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Date: November 26, 2018 Omni Project # Project Name: WV Army National Guard

WV PURCHASING DIVISION

To: Stephanie Gale, Senior Buyer Dept of Administration, Purchasing Division 2019 Washington Street East Charleston, WV 25305-0130

For Your...

Use Approval Record Bid Due

The Following ...

Drawings Change Order Specifications Contract Application for Payment Electronic Media Shop Drawings Proposal <specify other>

Enclosures

Table with 3 columns: Ref. #, Total Each, Description. Row 1: 1, 1, Proposal. Rows 2-15 are empty.

Remarks:

West Virginia Army National Guard Martinsburg Facility Renovation Design CEOI ADJ1900000011

If enclosures are not as noted, please inform us immediately.

Omni Associates - Architects, Inc. 207 Jefferson Street Fairmont, West Virginia 26554-2175

Issued By:

LB (Voice) 304.367.1417

cc:



Expression of Interest
Architectural/Engineering Services
West Virginia Army National Guard
Martinsburg Facility Renovation Design
CEOI ADJ1900000011

November 27, 2018

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November 27, 2018

Stephanie Gale, Senior Buyer
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

RE: Solicitation No. CEOI ADJ1900000011 (Martinsburg Facility Renovation Design)

Dear Ms. Gale:

Omni Associates-Architects, Inc. is pleased to submit our Proposal to provide architectural and engineering design services for the Martinsburg Facility Renovation Design for the West Virginia Army National Guard in Martinsburg, West Virginia.

As Omni's Principal-in-Charge, I will guide this team through the design process and serve as the point-of-contact to the West Virginia Army National Guard. Having over 35 years of military experience myself, both on active duty and active Reserves, allows me to be an **extension of the staff with no learning curve** when it comes to understanding the projects needs and requirements as evidenced by the following successful projects:

Eleanor Maintenance Facility
Fairmont Armed Forces Reserve Center

Eleanor Readiness Center
Buckhannon Readiness Center

Our proven team includes **H.F. Lenz Company** and **CEC Engineering**. We have a long and successful history of teaming together on several renovation and re-adaptive use projects. H.F. Lenz brings extensive Mechanical, Electrical, Plumbing and Fire Protection engineering experience to the team with a great deal of it involving Department of Defense and WVARNG projects. Together we possess the dedication, knowledge, and technical expertise to ensure the success of your project.

As a **West Virginia firm** located in Fairmont, Omni understands that our success is based on our commitment to being responsive. We provide clients with the results they value most: innovative designs consistent with the building program, cost effective designs that **meet the budget**, and efficient management to provide **on-time deliverables** and completion.

Thank you for allowing us to present our credentials. We look forward to the opportunity to work with the WVARNG again.

Sincerely,
OMNI ASSOCIATES – ARCHITECTS, INC.

A handwritten signature in black ink, appearing to read 'R. Forren', written in a cursive style.

Richard T. Forren, AIA, NCARB
Principal



Firm Profile

OMNI ASSOCIATES - ARCHITECTS is an award-winning architectural firm located in Fairmont, West Virginia. Our approach to design has allowed us to avoid the confines of specialization and afforded us the opportunity to create a diverse body of work.

Since the beginning in 1980, Omni has earned recognition for the programming, planning, and design of a variety of structures; which includes corporate office and governmental buildings, health care facilities and medical campuses, academic and educational buildings, recreational, religious, military and multipurpose facilities.

Our reputation and superior work product are the result of efficient and effective communication with our clients and consultants.

Each project is a unique undertaking that begins with analyzing the needs and desires of the client, and interpreting them into a distinctive design that exceeds expectations.

Omni has a successful history of designing intimately with each client and creating collaborative solutions that meet the project goals, resulting in an impressive record of customer satisfaction. These qualities that draw our clients back, resulting in lasting relationships.

Omni Associates provides clients with the results they value most: Innovative designs consistent with the building program, cost effective designs which meet the budget, and efficient project management to provide on-time deliverables.

We're proud of our reputation and expertise, and our clients are confident that they will receive superior services.



Overview of Services

OMNI provides comprehensive, in-depth professional architectural services for new construction, renovation, addition, and adaptive reuse utilizing a variety of delivery methods to best serve our clients' needs.

Design-Bid-Build Delivery Method

Omni has performed private and public projects of every building type using this traditional method of project delivery. We organize the entire project in advance of bidding and work extensively with our clients to achieve alternates to program goals. Construction documents are prepared and bid to multiple general contractors to achieve competitive pricing. Our advanced preparation and communication with the owner and contractor has been a proven approach to limiting change orders and allows us to deliver projects on-time and on-budget.

Fast Track and Multiple Prime Delivery Method

To achieve an accelerated building construction time schedule, Omni has experience with both fast-track and multiple-prime contract projects. As a variation of the traditional design-bid-build delivery, the negotiated select team approach allows for selection of a contractor early in the design process. We prepare construction drawings in stages and bid these "parts" of the total building program so construction can be ongoing as the next phase is programmed and designed. We have worked with General Contractors, Construction Managers and multiple prime subcontractors to successfully complete this type of project delivery.

Design-Build Delivery Method

Owners and developers are currently seeking a simpler delivery style with a single point of responsibility for both design and construction. Under design-build, a consolidated entity provides both design and construction services to the owner. A single contract is established between the owner and the architect-contractor or design-builder. Omni has experience with both scenarios as well as contracting with owners and general contractors to successfully achieve this streamlined method of project delivery.

Construction Administration

Omni has worked on projects for the construction phase of the total building life. This would include projects designed by another firm who needs local supervision or a pre-designed project from a national restaurant or store - which requires local implementation. Omni has also performed bank or financing inspections to determine the completion status of the project for periodic applications for payment.



Technical Expertise

Upgrading existing technology and utilizing the latest design tools available is a key component of our business model. Technology facilitates innovative design, results in economic benefits for our clients, and enhances communication with clients and consultants.

BIM: Building Information Modeling

In 2006, Omni Associates began the transition from traditional CAD software to Autodesk® Revit® Building Information Modeling (BIM). We immediately recognized the basic benefits to both designers and owners: more efficient, cost-effective project delivery, and an accurate building model that can later assist in both energy analysis and building management.

Omni implemented the use of BIM as our primary software platform for all projects in 2006. In utilizing BIM, we discovered the real depth of its value.

With a virtual model of the building, clients can clearly see the design intent as the project progresses and design options can be explored with greater ease than ever before.

Sharing the model among all disciplines as the design progresses allows early input from all of the design professionals involved, resulting in efficient designs.

Creating a building in the virtual world before constructing it in the real world allows the design team to anticipate conflicts and objections before they arise, eliminating many issues which could result in project change orders or Requests For Information from the contractor.

Omni is proud to show that we do not just use Revit software, but we are adept at utilizing it, and can provide skilled support as needed. Omni Pro

ject Manager, Reuben Losh is now an Autodesk Revit Architecture 2011 Certified Associate. Mr. Losh plans to test soon for the next level of certification, Autodesk Revit Architecture 2011 Certified Professional.



Management & Staffing Capabilities

We firmly believe that the best gauge in determining our performance and abilities is the quality of the personnel of which we are comprised. Omni's greatest resource is our professional staff of dedicated, experienced, and creative individuals.

Our skilled team includes 6 registered architects, intern architects, computer-aided design specialists, an interior designer, and knowledgeable administrative support staff. Their quality, expertise, and dedication integrate to produce the solid foundation upon which Omni has built its reputation.

OMNI organizes its staff into several teams or "studios." A specific project team is established for each commission. Studio resources are combined for larger projects. Younger staff members bring a fresh perspective and gain valuable knowledge under the guidance of more experienced staff. Utilizing this approach, we are able provide the human resources required for all types of projects, including large and complex projects.

The project team, including the principal-in-charge, actively participates in the project from start to finish. The same professionals who develop an understanding of your needs in programming generate design alternatives, oversee the production of construction documents, and implement the concepts during construction. The consistency afforded by this approach is a benefit to OMNI and you.

In reality, the OMNI project team goes beyond

our in-house staff. It includes consultants, client representatives, owners, and a construction manager, as required. It is the mutual respect of each team member's skills and perspectives that enables the design process to conclude with a successful project of which we all can be proud.

Specialized Team Members

Throughout our years of experience, we have worked with a variety of consultants specializing in structural engineering, civil engineering, mechanical and electrical engineering, and other disciplines as each project dictated. You can be assured that the consultants we select for your project are selected for their particular and relevant expertise as well as their superior work ethic.

In short, we carefully staff the design team, including in-house professionals and outside consultants, with the type of personnel we would want working for us to work for you.



Staffing Plan

Key Personnel

Omni Associates – Architects carefully selects its project team based on each member's ability to add directly-related experience, ensuring our ability to meet the specific challenges and goals of each client

Throughout our years of experience, we have worked with a variety of consultants specializing in structural engineering, civil engineering, mechanical and electrical engineering, and other disciplines as each project dictated. You can be assured that the consultants we select for your project are selected for their particular and relevant experience as well as their superior work ethic.

