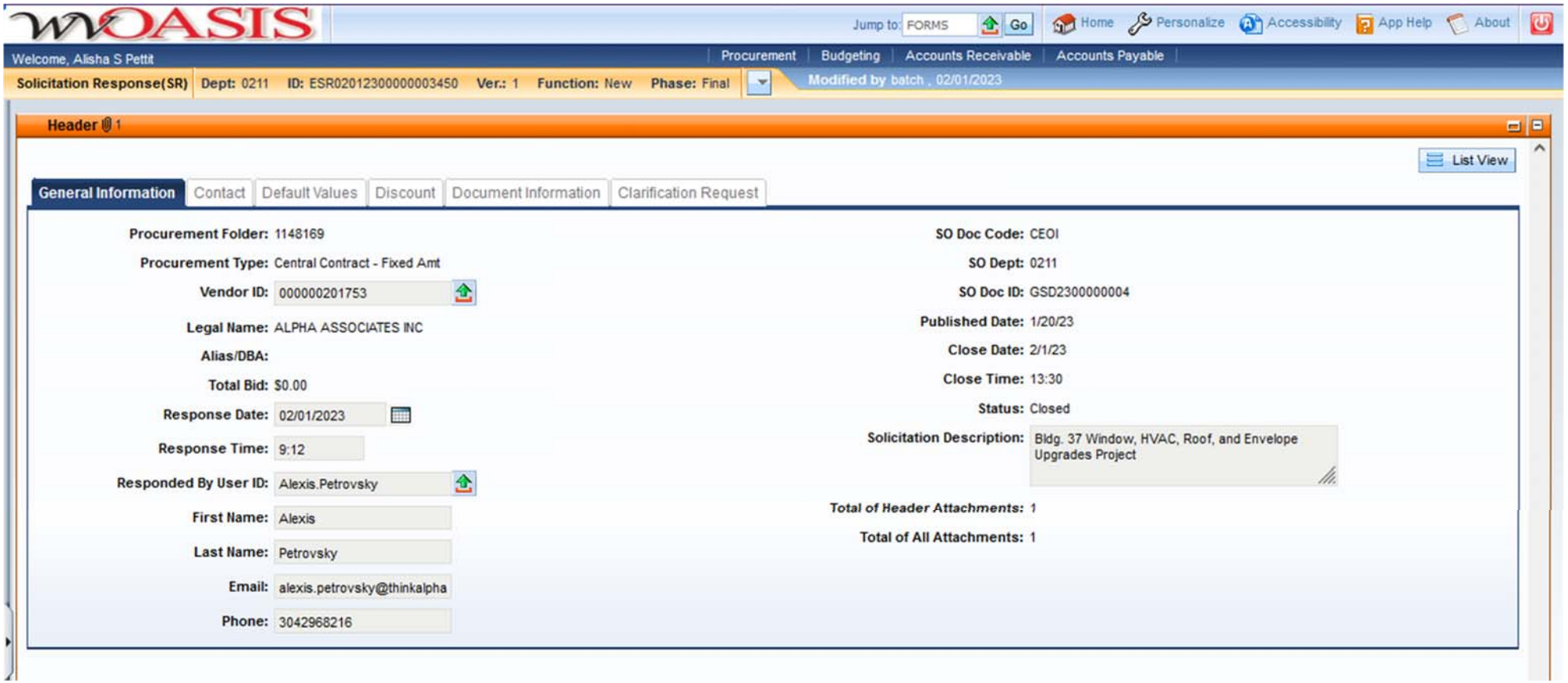
The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.


wvOASIS
Jump to: FORMS Go
Home
Personalize
Accessibility
App Help
About
Welcome, Alisha S Pettit
Procurement
Budgeting
Accounts Receivable
Accounts Payable
Solicitation Response(SR) Dept: 0211 ID: ESR02012300000003450 Ver.: 1 Function: New Phase: Final
Modified by batch , 02/01/2023
Header 1
List View
General Information
Contact
Default Values
Discount
Document Information
Clarification Request
Procurement Folder: 1148169
Procurement Type: Central Contract - Fixed Amt
Vendor ID: 000000201753
Legal Name: ALPHA ASSOCIATES INC
Alias/DBA:
Total Bid: $0.00
Response Date: 02/01/2023
Response Time: 9:12
Responded By User ID: Alexis.Petrovsky
First Name: Alexis
Last Name: Petrovsky
Email: alexis.petrovsky@thinkalpha
Phone: 3042968216
SO Doc Code: CEOI
SO Dept: 0211
SO Doc ID: GSD2300000004
Published Date: 1/20/23
Close Date: 2/1/23
Close Time: 13:30
Status: Closed
Solicitation Description: Bldg. 37 Window, HVAC, Roof, and Envelope Upgrades Project
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:	1148169
Solicitation Description:	Bldg. 37 Window, HVAC, Roof, and Envelope Upgrades Project
Proc Type:	Central Contract - Fixed Amt

Solicitation Closes	Solicitation Response	Version
2023-02-01 13:30	SR 0211 ESR02012300000003450	1

VENDOR

000000201753
ALPHA ASSOCIATES INC

Solicitation Number: CEOI 0211 GSD2300000004

Total Bid: 0 **Response Date:** 2023-02-01 **Response Time:** 09:12:05

Comments:

FOR INFORMATION CONTACT THE BUYER
Melissa Pettrey
(304) 558-0094
melissa.k.pettrey@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	Bldg. 37 Window, HVAC, Roof, and Envelope Upgrades Project				0.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments:

Extended Description:

Bldg. 37 Window, HVAC, Roof, and Envelope Upgrades Project

EXPRESSION OF INTEREST

A&E SERVICES

BLDG. 37 WINDOW, HVAC, ROOF, AND ENVELOPE UPGRADES PROJECT

Submission Date: February 1, 2023

CONTACT

Address

Richard Colebank, President & COO
Alpha Associates, Incorporated
209 Prairie Ave.
Morgantown, WV 26501

Phone & Fax

Phone: 304-296-8216
Fax: 304-296-8245

Online

Email: rick.colebank@thinkALPHAfirst.com

Website: www.thinkALPHAfirst.com

Facebook:
https://www.facebook.com/thinkALPHAfirst

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

State of West Virginia
Centralized Expression of Interest
Architect/Engr

Proc Folder: 1148169			**Reason for Modification:**
Doc Description: Bldg. 37 Window, HVAC, Roof, and Envelope Upgrades Project			Addendum No. 1
Proc Type: Central Contract - Fixed Amt			
Date Issued	**Solicitation Closes**	**Solicitation No**	**Version**
2023-01-20	2023-02-01 13:30	CEOI 0211 GSD2300000004	2

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code:

Vendor Name : Alpha Associates, Incorporated

Address :

Street : 209 Prairie Avenue

City : Morgantown

State : WV **Country : US** **Zip : 26501**

Principal Contact : Richard A. Colebank

Vendor Contact Phone: (304) 296-8216 **Extension: 102**

FOR INFORMATION CONTACT THE BUYER
Melissa Pettrey
(304) 558-0094
melissa.k.pettrey@wv.gov

Vendor Signature X **FEIN#** 550516286 **DATE** 1/20/2023

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) Richard A. Colebank, President & CEO

(Address) 209 Prairie Avenue, Morgantown, WV 26501

(Phone Number) / (Fax Number) 304-296-8216 / 304-296-8216

(email address) rick.colebank@thinkalphafirst.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through *wv*OASIS, 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.

Alpha Associates, Incorporated

(Company)

(Signature of Authorized Representative)

Richard A. Colebank, President & CEO

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

304-296-8216 / 304-296-8216

(Phone Number) (Fax Number)

rick.colebank@thinkalphafirst.com

(Email Address)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI GSD2300000004

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

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

Addendum Numbers Received:
(Check the box next to each addendum received)

- [x] Addendum No. 1
- [ ] Addendum No. 2
- [ ] Addendum No. 3
- [ ] Addendum No. 4
- [ ] Addendum No. 5
- [ ] Addendum No. 6
- [ ] Addendum No. 7
- [ ] Addendum No. 8
- [ ] Addendum No. 9
- [ ] Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Alpha Associates, Inc.
Company

Authorized Signature

1-31-2023
Date

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

Table of Contents

February 1, 2023

Melissa K. Pettrey, Senior Buyer
Department of Administration
Purchasing Division
2019 Washington Street East
Charleston, WV 25305

RE: CEOI 0211 GSD2300000004 – Bldg. 37 Window, HVAC, Roof, and Envelope Upgrades Project

Dear Ms. Pettrey,

Alpha Associates, Incorporated, is pleased to submit this "Expression of Interest" to provide engineering/architectural design services for evaluation, assessment report, design, and upgrades of the existing systems in Building 37 located in Kanawha City at 610 57th Street, Charleston, WV 25314. Along with H.F. Lenz, we have established a strong team for this important project.

