omni architects

Date:	Omni Project #	Project Name:
May 31, 2022		State of West Virginia Building 22

To:

ATTN: Melissa Pettrey, Senior Buyer
Department 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 (Disk/ CD/ Other)
☐ Shop Drawings	☒ Proposal	☐ <specify other>

Enclosures

Ref. #	Total Each	Description
1	2	Expression of Interest
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

06/01/22 09:47:03
WV Purchasing Division

Remarks:

If enclosures are not as noted, please inform us immediately.
Omni Associates – Architects, Inc.
207 Jefferson Street
Fairmont, West Virginia 26554-2175
Issued By:

KN (Voice) 304.367.1417
cc:

omni associates - architects, inc.
207 jefferson street • fairmont, wv 26554
P 304.367.1417 • P 855.367.1417 F 304.367.1418
omni411.com

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI GSD2200000007

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

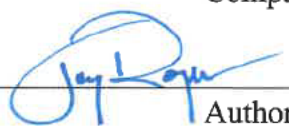
Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

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

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

May 31, 2022
Date

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

State of West Virginia
General Services Division
Building 22
Interior Renovations

CEOI 0211 GSD2200000007
Statement of Qualifications

Architectural & Engineering
Design Services

June 1, 2022

OMNI
ARCHITECTS

EXPRESSION OF INTEREST
ARCHITECT AND ENGINEERING SERVICES
WV GENERAL SERVICES DIVISION
BUILDING 22 INTERIOR RENOVATIONS

CEOI 0211 GSD2200000007

JUNE 1, 2022

Table of Contents

omni
architects

June 1, 2022

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

RE: Solicitation No. CEOI 0211 GSD2200000007

Dear Ms. Pettrey:

Omni Associates-Architects, Inc. is pleased to submit our Proposal to provide architectural and engineering design services for the WV General Services Division Building 22 Interior Renovations project.

Omni has extensive design experience for interior renovation projects for private commercial offices as well as for Federal State and Local governmental agencies. This experience includes phased renovations and developing plans to renovate building while they remain in operation.

Our team for this project would include **H.F. Lenz Company** who we share a long history of successful project collaboration with.

Omni Associates will serve as the lead firm and coordinator of architectural and engineering services. As Omni's Principal-in-Charge, I will guide this project from programming to construction administration in an efficient and effective manner and serve as the as the point-of-contact.

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

Sincerely,
OMNI ASSOCIATES – ARCHITECTS, INC.

Jason M. Miller, AIA, NCARB
Principal

omni associates - architects, inc.
207 jefferson street • fairmont, wv 26554
V 304.367.1417 • V 855.367.1417 F 304.367.1418

omni411.com

DESIGN TEAM QUALIFICATIONS

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 and experience 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 public safety 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 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 project team goes beyond our in-house staff however. Omni 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.

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.

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.

DESIGN TEAM QUALIFICATIONS cont'd

Omni Associates - Architects 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 your entire project in advance of bidding and work extensively with you to achieve alternates to program goals. Construction documents are prepared and bid to multiple general contractors to achieve competitive pricing. Omni has successfully negotiated with contractors to maintain changes and costs to a minimum and still achieve the initial time schedule.

Omni has also worked on "fast-track" and "multiple-prime" contract projects to achieve an accelerated building construction time schedule. 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

More and more owners and developers are 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 and has contracted with owners and with general contractors to achieve this streamlined method of project de livery for two West Virginia schools as well as numerous private Owners. Additionally, Senior Principal, Richard T. Forren is a member of the West Virginia Design Build Board.

Construction Administration

Omni has worked on projects for only 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.

ORGANIZATIONAL CHART

OMNI architects

PRINCIPAL OWNERSHIP

Richard T. Forren, President

Adam L. Rohaly, Vice President

John I. Rogers, III Member

David A. Stephenson, Sec/Tr

ARCHITECT EMERITUS

Stephen A. Barnum Founding Member | Est 1980

PRINCIPAL ARCHITECTS

Jason M. Miller

David E. Snider

INTERN ARCHITECTS

Jaime Ryan, LEED AP

Joshua Shinn

Sarah Bush

Mariah Falcon

REVIT OPERATORS

Reuben Losh, BIM Manager

Rich Greathouse

Dan Baldwin

Greg Morris

PROJECT SUPPORT

Shelly McLaughlin-Snider, Project Administrator

Eileen Layman, CPA

Colbi Dick, Accounting Manager

Lisa Bombardiere, Administrative Assistant

Katie Nunan, Marketing

Riley Tonkery, FSU Student Intern

TECHNICAL EXPERIENCE

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 de sign 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 Project Manager, Reuben Losh is now an Autodesk Revit Architecture 2011 Certified Associate.