In short, for each project we undertake at Omni, we carefully staff our teams, including in-house professionals and outside consultants, with the type of personnel we would want working for us, to work for you.

Omni Associates—Architects

RICHARD T. FORREN, AIA, NCARB

Principal In Charge

Mr. Forren has been Project Architect in charge of design and construction for Omni Associates – Architects since 1984. As a Principal-in-Charge and Project Architect, Mr. Forren's primary responsibility is to develop the overall concept of design by performing technical tasks which include: Project space programming; Schematic layout of functional spaces; Aesthetic design and development; Concept and coordination of building systems such as mechanical, electrical, plumbing and fire protection; Preparation of bidding documents and material specifications; Project management and Construction administration. These tasks are performed for a wide range of for your project. commercial projects that include master planning, land development, building construction and tenant build-out

JASON M. MILLER, AIA, NCARB

Project Manager

Mr. Miller has extensive experience with the preparation of construction documents, bidding documents, and material specifications as well as construction administration. He has demonstrated his skill and success in such notable projects as the West Virginia Army National Guard Readiness Center in Buckhannon and the Charleston Professional Building, a federal GSA building.

H. F. Lenz Company

MEP Engineering

Currently in its 70th year, the H.F. Lenz Company (HFL) is a nationally ranked multi-discipline engineering firm with a strong commitment to technical excellence and unparalleled customer service. From planning and design through commissioning and operations support, H.F. Lenz is known for working with their clients to find the best solutions that meet current needs while providing the flexibility and scalability to accommodate future growth and new technologies. Today the firm employs 165 individuals working out of their Johnstown-based headquarters and satellite offices in Pittsburgh, Pennsylvania, Cincinnati, Ohio, and Middletown, Connecticut.



Staffing Plan

Key Personnel (cont'd)

Thomas F. Deter, P.E., LEED AP

Principal-in-Charge of MEP Systems Engineering

Mr. Deter has over 30 years of experience and is responsible for the engineering design of all trades and the supervision of senior designers. He has extensive experience in the design of building systems for both new buildings and building retrofits. He is experienced in the design of power distribution systems; emergency power systems and monitoring; uninterruptible power supplies; lighting and emergency lighting systems; fire alarm systems; security; sound and telephone systems.

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

Project Manager—Mechanical Engineer

Mr. Stewart has 34 years of experience in the design of HVAC, plumbing and fire protection systems. His responsibilities included code compliance verification, schematic layout, equipment selections, coordination, specification writing and cost estimating.

Steven P. Mulhollen, P.E.

Electrical Engineer

Mr. Mulhollen is experienced in the design of power distribution systems, control systems, emergency power systems, lighting and emergency lighting systems, fire alarms systems, security, sound and telecommunications for correctional, educational, military, governmental, industrial and health care facilities.

Gregory D. Rummel, CPD

Plumbing/Fire Protection Designer

Mr. Rummel has designed complete plumbing and fire protection systems for colleges, office buildings, military installations, prisons, hospitals, and industrial facilities. He is extremely knowledgeable of NFPA Codes and experience in the design of dry and wet systems.

CIVIL & ENVIRONMENTAL CONSULTANTS (CEC)

Consistently ranked in the Top 500 Design Firms and Top 200 Environmental Firms, CEC will provide Civil and Geotechnical Engineering services as well as Hazardous Material analysis and abatement expertise for the project.

Steve A. Cain, P.E.

Senior Principal

Mr. Cain, has more than 22 years of experience in civil engineering design and project management.

Kow O. Eshun, P.E.

Geotechnical Engineer

Mr. Eshun has more than ten years of diverse experience in Geotechnical engineering. Mr. Eshun has worked on a wide range of subsurface investigations to provide recommendations for shallow foundations, intermediate foundations, deep foundations, slope stability analyses, and ground improvement techniques.



Staffing Plan

Key Personnel (cont'd)

James R. Slayer, P.G.

Hazardous Material Lead

Mr. Salyer has over 31 years of professional experience in environmental, mining, and civil engineering projects. Most recently, he has over 20 years of experience in supervising and managing Phase I and II environmental site assessments, site characterizations, remedial action plans, hazardous material surveys, asbestos building surveys, and demolition projects. His technical experience includes over 750 environmental assessments of industrial and commercial properties, including industrial facilities, manufacturing facilities, gasoline stations, dry cleaners, office/retail complexes, various commercial establishments, and large wooded tracts.

Additional information on personnel involved in the project can be found in their respective resumes following this section.



Richard T. Forren, AIA, NCARB,

Project Role: Senior Principal in charge, Design Architect

Project Responsibilities: As a Senior Principal-in-Charge, Mr. Forren's responsibilities include the development of client relationships and guiding the management of the overall firm. As the Senior Architect he is responsible for the development of concept designs by performing technical tasks which include: Project space programming; Aesthetic design development; Schematic layout of functional spaces; Concept and coordination of building systems such as mechanical, electrical, and plumbing. He oversees the preparation of bidding documents, material specifications; and construction management and administration. His experience spans a wide range of commercial projects that include health care, business, recreational, educational, religious, municipal and military construction (MILCON) with single project construction budgets in excess of \$65 million.

Achievements and Awards:

West Virginia Board of Architects, President
West Virginia Design-Build Board
Retired Colonel in the United States Army Reserves most recently assigned to the Fifth United States Army as the Army's Emergency Preparedness Liaison Officer (EPLO) for West Virginia.
City of Bridgeport's Emergency Services Council
Recipient of Fairmont State University's 2017 Distinguished Alumni
Past member of the Fairmont State University's Faculty Advisory Committee for Architectural Engineering Technology

Years of Experience

Joined Omni in 1983

Background

Master of Architecture: Virginia Polytechnic Institute, 1983
BS, Civil Engineering Technology: Fairmont State College, 1980

Select Project Experience

West Virginia State Office Complex (Fairmont)

Mon Power Transmission Control Center & Regional Headquarters

West Virginia High Technology Consortium:

5000 NASA Boulevard

Allan B. Mollohan Innovation & Incubator Center

WVHTCF Training Center

West Virginia Army National Guard:

Buckhannon, Armed Forces Readiness Center

Fairmont, Armed Forces Readiness Center

Eleanor Armed Forces Readiness Center

Eleanor Maintenance Facility

Eleanor Access Road & Guard House

Fairmont State University:

Wallman Hall Renovations

Engineering Tech Addition and Renovations

Library Addition & Renovation

Feaster Center Addition & Renovation

Colebank Hall Renovation

Inner Campus Renovation

New Education and Health Sciences Building

Robert C. Byrd Aerospace Center

Pendleton County Schools:

Franklin Elementary School

Harrison County Schools:

Lumberport Elementary School

Lincoln Middle School

Simpson Elementary Addition

Marion County Schools, WV

West Fairmont Middle School

Fairmont Sr. High School Cafeteria

City of Fairmont, West Virginia:

Public Safety Building

Municipal Complex

Parking Garage



Jason M. Miller, , AIA, NCARB

Project Role: Project Manager, Design Architect

Experience: Became a Principal Architect in 2015. Seven years' experience as an intern architect with comprehensive knowledge of project management from programming through construction administration. Architectural practice has included diverse project types including educational facilities, government and military facilities, office buildings, health care facilities, commercial design, multifamily and single-family housing, and custom fabrication.

Achievements and Awards:

Leadership Marion XXX (2011—2012)

Adjunct Professor at Fairmont State University teaching Advanced Architectural CAD as well as Design classes.

Board of Directors of Monongalia Arts Center

Assisted Habitat for Humanity of Morgantown to develop potential low income housing strategies.

Awarded Outstanding Thesis Award - 2004: Virginia Tech faculty.

Registration and Professional Affiliations

American Institute of Architects, Member

American Institute of Architects—West Virginia, Member

National Council Architectural Registration Board

U.S. Green Building Council, Firm Membership

Associated Builders and Contractors Inc., Firm Membership

Years of Experience

Joined Omni in 2007

Background

Master of Architecture: Virginia Polytechnic Institute, 2004

Select Project Experience

WVU Medicine Morgantown South

West Virginia Army National Guard Armed Forces Readiness Center

Charleston Federal GSA Building

West Virginia University Blanchette Rockefeller

Neurosciences Institute

West Virginia University Child Development Center

Morgantown Utility Board Renovations

West Virginia High Technology Consortium

NASA and National White Collar Crime Fit Outs

University Health Associates MRI Addition

Sundale Palliative Care Center Addition

Atlas Chiropractic Center

Timberbrook Townhomes

Starbucks / Chipotle @ University Town Center

Grant Avenue Apartments

Pro Performance at University Place

Assisted Living at White Oaks

WVU Agriculture Science Meat Processing Lab

buckhannon readiness center
buckhannon, west virginia
\$13.2 million
37,000 square feet



West Virginia Army National Guard (WVARNG) Buckhannon Readiness Center

about . . .

