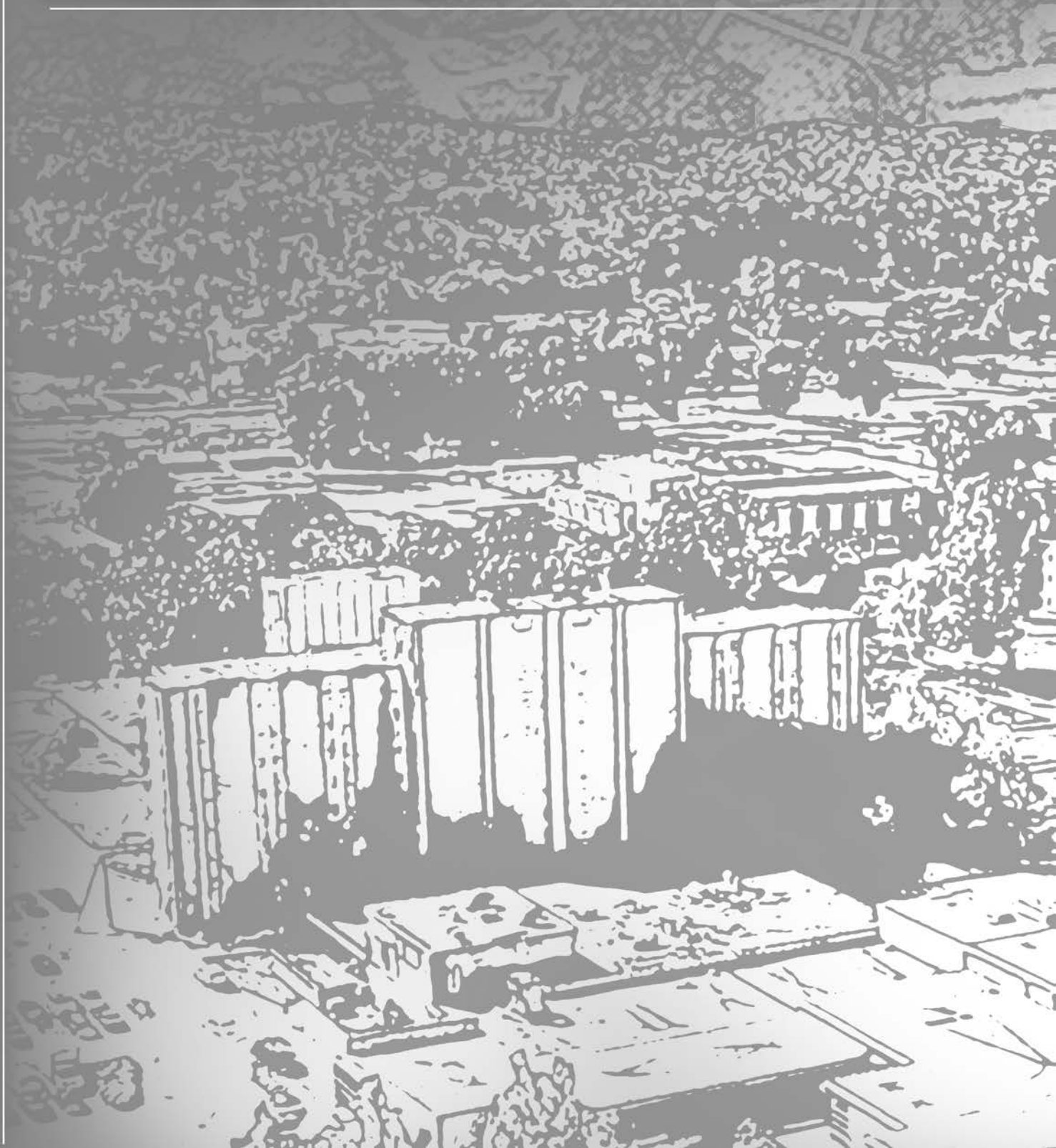
Arrow Engineering

info@arwgcg.com

www.arwgcg.com

304-276-1296

RESUMES





Michael Mills

AIA, NCARB

MANAGING PRINCIPAL

EDUCATION

BS, BARCH / 1993 / RENSSELAER
POLYTECHNIC INSTITUTE

PROFESSIONAL REGISTRATIONS

WEST VIRGINIA
VIRGINIA
OHIO
PENNSYLVANIA
MASSACHUSETTES
NORTH CAROLINA
NEW HAMPSHIRE
VERMONT

BIOGRAPHY

Mr. Mills leads all facets of the daily operations of the Mills Group. He has over 25 years of experience in historical preservation, architectural design, and planning. Through his extensive work with historic structures, he has a detailed working knowledge of the Secretary of the Interior's Standards for Historic Preservation Projects. His work includes interior and exterior preservation, window restoration, foundation waterproofing, roof repair, integration of MEP systems in a historic structure and the design of interpretive exhibits for historic structures. The other aspects of his work include historic design guidelines, contextual design of new structures, and the issues related the revitalization of main streets across the country.

