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PURCHASING DIVISION
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State of West Virginia Purchasing Division
West Virginia Army National Guard
Architectural and Engineering Services
Emergency Crisis Center - DEFK11031



ARCHITECTS • ENGINEERS • SURVEYORS

July 12, 2011

Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

Attention: Ms. Tara Lyle

**RE: DEFK11031 – Architectural/Engineering Services
Emergency Crisis Operations Center**

Dear Ms. Lyle,

Alpha Associates, Incorporated is pleased to submit this Expression of Interest for consideration as the architect/engineer to provide a Feasibility Study and Design and Engineering Services for your Emergency Crisis Operations Center to be located in Charleston, WV. The Alpha team will prove to be a superior partner with you throughout the evaluation, design, and renovation/new construction.

Alpha has provided architectural and engineering design services throughout the state of West Virginia since 1969. Over the past 42 years we have performed multiple building evaluations and feasibility studies, as well as new construction and renovation projects. For example, recently, Alpha completed a Facility Improvement Study including architectural, structural and civil evaluations for the existing Laboratory Services Department of Health and Human Resources in South Charleston, WV. This is one of the many similar projects we have completed. We have worked with the WV Army National Guard in the past to complete successful projects. Our goal is to work with you through the process to develop the best solution for your project.

DESIGN TEAM

Alpha is a West Virginia owned and operated design firm offering a full range of design services, including architectural design, civil and structural engineering, interior design, landscape design, surveying, and construction administration. The following Expression of Interest outlines Alpha's qualifications, as well as those of our team member, H.F. Lenz Company.



The design staff for your project will be led by talented architects and engineers with recent, relevant experience. Your project will be managed and produced in Alpha's Corporate Office located in Morgantown, WV. You will have a team of professionals who will be dedicated to the success of your project.

To better serve your needs, we have teamed with H.F. Lenz Company located in Johnstown, PA to provide mechanical, electrical, plumbing, and fire safety engineering services. Lenz has been involved with very similar projects for numerous clients, including projects with Alpha. Having worked with Alpha on numerous projects over the past 15 years, the coordination between firms is seamless.

Our design team is familiar with all local, State, and Federal regulations needed for your project. Both Alpha and Lenz have LEED Accredited Professionals on staff that will make sure your facility is designed with cost effective energy conserving features. Where appropriate, we provide the ability to obtain any level of LEED Certification that you may desire or to simply utilize the principals of sustainable design to benefit your project.

Throughout the duration of the design, Alpha will be the lead design firm and your single point of contact.

SUMMARY

This project is a perfect fit for our team and we not only have the ability but also are excited to handle the evaluation, design and renovation/new construction of the Emergency Crisis Operations Center in its entirety. Our quality work, professionalism and dedication are unparalleled among our competitors. We are ready to begin work immediately. We look forward to sharing additional ideas and qualifications with you in an interview.

Sincerely,

ALPHA ASSOCIATES, INCORPORATED


Richard A. Colebank, PE, PS
President and COO
rcolebank@alphaaec.com
304-296-8216 x102

Project Approach

Alpha Associates, Incorporated

Alpha Associates, Incorporated has developed a team that will provide a multitude of services for the West Virginia Army National Guard. Based on Alpha's knowledge and understanding of this project, the team was developed to best fit your needs.

A quality team is established by a combination of Alpha's internal staff and external consultants. Internally, your project will be managed by an owner of the firm, what we refer to as the "Principal-In-Charge". Based on the individual project needs, the Principal in Charge will assign an internal project team complete with architects, structural engineers, civil engineers and surveyors (project organization chart included herein). The internal project team will be with your project from project inception to the completion of the project. We believe that a consistent project team creates an environment that builds relationships between owners and designers, therefore enhancing communication.

Project Understanding

The West Virginia Army National Guard wishes to select an architectural/engineering firm to conduct a feasibility study of the existing NEUMEDIA facility and follow through to design pending approval and availability of funds. This will be a multiple phase design project. Pending the results of a feasibility study, the selected firm will proceed with design services for renovation of the NEUMEDIA facility located in the Northgate Business Park or design services for new construction of an Emergency Operations Center located in the Coonskin Complex. The process includes a design charrette during the preliminary design phase to garner input from all parties and to allow for consensus during the design.

Project Approach

Phase I: During the first phase, Alpha will prepare a thorough evaluation and analysis of the potential impact of re-purposing the NEUMEDIA facility versus new construction of a new Emergency Crisis Center. The evaluation will define:

- Existing conditions and deficiencies of the building
- Mechanical, electrical, plumbing and fire protection systems
- Existing structural condition
- Current code violations
- Current ADA compliance issues



The information gathered during the evaluation will be utilized to prepare a Feasibility Study. The Feasibility Study will include:

- Current conditions of existing building
- Space utilization analysis
- Preliminary Floor Layouts
- Comparison of current and proposed systems
- Final Recommendations and options
- Advantages and Disadvantages of each option
- Project Schedule
- Estimation of Cost

Phase II: Phase II will be a Design Charette. Prior to the charette, Alpha will meet with the State agencies for a scoping meeting. This scoping meeting will help provide us with the information needed to effectively and efficiently design your Emergency Crisis Center. As a result of the Design Charette, Alpha will:

- Produce valid and complete programming documents
- Identify possible opportunities, challenges, and issues
- Prepare a summary of A/E assumptions used to cost each of the components
- Produce a rudimentary concept design

During Phase II the following will be completed:

Programming Phase

This is the initial gathering of information and review stage. During this phase Alpha will interview the state agencies that will occupy the building to determine their programmatic requirements. This will help us determine the direction the design will take. Alpha will gather information and make recommendations.

Preliminary Design Phase

This phase of the project is the Preliminary Design Phase. Alpha's Professional Design Staff will develop a design based upon your ideas, the needs of the West Virginia Army National Guard and from the information they have gathered. This first stage will develop the intent of the concept into a workable plan. A project schedule will be established in order to get a total understanding of your desired completion date.



Phase III: This phase will be the design and construction of the project as directed by the Owner. Phase III will be contingent upon the findings derived from the Building Evaluation and Feasibility Study from Phase I and the Design Charette from Phase II.

The following is a sample approach to how Phase III will be handled:

Construction Documents Phase

Upon approval of the preliminary design and working directly with the West Virginia Army National Guard, Alpha will prepare construction plans and technical specifications. The purpose is to provide an accurate, complete set of plans and specifications that allow for accurate bids. Our thorough and well-coordinated plans serve to reduce the amount of change orders during construction. The estimate will be updated at this time to insure the project is within the budget prior to releasing for bid.

Bid/Negotiations Phase

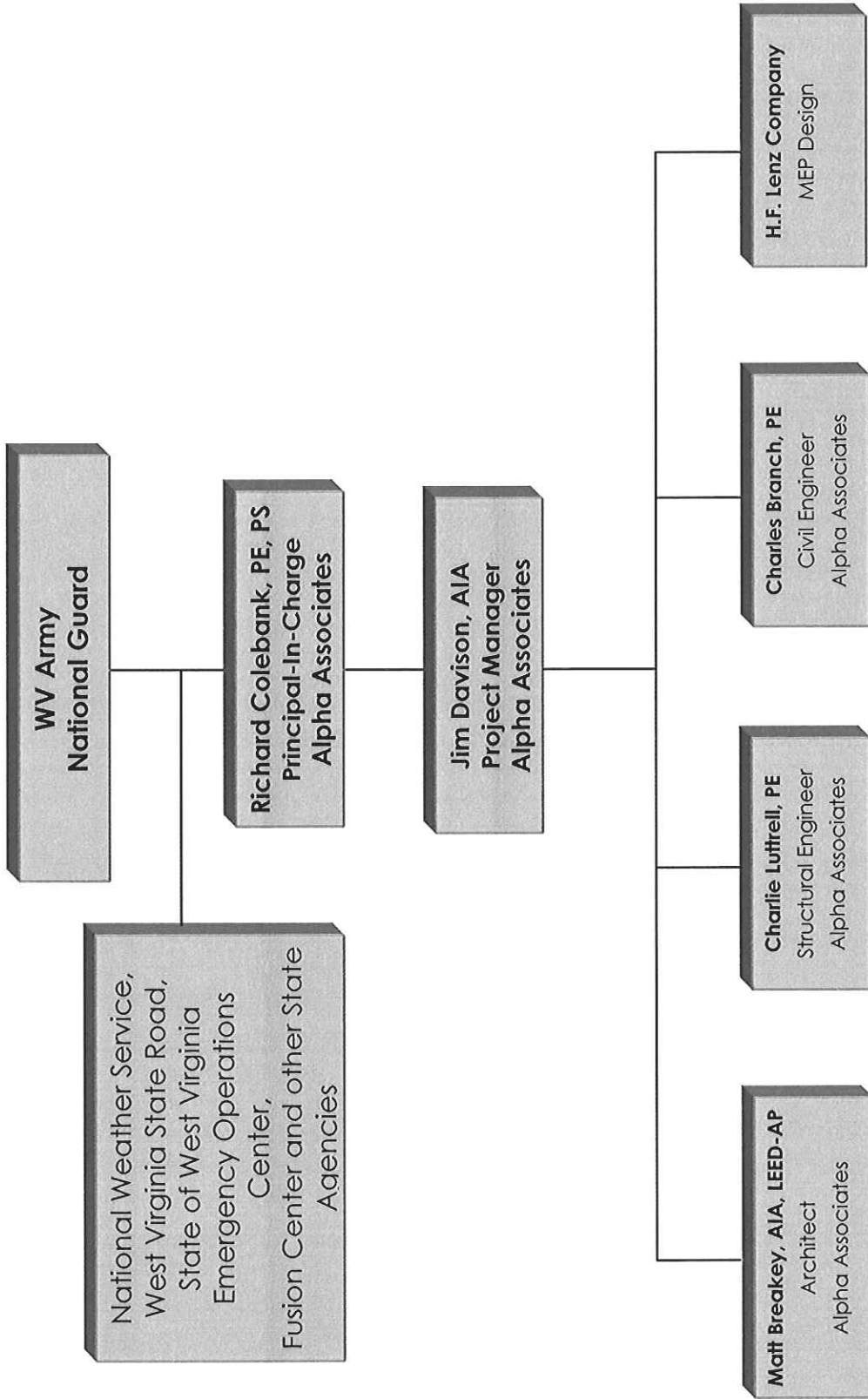
Alpha Associates, Incorporated will assist you during the bidding process to provide prospective bidders with an "even playing field" to bid. This ensures you will receive the highest quality bids. Our services include answering contractors' questions, conducting a pre-bid conference and issuing clarifications. After receipt of bids, we can evaluate the bids and assist you with the selection of a qualified contractor based on the bids received. This evaluation includes reviewing potential subcontractors as well to determine the most appropriate contractor for the project.