The Buckhannon Army National Guard Readiness Center is a dual-use building funded by a combination of Federal, State, and local money. The 37,000 sf facility houses three units of the West Virginia Army National Guard (WVARNG) and serves the public sector of Upshur County with a multi-purpose conference center. These dual purposes are reflected in the basic design.

The two functional areas are located in separate wings spanning east and west from the main lobby entrance with clear distinctions between public and private spaces. The west wing is a public conference center, which, through the use of operable partitions, can be configured any number of ways to allow for educational, business, community, and private events. The two-story east wing houses the WVARNG units: 601st Horizontal Engineer Company, 1935th Contingency Contracting Team and the 229th Engineer Survey and Design Team. It includes office space, a classroom, storage, sleeping rooms, fitness room, and locker rooms.

The building structure is steel with the exterior consisting mainly of brick veneer with some upper story metal panels and storefront glazing. A 3,200 sf unheated pre-manufactured metal storage building was erected adjacent to the main building. Outside supporting facilities include military and privately-owned vehicle parking, fencing, sidewalks, exterior fire protection, outside lighting, access roads, detached facility sign, wash platforms, fuel storage and dispensing systems and flagpoles. Physical security measurements include maximum feasible standoff distance from roads, parking areas, and vehicle unloading areas, berms, heavy landscaping, and bollards to prevent access when standoff distance cannot be maintained. This project was designed and constructed to achieve LEED® Silver certification. Cost effective energy conserving features include energy management control systems and high efficiency motors, lighting, and HVAC systems.



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omni associates—architects

Fairmont readiness center
West Virginia Army National Guard
Fairmont, West Virginia

\$25 million
21,600 square feet



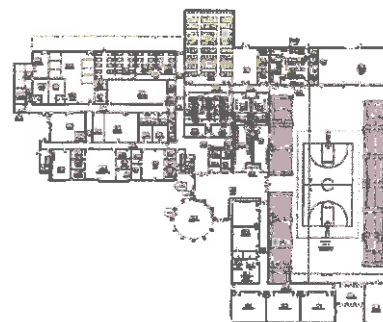
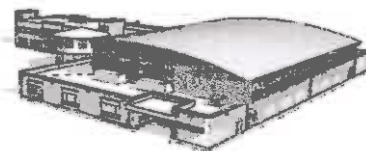
West Virginia Army National Guard (WVARNG) Fairmont Readiness Center

about . . .

The specially designed AFRC is permanent masonry type construction with standing seam roof, concrete floors, and mechanical and electrical equipments with emergency power generator backup. This 150 member training facility includes administrative, educational, assembly, library, learning center, vault, weapons simulator and physical fitness areas for one each WVARNG and USAR units. The maintenance shop provides work bays and maintenance administrative support. The project provided for adequate parking space for all military and privately owned vehicles.

This project has been coordinated with the installation physical security plan, and all physical security measures are included. All required antiterrorism protection measures are included. Sustainable principles will be integrated into the design, development, and construction of the project in accordance with Executive Order 13123.

Supporting facilities include weapons cleaning, maintenance, issue, turn-in sheds, access roads, security fencing and dark motor pool lighting, vehicle wash system and pump house, fuel storage and dispensing systems, loading ramp, flammable materials storage building, controlled waste handling facility, and sidewalks. Extension of gas, electric, sewer, water and communication utilities to the building site is included. Physical security measures include maximum feasible standoff distance from roads, parking areas, and vehicle unloading areas, beams, heavy landscaping and bollards to prevent access when standoff distance cannot be maintained. Cost effective energy conserving features are incorporated into design.

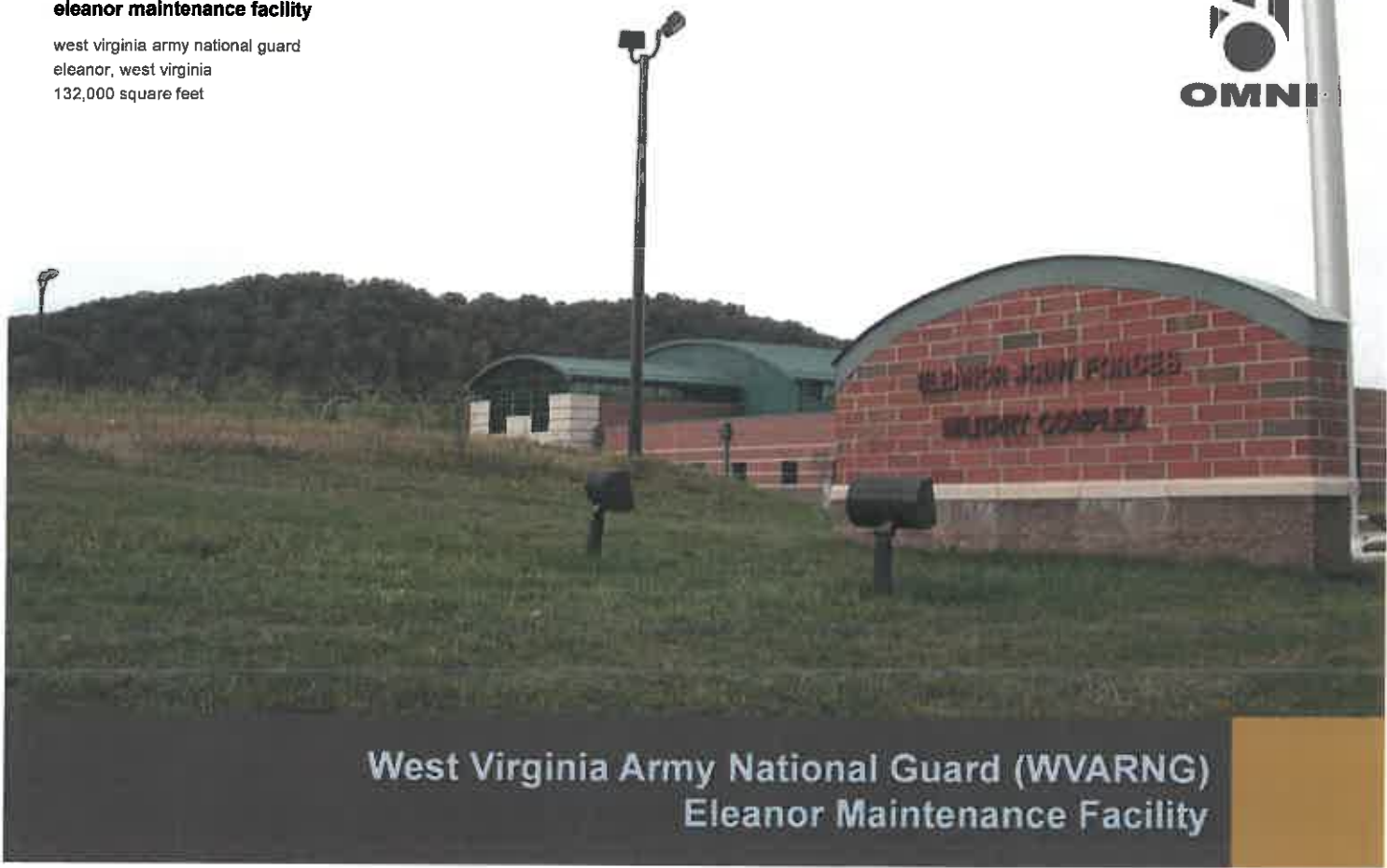


Contact:
COL David Shaffer, CFMO
1707 Coonskin Drive
Charleston, WV 25311
304-541-6539

visualization realization
omni associates—architects

eleanor maintenance facility

west virginia army national guard
eleanor, west virginia
132,000 square feet



**West Virginia Army National Guard (WVARNG)
Eleanor Maintenance Facility**



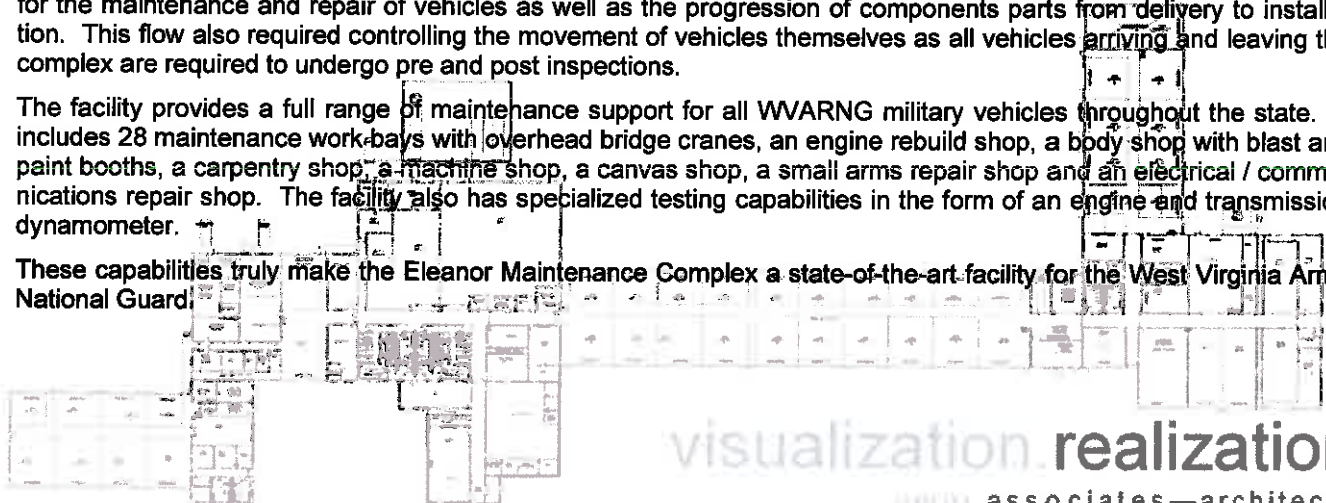
about

The Eleanor Maintenance Complex in Eleanor, WV is a 132,000 square foot state-of-the-art repair and maintenance facility for the West Virginia Army National Guard (WVARNG). This specially designed Army "Combined Logistic Support Facility" houses the Combined Support Maintenance Shop (CSMS), an Organizational Maintenance Shop (OMS) and United States Property and Fiscal Office (USPFO) parts storage warehouse.