EXPERIENCE

Davis and Elkins College, Glory Residence Hall- Elkins, WV

Mills Group was hired to conceptualize and provide full design services for a new three-and-a half-story, 100 bed dormitory of approximately 31,000 square feet with supporting amenities and site work. The design is planned to be aesthetically homogenous with the existing collegiate vernacular while still allowing for modern architectural features. Our design includes an elevator and a second entrance lobby through the building's lower level to provide ADA accessibility.

Davis and Elkins College, Myles Center & Myles Plaza - Elkins, WV

Mills Group provided full services for the \$6.6 million expansion and renovation project to Myles Center for the Arts on the campus of Davis & Elkins College. The project called for a more than 6,000-square-foot glass enclosed addition which nearly doubles the size of The Joni and Buck Smith Arts Forum providing a 350-seat event space. Additional design elements included a two-story stone and brick rotunda main entrance, and the installation of an elevator and balcony, new restrooms and a warming kitchen. Myles Plaza underwent a complete renovation as well. Following curvilinear lines inspired by musical influences, the space features walking paths, grassy areas, sections for conversations and a tiered seating area that can be used as an outdoor classroom and event space.

WVU Blaney House - Morgantown, WV

Mills Group designed an addition to the Blaney House, which serves as the President's home at West Virginia University in Morgantown. In order to integrate the existing aesthetics and interior space of the home, Mills Group team created a conceptual design and proposed solutions to create a cohesive appearance for the entire building. The resulting 2,000-square-foot space has the ability to be sub-divided or used as a single expansive event room, and is accented with exquisite finishes, a fireplace, and French doors to allow for seamless integration with the outdoors.



Ryan Hess

AIA, LEED AP

PRINCIPAL / SUSTAINABILITY

EDUCATION

WEST VIRGINIA UNIVERSITY:
BS / CIVIL & ENVIRONMENTAL
ENGINEERING

WEST VIRGINIA UNIVERSITY:
MBA / BUSINESS ADMINISTRATION

CARNEGIE MELLON UNIVERSITY:
MS, ARCHITECTURE

PROFESSIONAL REGISTRATIONS

MARYLAND
USGBC

BIOGRAPHY

Ryan Hess has over 15 years of experience and serves as a principal for Mills Group, where he is responsible for leading the office in the sustainable design market and serves as our expert on LEED projects. He is also a member of the United States Green Building Council. As such, he pursues client opportunities, manages projects, and incorporates sustainable principles into collaborative and holistic design, within commercial, institutional and residential markets. Ryan has also improved the efficiency of the office through in-house project management. Additionally, Mr. Hess volunteers his time lecturing students interested in pursuing a career in architecture, mentors architectural interns as well as serves on various city redevelopment committees and boards.

EXPERIENCE

The Landing Dental Spa - Morgantown, WV

This keystone building in the Cheat Landing development serves as a new location for a growing dental practice in Morgantown, WV. The clean, angular structure is sited amongst other community amenities including a large church, two housing developments, businesses, retail, and food service. The modern aesthetic integrates the outdoors and provides for an interior of clean lines and coordinated color palettes. During visits, patients welcome the natural light, relaxing waiting area, and views of the outdoors, while experiencing gentle care from the practitioners.

WVU Greek Master Plan - Morgantown, WV

West Virginia University Greek Fraternities and Sororities have identified a need for strategic planning of existing and future facilities. Initiating current chapter presidents, alumni, University and City officials, and local landowners, this preliminary plan outlays the feasibility of such efforts for WVU and the community.

Pi Beta Phi Sorority House - Morgantown, WV

Mills Group was hired by the Pi Beta Phi Fraternity Housing Corporation and CSL Management to update the kitchen, dining area and bathrooms for the Pi Beta Phi Sorority House in Morgantown, WV. The new dining room layout is complete with wall enhancements, new LVT Flooring, updated lighting, dining and banquet seating, wood blinds, and new cabinets. The addition of a separate serving area was designed into the new space as well. The kitchen was completely renovated with all new kitchen equipment, exhaust system, quarry tile floors and janitors closet. The renovation of the public and private bathrooms for the 40 residents were completed in two phases. The renovated bathrooms have white tile walls, quartz countertops, frosted glass showers, ceramic tile walls, backlit, anti-fog mirrors and custom toilet partitions.