Construction Phase Services

Alpha Associates, Incorporated will provide a complete range of construction phase services including observation of the work, review and approval of Contractor pay applications, conducting progress meetings and providing technical assistance throughout the construction phase. During construction we will review the Contractor's various project material submittals, develop color selections for your consideration and approval and perform a final "Punch List" inspection to assure satisfactory completion of the work. This is the phase of the project that is crucial to the ultimate success of your project. Our experienced team can successfully interact with the contractor and provide the direction needed for a successful project.



Project Organizational Structure



Above are the Key Personnel who will be involved in the evaluation and design of Emergency Operations Crisis Center. Additional architects, engineers, surveyors, technicians, and administrative personnel are also available to work on the Project. Resumes of these staff members are included herein.

Firm Profile

ALPHA ASSOCIATES,
INCORPORATED
2010



Firm Profile

Alpha Associates, Incorporated

Firm Name: Alpha Associates, Incorporated

Corporate Office: 209 Prairie Avenue
Morgantown, West Virginia 26501

Eastern Regional Office: 535 West King Street
Martinsburg, West Virginia 25401

Incorporated: 1969; Morgantown, West Virginia

Firm Principals: Richard A. Colebank, PE, PS; President and COO
Richard W. Klein, PE, PS; Chairman and CEO
James A. Davison, AIA; Vice President
Charles B. Luttrell, PE; Principal
Steven V. Buchanan, PE, PS; Principal
Matthew S. Breakey, AIA, LEED-AP; Principal
Charles B. Branch, PE; Principal

Number of Employees: 33 Employees



Alpha Associates, Incorporated was established in 1969 and since that time has completed hundreds of projects throughout Morgantown and the state of West Virginia. Alpha's Corporate Office is located in Morgantown with our Eastern Regional Office located in Martinsburg.



ARCHITECTS • ENGINEERS • SURVEYORS

Transportation Case Studies

Project Description

Department of Highways District One Headquarters Feasibility Study Charleston, WV

Alpha Associates, Incorporated completed a feasibility study for the Division of Highways at their District 1 Headquarters. The study investigated four potential options for rehabilitating the 4.48 acre location along Smith Street.

Option 1 - Proposed the renovation of the existing office building, the removal of various satellite or accessory structures and the equipment shed. The Red Brick Building and Shawnee/Ruffner Building would remain in place in their existing condition. This option also proposed parking and a new Equipment Building.

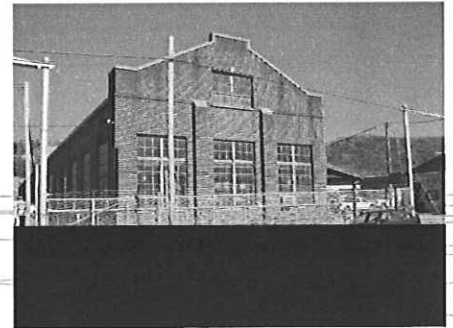
Option 2 - This option proposes the removal of the existing office building, the removal of various satellite or accessory structures and the equipment shed. The Red Brick Building is to be renovated and Shawnee/Ruffner Building is to remain the same. Included is more parking and new equipment building.

Option 3 - This option is the demolition plan that removes all existing buildings except for the Shawnee/Ruffner Building which will be renovated. Addition parking and a new equipment building was included in this plan. This scheme approaches near complete maximum use of the site.

Option 4 - Proposed was the demolition and removal of all the existing buildings except for the Red Brick Building which would be renovated. This option also proposed parking and a new Equipment Building.

At A Glance...

- 1 Client:
West Virginia Division
of Highways
- 2 Location:
Charleston, WV
- 3 Completion Date:
2006



Higher Education Case Studies

Project Description

Salem International University – Buildings Evaluation Salem, WV

Alpha Associates, Incorporated was hired by the Palmer Group, of Philadelphia, PA to do evaluations of selected buildings on the campus of Salem International University, located in Salem, WV.

The first phase of the project involved the evaluation of the T. Edwards Davis sports venue, the Hoffheimer Hall women's dormitory and the Montgomery Hall men's dormitory.

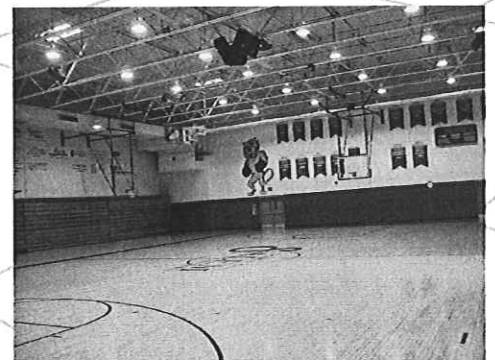
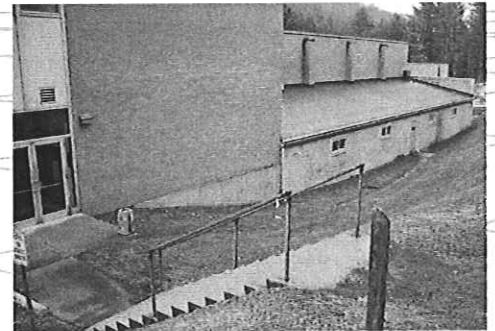
The second phase of the project involved the evaluation of the Randolph Campus Center administration building, the Benedum Library building, the Carlson Hall of Science and Randolph Hall, and another dormitory.

The third phase of the project involved the evaluation of three currently vacant dormitories: Birch Hall, Maple Hall and Oak Hall.

Alpha's services included observations of all structural elements, mechanical and electrical systems and components, and evaluations of ADA accessibility standards. Alpha then provided a report with conclusions and recommendations regarding the general structural condition, mechanical and electrical conditions, and cost estimates for repair.

At A Glance...

- 1 *Client:*
The Palmer Group
- 2 *Location:*
Salem, WV
- 3 *Completion Date:*
2005
- 4 *Size:*
Multiple Buildings
- 5 *Construction Cost:*
N/A



Education Case Studies

Project Description

Comprehensive Educational Facilities Plan (CEFP)

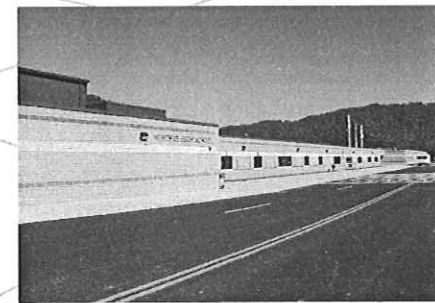
Alpha Associates, Incorporated has provided architectural and engineering services to prepare a ten year CEFP for the following Boards of Education:

- Taylor County Schools
- Grant County Schools
- Monongalia County Schools
- Wyoming County Schools

Each CEFP includes the following:

- A. Goals and objectives
- B. Community Analysis
- C. Population and enrollment study
- D. Education Plan
- E. Evaluation and inventory of existing facilities
- F. Major improvement plan for existing facilities
- G. Inter-county facility feasibility study
- H. Translating educational needs into facility needs
- I. Financing Plan
- J. Synopsis of comments from the public hearings
- K. Evaluation and objective of implementation

Alpha provides a complete building evaluation and analysis of each school in the county, and then makes recommendations for renovations or upgrades that need to be made. Alpha works with the Boards of Education to gain community support by establishing building committees and holding public meetings. Once a decision to renovate or upgrade is made, Alpha provides complete design services and construction administration services.



Architectural Case Studies

Project Description

Jefferson County Emergency Services Agency Martinsburg, West Virginia

Alpha Associates, Incorporated provided design services for a new Operations Center for the Jefferson County Ambulance Authority that will hold vehicle bays, sleeping quarters, training room, and office spaces. The building was designed to blend into the surrounding development and have a civic presence.

At A Glance...

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Client:
Jefferson County
Ambulance Authority

2

Location:
Ranson, WV

3

Completion Date:
2010

4

Size:
6,750 SF

Construction Cost:
\$1.2 Million



Architectural Case Studies

Project Description

Monongalia County Walnut Street Office Building Morgantown, WV

Alpha Associates, Incorporated provided architectural design, civil and structural engineering, and surveying services for this new building that will house offices for the Monongalia County Sheriff's Department and other County agencies.

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

The ground floor will include the sheriff's department, evidence room, and several bailiff rooms. The remaining floors are designed to house flexible office space.

At A Glance...

- 1 Client:
Monongalia County
Commission
- 2 Location:
Morgantown, WV
- 3 Completion Date:
Fall 2011
- 4 Size:
31,655 sq. ft.
- 5 Construction Cost:
\$7,997,000



Airport Case Studies

Project Description

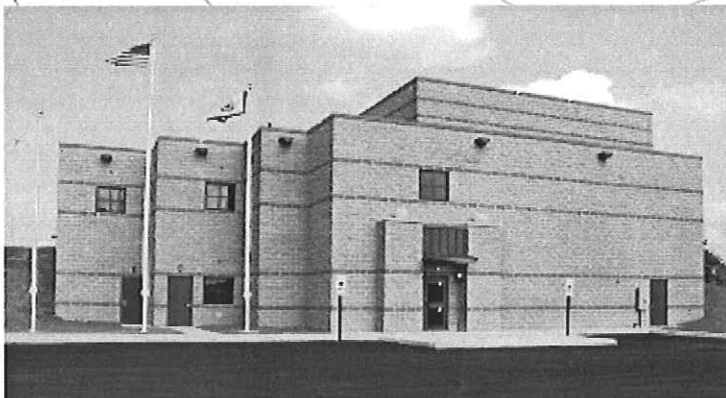
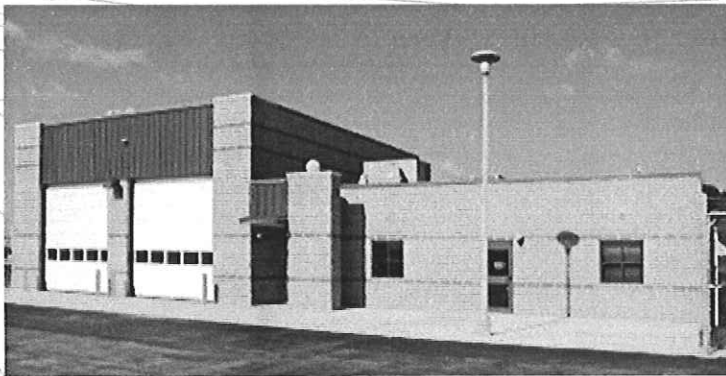
Morgantown Municipal Airport Air Rescue and Fire Fighting Building Morgantown, WV

Alpha Associates, Incorporated completed design of the latest building at the Morgantown Municipal Airport. The building serves as an Air Rescue and Fire Fighting Building, housing two fire trucks and equipment. Additional space for Airport Management offices and a training center are also included.

Construction of this \$1,020,000 building was completed in 2003.

At A Glance...