The design of the facility is based upon the functional concept of a straightforward flow in and around the facility. This focuses on a logical and efficient flow of work for the maintenance and repair of vehicles as well as the progression of components parts from delivery to installation. This flow also required controlling the movement of vehicles themselves as all vehicles arriving and leaving the complex are required to undergo pre and post inspections.

The facility provides a full range of maintenance support for all WVARNG military vehicles throughout the state. It includes 28 maintenance work bays with overhead bridge cranes, an engine rebuild shop, a body shop with blast and paint booths, a carpentry shop, a machine shop, a canvas shop, a small arms repair shop and an electrical / communications repair shop. The facility also has specialized testing capabilities in the form of an engine and transmission dynamometer.

These capabilities truly make the Eleanor Maintenance Complex a state-of-the-art facility for the West Virginia Army National Guard.



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omni associates—architects

www.omni411.com

eleanor readiness center

eleanor, west virginia
83,900 square feet

OMNI

JOINT FORCES RESERVE CENTER

West Virginia Army National Guard (WVARNG) Eleanor Readiness Center

about . . .

The Armory facility in Eleanor, West Virginia is a single-story, brick masonry and steel structure located adjacent to the Maintenance Facility. The orientation of the building takes advantage of views of the wetland area and the Kanawha River. The Armory houses units of the state Army National Guard and one unit of the Navy.

The plan configuration is a result of meetings with each of the units and commanders, and consolidates areas under the responsibility of individual units to minimize travel. The separation of public versus unit specific spaces is dictated by the need for logical and efficient circulation as well as the direct relationship of spaces within those areas.

The location of the Assembly Hall is central to all spaces and adjacent to the main entrance due to its use for public and military functions. The hall is utilized by the military for drill training and dining, and by the public for gatherings such as banquets and dances. The Kitchen is located adjacent to the Assembly Hall to expedite meals to both civilians and the military. The Maintenance Work Bays and AFIST bay are located at the rear of the building for accessibility of military vehicles, as well as shielding the function of the areas from the entrance and the public. The AFIST bay is located adjacent to the Assembly Hall for the purpose of large group instruction within the hall and individual instruction within the bay area.

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omni associates—architects



References

OMNI ASSOCIATES - ARCHITECTS realizes that our relationships with our clients is a vital component in the success of realizing their goals and needs. We encourage you to contact any of the following references in assisting you with your selection of a professional architectural firm.

Bob Krause, Architecture & Engineering
State of West Virginia
1900 Kanawha Blvd. East
Bldg. 1, Room MB-60
Charleston, WV 25305
304-957-7143

Mayor Guy Ward
Town of White Hall
3 Timrod Drive
White Hall, WV 26554
(304) 367-1687

COL David P. Shafer
West Virginia Army National Guard
1705 Coonskin Drive
Charleston, WV 25311-1085
304-541-6539

Johan Graham, Director of Development
AU Associates
159 Old Georgetown Street
Lexington, KY 40508
859-233-2009

David Biafora
Biafora Holdings, LLC
6200 Mid-Atlantic Drive
Morgantown, WV 26508
304-292-0900

Dale Miller, President
West Virginia Radio
260 Spruce Street
Morgantown, WV 26505
304-296-0029



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 Company. Our projects span the nation, with the heaviest concentration in the Northeast, and exceed \$530 million in MEP, Civil and Structural construction annually. Each market sector—corporate, government, health care, education, and industry—is served by a team of specialists who understand the unique needs of the clients they serve. Our staff consists of 150 individuals, including 50 Licensed Professional Engineers and 19 LEED Accredited Professionals. Our headquarters is in Johnstown, Pennsylvania with branch offices in Pittsburgh, Pennsylvania, Conneaut, Ohio, and Middletown, Connecticut.

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

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: 203-314-5523

DISCIPLINES/SERVICES OFFERED IN-HOUSE INCLUDE:

- › Mechanical Engineering
- › Electrical Engineering
- › Data/Communications Engineering
- › Fire Protection / Life Safety Engineering
- › Structural Engineering
- › Civil Engineering
- › Surveying
- › GIS
- › Construction Phase Services
- › Commissioning and Training
- › 3D CADD with Full Visualization
- › Energy Modeling
- › Sustainable design/LEED Services
- › Building Information Modeling (BIM)

LEED®

Our firm has been a member of the U.S. Green Building Council since 2000 and we currently have 17 LEED® Accredited Professionals on staff. Our experience includes 80+ projects that have attained various levels of LEED Certification and numerous additional projects designed for various levels of LEED Certification, in total over 16 million sq.ft. of facilities.

EXPERIENCED PROJECT TEAM

The team that will serve on this contract is comprised of dedicated, multi-discipline individuals that have been working together for over 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 \$100 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. Our experience also includes the renovation of several reserve centers including Morelock and Copely Reserve Centers. We have also held seven consecutive term contracts for Letterkenny Army Depot under which we have completed a wide variety of projects requiring various engineering expertise.





Thomas F. Deter, P.E., LEED AP

Principal-in-Charge of MEP Systems Engineering

Mr. Deter has over 30 years of experience and 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 has extensive experience 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. He is experienced in the design of power distribution systems; emergency power systems and monitoring; uninterruptible power supplies; lighting and emergency lighting systems; fire alarm systems; security; sound; and telephone systems.

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 REGISTRATION / CERTIFICATION

Licensed Professional Engineer in Pennsylvania, Arkansas, Idaho, Illinois, Indiana, Maryland, Nebraska, New Jersey, North Carolina, Ohio, Oklahoma, Oregon, South Dakota, Virginia, and West Virginia • LEED Accredited Professional

PROFESSIONAL AFFILIATIONS

NSPE/PSPE • U.S. Green Building Council

PROJECT EXPERIENCE

Camp Dawson, U.S. Army National Guard, Kingwood, West Virginia

- › Three new billeting facilities

Pennsylvania Army National Guard, Pittsburgh, Pennsylvania

- › Rehabilitation of New Castle Readiness Center
- › Rehabilitation of Crane Readiness Center

Letterkenny Army Depot, Chambersburg, Pennsylvania

- › Over 100 projects completed under seven consecutive term contracts
- › Rocket Army Munitions Center (LEMC), AP Rocket Motor Destruction Facility, Phase I
- › Building 1, New SCIF

U.S. Army Reserve Aviation Center, Weirton, West Virginia

- › Design/build training building with classrooms, assembly hall, arms vault, armorer, weaponeer room, and Comsec training area, and a 6,300 sq.ft. OMS

U.S. Army Reserve Center, Wheeling, West Virginia

- › Design/build training building with classrooms, administrative areas, library, assembly hall, weaponeer room and medical section, and 17,000 sq.ft. OMS/AMSA

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

- › Various renovations and new construction under two term contracts



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

Mechanical Engineer

Mr. Stewart has 34 years of 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, and cost estimating. His experience includes the design of mechanical systems for laboratories, hospitals, educational facilities, industrial plants, and military installations. He has also been involved in the design of chiller and boiler plants.

PROJECT EXPERIENCE

Camp Dawson, U.S. Army National Guard, Kingwood, West Virginia

- › Three new billeting facilities

Pennsylvania Army National Guard, Pittsburgh, Pennsylvania

- › Rehabilitation of New Castle Readiness Center
- › Rehabilitation of Crane Readiness Center

Letterkenny Army Depot, Chambersburg, Pennsylvania

- › Over 100 projects completed under seven consecutive term contracts
- › Building 1, New SCIF

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

- › Various renovations and new construction under two term contracts

Walter Reed Army Medical Center

- › Renovation and upgrade to Building 12, Provost Marshal's Facility
- › Repair and upgrade of the main steam distribution system from the Garrison's Steam Plant, Building 15, to the Main Hospital building, Building 2

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

EDUCATION

Master of Science, Mechanical Engineering, 1995, University of Pittsburgh

Graduate Courses in Facilities Engineering, 1984-1987, Air Force Institute of Technology

Bachelor of Science, Mechanical Engineering, 1984, University of Pittsburgh

EXPERIENCE

H.F. Lenz Company 1995 – 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

PROFESSIONAL AFFILIATIONS

American Society of Heating, Refrigerating, and Air-Conditioning Engineers; APPA; U.S. Green Buildings Council



Steven P. Mulhollen, P.E.