Since 1969, Alpha Associates has provided engineering/architectural services throughout the State of West Virginia from our two locations in both Morgantown and Martinsburg. Services for your project in Charleston will be provided from our Morgantown Office. We have been honored to work with many local, state and federal government entities on numerous projects of varying sizes and types which share relations to the services needed for Building 37. With similar work completed at the Mountaineer Middle School, WV DOH District 2 Headquarters, UHC Clarksburg Clinic, Rex. W. Tillerson Leadership Center, and, but not limiting to, the Morgantown Public Safety Building.

Design Team

Alpha is proud to promote that we are a wild and wonderful West Virginia owned and operated engineering firm with 53+ year history carried throughout the State. Our 22-person strong professional staff includes architects, civil and structural engineers, surveyors, cost estimators, construction representatives, landscape designers, interior designers, technicians and some are even pilots! Talk about a trust house blend of skills. The personnel assigned to your project are dedicated and highly qualified professionals with support and technical expertise to meet and surpass your expectations of these projects.

true house blend of skills. The personnel assigned to your project are dedicated and highly qualified professionals with support and technical expertise to meet and surpass your expectations of these projects.

Project Understanding

Building 37, the Agency's owned and operated facility located in Kanawha City, needs an architectural/engineering evaluation and assessment report of the existing systems described herein. Once approved by the Agency, the Vendor (qualified firm) shall provide design services consisting of construction bidding documents and construction administration for the replacement of the existing windows and ribbon window systems, replacement of the existing roof (complete with new safety rail), provide HVAC upgrades, and clean and caulk the exterior envelope of Building 37.

Summary

Alpha Associates, Incorporated, is pleased to submit this Expression of Interest for providing architectural/engineering evaluation along with design services and construction administration for Building 37. We appreciate your time and consideration for these upgrades. Alpha looks forward to working with you on this project. Our dedicated team of professional will make YOUR PROJECTS OUR PRIORITY. If you would like to further discuss this upcoming project, please contact us at (304) 296-8216 ext. 102.

Sincerely,

Alpha Associates, Incorporated

Richard A. Colebank, PE, PS
President and COO
rickcolebank@thinkALPHAfirst.com

WELCOME TO ALPHA ASSOCIATES, INC.

FIRM PROFILE

Contract Role: Prime
Architect & Engineer

Address
209 Prairie Avenue
Morgantown, West Virginia 26501

535 West King Street
Martinsburg, West Virginia 25401

Number of Employees
21

Principals
Richard A. Colebank, PE, PS; President & COO
Richard W. Klein, PE, PS; Chairman & CEO
Charles B. Luttrell, PE; Senior Principal
Charles B. Branch, PE; Senior Principal
Matthew T. Echard, PE; Principal

Services
Architectural Design
Civil Engineering
Structural Engineering
Surveying
Interior Design
Landscape Architecture
Construction Administration

H.F. LENZ ENGINEERING

Firm Profile

Johnstown Headquarters
1407 Scalp Avenue
Johnstown, PA 15904
Phone: 814-269-9300
Fax: 814-269-9301

Pittsburgh Office
1051 Brinton Road
Pittsburgh, PA 15221
Phone: 412-371-9073

Lancaster Office
120 North Pointe Boulevard
Suite 203
Lancaster, PA 17601
Phone: 717-461-3916

Ohio Office
322 State Street
Conneaut, OH 44030
Phone: 440-599-7800
Fax: 440-599-7801

Connecticut Office
101 Centerpoint Drive
Suite 237
Middletown, CT 06457
Phone: 860-316-2124

U.S. GREEN BUILDING COUNCIL MEMBER

H.F. Lenz Company

H.F. Lenz Company was established 1946 in its present form, under the name H.F. Lenz Company, R.E., and in 1953 the company was incorporated, as a Private Corporation, in Pennsylvania as H.F. Lenz Co.. Our staff consists of 160+ individuals, including 44 Licensed Professional Engineers and 17 LEED Accredited Professionals.

Our services include:

- Mechanical Engineering
- Electrical Engineering
- Plumbing Engineering
- Life Safety / Fire Protection Engineering
- Communications Engineering
- Energy Management
- Civil Engineering
- Structural Engineering
- Industrial Engineering
- Surveying
- Construction Phase Services
- Commissioning

LEED and Sustainable Design

We have been a member of the United States Green Building Council since 2000 and currently have 17 LEED™ Accredited Professionals on staff. Our firm has gained a high level of knowledge in the building green process and we possess the experience to successfully apply these principles to all building projects, whether they are designed to attain LEED™ Certification or not. We have provided services for 120+ projects that have attained various levels of LEED™ Certification, in total over 16 million SF of facilities.

Experience in West Virginia

H.F. Lenz Company has a long history of project experience in West Virginia. Our experience includes:

- WV State Capitol Chiller Plant Upgrades
- New State Office Building in Clarksburg
- USDA Office Fit-out Project
- Multiple projects for a large, confidential federal government campus
- Fifth Third Center - New Multi-tenant Office Building
- Martinsburg Roundhouse Fit-out
- New Washington High School
- Over 25 years of consistent projects for WVU
- Multiple projects for Mylan Pharmaceuticals
- Multiple Sheetz stores
- Multiple DOE NETL projects at the Morgantown campus
- New Mylan Park Aquatic Center

STATEMENT OF QUALIFICATIONS.

Alpha Associates, Incorporated is a West Virginia based architectural and engineering design firm that provides services in the areas of architectural design, interior design, construction administration, civil engineering, structural engineering, landscape design, project management and surveying. Our clients benefit from our unique combination of extensive design and construction experience, advanced technological tools, dedicated principals and highly skilled staff members. Our work is diverse and includes clients in commercial, educational and government facilities, developers and private organizations.

Since 1969, Alpha has provided architectural and engineering design services throughout the State and even surrounding areas. We have worked with many local, state and federal government entities on numerous projects of varying sizes and types. No project is too small or too big for us. Our team of engineering professionals have recent, relevant experience in the preparation of civil/site plans and infrastructure planning and design. To help better explain, there are example throughout this proposal that showcase the Alpha Team's exceptional project experience with similar types related to Building 37's Upgrades.

Alpha had the knowledge and understanding in design and construction to complete these projects seamlessly, from the initial project inspections to the development of plans. The Alpha team will be your expert for this project.

Alpha's philosophy has always been to provide exemplary services for a fair fee. As mountaineers, we have always believed that the best way to succeed as a business is to go above and beyond the basic requirements of our contracts and do everything necessary to successfully complete the given project and surpass expectations. What is best for the client is inevitably best for us too.

Everyone at Alpha, from the President to the administrative staff, work towards the goal of successfully completing projects. Our principals are involved with the projects from the earliest stages all the way through the final completion and beyond with routine follow-up. They will consistently update you on your project by utilizing effective communication tools to manage the projects and all the involved parties. Our skilled staff of twenty-two (22) architects, engineers, surveyors and administration personnel all work diligently towards fabricating drawings and specifications that will deliver our clients successful projects, completed on time and within budget.

Alpha has thrived for over 50+ years because we are a professional organization dedicated to providing superior architectural and engineering design services to clients within this State and the surrounding areas. While our staff is large enough to handle any size project, we are also small enough to give each and every one of our projects the individual attention to detail that will ensure success for our clients.

THINK ALPHA FIRST.

SCHEDULE AND BUDGET.

Alpha Associates, Incorporated has an excellent track record of producing projects on time and within the Agency's budgets. Many A/E firms can claim the same successes, but our different, distinctive factor is the tools our firm utilizes to achieve the budgets, with regards to funds at the given period. Alpha utilizes a number of tools, both traditional and modern to fulfill and exceed our client's expectations.

A project schedule is a dynamic, ever-changing entity. Your project schedule depends on many factors including:

- Preferred construction method
- Changes to project scope
- Unique construction elements

The Alpha Team had an excellent track record of meeting project deadlines. Alpha recently completed construction on a project in Morgantown that went from design to completion in just over 12 months. This project was completed for a private developer that had a construction cost in excess of $20 million. On average, architecture/engineering change orders are less an ½ of 1% of the construction costs for all projects.

Examples:

- Cheat Lake Elementary School Connecting Skywalk
  - Bid: $414,000
  - Change Orders: $11,454 (2.7% *increase*)
  - A/E Change Orders: $3,341 (0.8% *increase*)
- Pineville Elementary School
  - Bid: $10,550,000
  - Change Orders: $330,452 (3.13% *increase*)
  - A/E Change Orders: $9,233 (0.09% *increase*)
- Ridgedale Elementary School
  - Bid: $769,100
  - Final: $767,446
  - -$1,653 (0.21% *decrease*)

Successful Project management depends on consensus regarding work efforts, milestones and goals. The team had found the development of detailed work plans, which delineate tasks and deliverables for each project phase, in concert with the client and full project team, is the most effective means of establishing expectations about efforts requires by the respective disciplines. In addition to guiding the efforts of the design team, the work plan sets forth specific time frames and decision points for Owner and user reviews, comments and approvals.