Jim King

AIA, LEED AP

SENIOR PROJECT MANAGER

EDUCATION

VIRGINIA TECH
MS / ARCHITECTURE

PROFESSIONAL REGISTRATIONS

WEST VIRGINIA

BIOGRAPHY

Throughout Jim's 30 year career in architecture, he has been involved with projects including historic preservation, higher education, liturgical, commercial, adaptive reuse, and custom residential. Responsibilities include design, project management, and production of contract documents including specifications and construction detailing, and have strengthened his background in total project delivery. Mr. King most recently served as the principal administrator for the Higher Education Policy Commission, where he was responsible for the ten public baccalaureate institutions. While there, he implemented policy regarding energy efficiency, managed major renovations for the Commission as well as the individual institutions, and was an integral member of several campus master plans. Mr. King was fortunate to begin his career in a firm known for historic preservation, and from there has continued to hone his skills in design, construction management and sustainability.

EXPERIENCE

Berkely Springs Train Depot - Bath, WV

The Town of Bath asked the Mills Group to design rehabilitation plans for the historic Berkeley Springs Depot. The depot is an important local architectural landmark that symbolizes the bustling, thriving center of activity that once emanated from the railroad serving the town. The rehabilitation includes the stabilization and restoration of the clay tile roof as well as master planning the adjoining 2.1 acre site. The Mills Group researched historic maps and photographs to produce a three-dimensional understanding of the train depot and how it changed over time as a conceptual site layout.

Stockert Youth & Community Center - Buckhannon, WV

We are currently designing a new 11,000-square-foot facility that will serve as a multipurpose community center adjacent to the existing historic building. The front portion of the building includes a check-in desk, workroom, office, restrooms, and an elevator to access the lower level. The main level looks down onto the open community space below which includes locker rooms, concession area, restrooms, and an elevator to access the lower level.

Elkins Library - Elkins, WV

Mills Group was approached by the Elkins-Randolph county Public Library to design an approximately 4,400-square-foot addition to their existing library in Elkins, WV. We have completed the predesign and schematic design phases which included existing conditions documentation, development of design alternatives, and master planning. The addition includes an elevator to allow access to all levels. Currently, we are in the design development phase and will provide construction administration services in the future.



ROGER M. THIES, PE, LEED AP / PRINCIPAL-IN-CHARGE

Senior Vice President | Professional Engineer in PA & MD

Pennsylvania State University, Bachelor of Architectural Engineering

With more than 29 years of experience in project development, design and execution, Roger has extensive project experience in implementing large multi-faceted design projects. As Principal-in-Charge, Roger will provide his experience to the design team to assist in system selection and layout for the project as well as applying the lessons learned on past projects. His relevant experience includes:

- Penn State University, East Halls Multi-Phased Residence Hall Renovations and Additions
- Penn State University, Pollock Halls Multi-Phased Residence Hall Renovations and Additions
- Penn State University, Nursing Sciences Building Renovation
- Penn State University, Willard Building College of Communication Renovation



LAWRENCE R. ZDINAK, JR., PE / PROJECT MANAGER

Director of Operations, Pittsburgh | Professional Engineer in PA, MD, NJ, NY, OH & VA

Pennsylvania State University, Bachelor of Architectural Engineering

With a career spanning over 28 years in engineering, management, and business development, Larry has an extensive list of experience in the higher education market. As Project Manager, Larry will lead project team meetings and will coordinate schedules and deliverables with the owner and members of the design team to maintain project schedules, deliverables, and budgets. His relevant experience includes:

- West Virginia University, Creative Arts Center AHU Replacement
- University of Pittsburgh, Barco Law Building AHU & Return Fan Replacement
- University of Pittsburgh, Posvar Hall AHU's Upgrades/Replacements
- Allegheny College, Bentley Hall Renovations



ANTHONY T. RICKETTS, PE, LEED AP BD + C / LEAD MECHANICAL ENGINEER

Mechanical Engineer | Professional Engineer in PA, MD, OH and WV

Pennsylvania State University, Bachelor of Mechanical Engineering

Tony has over 19 years of experience in the industry and has extensive project experience with the University of Pittsburgh. As Lead Mechanical Engineer, Tony will lead and direct Barton's mechanical engineering staff that will be assisting him on this project. He will attend engineering project team meetings and be an integral team member in the selection and sizing of the mechanical systems. The following is some of his relevant experience:

- West Virginia University, Creative Arts Center AHU Replacement
- University of Pittsburgh, Barco Law Building AHU & Return Fan Replacement
- University of Pittsburgh, Posvar Hall AHU's Upgrades/Replacements
- Allegheny College, Bentley Hall Renovations