Electrical Engineer

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.

PROJECT EXPERIENCE

Camp Dawson, U.S. Army National Guard, Kingwood, West Virginia

- › Three new billeting facilities

Pennsylvania Army National Guard, Pittsburgh, Pennsylvania

- › Rehabilitation of New Castle Readiness Center
- › Rehabilitation of Crane Readiness Center

Letterkenny Army Depot, Chambersburg, Pennsylvania

- › Over 100 projects completed under seven consecutive term contracts
- › Rocket Army Munitions Center (LEMC), AP Rocket Motor Destruction Facility, Phase I
- › Building 1, New SCIF

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

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

- › Various renovations and new construction under two term contracts
- › Primary underground site investigation, mechanical, plumbing, electrical, land survey and utility location consulting for 4160V electrical relocation

Pennsylvania State Capitol Complex, Harrisburg, Pennsylvania

- › Mail Facility Renovations

EDUCATION

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

EXPERIENCE

H.F. Lenz Company 1999 – Present
• 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, California, Florida, Iowa, Kansas, Kentucky, Louisiana, Massachusetts, Maryland, Missouri, Nebraska, Nevada, New Jersey, New Mexico, New York, North Carolina, Ohio, Rhode Island, Tennessee, West Virginia, DC

PROFESSIONAL AFFILIATIONS

Institute of Electrical and Electronics Engineers, Inc.



Gregory D. Rummel, CPD

Plumbing/Fire Protection Designer

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.

EDUCATION

Bachelor of Science, 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 REGISTRATION / CERTIFICATION

Certified in Plumbing Design, ASPE

PROJECT EXPERIENCE

Camp Dawson, U.S. Army National Guard, Kingwood, West Virginia

- › Three new billeting facilities

Pennsylvania Army National Guard, Pittsburgh, Pennsylvania

- › Rehabilitation of New Castle Readiness Center
- › Rehabilitation of Crane Readiness Center

Letterkenny Army Depot, Chambersburg, Pennsylvania

- › Over 100 projects completed under seven consecutive term contracts

U.S. Army Reserve Aviation Center, Weirton, West Virginia

- › Design/build training building with classrooms, assembly hall, arms vault, armorer, weaponeer room, and Comsec training area, and a 6,300 sq.ft. OMS

U.S. Army Reserve Center, Wheeling, West Virginia

- › Design/build training building with classrooms, administrative areas, library, assembly hall, weaponeer room and medical section, and 17,000 sq.ft. OMS/AMSA

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

- › Various renovations and new construction under two term contracts

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

Relevant Project Experience

PENNSYLVANIA ARMY NATIONAL GUARD, CRANE READINESS CENTER REHABILITATION, PITTSBURGH, PENNSYLVANIA

H.F. Lenz Company provided the MEP Engineering for the rehabilitation of a 26,700 sq.ft. reserve center. The project included HVAC & electrical system evaluation and improvements, Bathroom rehabilitation/installation of low-flow fixtures, Americans with Disabilities Act compliance upgrades, Code compliance upgrades, Exterior lighting, Antiterrorism/force protection requirements around the perimeter of the property and a new emergency generator supporting up to 35% of facility's load requirements. In addition the project included construction of a 3,000 to 5,000 sq.ft. heated storage building equipped with supply caging.

Phases 1 and 2 of the \$2.2 million project were completed in 2015. Phase 3 is currently in construction.

Mark Austin, Department of Military and Veterans Affairs,
Office of Facilities and Engineering, Building 0-47, Fort
Indiantown Gap Annville, PA 17003 Phone: 717/861-2915

PENNSYLVANIA ARMY NATIONAL GUARD, REHABILITATION OF READINESS CENTER, NEW CASTLE, PENNSYLVANIA

H.F. Lenz Company provided MEP Engineering for the rehabilitation of a 23,000 sq.ft. Readiness Center. The project included electrical upgrades throughout, new fire alarm system and emergency lighting, HVAC renovations including replacement of the steam heating system with hot water, adding air conditioning to service areas and replace water heaters. In addition, the design included providing a new domestic water service and piping, updating the sanitary sewer and vent piping, modifying the natural gas service and piping and renovating the toilet rooms and shower rooms throughout the building.

Design on the \$2.5 million project was completed in 2017. Construction is expected to be completed in 2018.

Mark Austin, Department of Military and Veterans Affairs,
Office of Facilities and Engineering, Building 0-47, Fort
Indiantown Gap Annville, PA 17003 Phone: 717/861-2915

PROJECT EXPERIENCE



LETTERKENNY ARMY MUNITIONS CENTER (LEMC), AP ROCKET MOTOR DESTRUCTION FACILITY – PHASE 1, CHAMBERSBURG, PA

H.F. Lenz Company provided design and permitting services for a new Rocket Motor Destruction Facility. The \$28 million facility includes the chemical treatment processing chamber, loading and unloading facilities, and a building that serves as a preparation building and control room for the operation; and it encompasses a 40-acre site that includes lightning protection, utility services, storm water management facilities, and stabilized surfaces for movement of materials and equipment throughout the process. The facility location was determined based on explosives safety quantity-distance considerations in accordance with Army safety policies. In the new facility, the rocket motors are placed in a liquid-filled chamber where the propellant is removed through an immersion process that produces a chemically inert liquid that is continuously treated and recycled back into the chamber. The metal components of the rocket motor are then recycled as standard scrap materials.

Total Construction Cost: \$26 million, Completed in 2013

We have completed a wide variety of projects at Letterkenny through six consecutive term contracts. A few additional relevant projects have included:

Buildings 350 & 320: Phased renovations to the 375,000 sq.ft. Building 350 and the 100,000+ sq.ft. Building 320, which are utilized for military vehicle reconditioning and housing paint shops, welding shops, machine shops, warehouse space, and office areas. Also designed office space additions.

Building 2363, Addition and Renovations: Renovate and upgrade existing building to include office space, break room, restrooms, and mechanical room for new mission support. Mechanical systems upgrades include new HVAC system, upgraded electrical system, and compressed air. Remove entirely and replace existing overhead.

Building 5647, Addition and Renovations: Expansion of the existing building to the south and east to accommodate additional office space, larger work area and overhead doors to accommodate larger shipping containers.

James Coccagna, Letterkenny Army Depot, Department of the Army, ATTN: AMSAM-LE-EE-F, Building 14, One Overcash Avenue, Chambersburg, PA 17201-4150 PH: 717/267-5601 Fax: 717/267-9713 Email: jcoccagn@emh1.lead.army.mil

H.F. LENZ COMPANY

PROJECT EXPERIENCE





OHIO NATIONAL GUARD, AKRON-CANTON REGIONAL AIRPORT

H.F. Lenz Company provided the mechanical, electrical, plumbing, fire protection, and structural engineering services for the expansion and alteration of the existing Army Aviation Support Facility (AASF) hangar. The existing hangar, originally constructed in 1986, did not have adequate capacity to house the newly assigned CH-47 helicopters at the facility. The existing facility was also 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.



Features of the project included:

- › Design of FAA lighting
- › Fuel/water separator systems
- › Fixed foam fire suppression systems
- › Structural supports
- › Tie downs

Completion date: 2008
Construction cost: \$6,700,000



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george.mccann@oh.ngb.army.mil

PROJECT EXPERIENCE



**NAVAL AIR STATION JACKSONVILLE (NAVFAC SOUTHEAST)
JACKSONVILLE, FLORIDA**

P-8A INTEGRATED SIMULATION/TRAINING CENTER

This Design/Build project consisted of the design and construction of a \$48.6 million multi-story, 165,665 sq.ft. operational training center for a next generation Command and Control multi-mission aircraft (MMA)/P-8A. The P-8A Integrated Training/Simulation Center contains the most advanced state-of-the-art computational facility to support 40 instruction environments and 19 multi-million dollar simulation trainers. The facility also houses the US Navy's P-8A's program mission design command within a classified Secure Compartmented Information Facility (SCIF). The new facility adds hundreds of new jobs to the base and the Jacksonville metro area. The project incorporated best practices for sustainable design including on site storm-water retention for sanitation and irrigation.

The building was designed with a dedicated outdoor air unit for energy efficiency and energy recovery, as well as two 4,000A 480Y/277V services. The building is also equipped with a 150 kW generator to provide emergency power for the lighting, fire pump and communications loads.