Developing an overall project schedule is a critical task that must take into account many factors: building type, agency's desired occupancy, scope of work and level of documentation, whether contract(s) is bid or negotiates, available fee, and experiences on similar projects. Once the design process begins, a very detailed, realistic project schedule can be developed and communicated to all involved.

SCHEDULE AND BUDGET.

In a world where “time is money”, the schedule of a project is almost as important as controlling the cost. Alpha works diligently to control the budget of the project. The best way to control the cost of a project is to avoid the “scope creep” that can occur.

Alpha’s in-house cost estimators, combined with an excellent relationship with contractors throughout the area will provide the client with the most accurate estimates early in the design process. The Alpha estimators begin at the schematic design phase of the project and develop a line-item estimate of probable construction costs that can be carried through each of the project phases. At each phase the project estimate is updated to include a more detailed estimate in order that the accuracy can be enhances. During these updated estimated, specific increases or decreases can be identified allowing the owner to make informed decisions moving forward on important budget issues for the project

Many projects employ the use of alternatives to control/maximize the budget through obtaining actual contractor pricing during the bid process. This allows flexibility for the owner in determining the costs of portions of the project that may be optional and critical for budget control.

CAPACITY AND SOFTWARE.

OUR CAPABILITIES

Alpha Associates, Incorporated is prepared to commit staff and resources to your project. For over 50+ years now, Alpha has the qualified and experienced personnel and administrative support, along with the production equipment and resources to ensure the successful completion of this project in a timely manner. We are confident in our ability to provide you with a dedicated and dependable, cohesive design team. Our multidisciplinary team is prepared to meet and exceed the expectations for your project by committing any and/or all resources necessary to consistently execute dates on the planned schedule.

USING THE LATEST SOFTWARE

The project team incorporates the latest computer and software capabilities required to complete the working drawings and specifications of this project. Our cost accounting system is top-of-the-line and we have the ability to differentiate fees according to task. We have secure e-mail and internet capability to allow efficient transfer of information between Alpha and the client. We currently have the latest editions of the following software:

- AutoCAD22
- REVIT (Editions up to 2022)
- Civil 3D
- RISA 3D
- RISA Floor
- RISA Foundation
- MathCAD
- DJI Phanton 4 RTK Drone
- Autodesk Suite
- Enercalc
- AutoTURN
- TopCON GR5 GPS System
- TopCon Total Station with Reflectorless Capabilities
- Carlson Surveyor & Data Collector

FUNDING EXPERIENCE.

Throughout our 54 years of business, Alpha Associates, Incorporated has worked with multiple funding agencies on projects, including State and Federal dollars. Our funding experience includes:

- State and Federal ARRA Funds
- West Virginia Infrastructure Loan Program
- HUD Grants and Loans
- West Virginia Economic Development Grants and Loans
- Transportation Enhancement Grants
- West Virginia State Historic Prevention Office Funds
- Small Cities Block Grants
- Tax Increment Financing
- BIG Grant (Boating Infrastructure Grant)
- USDA Rural Development/Rural Utility Service- Grants and Loans
- ARC
- School Building Authority of West Virginia
- WV DEP Revolving Loan Fund
- WV Bureau of Health Clean Water Loan Fund
- Private Bond Sales

BUILDING 37 OUTLINE APPROACH AND KEY PHASES:

Phase 1 – Initial Kick-off meeting at site to review Program and Schedule with Stake Holders/Owner

Phase 2 – Establish Schedule with Dates assigned

Phase 3 – Assessment of building façade condition

- Physical on-site inspection
- Review of existing documents if any
- Measurements and/or verification of measurements to reflect actual conditions in field.
- Arrange for moisture tests of wall condition, if moisture infiltration is a complaint. Determination of liquid rain and/or condensation as cause of infiltration.
- Arrange for thermal imaging report if deemed necessary.
- Review of any Fire-Marshal or Building Code Violation reports.
- Analysis of existing energy consumption.
- Inspection of existing roof, flashings, copings, etc.

Phase 4 – Establish conclusions and recommendations based upon observations from inspections of existing conditions.

- How to repair/replace Storefront windows, ribbon windows, etc.
- How to repair/replace certain HVAC systems. Improve energy efficiency and energy savings if any.
- How to repair/replace existing roof system.
- How to repair/clean/replace /seal exterior envelope.
- How to develop phases for renovations of an occupied building.

Phase 5 – Meeting with stakeholders/Owners to provide Building Assessment Report

Phase 6 – Determine direction of repairs

- Establish phases if necessary
- Establish probable estimate of costs

Phase 7 – Obtain approval from Stake holders to proceed to Construction Document Phase

Phase 8 – Provide written and graphic documents illustrating extent of replacement, repair and constructions of elements determined from above. Documents shall be of sufficient quality to seek competitive bids for the established Scope of Work.

Phase 9 – Assist stakeholders in Bidding and Negotiation.

Phase 10 – Provide Construction review Administration during term of construction, representing the Stakeholders/Owner's interest.

Note: Similar façade assessment had been performed by Alpha Associates, Inc. for the State Office Building located in Parkersburg and known as Building 25. Through the inspection of the facility, where the assumption by GSD had been replacement of the façade, it was discovered the façade material was not failing, but the windows were. In that situation, the windows had been installed without any flashing material and/or window dams. Building was occupied during renovation and repairs. Project sheet is amended to this document.

Note: Roofing replacements are often performed on existing, occupied buildings. An assessment that was performed and design and construction documents completed are detailed in the project sheet for the WVDOH District 2.

MEET ALPHA'S TEAM.

MANAGERS

Richard W. Klein
PE, PS
Chairman & CEO

Richard A. Colebank
PE, PS
President & COO

ARCHITECTURE

Rebecca Key
AIA-LEED-AP
Director of Architecture

Casey Smith
AIA Associate
Architectural Designer

Todd Lewis
AIA Associate
Architectural Technician

Alex Haill
Construction Administration

CIVIL ENGINEERING

Charles Branch
PE, Senior Principal
Senior Civil Engineer

Bradley Casdorph
PE, PS
Civil Engineer

Tom Simpson
PE
Civil Engineer

David Costello Jr.
PS
Manager of Surveying

Julie Frazee
Engineering Technician

Kevin McClung
Engineering Technician

Terry Higgins
Field Representative

Barbara Kerns
Survey Crew

Tyler Collins
Survey Crew

STRUCTURAL ENGINEERING

Charles Luttrell
PE, Senior Principal
Senior Structural Engineer

Matthew Echard
PE, Principal
Structural Engineer

Cody Antoon
Engineering Technician

OFFICE ADMINISTRATION

Heather Fox
Business Manager

Alexis Petrovsky
Marketing Coordinator

Kim Coolmer
Administrative Assistant

H.F. LENZ ENGINEERING

Team Introduction

Joel C. Shumaker, P.E., LEED AP

Principal-in-Charge of MEP Systems Engineering

38 years' experience

Professional Registration / Certification

Licensed Professional Engineer in West Virginia, Pennsylvania, Connecticut, Delaware, Maryland, New York, Vermont, and Virginia

John M. Weiland, P.E., CEM, LEED AP

Project Engineer/Lead Mechanical Engineer

20 years of experience

Professional Registration / Certification

Licensed Professional Engineer in West Virginia, Pennsylvania, New York, Connecticut and Ohio • Certified Energy Manager • LEED Accredited Professional • Certified Energy Manager (CEM)

Lucas E. Shumaker, P.E., CPHD

Mechanical Engineer

10 years' experience

Professional Registration / Certification

Licensed Professional Engineer, Pennsylvania; Certified Passive House Designer (CPHD)

Frank T. Restly, E.I.T.

Electrical Designer

28 years' experience

Professional Registration / Certification

Engineer-in-Training

Christopher A. Formica

Plumbing/Fire Protection System Designer

34 Years' experience

KEY PERSONNEL.

TO BE ASSIGNED TO YOUR PROJECT

All work/upgrades performed for Building 37, located in Kanawha City, will be managed out of Alpha's Morgantown office. In addition to your dedicated project team, Alpha's staff of 22 includes engineers, architects, architectural designers, technicians and support staff that are available to assist you with any potential project need. Charles "Chuck" Branch will serve as the day-to-day contact for the Project Team.

Richard A. Colebank
PE, President & COO
Principal in Charge

Rebecca Key
AIA, LEED AP
Director of Architecture

Charles Branch
PE, Senior Principal
Senior Civil Engineer

Charles Luttrell
PE, Senior Principal
Senior Structural Engineer

Matthew Echard
PE, Principal
Structural Engineer

RICHARD A. COLEBANK

PE,PS; PRESIDENT & COO

304-296-8216 | 800-640-8216

rick.colebank@thinkalphafirst.com

EMPLOYMENT HISTORY

1985-Current | Alpha Associates, Inc.

1983-1985 | Charles Townes & Associates, P.C.