- 1 *Client:*
City of Morgantown
- 2 *Location:*
Morgantown, WV
- 3 *Completion Date:*
2003
- 4 *Size:*
7000 SF
- 5 *Construction Cost:*
\$1,020,000



Medical Case Studies

Project Description

Robert C. Byrd Health Sciences Center – Eastern Division

Alpha Associates, Incorporated designed the architectural and structural engineering aspects of the new two-story structure of 36,650 sq. ft. Alpha also designed the Civil Engineering aspects of this challenging site in Martinsburg, West Virginia.

The site, approximately 2.5 acres was chosen to be the location of a new building on the City Hospital Campus. Challenges of the site included a unique underground stormwater management system. This system was chosen to maximize the usable acreage of the site. An early bid package was recommended to bring all utilities to the site, as well as install the underground stormwater management system.

An architectural highlight of the structure is a clearstory lobby serving a 200 seat Auditorium with high tech features. Also included are additional classrooms, storage rooms and meeting rooms. A large computer-based study area is also included that will allow for more than 150 students to utilize the space at one time. Built in lockers and shelving was a key part of this design.

At A Glance...

- 1 Client:
Robert C. Byrd Health
Sciences Center
- 2 Location:
Martinsburg, WV
- 3 Completion Date:
2006
- 4 Size:
Site – 2.5 Acres
36,650 SF
- 5 Construction Cost:
Site Work: \$470,000
Building: Est. \$4.8 Million



Higher Education Case Studies

Project Description

West Virginia University - East Wing Addition/Renovation Morgantown, WV

The first phase of this project was a feasibility study that evaluated the building to determine the nature and scope of the addition.

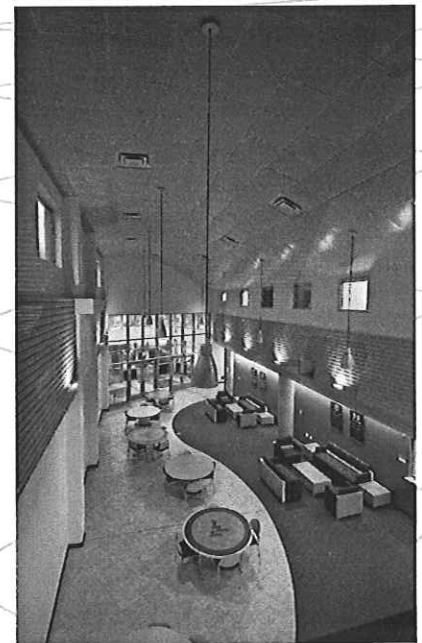
The WVU Engineering Science Building East Wing Addition /Renovation project was conceived to create a new primary entrance to the existing 228,000 square foot building on the Evansdale campus. It consists of a 4-story addition as well as the conversion of an abandoned 3 ½ story boiler room into usable program space. The addition/renovation included a student learning center, high-tech lecture and conference space, state-of-the-art teaching and research laboratories and office space for professors and graduate assistants.

A new two story entrance atrium in the addition not only serves to provide a primary entrance to the existing building, but also as a gathering space for student/faculty interaction and a place for special events such as the annual career fair hosted by the college. A learning center accessed directly from the main entrance atrium provides a place where freshman receive mentoring and instruction from upper classmen and faculty to support the overall academic success of all members of the college.



At A Glance...

- 1 Client:
West Virginia University
- 2 Location:
Morgantown, WV
- 3 Completion Date:
2008
- 4 Size:
32,600 sq. ft. Addition
6,500 sq. ft. Renovation
- 5 Construction Cost:
\$11 Million



West Virginia University - East Wing Addition/Renovation
Morgantown, WV



At A Glance...

- 1 Client:
West Virginia
University
- 2 Location:
Morgantown, WV
- 3 Completion Date:
2008
- 4 Size:
32,600 sq. ft.
Addition
6,500 sq. ft
Renovation
- 5 Construction Cost:
\$11 Million



Architectural Case Studies

Project Description

Upshur County Senior Opportunity Center Buckhannon, WV

Alpha Associates, Incorporated has provided a two-phase project for the Upshur County Senior Opportunity Center. Phase one included a feasibility study to determine the necessary adjustments. Phase I consisted of the renovation of the 3300 sq. ft. Annex. The project included an interior selective demolition, wood framing, ramp & stair construction, wood & steel railings, H.M. & wood doors & frames, window installation/replacement, gypsum board, acoustical ceilings, flooring & base, painting, plumbing, fire sprinkler and fire service lines, HVAC and electrical & lighting work. The addition of a canopy was also necessary and included limited earthwork, concrete footings & slabs-on-grade, CMU foundations, steel railings, wood roof framing, molded FRP columns & trim, metal soffits and fascias, vinyl siding, shingles, caulking & sealing, and lighting work.

Phase II was the design of an indoor ramped walkway, which connected the Dessie Graves Building to the Annex. Also included in this renovation was new finishes in the Dessie Graves Center.

At A Glance...

- 1 *Client:*
Upshur County Senior Opportunity Center
- 2 *Location:*
Buckhannon, WV
- 3 *Completion Date:*
Multi Phase Project
- 4 *Size:*
Multiple Spaces
- 5 *Construction Cost:*
Private Client
- 6 *Project Relevance:*
 - Architectural Design
 - ADA Compliant
 - Administrative Areas
 - Multi-Purpose Rooms



Before





RICHARD A. COLEBANK, PE, PS
PRESIDENT AND COO
CIVIL ENGINEER
rcolebank@alphaaec.com

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SUMMARY

Mr. Colebank is President and Chief Operating Officer of Alpha. Mr. Colebank has been with Alpha Associates, Incorporated 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 West Virginia University, City of Morgantown, The West Virginia Division of Highways, WVU Foundation and the Morgantown Municipal Airport, as well as numerous private clients. Since 1988, Mr. Colebank has been the Principal-In-Charge of many of the Civil Engineering projects developed at 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 Civil Engineering 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

PROFESSIONAL HIGHLIGHTS

Project Management:

- WVU Research Park; Morgantown, WV
- Federal Bureau of Prison Hazelton Medium Security Prison; Hazelton, WV
- West Virginia Medal of Honor Recipients Plaza; Hazelton, WV
- West Virginia Division of Highways I-77 Welcome Center; Williamstown, WV
- Ices Ferry Bridge; Morgantown, WV
- Monongalia General Hospital Expansion; Morgantown, WV
- Monongalia General Hospital Access Road; Morgantown, WV
- Airport Access Road; Morgantown, WV

Indefinite Delivery/Indefinite Quantity Contracts:

- Morgantown Municipal Airport Open End Contract; Morgantown, WV
- West Virginia Division of Highways Open End Contract; State of WV
- National Energy Technology Laboratories; Morgantown, WV
- West Virginia University Open End Contract; State of WV



EMPLOYMENT HISTORY

PRIVATE INDUSTRY: 1985 – Present Alpha Associates, Incorporated
1983 – 1985 Charles Townes and Associates, P.C.

CORPS OF ENGINEERS: 1983 US Army Corps of Engineers

EDUCATION

GRADUATE: West Virginia University
Masters – Business Administration; 1999

UNDERGRADUATE: West Virginia University
BS – Civil Engineering; 1982

QUALIFICATIONS

LICENSE: Professional Engineer:
West Virginia, Pennsylvania, Maryland, Virginia,
Professional Surveyor:
West Virginia
Certified Private Pilot

AFFILIATIONS

PROFESSIONAL: Former NSPE/PEPP Governor of WV
ACEC/WV; Former President and Current National Director

CIVIC: University High School Foundation; Charter Member; Current
President
Morgantown Area Chamber of Commerce; Past Chairman
Monongalia County MPO Technical Advisory Committee;
Member
Morgantown Area Economic Partnership; Member
University High School Athletic Field Committee





JAMES A. DAVISON, AIA
VICE PRESIDENT
ARCHITECT
jdavison@alphaaec.com

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SUMMARY

Mr. Davison is the Vice President of Alpha Associates, Inc. Mr. Davison joined the firm in November of 1977. He became a principal of the firm and Vice President in 1980. He has designed numerous structures, including research facilities, post offices, religious facilities, commercial and office buildings, and educational and medical facilities. The West Virginia Society of Architects has recognized Mr. Davison for his excellence in architecture with design awards for the Engineering Research Building at West Virginia University in Morgantown, WV, Wheeling College Chapel in Wheeling, WV, Morgantown High School Addition in Morgantown, WV and the KCAD Professional Office Building located in Martinsburg, WV.

PROFILE

Broad-based responsibilities in the following areas:

- Educational Architecture
- Medical Architecture
- Religious Architecture
- Quality Control
- Client Development
- New Business Development

PROFESSIONAL HIGHLIGHTS

Higher Educational Facilities:

- Agricultural Sciences Building Addition, West Virginia University; Morgantown, WV
- Engineering Science Building, East Wing Addition; Morgantown, WV
- Engineering Research Building; Morgantown, WV
- National Research Center for Coal and Energy, West Virginia University; Morgantown, WV
- Student Leader Housing, West Virginia University; Morgantown, WV
- Galli Laboratory, West Virginia University; Morgantown, WV
- Prichard Hall Renovation, Fairmont State University; Fairmont, WV

K-12 Educational Facilities:

- Washington High School, Charles Town, WV
- Westside High School; Clearfork, WV
- Wyoming East High School; New Richmond, WV
- Lewis County High School; Weston, WV
- Morgantown High School Addition/Renovation; Morgantown, WV
- Ridgedale Elementary School Addition; Morgantown, WV



Municipal Facilities:

- Town of White Hall Municipal Building; White Hall, WV
- Jefferson County Emergency Services Agency; Ranson, WV
- Berkeley County Emergency Ambulance Authority; Martinsburg, WV
- Monongalia County Sheriff's Office; Morgantown, WV
- Wallace Fire Department; Wallace, WV
- Wardensville Municipal Building; Wardensville, WV
- Rowlesburg Voluntary Fire Department; Rowlesburg, WV
- Norwood Fire Station; Morgantown, WV

EMPLOYMENT HISTORY

PRIVATE INDUSTRY:	1977 – Current	Alpha Associates, Incorporated
	1976 – 1977	Carl G. Baker, Architects
	1974 – 1976	Architectural Firm of Laurie and Green
	1966 – 1974	Michael S. Molnar Associates

EDUCATION

UNDERGRADUATE: Pennsylvania State University
Bachelor of Architecture; 1973

QUALIFICATIONS

LICENSE: Registered Architect:
West Virginia, Pennsylvania, Maryland, Virginia, Ohio
NCARB Certified

AFFILIATIONS

PROFESSIONAL: American Institute of Architects
West Virginia Society of Architects
Council of Educational-Facility Planners International
American Arbitration Association
Interfaith Forum on Religion, Art and Architecture

CIVIC: Main Street Morgantown

AWARDS

DESIGN AWARDS: West Virginia Society of Architects Design Awards:
KCAD Professional Office Building
Morgantown High School
Engineering Research Building
Wheeling College Chapel





**MATTHEW S. BREAKEY, AIA,
LEED-AP**
PRINCIPAL
ARCHITECT
mbreakey@alphaaec.com

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SUMMARY

Mr. Breakey began working at Alpha in 1998, and became a principal of the firm in 2004. Mr. Breakey has gained experience through working as Architect of Record and Project Manager on major capital construction projects throughout West Virginia. Mr. Breakey became a LEED Accredited Professional in 2009.