The project has received a LEED Gold Rating.
Construction Completion: August 3, 2011

Construction Cost: \$48,600,000 (Total)



**U.S. AIR FORCE – 911TH AIRLIFT GROUP, GREATER PITTSBURGH
INTERNATIONAL AIRPORT, CORAOPOLIS, PENNSYLVANIA**

The new 21,700 sq.ft. Base Civil Engineering Building for the 911 Airlift Group at the Pittsburgh International Airport provides administrative spaces, shops, and storage area to support a permanent engineering staff and 150 reservists. The project was phased to allow existing facilities to remain in use during construction. The buildings were then demolished and the site work was completed.

H.F. Lenz Company also provided design services for the 911 Airlift Group on two indefinite delivery A/E contracts. Services included site investigations, preliminary and final design, design analysis, and cost estimates.

Department of Defense Facilities

U.S. ARMY CORPS OF ENGINEERS, BALTIMORE

ARMY RESERVE AVIATION FACILITY *Johnstown, Pennsylvania*

- › New 120,000 sq.ft. multi-building complex including an armed forces reserve center and an aviation maintenance shop

ARMY RESERVE CENTER *Beckley, West Virginia*

- › New 300-member reserve center with training building and maintenance shop

ARMY RESERVE CENTER *Morgantown, West Virginia*

- › New 300-member reserve center with training building and maintenance shop

ARMY RESERVE CENTER *Wheeling, West Virginia*

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

ARMY RESERVE CENTER *Rainelle, West Virginia*

- › New 200-member reserve center with training building and maintenance shop

ARMY RESERVE CENTER *Weirton, West Virginia*

- › New 200-member reserve center with training building and maintenance shop

ARMY RESERVE CENTER *Brownsville, Pennsylvania*

- › New 200-member reserve center with training building and maintenance shop

ARMY RESERVE CENTER *Johnstown, Pennsylvania*

- › New 200-member reserve center with training building and maintenance shop

ARMY RESERVE CENTER *Kingwood, West Virginia*

- › Maintenance shop

ARMY RESERVE CENTER *Grantsville, West Virginia*

- › New 100-member reserve center with training building and maintenance shop

ARMY RESERVE CENTER *Elkins, West Virginia*

- › New 60-member reserve centers with training building and maintenance shop





MORLOCK ARMY RESERVE CENTER *Pittsburgh, Pennsylvania*

- › HVAC modifications

COPELY ARMY RESERVE CENTER *Oil City, Pennsylvania*

- › Boiler addition

STEELE ARMY RESERVE CENTER *Pittsburgh, Pennsylvania*

- › Complete HVAC system replacement

CAMP DAWSON *Kingwood, West Virginia*

- › Three new billeting facilities

LETTERKENNY ARMY DEPOT *Chambersburg, Pennsylvania*

- › Seven indefinite-delivery contracts for mechanical, electrical, civil, and structural engineering and surveying services

FORT RICHIE *Fort Ritchie, Maryland*

- › Two indefinite-delivery contracts for mechanical, electrical, civil, and structural engineering and surveying services

AMMUNITION PLANT *Scranton, Pennsylvania*

- › Upgrade lighting system in production shop

911 AIRLIFT GROUP, GREATER PITTSBURGH INTERNATIONAL AIRPORT *Pittsburgh, Pennsylvania*

- › Study and design of new Base Civil Engineer Facility
- › Indefinite delivery contract for architectural and engineering services

U.S. ARMY CORPS OF ENGINEERS, NORFOLK

WALTER REED ARMY MEDICAL CENTER *Washington, D.C.*

- › Energy engineering analysis program, main hospital building

U.S. ARMY CORPS OF ENGINEERS, PHILADELPHIA

PHILADELPHIA, PENNSYLVANIA

- › Tenant fit-up

PA DEPARTMENT OF MILITARY AFFAIRS

FORD CITY ARMORY *Ford City, Pennsylvania*

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





**NAVAL FACILITIES ENGINEERING COMMAND (NAVFAC),
NORTHERN DIVISION**

NAVAL AIR STATION *Lakehurst, New Jersey*

- › Air conditioning tune-up study

NAVAL SHIP PARTS CONTROL CENTER *Mechanicsburg, Pennsylvania*

- › Administrative facility improvements

**NAVAL FACILITIES ENGINEERING COMMAND (NAVFAC),
CHESAPEAKE & ATLANTIC DIVISION**

NAVAL RESEARCH LABORATORY *Washington, D.C.*

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

OCEANA NAVAL STATION *Virginia Beach, Virginia*

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

**NAVAL FACILITIES ENGINEERING COMMAND (NAVFAC),
SOUTHEAST DIVISION**

P-8A INTEGRATED SIMULATION/TRAINING CENTER *Jacksonville, Florida*

- › New \$42.5 million, 165,000 sq.ft. operational training facility for a new Multi-Mission Maritime Aircraft (MMA)/P8-A located at the Naval Air Station; Project goal is LEED Gold



DEPARTMENT OF GENERAL SERVICES

PENNSYLVANIA NATIONAL GUARD *Johnstown, Pennsylvania*

- › New 23,560 sq.ft. Regional Maintenance Facility

PENNSYLVANIA ARMY NATIONAL GUARD, 128TH BRIGADE SUPPORT BATTALION

- › Renovation of the 26,700 sq.ft. Crane Readiness Center which houses 250 soldiers

PENNSYLVANIA ARMY NATIONAL GUARD, 107TH FIELD ARTILLERY BATTALION

- › Rehabilitation of 23,000 sq.ft. New Castle Readiness Center which houses approximately 120 soldiers



Additional Specialized Experience



- › Experience with a wide variety of government agencies including: the General Services Administration, the Department of Homeland Security, Customs and Border Protection, the United States Marshalls Service, PA State Police, the Social Security Administration, the PA Department of Transportation, the U.S. Postal Service, Department of Defense and the U.S. Drug Enforcement Administration
- › Dedicated mission-critical design team that has over 20 years experience working with financial institutions, insurance companies, and governmental agencies that require extreme levels of reliability and redundancy in their M/E systems
- › Engineering services for approximately 50 different GSA facilities throughout the U.S., the majority of which have included judiciary facilities, and included new design, as well as, the phased renovation of occupied facilities.
- › Experience with various mechanized process systems for financial institutions, insurance providers, the U.S. Postal Service and other government agencies
- › Vast portfolio of sustainable design experience, including over 16 million sq.ft. of facilities that have attained various levels of LEED® Certification and numerous Energy Star® Building Label projects.
- › Experienced in the design of SCIFs and enhanced security features for a variety of clients
- › Aviation Experience - Aviation facilities of various types for both private and public clients. This experience includes our current new terminal project at Williamsport Regional Airport, as well as projects at the Erie International Airport (Tom Ridge Field), Greater Pittsburgh International Airport, John Murtha Johnstown-Cambria County Airport and facilities for several large corporate clients and governmental agencies such as the Ohio National Guard, U.S. Air Force, U.S. Army, and the Pennsylvania Air National Guard. We are thoroughly familiar with current FAA standards and procedures, as well as with Pennsylvania Building Codes and NFPA standards.
- › Energy Analysis, Energy Modeling, ASHRAE Level I, II, and III Building Energy Audits, Measurement and Verification Plans and Implementation services
- › In-house construction phase services



Diverse, Large-Scale Project Examples with Various End-Users and Relevant Spaces

- **Bucks County Justice Center** - Doylestown, PA; New 265,000 sq.ft. Justice Center; Utilizing BIM; 2014; \$120 million; *Designed to Attain a LEED™ Silver*
- **NASA** – Hampton, Virginia; New 136,000 sq.ft. building that houses several different User Groups on the Langley Campus. The new building includes a conferencing center, a full service cafeteria, auditorium, training rooms, navigation center, engineering collaboration space, Multi-Mid-Atlantic Region – Design-Build Honor Award; 2015, Federal Energy and Water Management Award; U.S. Department of Energy; 2015, GSA Project Management Award for Large Federal Construction; 2015, GSA Regional Administrator Award for Making a More Sustainable Government Environmental Footprint; 2015, ENR Southeast Award of Merit for Green Category
- **NASA** - Langley, Virginia; New 75,000 sq.ft. Design/Build Administration/Office Building; Utilized BIM; 2011; LEED Platinum
- **Temple University** – Philadelphia, PA; New 660,000 sq.ft. complex with 1,275 student beds and a three level 40,000 sq.ft. dining pavilion; \$220 million; 2013; Designed for LEED Certification; Awards: 2014 ACE Project of the Year
- **Social Security Administration (SSA)** – Woodlawn, MD; Renovation of 1.2 million sq.ft. Operations Building, phased project; 2006; \$125 million; LEED Certified
- **Robert F. Kennedy Main Justice Department Building** – Washington DC; Modernization of the 1.8 million sq.ft. historic building, phased project - 2004; \$130 million Awards: 2004 GSA Design Award Honor; Marvin M. Black Partnering Award; 2006 Silver Reconstruction Award
- **GSA** - Charleston, WV; New 19,427 sq.ft. FBI Building; Designed to attain LEED Silver and an ENERGY STAR rating of 75 or above; 2010
- **PA State Police, New Headquarters** -Greensburg, PA; New 31,000 sq.ft. headquarters building; Project is currently in design
- **PA State Police, DNA Lab** - Greensburg, PA; New 50,000 sq.ft. DNA lab building; Project is currently in design

Company Overview

Civil & Environmental Consultants, Inc. (CEC) provides comprehensive market-oriented consulting services that advance client strategic business objectives.