1983 | US Army Corps of Engineers

EDUCATION

West Virginia University
Masters of Business Administration; 1999
Bachelor- Civil Engineering; 1982

QUALIFICATIONS

License: Professional Engineer: West Virginia, Maryland, Pennsylvania, Virginia

Professional Surveyor: West Virginia

Certified Private Pilot

AFFILIATIONS

Former NSPE/PEPP Governor of WV

American Red Cross- State Board

University High School Foundation; Charter Member; President

Morgantown Area Chamber of Commerce; Past Chairman

WVU College of Civil and Environmental Engineering Visiting Committee

WVU College of Business and Economics MBA Advisory Committee

SUMMARY

Mr. Colebank is President and Chief Operating Officer at Alpha. He has been with Alpha Associates, Inc. since 1985. He began his career with Alpha as a staff engineer and progressed through the ranks from Project Manager to his current position. Mr. Colebank has worked with diverse clients such as WVU, City of Morgantown, WVDOH, WVU Foundation, and the Morgantown Municipal Airport, as well as numerous other public and private clients. Since 1988, Mr. Colebank has been the Principal-In-Charge of the Civil Engineering projects developed by Alpha. In his current capacity, Mr. Colebank provides financial and administrative guidance for the day-to-day operations of the company while continuing to manage projects.

PROFILE

Broad-based responsibilities in the following areas:

- Project Management
- Business Operations and Financial Management
- Quality Assurance/Quality Control
- Civil Engineering Project Management and Design
- New Business Development
- Expert Testimony and Investigation

PROFESSIONAL HIGHLIGHTS

Project Principal:

- Morgantown Municipal Airport Access Road; Morgantown, WV
- Mon General Access Road; Morgantown, WV
- WVU Reedsville Farm Redevelopment; Reedsville, WV
- Monongalia General Hospital Access Road; Morgantown, WV
- WVDOH Martinsburg Train Station Corridor Streetscape; Martinsburg, WV
- WV State Office Building; Parkersburg, WV
- College of Physical Activity & Sports Science; Morgantown, WV
- WVDOH Open End Engineering Contract; WV
- WVDOH Deckers Creek Pedestrian Bridge; Morgantown, WV
- Clarksburg State Office Building; Clarksburg, WV
- Jane Lew Truck Stop; Jane Lew, WV
- Grant County Bank Addition & Renovation; Petersburg, WV
- South Berkeley Fire Station; Inwood, WV

REBECCA KEY

AIA, LEED-AP; DIRECTOR OF ARCHITECTURE

304-296-8216 | 800-640-8216

rebecca.key@thinkalphafirst.com

EMPLOYMENT HISTORY

2000-Current | Alpha Associates, Inc.

1983-1999 | Alexander Key and Associates

1978-1983 | Webster Clothes;
Director of Store Planning

EDUCATION

University of Maryland
Bachelor of Architecture; 1977

Maryland Institute College of Art
Coursework in Furniture Design; 1986-1987

QUALIFICATIONS

License: Registered Architect: Maryland, New York, Pennsylvania, Virginia, Washinton DC, West Virginia

NCIDQ Certified (Interior Design)

Leadership in Energy and Environmental Design Accredited Professional

Meet Standards of Secretary of the Interior for Historic Architecture

AFFILIATIONS

American Institute of Architects

West Virginia Society of Architects

Fairmont, WV ICC Board of Appeal; Board Member

U.S. Green Building Council

AIA Liveable Communities

Leadership Kanawha Valley
Class of 2014

SUMMARY

Ms. Key has worked in the architectural field for over 35 years. She serves as Project Architect/Project Manager for numerous architectural designs at Alpha Associates, Inc. Ms. Key is involved from the programmatic stages and schematic designs all the way through construction documents to construction administration. Having been with Alpha since 2000, Ms. Key has provided design services on numerous projects that have contributed to the ever-growing skyline of Morgantown, Charleston, Bridgeport, and other areas around the state.

PROFILE

Broad-based responsibilities in the following areas:

- Architectural Design
- Interior Design and Space Planning
- Feasibility Studies
- Water Infiltration Analysis
- Historic Renovation
- Project Management

PROFESSIONAL HIGHLIGHTS

Education:
- Ridgedale Elementary; Morgantown, WV
- Mountaineer Middle School; Morgantown, WV
- Pineville Elementary; Pineville, WV
- Washington High School; Chares Town, WV

Historic Renovations:
- Cass Scenic Railroad- Clubhouse Renovation; Cass, WV
- Berkeley Springs Bathhouse; Berkeley Springs, WV
- Hawks Nest State Park Picnic Pavillion; Anstead, WV
- Hawks Nest State Park CCC Museum; Anstead, WV

Recreation:
- Ruby McQuain Amphitheater; Morgantown, WV
- North Fork Hughes River State Park; Ritchie County, WV

Dormitory and Multi-Family
- Fairmont State University Prichard Hall Renovation; Fairmont, WV
- WVU Boreman Hall; Morgantown, WV
- Augusta Apartment Building; Morgantown, WV
- Grand Central Apartments

Municipal & State Government
- WV State Office Building; Clarksburg, WV
- Mon County Family Court Renovation; Morgantown, WV
- Mon County Sheriff's Department; Morgantown, WV
- White Hall Municipal Building; White Hall, WV
- WV State Office Building; Parkersburg, WV

CHARLES B. BRANCH

PE; SENIOR PRINCIPAL & CIVIL ENGINEER

304-296-8216 | 800-640-8216

chuck.branch@thinkalphafirst.com

EMPLOYMENT HISTORY

1992-Current | Alpha Associates, Inc.

1988-1992 | Reimer, Muegge, & Associates, Inc.

EDUCATION

West Virginia University
Bachelor- Civil Engineering; 2000

Fairmont State College
Bachelor- Architectural Engineering Technology; 1988

QUALIFICATIONS

License: Professional Engineer; West Virginia

AFFILIATIONS

WV Society of Professional Engineers

National Society of Professional Engineers

SUMMARY

As Chief Engineer for site development and planning projects, Mr. Branch is a vital part of the design process at Alpha. His involvement spans from strictly civil engineering projects, to the design of large scale educational projects and medical facilities. Mr. Branch acts as peer review for young engineers in the firm on issues ranging from storm water management to site design. Mr. Branch is also involved in commercial and residential development design, roadway and bridge design and utilities layout.

PROFILE

Broad-based responsibilities in the following areas:

- Highway Design
- Municipal Engineering
- Wastewater Collection
- Storm Sewer System Design
- Storm Water Management
- Site Engineering
- Project Management

PROFESSIONAL HIGHLIGHTS

Civil Engineer/Project Manager:

- Jane Lew Truck Stop; Jane Lew, WV
- Clarksburg State Office Building; Clarksburg, WV
- WVU Reedsville Farm Redevelopment; Morgantown, WV
- Freedom Automotive Group Dealerships; Morgantown, WV
- Freedom Kia; Clarksburg, WV
- WVU Parking Lot 81 Renovations; Morgantown, WV
- WVU Doll's Run Burn Room; Morgantown, WV
- WVU Alumni Center Parking Lot; Morgantown, WV
- WVU Alumni Center Storm Water Management; Morgantown, WV
- WVU Health Sciences Center Eastern Division; Martinsburg, WV
- WVDOH Martinsburg Train Station Corridor Streetscape; Martinsburg, WV
- WVDOH I-77 Welcome Center; Williamstown, WV
- WV Medal of Honor Recipients Plaza; Hazleton, WV
- Lewis County High School Bridge; Weston, WV
- Wyoming County Route 10 Relocation; Wyoming County, WV
- Fairmont Federal Credit Union; Bridgeport, WV
- Queen St Underpass; Martinsburg, WV
- Martinsburg Little League Fields; Martinsburg, WV

CHARLES B. LUTTRELL

PE; SR. PRINCIPAL & STRUCTURAL ENGINEER

304-296-8216 | 800-640-8216

charlie.luttrell@thinkalphafirst.com

EMPLOYMENT HISTORY

1996-Current | Alpha Associates, Inc.

1995-1996 | Larry D. Luttrell, PE, PhD

1991-1994 | West Virginia University

1990-1991 | WVU Constructed Facilities Center

EDUCATION

West Virginia University
Masters- Structural Engineering; 1995
Bachelor- Civil Engineering; 1993

QUALIFICATIONS

License: Professional Engineer: West Virginia, Pennsylvania

AFFILIATIONS

WV Society of Professional Engineers

National Society of Professional Engineers

Chi Epsilon; Member

American Concrete Institute; Member

RESEARCH EXPERIENCE

Cold Formed Steel Deck Research
- Fastener Failures
- Edge Conditions/Failures
- Buttoned Overlap Sheer Failures

Composite Cold Formed Steel and Concrete Deck
- Line Load Behavior/Failures
- Concentrated Load Behavior/Failures
- Web Crippling
- Punch Failures

SUMMARY

Mr. Luttrell has worked with Alpha Associates, Inc. since 1996. He is the chief structural engineer on all projects at Alpha. Before coming to Alpha, Mr. Luttrell's graduate work resulted in several contributions to the cold-formed steel deck industry. His new method of analysis for non-uniform loads on composite concrete and cold formed steel decks has been made a permanent part of the Steel Deck Institute's design manual. Mr. Luttrell also worked on projects that involved pre-stressed timber bridge research with WVU Constructed Facilities Center. Since coming to Alpha, Mr. Luttrell has had significant involvement in the effort to begin utilizing modern composite materials in practical bridge applications.