PROFILE

Broad-based responsibilities in the following areas:

- Architectural Design
- Construction Administration
- Contract Negotiations
- New Business Development

PROFESSIONAL HIGHLIGHTS

Higher Education Projects:

- Potomac State College, ADA Connector Link; Keyser, WV
- Potomac State College Library Facade Renovation; Keyser, WV
- WVU Engineering Sciences Building East Wing Renovation/Addition; Morgantown, WV
- WVU Engineering Sciences Building 10th Floor Renovation; Morgantown, WV
- WVU Engineering Science Building Nano/Microtechnology Lab; Morgantown, WV
- WVU Alfred F. Galli Laboratory Renovations; Morgantown, WV
- Robert C. Byrd Health Sciences Center SRP Lab Renovation; Morgantown, WV

K-12 Education Projects:

- Washington High School; Charles Town, WV
- University High/Middle School Renovation; Morgantown, WV
- Pocahontas County High School Science Wing Renovation/Addition; Marlinton, WV
- Buckhannon Upshur Middle School Roof Replacement; Buckhannon, WV
- Buckhannon Upshur Middle School HVAC Upgrades; Buckhannon, WV
- Slanesville Elementary School Addition; Hampshire County, WV
- Petersburg High School Science Lab Renovation; Petersburg, WV

Miscellaneous:

- Fairmont Federal Credit Union, Charles Pointe Branch; Bridgeport, WV
- Clear Mountain Bank, Reedsville Branch; Reedsville, WV
- BC Bank Renovation/Addition, Philippi Branch; Philippi, WV
- Clear Mountain Bank, Oakland Branch; Oakland, MD
- Clear Mountain Bank; Sabraton, WV



EMPLOYMENT HISTORY

PRIVATE INDUSTRY: 1998 – Current Alpha Associates, Incorporated

HIGHER EDUCATION:

1994 – 1998 West Virginia University Physical Plant
Engineering and Construction

1992 – 1994 West Virginia University Facilities Planning
Management

EDUCATION

UNDERGRADUATE: Pennsylvania State University
Bachelor of Architecture; 1992
Bachelor of Science in Architecture; 1991

QUALIFICATIONS

LICENSE: Registered Architect: West Virginia; Maryland
NCARB Certified
Leadership in Energy and Environmental Design Accredited
Professional

AFFILIATIONS

PROFESSIONAL: American Institute of Architects
West Virginia Society of Architects
The Council of Educational Facility Planner-International
U.S. Green Building Council

CIVIC: Main Street Morgantown Board of Directors; Past President
Main Street Morgantown Design Committee; Member
Chestnut Ridge Park Board; Past President





THOMAS PRITTS, AIA, LEED-AP
ARCHITECT,
ASSOCIATE
tpritts@alphaaec.com

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SUMMARY

Mr. Pritts is a licensed Architect who joined the Alpha Associates staff in the Morgantown office in 2004. His involvement in projects in West Virginia's Eastern Panhandle facilitated his relocation to Cumberland, MD in 2008 to better serve clients in that area. In 2008 he received his LEED Accredited Professional Certification from the USGBC and Construction Document Technologist designation from the Construction Specification Institute. Mr. Pritts has become a valuable asset to Alpha Associates with broad experience in K-12 and higher educational design, commercial design and programmatic development.

PROFILE

Broad-based responsibilities in the following areas:

- Educational Design
- Programmatic Development
- Civic Design
- Commercial Design
- Green Building Design

PROFESSIONAL HIGHLIGHTS

Architectural Design:

- Potomac State College, ADA Connector Link; Keyser, WV
- Potomac State College, Library Façade Replacement; Keyser, WV
- Potomac State College, McKee Arts Center Plaza; Keyser, WV
- Fairmont Federal Credit Union, Charles Pointe; Bridgeport, WV
- Washington High School; Charles Town, WV
- WVU Engineering Sciences, East Wing Addition; Morgantown, WV
- Ridgeley Community Center; Ridgeley, WV
- Jefferson County Emergency Services Agency; Ranson, WV
- WVU Engineering Sciences Building, Basement Renovations; Morgantown, WV
- Clear Mountain Bank; Oakland, MD
- Clear Mountain Bank; Reedsville, WV



- Berkeley County Emergency Ambulance Authority; Martinsburg, WV
- Eastern Panhandle Transit Authority Renovation and Addition; Martinsburg, WV
- Eastern Management Development Center; Shepherdstown, WV
- Yellow Brick Bank; Shepherdstown, WV
- The Clarion Hotel; Shepherdstown, WV
- Monongalia County Schools – School Access Safety; Morgantown, WV
- WVU Engineering Research Building – G07 Renovations; Morgantown, WV

EMPLOYMENT HISTORY

PRIVATE INDUSTRY: 2004 - Current Alpha Associates, Incorporated
2003 - 2004 Marshall Craft Associates, Baltimore, MD

EDUCATION

UNDERGRADUATE: Virginia Tech
Bachelor of Architecture; 2004

QUALIFICATIONS

LICENSE/CERTIFICATIONS: Registered Architect:
West Virginia, Maryland
National Council of Architectural Registration Boards
Certificate
Leadership in Energy and Environmental Design
Accredited Professional
Construction Specification Institute – Construction
Document Technologist
Certified Construction Specifier

AFFILIATIONS

PROFESSIONAL: AIA Member
USGBC – US Green Building Council
AUGI – Autodesk User Group International
Construction Specification Institute





CHARLES B. BRANCH, PE
PRINCIPAL
CIVIL ENGINEER
cbranch@alphaaec.com

1

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/Storm Water Management Design
- Site Engineering
- Project Management

PROFESSIONAL HIGHLIGHTS

Educational Projects:

- WVU Parking Lot 81 Renovations; Morgantown, WV
- WVU Doll's Run Burn Room; Morgantown, WV
- WVU Alumni Center Parking Lot; Morgantown, WV
- WVU Evansdale Redevelopment; Morgantown, WV
- WVU Health Sciences Center Eastern Division; Martinsburg, WV

Highway Design:

- Blackshere Bridge; Mannington, WV
- I-68 Welcome Center; Hazelton, WV
- I-77 Information Center; Williamstown, WV
- Lewis County High School Bridge; Weston, WV
- Wyoming County Route 10 Relocation; Wyoming County, WV



Commercial Site Plans:

- West Virginia High Technology Consortium; Fairmont, WV
- Residence Inn; Morgantown, WV
- FFCU – Charles Pointe; Bridgeport, WV

EMPLOYMENT HISTORY

PRIVATE INDUSTRY: 1992 – Present Alpha Associates, Incorporated
 1988 – 1992 Reimer, Muegge, & Associates, Inc.

EDUCATION

UNDERGRADUATE: Fairmont State College
 BS – Architectural Engineering Technology 1988
 West Virginia University
 BS – Civil Engineering 2000

QUALIFICATIONS

LICENSE: Professional Engineer
 West Virginia

AFFILIATIONS

CIVIC: Marion County Youth Soccer Association - Coach





CHARLES B. LUTTRELL, PE
PRINCIPAL
PROFESSIONAL ENGINEER
STRUCTURES
cluttrell@alphaaec.com

1

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 the West Virginia University Constructed Facilities Center. Since coming to Alpha, Mr. Luttrell has had a significant involvement in the effort to begin utilizing modern composite materials in practical bridge applications. Two recent Alpha bridge projects have been designed using these innovative materials.

PROFILE

Broad-based responsibilities in the following areas:

- Bridge Structural Design and Analysis
- Innovative Bridge Materials Applications
- Building Structural Design and Analysis
- Historical Restoration and Evaluations

PROFESSIONAL HIGHLIGHTS

STRUCTURAL ENGINEER:

- WVU Engineering Sciences Building East Wing Addition; Structural Design; Morgantown, WV
- WVU Alumni Center Structural Framing and Foundation Design; Morgantown, WV
- Hazel Ruby McQuain Amphitheater Roof; Morgantown, WV
- West Buckeye Bridge; Core, WV
- Washington High School; Charles Town, WV
- WVU Coliseum Asbestos Abatement Project (Scaffolding Design and Dome Structural Inspection); Morgantown, WV
- Morgantown Airport Air Rescue and Firefighting Building; Morgantown, WV
- WVU Coliseum Scoreboard Hoist Project; Morgantown, WV



EMPLOYMENT HISTORY

PRIVATE INDUSTRY: 1996 – Current Alpha Associates, Incorporated
1995 – 1996 Larry D. Luttrell, PE, Ph D
1991 – 1994 West Virginia University
1990 – 1991 WVU Constructed Facilities Center

EDUCATION

GRADUATE: West Virginia University
MS – Structural Engineering; 1995

UNDERGRADUATE: West Virginia University
BS – Civil Engineering; 1993

QUALIFICATIONS

LICENSE: Professional Engineer:
West Virginia, Maryland, Pennsylvania

AFFILIATIONS

PROFESSIONAL: West Virginia Society of Professional Engineers
National Society of Professional Engineers
Chi Epsilon; Member
American Concrete Institute; Member

RESEARCH EXPERIENCE

STRUCTURAL: Cold Formed Steel Deck Research

- Fastener failures
- Edge conditions/failures
- Buttoned overlap shear failures

Composite Cold Formed Steel and Concrete Deck Research

- Line load behavior/failures
- Concentrated load behavior/failures
- Web crippling
- Punch failures





H.F. LENZ
COMPANY

Firm Profile

The H.F. Lenz Company has been providing a full range of engineering services for building systems, infrastructure, and industry for over 65 years. Utilizing state-of-the-art software, our multi-discipline engineers collaborate to design award-winning projects for numerous Fortune 500 companies and high-profile clients throughout the United States. We currently have 175 employees, including 44 Professional Engineers licensed in a total of 50 states and DC and office locations in Johnstown, Pittsburgh, and Conneaut, Ohio.



Firm Organization

H.F. Lenz Company has organized the firm into several **multi-discipline design teams** that are dedicated to specific market types or project types. Our leadership and management philosophy provides control of all design and administrative activities by the Principal-in-Charge (PIC), whose talents and experience are matched to the needs of the Client. The PIC provides leadership and client contact, and commits the resources required for excellence in the project. Each team has the necessary resources and multi-discipline staff—HVAC, electrical, plumbing, and fire protection/life safety—to successfully complete both small and large projects. Our clients benefit from this approach since the team is focused, experienced, and dedicated to one type of project—the client's project.