CHRISTOPHER D. CARROLL / LEAD MECHANICAL DESIGNER

Senior Mechanical Engineer

University of Pittsburgh, Bachelor of Science, Computer & Information

Chris has over 33 years of experience in HVAC design and construction service support for numerous projects. As Lead Mechanical Designer, Chris will lead and direct Barton's mechanical engineering staff that will be assisting him on this project. He will attend engineering project team meetings and be an integral team member in the selection and sizing of the mechanical systems. His relevant experience includes:

- West Virginia University, PRT Heating Plant Modernization Design
- University of Pittsburgh, Biomedical Science Tower 3 AHU 6 & 7 Fan Retrofit
- University of Pittsburgh, Victoria Building Chiller Replacement
- Pierpont Community & Technical College, Facilities Master Plan

BIOGRAPHY

Mr. Fyffe is familiar with a wide variety of building envelope systems and components, and has conducted field investigations on over 500 projects for federal, state and local government agencies, school systems, universities, commercial owners, churches and condominium associations. He serves as a personnel manager and oversees the allocation of company resources. He is responsible for managing, reviewing and preparing evaluation reports, cost estimates, design drawings, plans and specifications, with a particular emphasis on programmed maintenance, repair and replacement.

EXPERIENCE

Structural Assessment, Marion County Courthouse - *Fairmont, WV*

Served as Project Manager for the roofing and waterproofing component of the assessment. Work involved surveying of interior and exterior conditions related to flat roof systems, sloped metal roof systems and flashing, and cast iron façade and roofing elements. Provided follow on design services for implementation of roof repairs recommended by study associated with stabilization of perimeter cast iron cornice, and for roofing aspect associated with structurally reinforcing of the original clay tile arch roof deck.

Façade & Window Repair, Dumbarton Courts - *Washington, D.C.*

Project Manager responsible for conducting a study for the 1909 building related to extensive moisture penetration at the masonry and stucco covered masonry walls, including wood windows in varied states of deterioration. Study found numerous deferred maintenance issues leading to the interior moisture damage. Prepared follow up on construction documents for full façade and window restoration. Window restoration scope resulted from detailed study of options ranging from full replacement to simple scraping and painting.

Cottril's Opera House - *Thomas, WV*

Project Manager for the investigation of existing roofing and façade conditions of this 1902 abandoned structure related to complete restoration and reoccupation of the building. Efforts were focused on (1) completing stabilization to protect the building from the environment, and (2) designing long term repairs and replacements to serve the building in its fully occupied state.



David A. Fyffe

PE

**PRINCIPAL /
PROJECT
MANAGER**

EDUCATION

BACHELOR OF SCIENCE, CIVIL
ENGINEERING, 1984
CLARKSON UNIVERSITY,
POTSDAM, NY

REGISTRATIONS

1992/Civil Engineering PE - DC #09864
1992/Civil Engineering PE - VA #024165
2005/Civil Engineering PE - MD #31665
2005/Civil Engineering PE - WV #16421

SEAL ENGINEER



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, TN,
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

FORMER PROFESSIONAL EXPERIENCE

American Bridge Company — Corapolis, PA
McKinney and Company — Ashland, VA
Brockenbrough and Associations
Richmond, VA
Allegheny Design Services — Morgantown, WV