PROFILE

Broad-based responsibilities in the following areas:
- Project Management
- Business Operations and Financial Management
- Quality Assurance/Quality Control
- Civil Engineering Project Management and Design
- New Business Development
- Expert Testimony and Investigation

PROFESSIONAL HIGHLIGHTS

Structural Engineer:
- Freedom Automotive Group 3 Dealerships; Morgantown, WV
- Hazel Ruby McQuain Equine Education & Resource Center; WVU
- WVDOH Arnettsville Replacement Bridge; Morgantown, WV
- Clarksburg State Office Building; Clarksburg, WV
- Grant County Bank Addition & Renovation; Petersburg, WV
- South Berkeley Fire Station; Inwood, WV
- Alumni Center Structural Framing and Foundation; WVU
- Engineering Science Building, East Wing Addition; WVU
- Hazel Ruby McQuain Amphitheater Roof; Morgantown, WV
- Shepherd University Pedestrian Underpass; Shepherdstown, WV
- Washington High School; Charles Town, WV
- WVU Coliseum Structural Inspection; Morgantown, WV
- Alderson Broaddus College, Rex Pyles Arena Deck; Phillipi, WV
- Monongalia County Sheriff's Building; Morgantown, WV
- South High Street Bridge; Morgantown, WV
- Ices Ferry Bridge; Morgantown, WV
- Matthews Foundry Structural Evaluation; Martinsburg, WV
- Martinsburg Little League Fields; Martinsburg, WV
- Martinsburg WWTP; Martinsburg, WV
- Queen St. Underpass; Martinsburg, WV
- Winchester & Western RR Rt. 11 Bridge; Martinsburg, WV

MATTHEW T. ECHARD

PE; PRINCIPAL & STRUCTURAL ENGINEER

304-296-8216 | 800-640-8216
matthew.echard@thinkalphafirst.com

EMPLOYMENT HISTORY

2016-Current | Alpha Associates, Inc.
2010-2015 | Echard ingenieurBüro
2006-2009 | Buro Happold Consulting Engineers
2003-2006 | Risa Technologies, Inc.
200-2003 | Zaldastani Associates, Inc.

EDUCATION

Massachusetts Institute of Technology
Masters- Engineering & Environmental Mechanics, 2002

West Virginia University
Bachelors of Science- Civil Engineering, 2000

QUALIFICATIONS

License: Professional Engineer:
West Virginia, California

California OES SAP Evaluator

AFFILIATIONS

American Concrete Institute (ACI) American Institute of Steel Construction (AISC) American Society of Civil Engineers (ASCE) American Wood Council (AWC)

PUBLICATIONS

Echard, M. and Tonis, D. Convergent Design Methodology for Bio-Science Labs: Architectonic and Performative Structural Considerations Using the Geilinger Composite Column Solution. Proceedings of ICSA2010-First International Conference on Structures and Architecture Guimaraes, Portugal, July 2010, Taylor & Francis

Echard, M. Structural Analysis and Design Within a BIM Framework. EASEC 10-East Asia Structural Conference, Bankok, Thailand, August 2006

SUMMARY

Mr. Echard joined Alpha Associates, Inc. in early 2016 with a strong belief that his clients deserve intelligent, performance-based and value-oriented solutions. Drawing on experience working across the United States, Europe, and the Mid-West, Mr. Echard returned to West Virginia to provide world-class service in a historically unreserved region while making positive contributions to his home state. Me. Echard places a large value on collaborative work process, believing that a building's far form and function are derived from many contexts. Mr. Echard's office is located in the corporate office in Morgantown, WV.

PROFILE

Broad-based responsibilities in the following areas:
- Structural Engineering & Forensics
- Design Management
- Construction Optimization
- New Business & Client Development

Current research area(s):
- Next-generation sustainability strategies in design and construction

PROFESSIONAL HIGHLIGHTS

Pedestrian Bridges:
Coopers Rock Overlook Bridge Replacement; Monongalia Co., WV
Deckers Creek Rail-Trail, Greenmont Pedestrian Bridge; Morgantown, WV
Harvard Allston Science Complex (HASC); *Harvard University*, Allston, Boston, MA*
- Pedestrian Bridges & Wintergardens

Buildings:
Burj Daman (60 stories); DIFC, Dubai, UAE*
Columbus Center Parcel 16 (34 stories); Boston, MA*
Continuities of the Incomplete, *Museum of Modern Art (MOMA)*; Los Angeles, CA*
Falmouth High School Renovations and New Gymnasium; Falmouth, MA*
HASC Building 1 (8 stories); *Harvard University*, Allston, Boston, MA*
Herb Alpert Educational Village, Capshaw-Spielberg Center for Educational Justice, Performing Arts and Leadership Center; Santa Monica, CA*
Hotel America (55 stories); Dubai, UAE*
King Abdullah Financial District (KAFD); Riyadh, Saudi Arabia*
- Parcels 2.09, 2.14 (26 stories), and 4.07/4.08 (40 stories)

Logan Airport Central Parking Garage and Expansion; Boston, MA*
ND Paper Hydrapulper Expansion, Fairmont, WV
TAJ Mall; Abdoun, Amman, Jordan*
UCLA Sproul Hall, Cove & Landing Residences (8 stories); Westwood, Los Angeles, CA*
WVDOH District 7 Multi-purpose and Lab Buildings; Roanoke, WV

*project experience at previous firm

Joel C. Shumaker, P.E., LEED AP

Principal-in-Charge of MEP/FP Systems Engineering

Mr. Shumaker is a Principal of H.F. Lenz Company and specializes in office buildings and higher education projects. He has over 35 years of experience and has been directly involved in our Pitt projects throughout the majority of his career. In addition, he also has a particular specialization in library projects. Many of which have begun with a comprehensive evaluation and planning study. He is responsible for client contact, project scheduling, preparation of reports and cost estimates, coordination and supervision of project design teams, and other project management functions.

Education

Bachelor of Science, Electrical Engineering Technology 1993, University of Pittsburgh at Johnstown

Experience

H.F. Lenz Company 1985-Present

Professional Registration / Certification

Licensed Professional Engineer in PA, CT, DE, MD, NY, VT, VA and WV

LEED Accredited Professional

Professional Affiliations

Pennsylvania Society of Professional Engineers, Johnstown Chapter Secretary

National Society of Professional Engineers

Keystone Chapter of Association of Physical Plant Administrators • International Society of Pharmaceutical Engineers (ISPE)

Project Experience

Clarksburg State Office Building, Clarksburg, WV

- Multi-discipline design of a new 85,250 SF, five-story office building to house seven West Virginia state agencies; sustainable design features include an HVAC system that utilizes a chilled water system with ice storage to save energy costs

U.S. Department of Agriculture, Morgantown, WV

- Tenant fit-out of approximately 40,000 SF of an existing building for office space, conference areas, lobbies, mailroom, credit union, computer center and storage space for a government agency; has attained LEED Certification

U.S. General Services Administration, Charleston, WV

- New, two-story 19,427 SF office building to house offices for the Federal Bureau of Investigation designed to achieve LEED Silver and includes a variety of office spaces, evidence areas and a garage

West Virginia University, Morgantown, WV

- New 54,000 SF Alumni Center with an upscale clubroom, a banquet hall, three conference rooms, a board room, offices, retail space and storage rooms

Western Maryland Railway Station, Meyersdale, PA

- Restoration and rehabilitation of the historical railway station that serves as a visitor center and train center

City of Conneaut, Conneaut, OH

- Replacement of chiller in the City Hall Building

John M. Weiland, P.E., CEM, LEED AP

Project Engineer/Lead Mechanical Engineer

Mr. Weiland specializes in the design of HVAC systems for office building, educational and laboratory facilities of all types. His responsibilities include client contact, project scheduling, preparation of reports and cost estimates, coordination and supervision of project design teams and other projects management functions. His duties include design calculations, equipment selection, schematic and construction document design, specification writing, and life cycle cost analyses.