Our Philosophy

We believe in the team approach to the design process. H.F. Lenz Company's people are pro-active team players that thoroughly understand the importance of effective partnering and collaboration among all members of the project team. We support a dynamic, collaborative environment where trust and teamwork prevail and a shared understanding of project goals and expectations are developed. Our most successful projects are those in which the Owner, Construction Manager, Contractor, Architect, Engineer, and other Project Consultants recognize each other's assets. This collaborative environment draws upon the collective intelligence of the entire project team, while supporting the Owner's values and corporate culture.

Experienced Project Team

The team that will serve on this contract is comprised of dedicated, multi-discipline individuals, many of whom have been working together for almost a decade. Together they have taken on the challenges of numerous high profile, complex projects and have derived workable, cost-effective solutions that have met the objectives of the client.

H.F. Lenz Company has provided engineering services for \$75 million of construction for the Baltimore Corps of Engineers over the past 20 years including 7 indefinite delivery-type contracts and 11 new reserve centers, several of which were design/build projects. We have held six (6) previous IDTC's for Letterkenny under which we have completed numerous projects requiring a variety of engineering expertise. We have also provided engineering services for the PANG and the OHNG.



Relevant Experience

H.F. Lenz Company has extensive experience designing systems for a variety of secure facilities:

- Police Departments
- 911 Centers
- Homeland Security Facilities
- Mission Critical Facilities
- Operations Centers
- U.S. Marshal Service Administration and Prisoner Areas
- Corporate Secure Facilities
- Courthouses (County and Federal)
- Detention Facilities
- Department of Defense Facilities

Mission-Critical Facilities

H.F. Lenz Company has a team comprised of mechanical, electrical, and communications engineers dedicated to designing highly reliable, energy efficient, flexible, and easily maintainable mechanical and electrical infrastructures for data centers and other mission-critical operations throughout the country. This team has over 20 years of experience working with financial institutions, insurance companies, and governmental agencies that require extreme levels of reliability and redundancy in their M/E systems. This team also specializes in the design of generators and large on-site fuel reserves to sustain operations independent of outside utilities for extended periods of time.

Sensitive Compartmented Information Facilities (SCIFs)

H.F. Lenz Company has extensive experience designing systems for secure facilities including Sensitive Compartmented Information Facilities (SCIF). SCIF rooms must be accredited by the Director of Central Intelligence (DCI) or Senior Officials of the Intelligence Community (SOIC) with DCI concurrence, and are established to provide the highest level of physical security protection for facilities storing, processing, or discussing classified information which requires extraordinary security safeguards.

SCIFs are to be fully isolated from each other and from surrounding spaces. To isolate the room the wall construction consists of a steel mesh system sandwiched between the structural studs and rigid structural laminated panels faced with heat-treated annealed steel bonded to the structural steel. All mechanical and electrical systems serving the room are to be isolated from outside the space by the use of a non-conductive transitions at all wall penetrations. Many rooms use exposed mechanical and electrical systems in the space to visually promote internal security. SCIF design must balance threats and vulnerabilities against appropriate security measures in order to reach an acceptable level of risk. **Our project experience includes two SCIFs for the Robert F. Kennedy Main Justice Building, and a new SCIF for the National Drug Intelligence Center in Johnstown, PA.**



In addition to our experience with SCIFs, we have extensive experience in designing enhanced security features such as:

- Intrusion detection systems
- Specialized alarm systems
- Access control devices
- Acoustic security
- Acoustical controls
- Sound attenuation systems such as metal baffles
- Metal separations in HVAC ductwork including bars and/or grills
- RF Shielding
- Perforated metal plate walls
- Reinforced concrete vaults
- Secure dedicated telephone lines
- Emergency power systems
- UPS systems for IT equipment
- Systems for facilities that must remain in continuous operation

Secure Facility Design

Our entire team understands the absolute necessity of providing effective security protection for government and other facilities against the threat of terrorism. H.F. Lenz Company has recently completed a site design project for an Army Reserve Aviation Facility following the “**DOD Minimum Anti-Terrorism Standards for Buildings**”. We have also completed the project management and engineering services for a data center security upgrade for a major U.S. financial institution. Under a Term Contract with the Social Security Administration (SSA), the H.F. Lenz Company was hired to survey ten major SSA facilities in the U.S. to evaluate compliance with the guidance document titled “**Guidance for Protecting Building Environments for Airborne Chemical, Biological, or Radiological (CBR) Attacks**”. The work involved recommending ways of tightening physical security around building ventilation systems and other vulnerable areas to minimize the threat of CBR attacks. Areas and or issues investigated included: materials receiving areas, mail handling areas, particulate filtration systems, ATC single-point containment, and public vs. secure spaces.

We are experienced in Mechanical and Electrical system issues including:

- Continuous Operation of Life Safety Systems
- Operational Redundancies
- Air Filtration Systems
- Placement of Mechanical Penetrations through Exterior Walls
- Placement of Plumbing, Electrical Fixtures, and Utility Lines
- Lockable Systems
- Electronic Systems for Intrusion Detection, Access Control, Door Alarms, and CCTV
- Exterior Building Illumination
- Self-contained Battery Lighting for Stairwells and Exit Signs



- Secured Dedicated Telephone Lines
- Warning and Evacuation Systems

Many of these issues were identified, discussed and incorporated into a project we recently completed for the new Childrens' National Medical Center Decontamination Facility project. An initiative partly funded under Homeland Security, the new 20-shower decontamination unit will support any response to natural or terrorist action in the Washington DC area.

We are also knowledgeable of the **"Physical Security Assessment for the Department of Veterans Affairs Facilities"** issued in September, 2002, and considered or implemented the recommendations with ongoing projects for several Veterans Affairs Medical Centers. We are also familiar with the following:

1. **ASHRAE – Report of Presidential Ad Hoc Committee for Building Health and Safety Under Extraordinary Incidents (26 Jan 2003)**
2. **Reference Manual to Mitigate Potential Terrorist Attacks Against Buildings, FEMA (December, 2003)**
3. **Cost Effective Responses to Terrorist Risks in Constructed Facilities (March 2004)**

All of the above references provide guidance in determining risk and threat analysis, education and evaluation of the threats, and suggested responses. Many factors go into the formulas and the risk analysis is the most critical component needed to determine the level of response and changes or additions to the facility.

LEED™ and Sustainable Design

H.F. Lenz Company was recently ranked in the *"Top 100 Green Design Firms"* in the Country, for two years in a row, by ENR Magazine. We have been a member of the United States Green Building Council since 2000 and currently have *19 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. In addition, we also became an *Energy Star® Partner Firm* in 2008, and have completed several projects which have attained the Energy Star® building label. H.F. Lenz Company currently has 40+ projects that have attained various levels of LEED Certification, and 40+ projects that are currently pending LEED Certification.



Facilities Planning Experience

H.F. Lenz Company has extensive experience with the mechanical, electrical, plumbing, and fire protection/life safety planning and design of governmental and institutional facilities. Our services include master planning, concept studies, feasibility studies, evaluations/condition assessments, and energy analysis for building systems and utility infrastructures. Our experience includes single government buildings as large as 1.3 million sq.ft. as well as campus projects in excess of 450-acres.



Military Facilities

The following new Military Facilities contain a variety of relevant spaces including offices, maintenance and storage facilities, and various shops and production areas.

Regional Maintenance Facility, Pennsylvania National Guard Facility, Johnstown, PA. HFL was responsible for the engineering design of a New Maintenance Shop for the Pennsylvania National Guard Facility consisting of 23,560 sq.ft. with approximately 8,000 sq.ft. of office and maintenance shop area and the remainder for storage and eight vehicle maintenance bays. The project included flammable storage, general storage areas, weapons vault, security system design, and an on-site fuel dispensing station. The entire area is protected by a perimeter fence and automatic access gates entering the site. Total Construction Cost: \$4,200,000.

New U.S. Army Reserve Centers (USARCs) in Morgantown, Kingwood, and Elkins, WV. HFL provided the MEP services for all three of the facilities which included:

- Morgantown – 21,700 sq.ft. Administrative and Training Building, 5,500 sq.ft. four bay Organizational Maintenance Shop (OMS)
- Elkins – 12,000 sq.ft. Administrative and Training Building, 4,200 sq.ft., three bay OMS
- Kingwood – 19,000 sq.ft. Administrative and Training Building, 5,000 sq.ft. four bay OMS, and 600 sq.ft. of covered storage area

Total Construction Cost: \$5,400,000.



New USARC in Beckley and Rainelle, WV. HFL provided the MEP services for both of the facilities which included:

- Beckley – 27,511 sq.ft. Administrative and Training Building, 2,709 sq.ft. OMS
- Rainelle – 19,444 sq.ft. Administrative and Training Building, 7,532 sq.ft., three bay OMS

Total Construction Cost: \$5,400,000

U.S. Army Reserve Aviation Center, Weirton, WV. Under this design/build contract, the HFL provided engineering design services for a 30% concept design for this new reserve center. The facility is comprised of a 16,000 sq.ft. training building and a 6,300 sq.ft. organizational maintenance shop (OMS).

New USARC in Grantsville, PA. HFL provided the MEP Engineering services for a 15,000 sq.ft. training building and 2,400 sq.ft. OMS

Total Construction Cost: \$4,500,000



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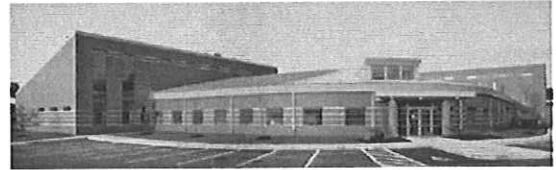
Relevant Project Experience

New USARC in Brownsville, PA. HFL provided the MEP Engineering services for a 20,000 sq.ft. training building and a new six bay OMS
Total Construction Cost: \$3,600,000

U.S. Armed Forces Aviation Facility, Johnstown, PA. HFL provided MEP, Structural, and Civil Engineering Services and Land Surveying Services for a new 120,000 sq.ft. aviation facility consisting of a training building to accommodate 300 reservist, a new hangar facility, and site development for the 80-acre site. Total Construction Cost: \$30,000,000.



Civil Engineering Building for the 911th Airlift Group, in Coraopolis, PA. HFL provided the MEP, Civil, Structural, and Land Surveying Services for a new 21,000 sq.ft. building housing offices, classrooms, conference rooms, drafting room, print room, support facilities, plumbing, sheet metal and welding shop, carpentry shop, electrical shop, HVAC and liquid fuels shop, Battery shop, Fire extinguisher shop, storage facilities and covered storage area. The project was phased to allow existing facilities to remain in use during construction. Total Construction Cost: \$4,300,000.



Operational Maintenance Facility, Johnstown, PA. HFL provided MEP, Structural and Civil Engineering for a new 12,700 sq.ft. Organizational Maintenance Facility with eight work bays. Total Construction Cost: \$4,690,000

Letterkenny Army Depot, U.S. Army Corps of Engineers

Chambersburg, PA. HFL has completed numerous projects throughout the Letterkenny Army Depot on five IDCs over the past 20+ years, including Building 350 which accommodates repair and maintenance for tactical vehicles, and Building 320 which accommodates painting and repair of military vehicles. Our services have included mechanical, electrical, fire protection, structural, and civil design services for various new construction, alteration projects and repair projects.