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

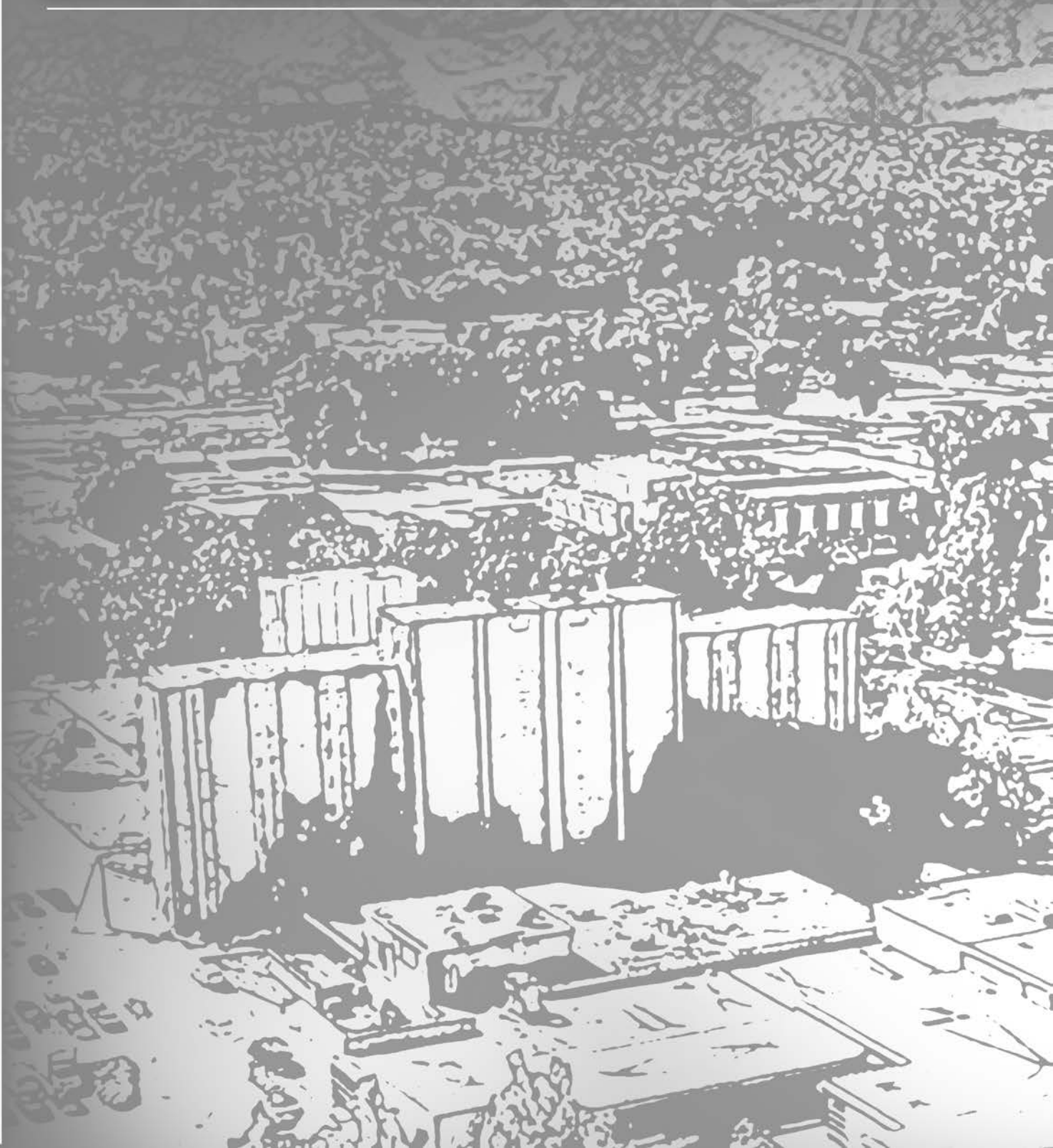
Sweet Springs, W.V.

Mon General Community Hospital

Fairmont, WV



EXPERIENCE





Higher Education Projects

LOCATION : Various Locations

CLIENT : Various

SERVICES : Various

CONSTRUCTION VALUE : N/A

West Virginia University

- Mountainlair Info Desk-(as SMG Architects, Victor Greco, AIA)
- WVU Wise Library Staircase- (as SMG Architects, Victor Greco, AIA)
- Adventure WV Restroom
- Blaney House
- Pi Beta Phi Sorority House
- Greek Life Master Plan
- Pi Kappa Alpha House Concept and Master Plan

Davis & Elkins College

- D&E Columbarium
- Hermanson Center
- D&E Master Plan
- Myles Plaza
- Glory Residence Hall
- Booth Hall
- Gribble Hall
- Citizen Bank Pavilion
- Graceland
- Halliehurst

West Liberty University

- West Liberty University Master Plan
- Baseball Dugouts
- Dental Hygiene Lab
- Media Arts Center

West Virginia North Community College

- Weirton Campus
- Student Center
- B&O Roof Rehabilitation
- Applied Technology Center





Wheeling B&O Roof Rehabilitation WV Northern Comm. College

LOCATION : Wheeling, WV
CLIENT : WV Council for Community &
Technical College Education
SERVICES : Concept/Construction
Documents
CONSTRUCTION VALUE :
\$1.4 Million

The former railroad station, built in 1908, is the central building of the West Virginia Northern Community College campus. The B&O occupies a prominent location in the heart of the Wheeling historic commercial district. In 1997 the college hired the firm to execute an existing conditions assessment of the terra cotta and copper standing seam roof. The green glazed terra cotta tiles proved to be non-restorable and no longer available. The firm took careful dimensions and subsequently fabricated custom replicas. The team also researched alternatives to the standing seam copper and reviewed them for cost effective replacement. It was decided to design and install a simulated copper coated steel roof.

The project also included evaluation and recommendations for repair or replacement of the buildings terra cotta cornice. The team also performed repair techniques and fully replaced the badly damaged components. The project involved the rehabilitation of 46 rounded dormers and associated windows, asbestos abatement of existing roofing materials, selective masonry restoration, and complex detailing. To implement the project, as-built conditions were accurately documented and became the basis for construction documents. The project was funded with public monies (TEA funds) thus the bid negotiation phase was set for a public forum. The firm also performed construction administration services.