Consistently ranked among the Top 500 Design Firms and Top 200 Environmental Firms by *Engineering News-Record*, CEC is recognized for providing innovative design solutions and integrated expertise in air quality, civil engineering, ecological sciences, environmental engineering and sciences, planning, survey, transportation engineering, waste management, and water resources.

Safety First — CEC believes that all accidents are preventable and is committed to creating an accident and incident free workplace for employees and subcontractors through training, safe work practices, and processes for assessing project hazards. CEC strives for safety excellence throughout our entire organization and holds employees and subcontractors accountable for the safe performance of their work. Safety is a key element of CEC's Strategic Plan and is represented by our Accident and Incident Free program.

Market Oriented — Multi-disciplined Industry Consulting Groups (ICGs) are derived from the primary practice areas to strategically focus on the business challenges and drivers of the manufacturing, mining, oil and gas, power, public sector, real estate, and solid waste markets. Each of these diverse teams is a conduit to the latest thinking and advancements in the markets we serve, allowing CEC to provide clients with concise, timely information and regulatory updates to facilitate informed decision-making.

Employee Owned — CEC's employee-owners are highly motivated by the link between our success and that of our clients. Our continuing growth reflects client confidence in the work of our employees, who are guided by three core business principles:

- **Senior Leadership**
- **Integrated Services**
- **Personal Business Relationships**



Multi-Disciplined

Headquartered in Pittsburgh, Pennsylvania, CEC is an expanding company with:

- Civil Engineers
- Geotechnical Engineers
- Transportation Engineers
- Structural Engineers
- Environmental Scientists
- Environmental Engineers
- Chemical Engineers
- Geologists
- Hydrogeologists
- Hydrologists
- Ecologists
- Biologists
- Wetland Scientists
- Threatened & Endangered Species Experts
- Agronomists/Soil Scientists
- Emissions Testing Professionals
- Chemists
- Archaeologists
- Construction Managers & Inspectors
- Environmental Technicians
- Treatment Plant Operators
- Land Surveyors
- Landscape Architects
- GIS Analysts & Programmers

PRACTICES

- Air Quality*
- Civil Engineering*
- Ecological Sciences*
- Environmental Engineering and Sciences*
- Planning*
- Survey*
- Waste Management*
- Water Resources*

INDUSTRIES

- Manufacturing*
- Mining*
- Oil & Gas*
- Power*
- Public Sector*
- Real Estate*
- Solid Waste*



Company Overview

Air Quality

- Air Emissions Testing
- Air Compliance and Permitting
- Greenhouse Gas Reporting
- Air Dispersion Modeling
- Vapor Intrusion Analysis

Civil Engineering

- Predevelopment Site Investigations
- Stormwater Management/BMP Design
- Erosion & Sedimentation Control/NPDES Permitting
- Utility Design
- Site Infrastructure Maintenance/Rehabilitation
- Geotechnical Engineering
- Site Grading/Earthwork Analysis
- Slope Stability/Retaining Structure Design
- Landslide Assessment/Remediation
- Pavement Evaluation and Rehabilitation
- ADA Accessibility Analysis
- Integrated Project Delivery
- Traffic Engineering
- Transportation Planning
- Traffic Signal Design
- Roadway Design
- Landscape Architecture/Land Planning
- Sustainability Planning/Design

Ecological Sciences

- Wetlands and Waters Delineations
- Clean Water Act, Section 401/404 Permitting
- Ecosystem Restoration
- Bathymetric/Hydrographic Surveys
- Soil Science & Phytoremediation
- Water Quality & Sediment Surveys
- Threatened & Endangered Species Surveys/Wildlife Surveys
- Fish and Macroinvertebrate Surveys
- Aquatic and Terrestrial Habitat Surveys
- Clean Water Act, 316 (a) & (b) Permitting
- Wetland & Stream Mitigation Design
- Ecological Risk Assessment and Land Restoration
- Wetland AMD Treatment

Environmental Engineering and Sciences

- Auditing and Compliance Plans
- Phase I & II Assessments
- Property Condition Assessments
- Site Characterization
- Risk Assessments
- RCRA/CERCLA
- Brownfield Redevelopment Services
- Soil/Groundwater Remediation Systems
- Groundwater Monitoring and Assessment
- Hydrogeology and Groundwater Modeling
- Stormwater Sampling & Permitting
- NPDES Permitting Support
- Environmental Management Systems Development

Survey

- Topographic Surveys
- ALTA NSPS Land Title Surveys
- Boundary Retracement Surveys
- Horizontal & Vertical Control Surveys
- Volumetric Surveys
- Construction Surveys
- Oil and Gas Pipeline Surveys
- Unmanned Aerial Services
- Highway R/W Surveys
- As-built Surveys
- Bathymetric/Hydrographic Surveys
- LiDAR Surveys – Short and Long Range

Waste Management

- Site Selection and Characterization
- Merger & Acquisition Due Diligence
- Landfill Design & Permitting
- Transfer Station & MRF Design and Permitting
- Hydrogeologic Site Investigations
- Environmental Monitoring/Compliance
- Leachate Management and Treatment
- Air Compliance & Permitting
- Landfill Gas Management
- LFGTE and Renewables
- O & M of Control Systems
- CCR & Industrial Waste Management
- Waste Characterization
- Solid Waste Facility Operations Audits and Consulting
- Construction Quality Assurance

Water Resources

- Stormwater BMP Design & Inspections
- Compliance Audits
- NPDES Permit Negotiation
- Watershed Planning & Restoration
- Flood Routing and FEMA Map Revisions
- TMDL Modeling & Monitoring
- Water Quality & Quantity Modeling
- Low Impact Development Design
- Erosion & Sediment Control Design and Inspection
- Water Quality BMP Testing
- Stream Assessments & Restoration
- Stormwater Piping & Culvert Inspections
- Municipal Water & Wastewater Treatment
- Industrial Process Water Design
- Industrial Wastewater Treatment

Specialty Services

- Cultural Resource Management
- Architectural History Investigations
- Archaeological Investigations
- GPS/GIS Services
- Web and Mobile Application Development
- Asset and Information Management
- Structural Engineering
- Forensic Engineering
- Expert Witness Testimony
- Design/Build Services
- Construction Services
- Construction Management
- IBC Inspection Services

LOCATED NATIONWIDE

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800.365.2324

Austin, TX
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866.312.2024

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855.859.9932

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Cincinnati, OH
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Columbus, OH
888.598.6808

Export, PA
800.899.3610

Greenville, SC
855.574.4331

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Lake Havasu City, AZ
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Nashville, TN
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Pittsburgh, PA
800.365.2324

Sayre, PA
877.389.1852

Sevierville, TN
865.774.7771

St. Louis, MO
866.250.3679

Toledo, OH
855.274.2324



Steve A. Cain, P.E.

Senior Principal

Mr. Cain, a professional engineer with CEC, has more than 22 years of experience in civil engineering design and project management.

Steve's experience in civil engineering design encompasses many aspects of civil engineering design including land surveying, mapping, site development, sanitary sewer system design, storm sewer system design, potable water distribution system design and hydraulic modeling. Additionally, Steve also has experience in water treatment system design and rehabilitation as well as wastewater treatment design.

Steve has also spent a large part of his career in managing projects from conception to completion. As a project manager Steve has assisted clients in identifying potential project needs, assisting the client in securing project funds, performed and directed detail design, and participated in and managed construction activities.

EDUCATION

B.S., Engineering Technology - (Civil Emphasis), Fairmont State University

REGISTRATIONS

Professional Engineer

• WV [REDACTED]

• PA [REDACTED]

• MD [REDACTED]

PROFESSIONAL AFFILIATIONS

American Society of Highway Engineers

*Fairmont State University
Technology Advisory Board*

*West Virginia Rural Water
Association*

TRAINING

OSHA-Confined Space-Permit & Non Permit Confined Space Entry

OSHA-Construction Training (10-Hour)-OSHA 10-Hour Construction Safety & Health

Kow O. Eshun, P.E.

Geotechnical Engineer

Mr. Eshun has more than ten years of diverse experience in Geotechnical engineering, Logistics, Transportation and Construction Quality Assurance. Mr. Eshun has worked on a wide range of subsurface investigations to provide recommendations for shallow foundations, intermediate foundations, deep foundations, slope stability analyses, ground improvement techniques, mine subsidence, and earthwork for both greenfield and brownfield projects.

Additionally, Mr. Eshun has managed a wide range of projects in the transportation, health, natural gas, manufacturing, telecom and utilities industries including roadway projects, well pads, compressor stations, building projects, substation construction and expansion.