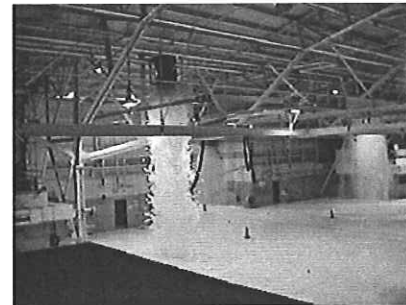


Hanger Expansion and New Aircraft Storage Facility, Ohio National Guard, Akron-Canton Regional Airport, Akron, OH. HFL provided MEP and structural engineering services for the expansion and alteration of the existing Army Aviation Support Facility (AASF) hanger. The existing facility was not equipped with a fire suppression system. The requirements of the project included partial demolition, expansion of the foundation and floor area of the existing hangar by 11,088 sq.ft., a new fire suppression system, modifications to the existing security systems and various interior improvements. The expanded facility is now able to accommodate three CH-47 helicopters.



The project also included the design of a new 26,400 sq.ft. aircraft storage facility.

The \$6,700,000 project was completed in 2008.



Additional Military Facility Project Examples:

Army Reserve Center, Wheeling, WV

- New 284-member reserve center with training building and maintenance shop

Morlock Army Reserve Center, Pittsburgh, PA

- HVAC modifications

Copely Army Reserve Center, Oil City, PA

- Boiler addition

Steele Army Reserve Center, Pittsburgh, PA

- Complete HVAC system replacement

Camp Dawson, Kingwood, WV

- Three new billeting facilities

Walter Reed Army Medical Center, Washington, D.C.

- Energy engineering analysis program, main hospital building

Corps of Engineers Offices, The Wanamaker Building, Philadelphia, PA

- Tenant fit-up

Ford City Armory, Ford City, PA

- New 24,400 sq.ft. training center with classrooms and kitchen/dining facilities

Naval Air Station, Lakehurst, NJ

- Air conditioning tune-up study

Various Activities, Pennsylvania, New York, and New Jersey

- Specialized energy studies

Naval Ship Parts Control Center, Mechanicsburg, PA

- Administrative facility improvements

Naval Research Laboratory, Washington, D.C.

- Three indefinite delivery contracts for mechanical, electrical, and structural engineering services (Chesapeake Division)

Oceana Naval Station, Virginia Beach, VA

- Energy monitoring and control system
- Boiler plant modifications (Atlantic Division)



H.F. LENZ
COMPANY

Relevant Project Experience

Additional Project Experience

Pennsylvania Turnpike Commission, Harrisburg, PA. HFL provided mechanical, electrical, plumbing, fire protection and civil engineering services for the complete building system renovation of an existing 112,000 sq.ft. facility, plus a 50,000 sq.ft. addition to the Central Administration Building. *This central operations center serves as the primary hub for all data management and emergency response activities for the Turnpike Commission.*

The building houses the following:

- State Police Troop T Command Center
- Various Administrative Depts.
- Communications Center
- Library
- Training Rooms
- Conference rooms
- Cafeteria/Dining
- Various other spaces



The new Turnpike facility provides an elevated level of comfort for the staff, successfully promoting healthy life styles. This project has received LEED Certification. **Award:** *2001 AIA Green Design Certificate of Merit*

Weather Services International Corporation, Andover, MA. HFL provided the engineering services for the base building and build-out of a new 150,000 sq.ft. corporate headquarters for Navisite, Inc., following the completion of that project, we were retained to provide design services for the renovation of approximately 75,000 sq.ft. in the Navisite building for use by Weather Services International (WSI) Corporation. WSI provides weather-related software and systems, and delivers weather forecasts both nationally and internationally. In an effort to tailor an existing space to afford WSI a unique presence and identity the team designed a 24/7 weather forecasting and filming operations center. This fast track addition to WSI's headquarters offers state-of-the-art, flexible workspace, while simultaneously complementing the existing architecture.



The main goal of the project was to design a flexible and ergonomic environment. The raised floor design allows for telecommunications and data wiring at any location. A unique indirect lighting system and a monotone color scheme reduce glare and eye strain. Also included in the project was the addition of six sound booths and three chroma studios, each allocated for a specific aspect of the weather service industry.

This computer-intensive facility houses eleven laboratory spaces and a new Operations Center and Communications Room. The Operations Center is configured to support live broadcasts and has adjacent processing areas for image enhancement and voice over recordings. The facility also supports numerous satellite dishes both at grade and elevated on the buildings roof.



H.F. LENZ
COMPANY

Relevant Project Experience

The communications cabling system was designed to provide a structured voice, data and video distribution system utilizing a combination of multimode fiber, singlemode fiber, high speed UTP cable, and various 50 and 75 ohm coax cables.

Mellon Client Service Center, Mellon Financial Corporation, (Now Bank of New York Mellon), Pittsburgh, PA. Mellon Financial Corporation commissioned HFL to provide design services for a new 750,000 sq. ft. "information factory," the Mellon Client Service Center. To accommodate processing functions, Mellon needed a design that would include large, raised floors of up to 84,000 sq. ft., with sophisticated data cabling. Loading docks and extensive parking were two other considerations. As an added challenge, the new Mellon Client Service Center was built on an irregular urban site, above Pittsburgh's main subway station and straddling a major street. The center is fully integrated with Mellon's global infrastructure through its own data center, raised floor, and sophisticated cabling.

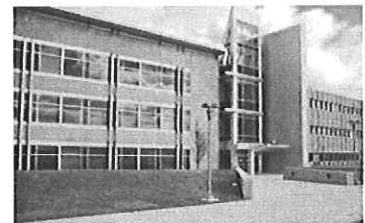


Awards:

2004 Office Building of the Year from BOMA Mid-Atlantic Division

2001 Integrator Award from Consulting-Specifying Engineer Magazine

Social Security Administration – Main Operations Building, Woodlawn, MD. HFL provided MEP engineering services for this multi-phased, 1,200,000 sq. ft. Social Security Administration's Woodlawn Campus. The major project determinant was the need to provide a facility that will meet tenant needs and support the agency as it advances into the future. To achieve this, an office facility characterized by modern workstations, state-of-the-art lighting, improved heating, ventilation, and air conditioning (HVAC) and a telecommunication system capable of evolving with the technologies of tomorrow was designed. The project included energy conservation measure upgrades and compliance with all current codes and standards, and required continual occupancy.



The cafeteria was also completely renovated to provide a food court serving area, dining, and efficient kitchen areas.

Awards: H.F. Lenz Company received a 2002 Projects of the Year Merit Award for the innovative use of technology in the design of the Woodlawn Chilled Water Plant, Presented by Consulting-Specifying Engineer Magazine. This project received a LEED Rating.



Emergency Management Facilities Design Experience

The H.F. Lenz team has designed and implemented several emergency management facilities over the past 7 years for institutional and private clients. Below are two examples of recent projects, both clients are "confidential clients".

The first high security facility of relevance was designed for an undisclosed financial services company and was completed in 2005. The data technology center and adjacent office building were designed as a response to the SEC requirement for back of house data center facilities to manage disaster recovery. The office building is a 44,000 sq.ft. emergency command center facility which houses 200 staff stations in the event of a disaster recovery situation. It was designed with connectivity to the adjacent data center, UPS power to the desktop, complete generator back-up power and a 2N HVAC system. The data center was designed to a Tier 3+ standard in accordance with the Uptime Institute requirements and has several "best practice" features. It is a 71,500 sq.ft. data center designed as a pre-cast panel, bunker building. The structures are located on a remote rural site, and are secured via multiple layered security access including a bermed and landscaped setback from all access roads, a perimeter security fence, and a guarded, controlled point of access. Parking was planned to be remote from the data center facility. The roof was designed as a double roof sandwich system with 2 layers of membrane construction to provide additional protection for the equipment housed within. There were no roof penetrations or roof drains. All doors were card accessed and perimeter surveillance of both the site and building was implemented. A 48" raised floor provided ample flexibility in the data center. The emergency generation capacity of this facility was 6 megawatt and the unique systems features included a 2(N+1) chilled water plant and chilled water distribution, 160,000 gallons of on-site water storage to sustain critical operations for a minimum of 3 days without interruption including a fire protection reserve, and a 2N industrial control system.

The second project is an 80,000 gsf data center for a confidential client in Ohio. Approximately 19,200 sq.ft. of administrative space was provided to support the 24x7 operations of the facility. Due to the critical nature of the facility, even the administrative space was supported by UPS and standby generation. The electrical distribution system, including the UPS, was designed in a 2N configuration with N+1 standby generation. The critical cooling system is also a 2N configuration at the building and includes an additional N capacity connection to a central campus chilled water plant for further redundancy. The building is intended to be self-sufficient for a minimum of two days and includes on-site fuel and make-up water storage to support operations for that period. The on-site water storage also contains a dedicated reserve for fire suppression should that need arise. The building itself is physically hardened through the use of perimeter fencing at a standoff distance and earthen berms at the building walls which are precast concrete panels. The building design is devoid of rooftop penetrations and all necessary air intakes, exhausts, and vents are horizontal through the building walls. As a testament to this building's design, this facility provided continuous and seamless operations throughout the August 2003 blackout of the Northeastern U.S.



911/Police and Fire Stations Experience

Lincoln County Emergency Communications Center, Lincoln County, WV. HFL provided mechanical, electrical, plumbing, fire protection, and structural engineering services for the Lincoln County Emergency Communications Center, also known as the Lincoln County 911 Center. The center is equipped with the latest technology in order to maintain Lincoln County's commitment to quality service. The main components include Enhanced 911, Emergency Medical Dispatch, and a Telecommunications Device for the Deaf (TDD).

Philadelphia Police Department, 6th District Station, Philadelphia, PA. HFL provided a building assessment and recommendations to improve the existing mechanical and electrical systems serving the police station. We also prepared energy analysis and operating cost analysis for proposed building envelope modifications. Systems evaluated were the steam boiler, terminal heating, rooftop air conditioning units, normal power electrical distribution, emergency power electrical distribution, fire alarm and plumbing.

St. Marys Fire and Police Station, St. Marys, PA. HFL Provided MEP Engineering Services for a new 22,000 sq.ft. facility to house the Police and Fire Department. The project included administration offices, evidence storage areas, weapons storage, and a 6,500 sq.ft. apparatus room to house fire trucks, emergency vehicles, and equipment center. The design also included the 24-hour emergency dispatch center.
Total Construction Cost: \$4,000,000



North Middleton Township, Carlisle, PA. HFL provided MEP Engineering Services for a new 11,000 sq.ft. municipal building and a new 24,000 sq.ft. public works building. The facilities housed municipal offices, meeting hall, sheriff's holding/processing area, vehicle maintenance and storage areas.