Education
Bachelor of Architectural Engineering, 2002, Pennsylvania State University

Experience
H.F. Lenz Company 2002-Present

Professional Registration / Certification
Licensed Professional Engineer in WV, PA, NY, CT and OH

Certified Energy Manager

LEED Accredited Professional

Certified Energy Manager (CEM)

Professional Affiliations
ASHRAE – Johnstown, PA Chapter

Project Experience

Clarksburg State Office Building, Clarksburg, WV
- Multi-discipline design of a new 85,250 SF, five-story office building to house seven West Virginia state agencies; sustainable design features include an HVAC system that utilizes a chilled water system with ice storage to save energy costs

West Virginia University, Morgantown, WV
- New 54,000 SF Alumni Center with an upscale clubroom, a banquet hall, three conference rooms, a board room, offices, retail space and storage rooms

U.S. General Services Administration, GSA Region 3
- Term Contract for AE Design Services; projects involve alteration, renovations, and modernizations of federal buildings and courthouses in Region 3 North Service Sector, over 30 task orders were issued, including:
  - Nix Building Lobby Upgrades
  - SSA Williamsport Lobby Renovations
  - Federal Protective Service and GSA Field Office Renovations
  - Federal Highway Administration Harrisburg Office Renovation
  - Social Security Administration Childcare Center Renovation
  - Bryne Chambers Consolidation
  - Bryne 3rd Circuit Library Renovation
  - Mid-Atlantic Social Security Center Armory Renovation

University of Pittsburgh, Pittsburgh, PA
- Renovation of 400,000 SF Benedum Hall; including the replacement of mechanical, electrical, plumbing and fire protection systems on all 15 floors - LEED Gold

Lucas E. Shumaker, P.E., CPHD

Mechanical Engineer/HVAC

Mr. Shumaker is a Mechanical Engineer at H.F. Lenz Company. He has 10 years of experience with HFL and has experience in the design of HVAC systems. His responsibilities have included design calculations, equipment selection, schematic and construction document design, specification writing, and life cycle cost analyses. His experience includes the design of mechanical systems for hospitals, educational facilities and office buildings.

Education

Bachelor of Science, Mechanical Engineering Technology, 2012, University of Pittsburgh at Johnstown

Experience

H.F. Lenz Company 2012-Present

Professional Registration / Certification

Licensed Professional Engineer in PA

Certified Passive House Designer (CPHD)

Professional Affiliations

American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE)

Project Experience

Youngstown Public Library, Youngstown, OH

- Renovations to a historic community library

Saint Francis University, Loretto, PA

- Renovations to the 34,062 SF JFK Student Center

Lebanon Valley College, Annville, PA

- Renovation and expansion to the 75,779 SF existing Mund Center including a dining hall, lobby, bookstore, conference rooms, theater, event space, and lounge areas

Culinary Institute of America, Hyde Park, NY

- Student Recreation Center: 40,000 SF addition including a 28,500 SF cafeteria and kitchen which serves as the main student dining facility

West Virginia University, Morgantown, WV

- Redevelopment of the Reedsville Farm to enable the facility to offer distance education courses and an annual signature event

Pennsylvania American Water (PAW), Various Locations, PA

- Bethel Park Operations Center Renovation - Renovations to the existing building for use as an Operations Center
- Warren Operations Center Renovation - Renovations of an existing facility for use as an Operations Center
- Uniontown Operations Center Renovation - renovation of an existing building for use as an Operations Center

Evoqua Water Technologies, Pittsburgh, PA

- Interior fit-out of approximately 18,000 SF of wet lab and office space located in the Tech Forge Building

Frank T. Restly, E.I.T.

Electrical Designer

Mr. Restly is experienced in the design of electrical systems for both new buildings and building retrofits for higher education, commercial, and governmental facilities. He is experienced in the design of power distribution systems, control systems, lighting and emergency lighting systems.

His duties also include coordination with regulatory agencies, equipment selection, coordination with other disciplines, checking of construction documents for quality assurance.

Education

Bachelor of Science, Electrical Engineering, 1995, University of Pittsburgh at Johnstown

Experience

H.F. Lenz Company 2010-Present
Villi Electrical Group 2010-2009
Augusta Engineering 2009-2006
Tri County Electric 2006-1995

Project Experience

West Virginia University, Morgantown, WV

- New 54,000 SF Alumni Center with an upscale clubroom, a banquet hall, three conference rooms, a board room, offices, retail space and storage rooms
- Renovation of the 95,500 sq.ft. White Hall
- Arnold Hall renovations
- Life Science renovations
- New 5MVA and 3 MVA transformers
- New 480V and 208V secondary electrical services
- Design of 2,000 feet of 23kV feeder conductors and ductbank through highly congested urban setting

Saint Francis University, Loretto, PA

- JFK Student Center renovations to a 34,062 SF building that had not had any major renovations to the HVAC systems since the building was built in 1965

University of Pittsburgh at Johnstown, Johnstown, PA

- Design for a 60 kW standby generator for the IT Department at Owen Library; included short circuit and arc flash analysis

Pennsylvania American Water (PAW) – Various Locations, PA

- Bethel Park Operations Center Renovation - Renovations to the existing building for use as an Operations Center
- Warren Operations Center Renovation - Renovations of an existing facility for use as an Operations Center
- Uniontown Operations Center Renovation - renovation of an existing building for use as an Operations Center

Christopher A. Formica

Plumbing/Fire Protection System Designer

Mr. Formica has designed complete plumbing systems for hospitals, colleges, schools, office buildings, prisons, and laboratories. He is responsible for plumbing design, layout, specifications and calculations; selection and sizing of equipment cost estimates; and site survey work. Mr. Formica coordinates the plumbing design with utility companies, with other trades, and with the Project Engineer and Project Architect; and is responsible for assembling complete and accurate plumbing bid documents which meet H.F. Lenz Company standards.

Education

Associate in Architectural Design, 1989, Pennsylvania Technical Institute

Experience

H.F. Lenz Company 1997 - Present
Dynamic Design Company 1996
Miller-Picking Corp. 1993 - 1995
Dupont-Belcan. 1991-1993
Simions Eastern. 1989-1991

Project Experience

West Virginia University, Morgantown, WV

- New 54,000 SF Alumni Center with an upscale clubroom, a banquet hall, three conference rooms, a board room, offices, retail space and storage rooms
- Renovation of the 95,500 SF White Hall

Mylan Pharmaceutical, Morgantown, WV

- Various building renovations and fit-outs for offices, labs and storage spaces

Yale University, Haven, CT

- 246 Church St.: Office renovation of the 4th floor to accommodate dining services administrative functions
- Kirkland Hall office and testing lab renovation
- Greeley Memorial Laboratory - Comprehensive MEP renovations to a 24,000 SF mid-century Paul Rudolph landmark building that house offices, labs and public space

Pennsylvania American Water (PAW), Various Locations, PA

- Bethel Park Operations Center Renovation - Renovations to the existing building for use as an Operations Center
- Warren Operations Center Renovation - Renovations of an existing facility for use as an Operations Center
- Uniontown Operations Center Renovation - renovation of an existing building for use as an Operations Center

University of Pittsburgh, Pittsburgh, PA

- Phased renovation of Benedum Hall, a 400,000 SF high-rise building that contains classroom, research, wet lab, dry lab, computer lab and faculty offices for the University's Swanson School of Engineering - LEED Gold

STATE BUILDING 25
FAÇADE RENOVATIONS

Parkersburg, WV; 2020

At a Glance:

CLIENT: State of West Virginia
LOCATION: Parkersburg, WV
COMPLETION DATE: 2020
SIZE: Building Exterior
CONSTRUCTION COST: $2,924,450

Project Contact:

Scot Casdorph, A&E Manager
112 California Ave.
Bldg. 4 5th Floor
Charleston, WV 25305
304-957-7145

Moisture infiltration in the form of liquid rain had been entering the offices along the perimeter of the building facing 5th & Avery Street for a number of years. The cause of the building envelope failure was determined to be the lack of window flashing installed during the 1980s façade renovation.

Alpha Associates, Inc. designed a new “rain screen” system that echoed the original brick and limestone façade with oversized fenestration that brought much welcomed daylight to the office interiors.

Building 25 is the 2021 Recipient of the City of Parkersburg Downtown Curb Appeal Award.

Alpha
ARCHITECTS ENGINEERS

MOUNTAINEER MIDDLE SCHOOL
LIMESTONE FAÇADE RENOVATION

Morgantown, WV; 2020

At a Glance:

CLIENT: Monongalia County Schools
LOCATION: Morgantown, WV
COMPLETION DATE: 2018
SIZE: Exterior of Building
CONSTRUCTION COST: $294,500
CONTRACTOR: Mardo Masonry

Project Contact:

Ed Campbell, Superintendent
13 South High Street
Morgantown, WV 26501
304-291-9210

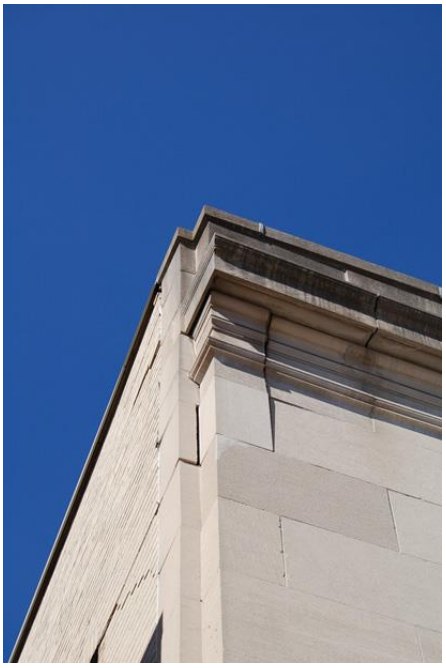
The original 1923 limestone entrance was built with an “open-air” tunnel under the main staircase of the entrance.
Through the years, it became a safety and security issue. The “tunnel” had been closed off and designated as “storage area”. Water in the form of liquid rain and condensation appeared overtime in the room adjacent to the “storage area”.