EDUCATION

*M.S., Geotechnical Engineering,
The University of Akron*

*B.S., Civil Engineering, Kwame
Nkrumah University of Science and
Technology*

REGISTRATIONS

Professional Engineer

- TX
- KY
- MD
- WV
- PA
- VA
- OH

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers

Deep Foundations Institute

Project Management Institute

TRAINING

OSHA-Construction Training (10-Hour)-OSHA 10-Hour Construction Safety & Health

OSHA-Construction Training (30-Hour)-OSHA 30-Hour Construction Safety

PUBLICATIONS

Sett, K., Eshun, K. O., Chao, Y.-C., and Jeremi?, B., "Effect of Uncertain Spatial Variability of Soils on Nonlinear Seismic Site Response Analysis", Geotechnical Special Publication No. 225: State of the Art and Practice in Geotechnical Engineering (Proceedings of Geo-Congress 2012, Oakland, CA, March 25-29), Roman D. Hryciw, Adda Athanasopoulos-Zekkos, and Nazli Yesiller, Eds., pp.2856-2865, 2012

James R. Salyer, P.G.

Hazardous Material Lead

Mr. Salyer has over 31 years of professional experience in environmental, mining, and civil engineering projects. Most recently, he has over 20 years of experience in supervising and managing Phase I and II environmental site assessments, site characterizations, remedial action plans, hazardous material surveys, asbestos building surveys, and demolition projects. His technical experience includes over 750 environmental assessments of industrial and commercial properties, including industrial facilities, manufacturing facilities, gasoline stations, dry cleaners, office/retail complexes, various commercial establishments, and large wooded tracts.

He has managed environmental projects requiring NESHAP asbestos surveys, PCB soil and wipe sampling programs, leaking underground storage tank investigations, storage tank closures, surface and subsurface soil sampling, soil boring and monitoring well installation, surface and groundwater sampling, aquifer testing, exploratory test pits, drilling oversight, and design, installation, and maintenance of remedial systems. Mr. Salyer has negotiated with the Pennsylvania Department of Environmental Protection (PADEP) and other regulatory agencies, established remedial alternatives and cost estimates and directed field teams. He is familiar with the Pennsylvania Land Recycling Program (Act 2) regulations.

EDUCATION

B.S., Geology, The Pennsylvania State University

REGISTRATIONS

Professional Geologist

PA [REDACTED]

CERTIFICATIONS

Asbestos Inspector

PROFESSIONAL AFFILIATIONS

Waterways Association of Pittsburgh

TRAINING

Continuing Education-Seminar/short course-ASTM E1527 Phase I Training

OSHA-HAZWOPR Initial

OSHA-HAZWOPR Refresher

Side Scan Sonar Survey, Geotechnical Drilling Locations Lock & Dam 2

Monongahela River, Pennsylvania

Owner Objective

Spectrum Engineers and Associates needed to select accurate locations for subsurface geotechnical drilling in an area immediately upriver of Lock and Dam #2 on the Monongahela River. As a challenge of the project, an underground pipeline and massive concrete pile were very close to the proposed sampling location.

CEC Approach

CEC was contracted by Spectrum Engineers to perform a Side Scan Sonar Survey. CEC personnel scanned the proposed area with the sonar equipment from different angles. Images were then printed out and evaluated, and sampling location determinations were made within minutes upon completion of the survey.

The imaging sonar proved to be a valuable tool in the selection of drilling locations. The use of imaging sonar saved the client both time and money by accurately locating drilling locations surrounded by subsurface hazards. The survey also prevented the damage or loss of equipment and avoided the potential liabilities involved with drilling into a subsurface pipeline.

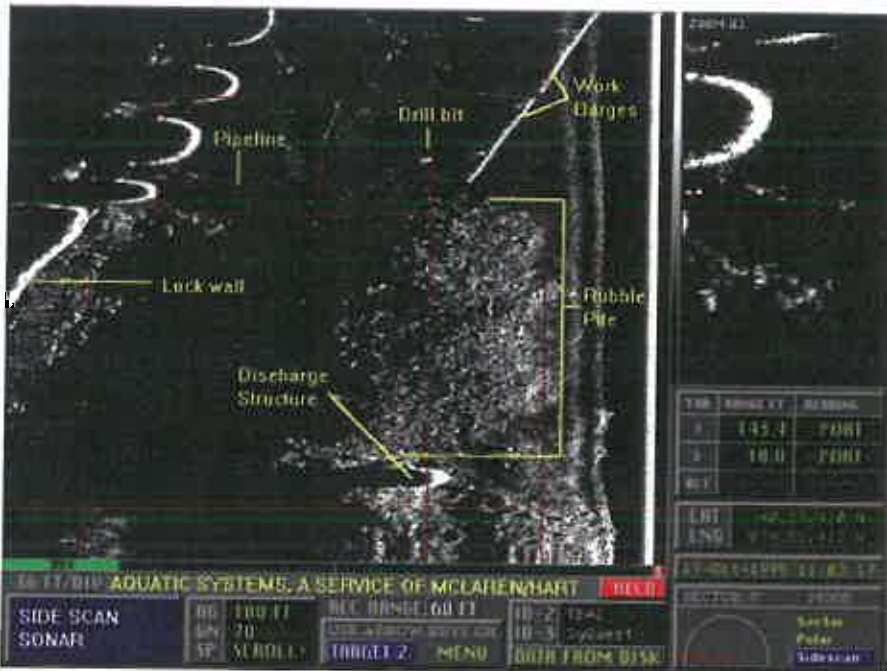
Side Scan and Sector Scan Sonar can be used in a number of underwater construction and engineering operations. These operations include preliminary and final inspections and surveys, excavating, placement of equipment/structures, and monitoring operations. The imaging sonar can play a vital role at every stage. It reduces costs, and simplifies operations, allowing the user to virtually "see" exactly what is happening underwater. Work on bridge footers, pipelines, cables, tunnels, foundations, breakwaters, flood control gates, sub sea production platforms and wellheads can be greatly facilitated through the use of imaging sonar.

CLIENT

Spectrum Engineers and Associates

CEC SERVICES

- Side & Sector Scanning Sonar
- Post-Processing Onsite
- Data Interpretation



Asbestos Surveys and Abatement Multiple Sites

Pennsylvania and West Virginia

Owner Objective

Williams provides gathering, processing, and fractionation of natural gas in the Marcellus Shale region. Williams is building multiple natural gas compressor stations and has acquired agricultural properties to construct the facilities at multiple sites in Pennsylvania and West Virginia. Williams retained CEC to perform the asbestos surveys and the abatement and disposal of asbestos containing materials in order to prepare the structures for demolition.

CEC Approach

CEC teamed with Mid-Atlantic to perform the asbestos survey and contracted with BLT Contracting to perform the asbestos abatement and disposal. Mid-Atlantic also provided third-party air monitoring during the abatement activities. CEC obtained the necessary permits to perform the abatement activities in a timely manner to ensure there were no delays that would affect Williams' critical schedule.

Williams' general contractor demolished the structures after CEC completed of services and the compressors station are currently being constructed.

OWNER/CLIENT

Williams

CEC SERVICES

- *Asbestos Surveys*
- *Construction Management*
- *Design/Build Services*
- *Abatement and Disposal of Asbestos Containing Materials*
- *Third-Party Air Monitoring*

CONTACT

*William McGill
(412) 787-3364*



University of Pittsburgh, Johnstown Campus Student Living/Learning Center

Johnstown, Pennsylvania

Owner Objective

The University of Pittsburgh sought to construct a 37,000 square foot, multi-purpose building on its Johnstown Campus, which incorporated student living facilities that serve as accommodations for conference attendees at the campus, as well as meeting, conference, and dining facilities.

The project incorporated native stone and timber construction materials and new access and circulation roadways and parking areas. The project was developed in a wooded and undisturbed area of the campus that presented geotechnical and groundwater management problems.

CEC Approach

CEC provided geotechnical investigation, wetlands delineation and permitting, and construction monitoring services for this \$8M project. CEC identified jurisdictional wetlands at the site, assisted the development team in planning to minimize wetlands impacts, and prepared a general permit application for a road crossing of one of the wetlands.

CEC provided full-time monitoring of the geotechnical construction, including fill placement and compaction, fill settlement monitoring, installation of subsurface drainage provisions, and foundation subgrade preparation. The design and construction of this project was completed on a fast-track basis.

CEC also provided geotechnical engineering for an addition to the Campus Student Union Building that involved design recommendations and construction services for the overexcavation and "sealing" of coal and carbonaceous shale for the building foundations and basement.

OWNER

University of Pittsburgh

CLIENT

WTW Architects

CEC SERVICES

- *Geotechnical Investigation*
- *Wetlands Delineation & Permitting*
- *Construction Monitoring*



ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI ADJ1900000011

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

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

Addendum Numbers Received:

(Check the box next to each addendum received)

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

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

Omni Associates - Architects

Company



Authorized Signature

November 26, 2018

Date

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

Revised 6/8/2012