Courthouses and Federal Buildings

H.F. Lenz Company has provided systems engineering services for the General Services Administration for several significant U.S. Courthouse projects such as the Scranton U.S. Post Office and Courthouse, Erie U.S. Post Office and Courthouse, Wheeling U.S. Courthouse, and Lynchburg Courthouse. Under various term contracts with the General Services Administration, we have provided HVAC, plumbing, fire protection, communications, electrical, civil and structural engineering and surveying services at a number of federal court facilities. We have been responsible for 45 work orders in 16 courthouse buildings in Pennsylvania, West Virginia, and New Jersey ranging from \$50,000 to \$11,000,000 in mechanical and electrical construction costs. These include the above projects; Building Evaluation Reports (BERs) and Prospectus Development Studies (PDSs) at federal courthouse buildings in Erie, Wilmington, and Harrisburg; as well as a variety of building system evaluation and repair/alteration projects at other federal courthouse buildings.



Quick Overview of Recent Government Projects

- **GSA Nationwide IDC** - currently working on two studies one for the 147,000 sq.ft. U.S. Court of Appeals for Veterans Claims in Washington, DC., and the other for the relocation of offices and facilities and adaptive reuse of existing space for use by various courts and agencies in the James A. Byrne U.S. Courthouse, the William J. Green Jr. Federal Building and the historic Robert N.C. Nix Federal Building in Philadelphia, PA
- **New 265,000 sq.ft. Bucks County Justice Center** - Doylestown, PA; Estimated Construction Cost: \$120,000,000; Utilizing BIM; Currently in Design, Construction began 09/2010 *Designed to Attain a LEED™ Silver Rating*
- **Study and Various Renovations to the Historic Fayette County Courthouse** – 2006
- **Historic Renovation of Somerset County Courthouse** - 2004; \$7,000,000
- **New 65,000 sq.ft. Design/Build Courthouse and Renovation of an Existing Historic Structure** – Lynchburg, VA; 2004; \$15,000,000
- **Renovation of Social Security Administration (SSA) 1.2 million sq.ft. Operations Building** – Woodlawn, MD; 2006; \$125,000,000 *Has Attained LEED™ Certification*
- **New “Green” Office Building and Community Center** - Allegany County Human Resources Development Commission (HRDC), Cumberland County, Maryland; 2009; \$4.5 million *Designed to Attain a LEED™ Silver Rating*
- **New 50,000 sq.ft. Design/Build Office Building for the U.S. Drug Enforcement Administration** – Pittsburgh, PA; 2005; \$6,256,994 *Has Attained LEED™ Certification*
- **Modernization of the 1.8 million sq.ft. Historic Robert F. Kennedy Main Justice Department Building (phased project)** - Washington, D.C.; 2004; \$130,000,000 *Awards: 2004 GSA Design Award Honor; Marvin M. Black Partnering Award; 2006 Silver Reconstruction Award*
- **Renovation and Addition to the Historic Erie Federal Courthouse Complex** – Erie, Pennsylvania; 2004; \$24,000,000 *Awards: 2004 GSA Design Award Citation for Preservation*
- **GSA IDC for Border Stations and Federal Buildings** - Feasibility Studies at Various Locations including the Elbert P. Tuttle Courthouse and Federal Building in Georgia; 2007; Fee
- **U.S. Department of Agriculture Tenant-Fit Out of 40,000 sq.ft. of a GSA Building for Office Space** -Morgantown West Virginia; 2009; *Designed to Attain LEED™ Certification*
- **New 75,000 sq.ft. Design/Build Administration/Office Building for NASA** - Langley, Virginia; Utilizing BIM; 2010; *Project has attained LEED Platinum*



- **New 165,000 sq.ft. Design/Build P8-A Integrated Training Center for NAVFAC** - Jacksonville, Florida; Utilizing BIM; *Project Goal LEED Silver* - Currently in Construction
- **Six consecutive Indefinite Delivery Contracts for Letterkenny Army Depot (U.S. Army, Baltimore Corps of Engineers)** under which we have completed in excess of 100 projects requiring a variety of engineering expertise.
- Engineering services for over *300 postal facilities under a total of nine indefinite delivery contracts for the U.S. Postal Service*
- Multiple indefinite delivery contracts for the *National Park Service*, the majority of which involved the renovation/preservation of historically significant structures
- *CDC/NIOSH* - Recently awarded our second consecutive term contract.
- *SSA IDC* - involved evaluation of 10 major SSA facilities in the U.S. to evaluate compliance with the guidance document titled "Guidance for Protecting Building Environments from Airborne Chemical, Biological, or Radiological (CBR) Attacks", also involved upgrades to communications systems at 11 facilities - expired in 2006

GSA Project Examples in West Virginia

- Kee Federal Office Building and Courthouse, Bluefield, West Virginia
- Robert C. Byrd U.S. Courthouse, Charleston, West Virginia
- U.S. Department of Agriculture, Morgantown, West Virginia
- Federal Office Building, Huntington, West Virginia
- Coast Guard Building, Martinsburg, West Virginia
- Federal Office Building, Martinsburg, West Virginia
- U.S. Courthouse, Martinsburg, West Virginia
- Staggers Federal Office Building, Morgantown, West Virginia
- Federal Office Building and Courthouse, Wheeling, West Virginia
- Federal Office Building, Parkersburg, West Virginia
- Martinsburg Computer Center, Martinsburg, West Virginia



Mr. Deter is responsible for the engineering design of all trades, the supervision of senior designers, the preparation of reports to determine optimal systems and/or equipment selections, and the coordination and checking of contract documents for completeness and quality. He is responsible for coordination with the client, the architect, regulatory agencies, and the engineering staff; project scheduling; and other project management functions. Mr. Deter is experienced in the design of building systems for both new buildings and building retrofits for educational, health care, commercial, government, industrial, residential, and utility related facilities. His project experience includes (**indicates experience prior to H.F. Lenz Company*):

Social Security Administration
Woodlawn, Maryland
Renovations to a 1.2 million sq.ft. operations building Phase 2 project totaling \$125 million – LEED Certified

Social Security Administration
Wilkes-Barre, Pennsylvania
New 240,000 sq.ft., three-story data operations center

National Drug Intelligence Center
Johnstown, Pennsylvania
Tenant fit-up of 87,500 sq.ft. of secure office and data center space for a government agency

Pennsylvania Turnpike Commission
Central Administration Building
Harrisburg, Pennsylvania
New three-story addition and renovation to the Central Administration Building which houses the Police Troop T Command Center including parking lot and exterior building lighting; LEED™ Certified Building

National Weather Service*
State College, Pennsylvania
New office / facilities building

U.S. Post Office and Courthouse
Erie, Pennsylvania
Renovation of two historic buildings and addition of a new 50,000 sq.ft. connecting annex totaling \$24 million

New Armory, Pennsylvania Department of Military Affairs
Ford City, Pennsylvania
New 24,400 sq.ft. training center with classrooms and kitchen/dining facilities and maintenance shop

U.S. Army Reserve Center Aviation Facility
Johnstown, Pennsylvania
New 120,000 sq.ft. multi-building reserve center

U.S. Army Reserve Center
Wheeling, West Virginia
Design/build project including a 24,000 sq.ft. training building and 17,000 sq.ft. OMS/AMSA

U.S. Army Reserve Aviation Center
Weirton, West Virginia
Design/build project including a 16,000 sq.ft. training building and a 6,300 sq.ft. OMS

U.S. Army Reserve Center
Grantsville, Maryland
New 15,300 sq.ft. training building

Education

Bachelor of Science, Electrical Engineering Technology, 1987, University of Pittsburgh at Johnstown

Experience

H.F. Lenz Company 1992 – Present • Parfitt/Ling Consulting Engineers 1990 - 1992
Gary Johnston & Assoc., Inc. 1987 - 1990

Professional Certification

Licensed Professional Engineer in Pennsylvania, Illinois, Maryland, New Jersey, Ohio, Virginia, and West Virginia; LEED™ Accredited Professional

Professional Affiliations

Professional Engineers in Private Practice; NSPE/PSPE; APPA; U.S. Green Building Council



H.F. LENZ
COMPANY

John C. Stewart, P.E., LEED-AP

Mechanical Engineer and LEED™ Accredited Professional

Mr. Stewart has over 20 years experience in the design of HVAC, plumbing, and fire protection systems. His responsibilities have included code compliance verification, schematic layout, calculations, equipment selection, control system selection, specification writing, coordination, life cycle cost analyses, cost estimating. His experience includes the design of mechanical systems for military installations, industrial plants, office buildings, hospitals, and educational facilities. He has also been involved in the design of chiller and boiler plants. Mr. Stewart's project experience includes (*indicates prior experience):

Social Security Administration Operations
Building, Woodlawn, Maryland
*Renovation of a 1,200,000 sq.ft. federal office
building*

Pennsylvania Turnpike Commission
Central Administration Building
Harrisburg, Pennsylvania
*New three-story addition and renovation to the
Central Administration Building; LEED™
Certified Building*

William J. Nealon Federal Building and U.S.
Courthouse
Scranton, Pennsylvania
*New \$36 million courthouse annex and repair
and alteration of existing federal building*

Federal Courthouse Complex
Erie, Pennsylvania
*New \$24 million courthouse annex and
renovation to three existing historic buildings*

U.S. Federal Building and Courthouse
Wheeling, West Virginia
– *Renovation and addition*
– *Fourth floor district court expansion*

Pennsylvania National Guard
Johnstown, Pennsylvania
*New Regional Maintenance Facility with 23,560
sq.ft. maintenance shop*

Ohio National Guard
Akron-Canton Regional Airport, Akron, Ohio
New 26,400 sq.ft. aircraft storage facility

New Armory, Pennsylvania Department of
Military Affairs
Ford City, Pennsylvania
New 24,400 sq.ft. training center

911th Airlift Wing, U.S. Air Force Reserve
Greater Pittsburgh International Airport
Coraopolis, Pennsylvania
Various projects under two IDCs

Dyess Air Force Base*
Abilene, Texas
– *Base Headquarters*
– *Aircraft and maintenance hangar*
– *Vehicle maintenance facility*
– *General aircraft maintenance hangar
renovation*
– *80,000 sq.ft. office building renovation*

Education

Master of Science, Mechanical Engineering, University of Pittsburgh, 1995
Graduate Courses in Facilities Engineering, Air Force Institute of Technology, 1984-1987
Bachelor of Science, Mechanical Engineering, University of Pittsburgh, 1984

Experience

H.F. Lenz Company 1996 - Present
Peter F. Loftus Division, Eichleay Engineers, Inc. 1989 - 1996
Newport News Shipbuilding 1988 - 1989
U.S. Air Force 1984 - 1988