Project by SMG Architects Inc. Victor R. Greco Principal Architect

Bentley Hall

Allegheny College

Meadville, PA

PROJECT DETAILS

Project Area
17,400 sq. ft.

Construction Cost
Estimated \$13 million

Completion Date
August 2021

OWNER

Allegheny College
814-332-3100

PROJECT MANAGER

Lawrence R. Zdinak, Jr., PE
Barton Associates, Inc.
412-421-0145
lrz@ba-inc.com

AWARDS

2022 National IES Illumination
Award of Merit



Barton Associates provided mechanical and electrical engineering design and construction services for renovations to the 17,400 square-foot Bentley Hall, which is the historic cornerstone of the College that is almost 200 years old. The 4-story facility has not had any significant renovations since 1925 and will house senior and administrative offices, as well as student support functions for the College. The project involves complete replacement of all HVAC, electrical, plumbing and fire protection systems to equip the building for modern, technology-based teaching, learning, and administration. In helping the College maintain its commitment to climate neutrality in 2020, a geothermal well field was installed to provide heating and cooling via a heat recovery chiller with 4-pipe fan coil units system. Outside air was provided through self-contained energy recovery ventilators located in the attic space. One of the challenges was properly navigating the new MEP infrastructure throughout the building while encountering restrictive floor-to-floor elevations and subsequent ceiling clearances plenums so as not to compromise the integrity and interior aesthetics of the historic structure. The building is listed on the National Register of Historic Places and is seeking LEED silver from the U.S. Green Building Council.

Barton's Lighting Studio is honored to have received a 2022 National IES Illumination Award of Merit from the Illuminating Engineering Society's (IES) for Energy and Environmental Design.

Drayer Hall

Dickinson College

Carlisle, PA

PROJECT DETAILS

Project Area
38,000 sq. ft.

Construction Cost
\$8.7 million

Completion Date
August 2023

OWNER

Steve Bobb
Dickinson College
717-243-5121

PROJECT MANAGER

Michael S. Rader, PE, CEM
Barton Associates, Inc.
717-845-7654
msr@ba-inc.com



Barton Associates provided mechanical, electrical, plumbing and fire protection engineering services for the renovation of the four story 38,000 square-foot Drayer Hall. Renovations to the 1950s residence hall included a new fire protection system, replacement of domestic cold and hot water systems, domestic water heating plant, plumbing fixtures, sanitary waste and vent systems, HVAC system replacement with 2 pipe and 4 pipe fan coils with dedicated outside air systems with energy recovery, building management system, electrical service, power distribution, emergency power generation and distribution systems, lighting and lighting controls, fire alarm and tele/data systems. Renovations also included new appliances in communal kitchens and common areas as well as gender Inclusive bathrooms throughout the building. Drayer Hall is the largest first-year residence on campus and was the first residence hall in the college's history built solely for women. Today, it is a coed dorm featuring both single and double rooms.

East Halls Renovations and New Residence Halls

The Pennsylvania State University

University Park, PA

PROJECT DETAILS

Project Area
Two New Residences Halls &
Fourteen Existing Halls
Renovations
Approx. 70,000-95,000 sq. ft.

Construction Cost
Estimated \$500 million

Completion Date
Estimated August 2024

Beds
4,986 Overall Total

OWNER

Richard O'Donald
The Pennsylvania State
University
814-865-1333

PROJECT MANAGER

Roger M. Thies, PE, LEED AP
Barton Associates, Inc.
814-237-2180
rmt@ba-inc.com



Barton Associates is providing mechanical, electrical, architectural lighting and plumbing design services for the East Halls renovations and new Residence Halls, the largest residence hall construction projects undertaken by the University to date. During the project, East Halls will receive significant upgrades to surrounding outdoor spaces, construction of two, new residence halls, and renovation of fourteen existing halls, which were built in the 1960s. Each floor in the new residence hall and renovated buildings will include study/lounge space and “wet cores” which consist of individual bathrooms with a shower, lavatory, and toilet along with adjacent alcoves with sinks and lockers. The ground floor of each building will include a lounge with a kitchen, multiple study spaces, a laundry room, and a residence life apartment. Each building renovation is a complete renewal of the facility, all mechanical, electrical, lighting and plumbing systems will be replaced, and air conditioning will be added to each facility. Other improvements include the introduction of efficient LED lighting and automatic lighting controls, replacement of the thermal envelope of the facility, central plant utility upgrades for chilled water, heating hot water and domestic hot water, as well as, the replacement of the electrical unit substation and distribution system that serves the East Halls complex. Each residence hall ranges between 70,000 and 95,000 square feet. The project is being completed in six phases.