Electronic Submission of Project Documents

Since 2007, Omni has utilized a web-based solution for secure file storage and project team collaboration. The site employs a simple and intuitive interface, similar to social net working sites, that is much easier to navigate than an FTP site. This encourages communi cation among team members while leveraging the security of data encryption and con trolled access.

This tool supports building information model ing (BIM) workflows and can be used through out all phases of a project for such tasks as file storage, RFI and Shop Drawing management, and project milestone track ing. Since these processes are electronic, the time it would take to mail or fax documents is eliminated and project information is central ized. Project information is hosted on secure third-party servers, which means that it is available to team members from wherever they have internet access. The Owner and Architect work together to determine to whom and to what extent site access is given.

PROJECT TEAM

In order to guarantee a constant level of dedication and commitment, it is Omni's philosophy and practice that a Principal remains with the project from commencement to closeout. It is essential that a single individual be intimately involved in every aspect of the process to ensure the client's needs are being met in a timely and cost effect manner *and* that the Contract Documents reflect the intent as well as the content of the design.

Omni Associates - Architects
Jason Miller, AIA, NCARB
Principal in Charge
Mr. Miller has over 18 years of experience as a licensed architect and Project Manager and has been a Principal in Charge of projects for over 10 years. Known as one of Omni's most talented designers and project managers, Mr. Miller has demonstrated his skills successfully on several projects for a Confidential Federal Agency, Dick's Sporting Goods, and the WVARNG Readiness Center in Buckhannon, WV. As the Principal in Charge, his primary responsibility is to guide and coordinate the team in the development the overall concept of design by performing technical tasks which include project space pro-gramming; schematic layout of functional spaces; aesthetic design and development; and concept and coordination of building systems such as mechanical, electrical, plumbing and fire protection.

Omni Associates - Architects
Joshua Shinn
Project Manager
Mr. Shinn joined Omni in 2020 after working for 10 years as a Planner and Construction Manager for West Virginia University. In his brief time at Omni, Mr. Shinn has demonstrated his vast experience as a PM on such projects as the WVU Engineering Sciences G85 Lab project, the Pierpont Community and Technical College's Facilities Master Plan and the renovation of the campus data center for the Community College of Allegheny County. Mr. Shinn's previous work at WVU included work on projects such as Eiesland Hall, Chitwood Hall,and White Hall.

CONSULTANTS

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 has specifically chosen **H.F. Lenz Company to provide MEP, and Structural Engineering services** for this project. Omni and Lenz share a long history of successful project collaboration.

H.F. Lenz Company
Steven J. Gridley
Principal in Charge of MEP/FP System Engineering

Mr. Gridley is responsible for the master planning and design of college and university facilities, health care facilities, industrial facilities, data operations centers, commercial office buildings, utility systems, and renovation/retrofit of historic buildings for private, public, and governmental agencies. With over 40 years of experience in Mechanical Engineering and over 32 years of experience in Project Management, Mr. Gridley will oversee the project design and provide QA/QC for our project team. He has a long resume of successful project experience and a strong personal commitment to remaining directly involved with his projects and his clients to foster long-term working relationships

H.F. Lenz Company
John M. Weiland, P.E., CEM, LEED AP
Project Engineer

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

PROJECT TEAM cont'd

H. F. Lenz Company
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 educational, institutional, industrial, health care, and commercial facilities.

H.F. Lenz Company
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 experienced in the design of wet, dry, preaction, FM200, and deluge fire protection systems.