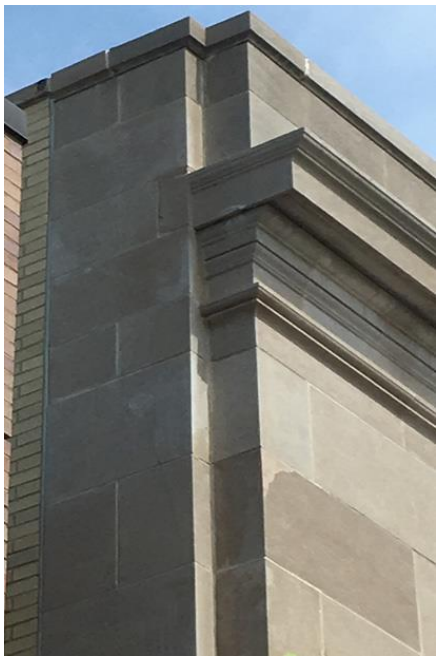
Alpha Associates, Inc. created restoration documents of the limestone entrance, from the limestone parapet to the end of the limestone stairs. Still concerned about the security and safety of the “tunnel”, the water infiltration was resolved, and the arched opening was reimagined and rebuilt to blend in with the original stonework.

Alpha
ARCHITECTS ENGINEERS

MORGANTOWN CITY HALL FAÇADE RESTORATION

Morgantown, WV; 2018





At a Glance:

CLIENT: City of Morgantown
LOCATION: Morgantown, WV
COMPLETION DATE: 2018
SIZE: Exterior of Building
CONSTRUCTION COST: $600,000

Project Contact:

Damien Davis, City Engineer
389 Spruce Street
Morgantown, WV 26505
304-284-7412

The 1926 limestone and brick building had once been the City of Morgantown's Fire and Police Department. Now operating as City Hall for Morgantown, WV; deferred maintenance and aging of structure over the past nearly 100 years, required significant repairs to the limestone edifice.

Through careful investigation of the structure, and examination of the original drawings, it was determined that one of the major failures of the limestone façade was occurring in a location that should have had an expansion joint. This structural anomaly was repaired with the reuse of existing limestone, and newly quarried stone from the original quarry. Other repairs and restoration were performed at the limestone parapet and brick sidewalls at windows and cornices on three sides of the building, and inner court.

Alpha Associates provided the following services to complete the project:

- Discovery, Site Investigation and Probing
- Building Envelope Model and Analysis
- Restoration and Repair Design along with Estimate of Probable Cost
- Bidding and Construction Administration Services

CLARKSBURG STATE OFFICE BUILDING DEMOLITION

Clarksburg, WV; 2016

At a Glance:

CLIENT: State of West Virginia
LOCATION: Clarksburg, WV
COMPLETION DATE: 2012
SIZE: Bldg.: 80,000 Square Feet
CONSTRUCTION COST: $602,000

Project Client:

William Barry
1900 Kanawha Blvd. East
Charleston, WV 25305
304-957-7188

Alpha Associates, Incorporated provided professional design services for the demolition, removal and site restoration of an 80,000 SF, six story existing hotel/office building in Clarksburg, WV. Building components were to be salvaged, reused, recycled and removed utilizing sustainable methods and documented in accordance with LEED Certification. The demolition company successfully salvaged and recycled 95% of the existing building.

Prior to bid documents for demolition, the building was physically surveyed by Alpha's surveyors, structural engineers, and architects. Alpha's environmental consultant also performed a hazardous materials inspection and Phase I and Phase II Environmental Survey, as the site contained underground fuel tanks that had been abandoned.

Alpha
ARCHITECTS ENGINEERS

MOUNTAINEER MIDDLE SCHOOL RENOVATION

Morgantown, WV; 2009

At a Glance:

CLIENT: Mon County Schools
LOCATION: Morgantown, WV
COMPLETION DATE: 2009
SIZE: 115,780 Square Feet
CONSTRUCTION COST: $8.4 Million

Project Contact:

Frank Devono
13 South High Street
Morgantown, WV 26505
301-291-9210

Alpha ARCHITECTS ENGINEERS

The transformation of a former high school into a middle school for Monongalia County Schools created an opportunity to retain the grand edifice and create a new main entrance that met the needs of the Safe School Initiative and provided for an accessible route for students, staff and visitors.

The renovation project included the removal of an 80 year old boiler/heating system, abatement of asbestos containing materials, reconfiguration of classrooms and support space, with new HVAC, sprinklers system, new roof and redesign and paving of the parking lots and access road.

The renovation also included relocating the administrative offices adjacent to the buildings primary entrance.

DEPARTMENT OF HIGHWAYS DISTRICT 2 SHOP BUILDING

Huntington, WV; 2014

At a Glance:

CLIENT: WV Division of Highways
LOCATION: Huntington, WV
COMPLETION DATE: 2014
SIZE: Blg: 44,000 Square Feet
CONSTRUCTION COST: $133,000

Project Contact:

Chris Francis
WVDOH Project Manager
304-558-9693
chris.j.francis@wv.gov

Alpha Associates, Incorporated provided architectural design, civil and structural engineering for a multi-phasic roof replacement of the WV Department of Highways Headquarters 2 Shop Building located in Huntington, WV.

Site constraints and adjacent overhead structures made the development and construction of the project very challenging.

The new roof included EPDM over insulated flute fillers and cover board. New stainless steel gutter liners with additional rain leaders were used to improve roof drainage and stop liquid rain infiltration.

Alpha ARCHITECTS ENGINEERS

RDEPARTMENT OF HIGHWAYS DISTRICT 2 HEADQUARTERS

Huntington, WV; 2014

At a Glance:

CLIENT: WV Division of Highways
LOCATION: Huntington, WV
COMPLETION DATE: 2014
SIZE: 73,500 SQF
CONSTRUCTION COST: N/A

Project Contact:

Chris Francis
WVDOH Project Manager
(304) 588-9693
Chris.j.francis@wv.gov

Alpha Associates, Inc. provided architectural design and structural engineering services for a multi-phasic roof replacement of the WV Department of Highways District 2 Headquarters located in Huntington, WV.

Alpha's team evaluated various solutions to provide the most efficient and most cost effective method of roof replacement.

The existing roof was ballasted EPDM, and had been laid over a four-ply built-up roof. Testing determined that the BUR (Built-up Roof) material under the EPDM had significant quantities of asbestos.

After removal, the roof was replaced with, glued, and mechanically fastened insulation and 90 mil EPDM.

Alpha
ARCHITECTS ENGINEERS

ALPHA EXPERIENCE

Roof Replacement Experience | Since 1969

Architectural Case Studies

Roof Replacement Experience

Various Locations

Universities

- WVU Jackson's Mill 4-H Camp
- Kanawha Cottage and Mount Vernon Dining Hall
- The Robert C. Byrd Health Sciences Center – WVU
- WVU Agriculture Sciences Center
- WVU Admissions and Records
- WVU Fire Training Building

Public Schools

- Buckhannon Upshur Middle School
- South Junior High School
- Cheat Lake School
- Ridgedale Elementary School
- Jakes Run Elementary School
- Buckhannon Upshur High School
- Morgantown High School
- Mountaineer Middle School
- Maysville Elementary School
- Tennerton Elementary School
- Union Educational Complex
- Grafton High School

STATE OF WEST VIRGINIA

Clarksburg State Office Building

Clarksburg, WV

Services
Mechanical, Electrical, Plumbing and Fire Protection

Square Footage
85,250

Completed
2016

Cost
$20 million

Accreditations
LEED Silver Certification

Reference
Mr. David Hildreth
State of West Virginia
1409 Greenbrier Street
Charleston, WV 25311
PH: 304-558-0510

H.F. Lenz Company provided the mechanical, electrical, plumbing, fire protection, and telecommunications engineering services for the design of a new 85,250 SF five-story office building to house seven West Virginia state agencies.

The HVAC system utilizes a chilled water system with ice storage to save energy costs. The majority of the building is served by three VAV modular air handling units located in the building penthouse. A Direct Digital Control (DDC) System provides the control for the HVAC system. The system interfaces with the current system that the State of West Virginia uses to monitor its buildings from a remote location in Charleston, WV.

Lighting relay panels provide 24/7 control of the lighting in the larger areas on the various floors. Relay panels are installed on all floors except the basement. Vacancy (Occupancy) sensors are installed in all areas not described above to provide automatic shut off lights. In areas subject to larger amounts of natural light, daylight harvesting sensors are placed near windows to step-dim (reduce light output to 50%) local light fixtures in response to amount of sunlight present within the space and save energy.

A Main Telecommunications Room (MTR) is provided that houses all the service entrance equipment for signal system demarcation points as well as distribution equipment to provide the buildings signal infrastructure. Intermediate Telecommunications Rooms (ITR), feed from MTR, are constructed on each floor and contain equipment to distribute signal systems to the end user.