Phase 1B of Penn State’s East Halls project received LEED Gold certification for Martin, McKean and Pennypacker Halls and Phase 1A received LEED Silver certification for Earle and Stuart Halls. All remaining phases are pursuing LEED Gold certification.

Paul, Rice and Stine Residence Halls

Gettysburg College

Gettysburg, PA

PROJECT DETAILS

Project Area
24,000 sq. ft. each

Construction Cost
Estimated \$8 million

Completion Date
Estimated 2024-2026

OWNER

Jim Biesecker
Gettysburg College
717-337-6742

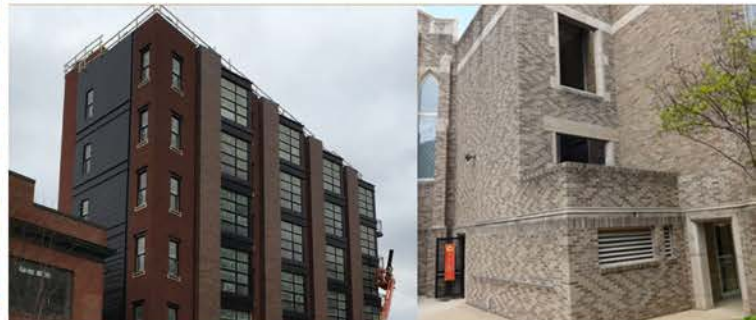
PRINCIPAL-IN-CHARGE

Michael S. Rader, PE, CEM
Barton Associates, Inc.
717-845-7654
msr@ba-inc.com



Barton Associates provided mechanical and electrical services to furnish energy recovery ventilators in the mid 1990's at the Paul, Rice and Stine student residence halls at Gettysburg College. The intent of the renovation was to provide building pressurization control.

Barton Associates is currently providing mechanical, electrical, architectural lighting and plumbing design services for the complete renovation of Paul, Rice and Stine residence halls. The first phase of design will be completed in November 2023 and construction started in June of 2024. Subsequent phases will be constructed in 2025 and 2026. Each residence hall is approximately 24,000 square-foot and will be completely renovated including conversion of gang style bathrooms to individual bathrooms. Each building and the central utility infrastructure will receive a complete renewal of all mechanical, electrical, lighting and plumbing systems. The HVAC renovation will include the installation of four pipe fan coil units with active dehumidification control, dedicated outdoor air systems (DOAS) with energy recovery to provide dehumidified room neutral ventilation air to each sleeping room and common space. Central campus chilled water will be extended to serve the buildings. Existing central campus steam will be reused and a new steam to hot water heat exchanger provided. Domestic water systems, domestic heating water system will be renovated. Other improvements include LED lighting and lighting controls.



Seal Engineering, Inc.

HIGHER EDUCATION
EXPERIENCE

SERVICES : Investigation & Reports,
Design Services, Design Review, Bidding
Phase Services, CD Phase Services,
Design-Build



George Mason University

Aquatics Center
Krug, Finley, East & West Halls Roof Replacements
VanMetre Hall Roof Replacement
Enterprise Hall
Planetary Roof Replacement

The George Washington University

Onassis Hall Chimney Repairs
Quiggley's Slab
Mehran Restaurant

Gallaudet University

Hanson Plaza & Parking Garage Rehabilitation

Georgetown University (Main Campus & Law Center)

Dahlgren Library Roof Replacement
ICC Roof Leak Consulting
LXR Bathroom Leak Repairs
McDonough Hall & Law Library Waterproofing Survey
McDonough Paver Replacement
McDonough Planter Waterproofing