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania • LEED™ Accredited Professional • Adjunct Assistant
Professor for the University of Pittsburgh at Johnstown in HVAC Design for the Mechanical
Engineering Technology Curriculum

Professional Affiliations

American Society of Heating, Refrigerating, and Air-Conditioning Engineers; APPA



Mr. Mack has over 15 years experience in the design of HVAC, plumbing, and fire protection systems. His responsibilities have included code compliance verification, schematic layout, calculations, equipment selection, control system selection, specification writing, coordination, life cycle cost analyses, cost estimating. His experience includes the design of mechanical systems for office buildings, educational facilities, industrial plants, and military installations. He has also been involved in the design of chiller and boiler plants. His project experience includes:

Social Security Administration
Woodlawn, Maryland
Renovations to a 1.2 million sq.ft. operations building Phase 2 project totaling \$86 million

Pennsylvania Turnpike Commission
Harrisburg, Pennsylvania
New three-story addition and renovation to the Central Administration Building - LEED Certified Building

Drug Enforcement Administration
Pittsburgh, Pennsylvania
New two-story, design/build, 50,000 sq.ft. building which houses 24,000 sq.ft. of office space on the upper floor and parking garage on the lower level - LEED Certified

Philadelphia Police Department
Philadelphia, Pennsylvania
Building assessment and recommendations for improvements, energy analysis and operation cost analysis for the 6th District Station

Erie Federal Building and Courthouse
Erie, Pennsylvania
New 50,000 sq.ft. addition and renovation of two historic buildings. The project received a GSA Design Award Citation in the preservation category

U.S. Court of Appeals for Veterans Claims
Washington, DC
Planning study for a new 147,000 sq.ft. courthouse - being designed to attain LEED Silver

Education

Bachelor of Architectural Engineering, 1995, Pennsylvania State University

Experience

H.F. Lenz Company 1995 - Present

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania and Delaware; LEED Accredited Professional

Professional Affiliations

ASHRAE - Johnstown, PA Chapter, member of the Board of Governors

Byrne Green Nix Federal Buildings Study
Philadelphia, Pennsylvania
Comprehensive study for the relocation of offices and facilities and adaptive reuse of existing space for use by various courts and agencies in the James A. Byrne U.S. Courthouse, the William J. Green Jr. Federal Building and the historic Robert N.C. Nix Federal Building

William J. Nealon Federal Building and Courthouse
Scranton, Pennsylvania
New four-story, 120,000 sq.ft. courthouse annex connected to the existing 150,000 sq.ft. building by a new four-story atrium

U.S. Federal Building and Courthouse
Wheeling, West Virginia
- Renovation and 90,000 sq.ft. building addition totaling \$12 million
- New chiller plant

Kee Federal Office Building and Courthouse
Bluefield, West Virginia
- Courtroom and office renovations
- Boiler and chiller replacement

Pennsylvania National Guard
Johnstown, Pennsylvania
New Regional Maintenance Facility with 23,560 sq.ft. maintenance shop



Mr. Mulhollen is experienced in the design of power distribution systems, control systems, emergency power systems, lighting and emergency lighting systems, fire alarm systems, security, sound, and telecommunication systems for correctional, educational, institutional, industrial, health care, and commercial facilities. Mr. Mulhollen's project experience includes (**indicates experience prior to H.F. Lenz Company*):

Social Security Administration
Woodlawn, Maryland
Renovations to a 1.2 million sq.ft. operations building Phase 2 project totaling \$125 million – LEED Certified

Lincoln County
Hamlin, West Virginia
Electrical design for new 911 center with 500 kW Generator 277/480 volts

Allegheny County*
Pittsburgh, Pennsylvania
– Allegheny County 911 Center with 500 kW Generator
– Westmoreland 911 Center with 350 kW Generator
– Snyder County 911 Center

Pennsylvania Turnpike Commission
Central Administration Building
Harrisburg, Pennsylvania
New three-story addition and renovation to the Central Administration Building which houses the Police Troop T Command Center including parking lot and exterior building lighting; LEED™ Certified Building

U.S. Drug Enforcement Agency
Pittsburgh, Pennsylvania
New 50,000 sq.ft. office building with 25,200 sq.ft. parking garage –LEED™ Certified

Philadelphia Police Department
Philadelphia, Pennsylvania
Building assessment and recommendations for improvements, energy analysis and operation cost analysis for the 6th District Station

Pennsylvania National Guard
Johnstown, Pennsylvania
New Regional Maintenance Facility with 23,560 sq.ft. maintenance shop

Department of Treasury*
New Troop "C" Headquarters
Trenton, New Jersey
New 85,000 sq.ft. police barracks with training areas, administration areas, car maintenance area, dispatch area, and holding cells

Ohio National Guard
Akron-Canton Regional Airport, Akron, Ohio
New 26,400 sq.ft. aircraft storage facility

Letterkenny Army Depot
Chambersburg, Pennsylvania
Various projects under six consecutive IDCs

U.S. Air Force – 911th Airlift Group
Corapolis, Pennsylvania
Various projects under two IDCs

Anthony Juvenile Correctional Center*
Neola, West Virginia
Electrical design of correctional facility

Education

Bachelor of Science, Electrical Engineering, 1988, Pennsylvania State University

Experience

H.F. Lenz Company 1999
L. Robert Kimball & Associates 1996 – 1999
Leach Wallace Associates, Inc. 1990 - 1996
E.A. Mueller, Inc. 1988 - 1990

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania • Alabama • Florida • Maryland • Missouri • New Jersey • New Mexico • Ohio • Tennessee

Professional Affiliations

Institute of Electrical and Electronics Engineers, Inc.



Mr. Rummel has designed complete plumbing and fire protection systems for colleges, schools, office buildings, hospitals, prisons, laboratories, industrial facilities, and military installations. He is fully knowledgeable of NFPA codes and is experienced in the design of wet, dry, preaction, FM200, and deluge fire protection systems. He is responsible for plumbing and sprinkler system design, layout, and calculations; selection and sizing of equipment; cost estimates; and site survey work. Mr. Rummel supervises drafting personnel; 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. Mr. Rummel has been involved in the design of plumbing and fire protection systems for the following projects:

Pennsylvania National Guard
Johnstown, Pennsylvania

New Regional Maintenance Facility with 23,560 sq.ft. maintenance shop. The project included flammable storage, general storage areas, and an on-site fuel dispensing station

Ohio National Guard

Akron-Canton Regional Airport, Akron, Ohio
New 26,400 sq.ft. aircraft storage facility and partial demolition, expansion, and renovations to the existing hangar. The project included the design of a new fire suppression system

New Armory, Pennsylvania Department of
Military Affairs

Ford City, Pennsylvania
Plumbing and fire protection design for a new 24,000 sq.ft. training facility with classrooms and kitchen/dining facilities

U.S. Army Reserve Aviation Facility
Johnstown, Pennsylvania

Fire protection system design for a new 120,000 sq.ft. multi-building reserve center with new training building including assembly hall, classrooms, administrative areas, dining facilities, and arms vault, and a new hangar facility. Project included 90% design for a new 200-bed Marine Corps Reserve barracks

U.S. Army Reserve Center
Grantsville, Maryland

Plumbing and fire protection design for a new 15,300 sq.ft. training building with classrooms, assembly hall, library, Comsec training area, and weaponer room, and 2,400 sq.ft. OMS

U.S. Army Reserve Center
Beckley, West Virginia

Plumbing and fire protection design for a new 300-member Reserve Center with training building and OMS

U.S. Army Reserve Center
Kingwood, West Virginia

Plumbing and fire protection design for a new 100-member Reserve Center with training building and OMS

911th Airlift Wing, U.S. Air Force Reserve
Greater Pittsburgh International Airport
Coraopolis, Pennsylvania

– Plumbing and fire protection system design for a new 21,700 sq.ft. base civil engineering building
– Various projects under two IDCs

Letterkenny Army Depot
Chambersburg, Pennsylvania
Various projects under 5 IDCs

Education

B.S. in Mechanical Engineering Technology, 2000, Point Park College
Associate in Specialized Technology 1984, Architectural Drafting and Construction with CAD
Technology, Triangle Institute of Technology

Experience

H.F. Lenz Company 1989 - Present
Newport News Ship Building 1984 - 1989

Professional Certification

Certified in Plumbing Design, ASPE



Mr. Schmidt is an Electrical Engineer with a wide range of engineering experience in corporate and commercial projects. His experience includes project planning, project management, facility design, project scheduling, cost estimating, construction administration, and training of operations and maintenance personnel. He is also a Registered Communications Distribution Designer (RCDD) with an extensive background in communications systems design including both optical fiber and copper backbone cabling systems. His specific experience includes project management and engineering design for data centers, call centers, operations centers, corporate office buildings, governmental facilities, and college and university facilities. He is experienced in power distribution systems, lighting systems, energy management, direct digital controls, fire detection and alarm systems, on-site power generation, and all types of structured communications cabling systems for telephone, voice, and data.

Confidential Fortune 500 Corporation
Eastern United States
MEP Project Manager for a new Tier 3+ data center comprising 120,000 sq.ft. of raised floor area

NaviSite Headquarters & Data Center
Andover, Massachusetts
New 150,000 sq.ft. colocation data center with 55,500 sq.ft. raised floor area

Confidential Financial Corporation
Eastern United States
Project Manager for new 113,000 sq.ft. Tier IV data center

Progressive Insurance Company
Austin, Texas
Project Manager for a new 217,000 sq.ft. 1800-person call center; fast track project delivery

Mellon Financial Corporation
Client Service Center
Pittsburgh, Pennsylvania
New 750,000 sq.ft., \$150 million building and data center; project included 1,200 miles of optical fiber and 26,000 copper information ports

Social Security Administration
Woodlawn, Maryland
Project Manager for the communications design in both the 1.2 million sq.ft. Operations Building and the 500,000 sq.ft. Annex Building.

Confidential Insurance Company
Location not finalized
National site selection and program development for a new mission critical Tier-4 data center

Harvard Business School Data Center
Boston, Massachusetts
Design of communication cabling system for the new Technology Operations Center including the extension and reconfiguration of the campus backbone

Education

Graduate Studies, Manufacturing Systems Engineering Program, 1995, University of Pittsburgh
Bachelor of Science Electrical Engineering Technology, 1990, University of Pittsburgh at Johnstown
Associate in Specialized Technology, Electronics, 1979, Penn Technical Institute

Experience

H.F. Lenz Company 1995 - Present
Johnstown America Corporation 1994 - 1995
LTV Steel 1991 - 1994

Metalworking Technology, Inc. 1989 - 1991
Lincoln Contracting & Equip. Co. 1982 - 1984

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania, PE-051691-E, Electrical Engineering
Registered Communications Distribution Designer AMP Act III Certified Network Designer
Lucent Technologies Systimax SCS, Certified Consultant Program

Professional Affiliations

Building Industry Consulting Service International (BICSI) • National Society of Professional Engineers (NSPE) • AFCOM