The project was designed to achieve LEED Silver Certification. State agencies began moving into the new building in 2016.

Meeting the Project Goals

An important goal of the project was to provide an energy efficient, state-of-the-art facility with sustainable design features capable of achieving LEED Silver Certification. H.F. Lenz Company helped meet this goal by designing an HVAC system that utilizes a chilled water system with ice storage to save energy costs. The lighting system design also contains several energy conserving elements.

U.S. General Services Administration

General Services Administration (GSA)

New Office Building for Federal Agency

Charleston, WV

Services
Mechanical, Electrical, Plumbing and Fire Protection

Square Footage
19,427

Completed
2010

Cost
$4.5 million

Accreditations
LEED Silver Certification

Reference
Mr. Nick Colasante
Glenmark Holding, LLC
304-599-3369

H.F. Lenz Company provided the mechanical, electrical, plumbing and fire protection engineering services for the design a of a new, two-story 19,427 SF office building in Charleston, West Virginia to house an agency of the intelligence community offices. The facility includes forensic evidence labs, investigators' work and technology spaces, and service bays to modify surveillance vehicles.

The building was designed with energy efficient systems and sustainable design criteria including water conservation, use of regionally manufactured materials, increased ventilation, use of renewable energy sources, and a pre-occupancy construction indoor air quality management plan. The project goal was to meet the requirements of LEED Silver (minimum) and attain an ENERGY STAR rating of 75 or above.

Features of the Project Included:

- Variable air volume HVAC system consisting of gas-fired rooftop air-handling units with DX cooling and energy recovery, supplemental cooling for specialty areas such as server rooms and areas with concentrated high heat loads. A separate air-handling unit for the mailroom area will minimize any airborne threats. Another HVAC security measure includes the strategic placement of outdoor air intakes to minimize the risk of contaminants being entrained into the building through the outdoor air intake
- An electrical distribution system that will supply 10 watts/sq.ft. of power to the building, as well as an exterior 50kw standby/emergency generator that will serve the backup power needs
- A complete data/communications system which includes separate telecommunications closets for the internal system servers that will be used to meet the function of the building. The system features include category 6A horizontal cabling, incoming optical fiber cabling, wire racks and bridal rings for wire management
- A fire alarm system with a voice/alarm communication system
- An automatic sprinkler system designed to NFPA requirements
- The design of a wet lab area that includes a separate fume hood exhaust system
- Garage bays that are used to modify/examine vehicles
- Building commissioning

U.S. Department of Agriculture

Base Building and Tenant Fit-up of Office Building

Morgantown, WV

Services
Mechanical, Electrical, Plumbing, Fire Protection

Square Footage
40,000

Completed
-

Cost
$16.5 million

Accreditations
LEED Certification

Reference
Mr. John Pettit
Executive Office, Farm Service Agency
304-284-4881

H.F. Lenz Company is currently providing the mechanical, electrical, plumbing, and fire protection engineering services for the tenant-fit out of approximately 40,000 SF of a GSA-leased building to be utilized by the U.S. Department of Agriculture. The fit-out space consists mainly of offices, conference areas, lobbies, mailroom, credit union, computer center, storage space and a loading dock.

The project included:

- A central HVAC system with main and branch lines, VAV boxes, dampers, flex ducts, and diffusers for the office layout and commons areas. Separate HVAC units for the mail room and lobby spaces were provided in order to prevent contamination of other areas of the building in the event of a security threat. A separate computer room air-conditioning unit was also provided for the central computer center.
- New 277/480 V and 120/208 V, 3 phase, 5-wire electrical distribution system serving panelboards located on each floor of the complex. Receptacles supplying power to sensitive equipment were provided with an isolated ground system to prevent unwanted noise from being passed through the electrical distribution system.
- Energy Efficient Lighting with occupancy sensors for automatic control of the lighting fixtures.

The project incorporated several sustainable concepts and was designed to attain LEED™ Certification.

West Virginia State Capitol Complex

Study and Design for New Central Chilled Water Plant

Charleston, WV

Services
Mechanical, Electrical, Plumbing, & Fire Protection

Square Footage
4,500

Completed
2002

Cost
-

Reference
Timothy Lee
Assistant Director
304-558-5672

The H.F. Lenz Company was hired to determine the most cost effective and energy efficient method for supplying chilled water to seven buildings (1.3 million SF) making up the West Virginia State Capitol Complex. Each of the seven buildings had its own chiller plant with many of the 15 chillers approaching the end of their useful life.

A detailed engineering analysis of three options was developed that included project scopes, conceptual drawings, calculations, and detailed cost estimates and calculations of energy and maintenance cost savings.

The H.F. Lenz Company showed that constructing a new central chiller plant with a main chilled water distribution loop would result in the lowest energy costs and maintenance costs with a payback period of four years.

The new chiller plant consists of three 1,200-ton and two 600-ton industrial grade centrifugal chillers along with their associated cooling towers, free cooling heat exchangers, chilled water and condenser water pumps, and automatic temperature controls. Variable speed drive pumping is incorporated for energy savings.

The new chilled water distribution system consists of approximately 5,000 feet of direct burial chilled water piping of various sizes. The seven Capitol Complex buildings are connected to this central loop by chilled water bridges.

The H.F. Lenz Company also provided the architectural and structural design work for the 4,500 SF chiller plant. A new facade was provided on two sides of the building, and a new internal structural framework was provided for support of the piping mains and cooling towers.

West Virginia University

Multiple Projects

Morgantown, WV

Services
Mechanical, Electrical, Plumbing, Fire Protection, Commissioning, Civil, Structural

Completed
Various Dates

Cost
Varies

Reference
Zenaba Qadeer
Construction Manager
West Virginia University
PH: 304-276-7364
Zenaba.qadeer@mail.wvu.edu

H.F. Lenz Company has provided multi-discipline engineering services for West Virginia University for over 25 and has held seven term contracts, which have included AHU System upgrades, HVAC System Replacements, and other various facility upgrades.

A few of our projects have included:

- **Towers Dormitories**: Four-building high-rise complex housing 1900 students located on the WVU Evansdale Campus. Three (3) 5,000 cfm AHUs
- **Woodburn Hall:** Four-story historic building built in 1874 located at the WVU Downtown Campus. Two (2) 11,000 cfm AHUs
- **Creative Arts Center**: Home of the College of Creative Arts, this building was built in 1969 and contains 50 classrooms, numerous studios, and a 1,400-seat concert theater. Six (6) AHUs
- **Stansbury Hall:** 80,000 SF student recreation center built in 1929 located at the WVU Downtown Campus. Five (5) AHUs installed above the ceiling
- **Charles Wise Library**: Replacement of seven AHUs and addition of two new central stations as part of 124,000 SF addition and 86,000 SF renovation
- **Engineering Sciences Building**: 14-story laboratory and classroom building located on the WVU Evansdale Campus. One (1) 20,000 cfm AHUs
- **Chemistry Research Laboratory:** Five-story building located at the WVU Downtown Campus. Two (2) 40,000 cfm AHUs
- **Eiesland Hall:** Five-story classroom building built in 1954 located at the WVU Downtown Campus. One (2) 25,000 cfm AHUs
- **Mountainlair** AHU 5 replacement
- **Clark Hall** AHU 15 sequencing
- **Armstrong Hall** AHU 1 and 2 replacement
- **Chitwood Hall** AHU replacements
- **Lyons Tower** AHU J and Q replacement
- **Brooke Tower** AHU 7 replacement

CERTIFICATE OF *Authorization*

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

The West Virginia State Board of Registration for Professional Engineers having verified the person in responsible charge is registered in West Virginia as a professional engineer for the noted firm, hereby certifies

has complied with section §30-13-17 of the West Virginia Code governing the issuance of a Certificate of Authorization. The Board hereby notifies you of its certification with issuance of this Certification of Authorization for the period of:

providing for the practice of engineering services in the State of West Virginia.

IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE, PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.

IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA UNDER ITS SEAL, AND SIGNED BY THE PRESIDENT OF SAID BOARD.

BOARD PRESIDENT

HEAR FROM OUR CLIENTS.

"Alpha Associates has been engaged with a number of projects at Mon General over a number of years, and we have consistently been pleased with their work and final outcome. The staff at Alpha has always been responsive to our [Mon General] needs and expectations. It would be **without any hesitation** the we recommend Alpha for an engagement at your respective organization"

Steve Mariner,

Vice President

Mon General Health Systems

"Every aspect and detail of [Alpha's] planning, coordination, and completed projects have been **exceptional** and outstanding in every regard. The efforts of your designated staff, in tandem with their respective individual **expertise**, are considered to have been of the highest specialized caliber available."

Robert Hammel,
Former Director
Morgantown Municipal Airport

References

Damien Davis, City Engineer
City of Morgantown
389 Spruce Street
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Bill Clark, Executive Director
Region 9 Planning & Development Council
400 West Stephen St Suite 301
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