Arrow Engineering

OVERVIEW

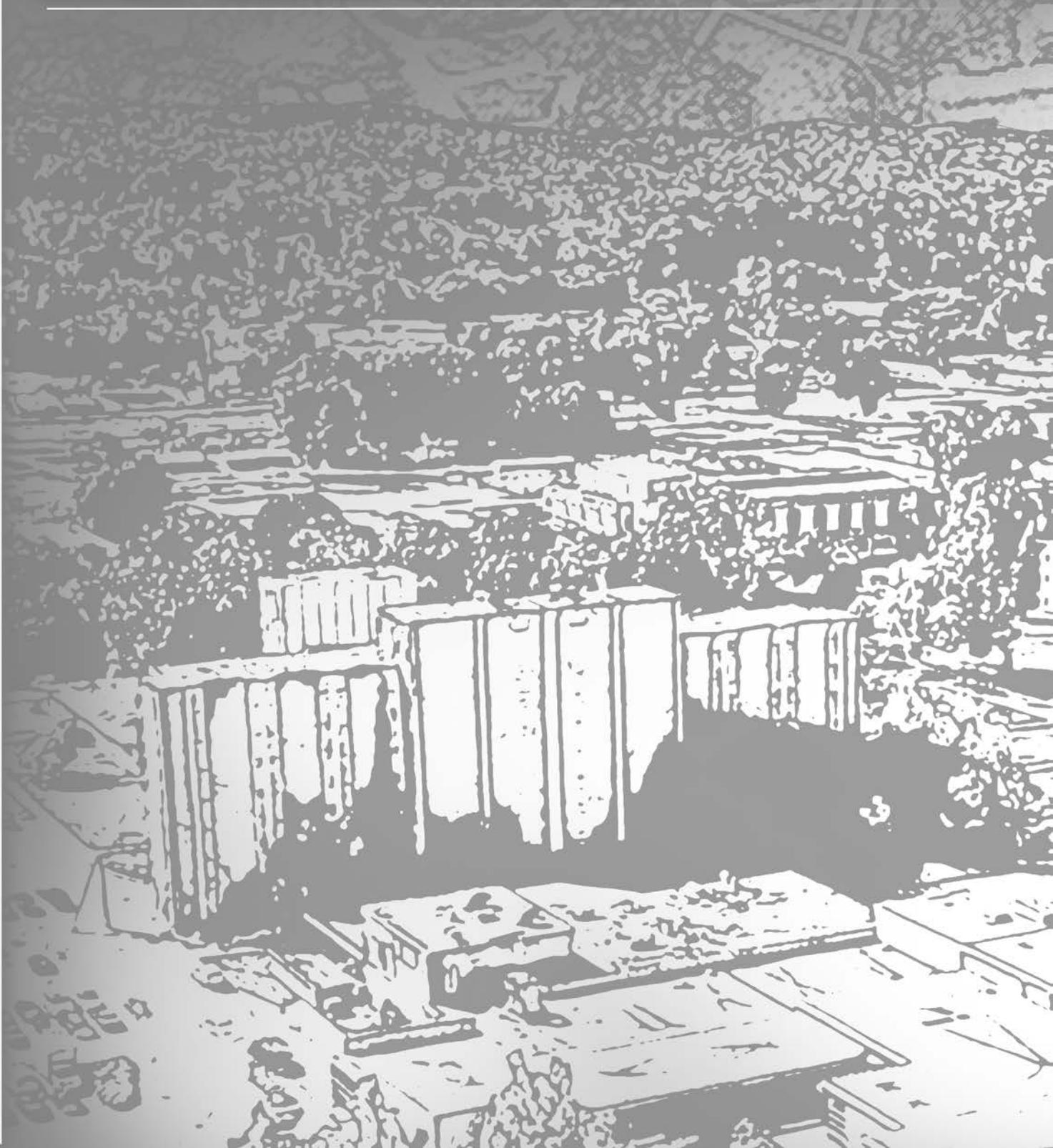
LOCATION : WV

SERVICES : Industrial, Residential &
Commercial Structural Engineering

- Parkersburg Children's Museum - Parkersburg, WV
- Sweet Springs Resort Bath House Restoration - Sweet Springs, WV
- WVU Hospital Lab Renovation - Morgantown, WV
- Mon General Community Hospital - Fairmont, WV
- Mountaineer Ballpark - Monongalia, WV
- WVU Art Museum - Morgantown, WV
- Camp Mountaineer Boy Scout Camp - Morgantown, WV
- Cohen Building Assessment - Grafton, WV
- 434 Walnut Street Conditional Assessment - Morgantown, WV
- Richmond Old City Hall Plaza Replacement - Richmond, VA
- Eppington Plantation Renovation - Chesterfield, VA
- Sailors Creek Visitors Center - Farmville, VA
- High Bridge Trail State Park - Farmville, VA



REFERENCES





REFERENCES

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President & CEO

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Robert Moyer

Regional Director of Facilities and Planning

West Virginia University Institute of Technology
410 Neville Street
Beckley, WV 25801
Ph: 304-929-0325

SIGNATURE/CERTIFICATION

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.



(Name, Title)

Michael Mills AIA, NCARB, Managing Principal

(Printed Name and Title)

88 High Street, Morgantown, WV 26505

(Address)

304-296-1010

(Phone Number) / (Fax Number)

mmills@millsgrouponline.com

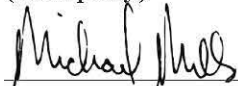
(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through e-mail, I certify that: I have reviewed this solicitation 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 Commission/Institution that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the solicitation 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 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 the Commission/Institution is requiring the vendor to follow the provisions of WV State Code 5A-3-62 which automatically voids certain contract clauses that violate State law.

Mills Group LLC

(Company)



(Authorized Signature) (Representative Name, Title)

Michael Mills, Managing Principal

(Printed Name and Title of Authorized Representative)

3/12/2024

(Date)

304-296-1010

(Phone Number) (Fax Number)