H. F. Lenz Company
David A. Blackner, P.E.
Principal/Structural Engineer
Mr. Blackner is responsible for the complete layout, design and detailing of building structural systems. He has diverse experience in the structural analysis and design of projects involving steel, engineered masonry, reinforced cast-in-place concrete, pre-cast/pre-stressed concrete and wood frame structures. He is proficient in multiple analysis platforms
(STAAD, RAM Structural Systems, 3-D Analysis and Finite Elements). He also oversees structural coordination with other trades, as well as conducting periodic site visits related to the structural work.

JASON M. MILLER, AIA, NCARB

EDUCATION
Master of Architecture: Virginia Polytechnic Institute, 2004

REGISTRATION / PROFESSIONAL AFFILIATIONS
American Institute of Architects, Member
American Institute of Architects—West Virginia, Member
Accredited Learning Environment Planner (ALEP)
U.S. Green Building Council, Firm Membership Associated Builders and Contractors, Firm Membership Registered in West Virginia
West Virginia Board of Architects License #[redacted]
State of Pennsylvania License #[redacted]

GENERAL EXPERIENCE
Known as one of Omni's most talented and creative designers through his use of varied material selection and application. Jason has the unique ability to visualize a structure early in the design process and blend the design to the surrounding environment. Jason joined Omni Associates in 2007 and became a Principal Architect in 2015.

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.

SELECT PROJECT EXPERIENCE
Dick's Sporting Goods, Corporate Daycare Center, Coraopolis, PA:
Principal Architect – Provided conceptual and schematic design for a 15,000 SF shell building on an existing corporate campus for a new employee daycare center. Prepared construction documents and provided construction administrations services. Provided schematic programming to coincide with the eventual interior fit-out.

West Virginia University: Blanchette Rockefeller Neurosciences Institute, Morgantown, WV
Interior fit-out of 11,000 SF of unfinished office and laboratory space.

Mylan Pharmaceuticals: Research and Development Center, Morgantown, WV
Assisted the Principal Architect with design documents for the 153,000 SF facility housing laboratories, production rooms and offices.

WV Army Reserve National Guard, Buckhannon Readiness Center, Buckhannon, WV:
Project Architect – Assisted the Principal Architect in the developing building programming and conceptual design for the 37,000 SF facility. Developed construction and bidding documents and performed construction administration services.

United States General Services Administration, Charleston GSA Building, Charleston, WV: Project Architect – Assisted the Principal Architect in the developing building programming and conceptual design for the 20,000 SF federal facility. Developed construction and bidding documents and performed construction administration services.

JOSHUA R. SHINN, NCARB

EDUCATION

Master of Architecture: University of Tennessee, 2007

B.A. Art History: West Virginia University, 2000

RELEVANT EXPERIENCE

Omni Associates – Architects: 2020-Present
Project Manager

WVU Engineering Sciences Building Lab G85
Renovation of Fabrication and Design Lab
With H.F. Lenz
Morgantown WV

Pierpont Community and Technical College Master Plan
Multi-campus, multi-building assessment and planning
Fairmont, WV

Community College of Allegheny County
Renovation of Central Campus Data Center
With H.F. Lenz
Pittsburgh, PA

West Virginia University – Planning, Design, Construction, and Scheduling: 2010-2020
Planner and Construction Project Manager

- Worked closely with individual College administrations and FM to provide overall management and administration of projects from Schematic Design through end of construction. Provided oversight of construction to assure spaces were constructed per the Colleges requirements and budgets.

WVU Engineering Sciences Building Lab G86
Renovation of Advanced Prototyping Lab
With H.F. Lenz
Morgantown WV

WVU Martin Hall Incubator Lab
College of Media
Multipurpose Audio Visual and Classroom Space, Offices
Morgantown, WV

Oglebay Hall Forensics Lab and Classroom Renovation
New Ground Floor Forensic Lab and Renovation of Computer Classroom
Grant Funded
Morgantown, WV

WVU Eiesland Hall IEP Classroom Renovation and HVAC Replacement
With H.F. Lenz and Omni Associates – Architects
New Third/Fourth Floor Classrooms and replacement of the HVAC system
Morgantown, WV

Numerous other lab, office, and classroom projects for the Eberly College in buildings including Woodburn Hall, Chitwood Hall, Brooks Hall, Armstrong Hall, Hodges Hall, Life Sciences Building, Chemistry Research Lab, Oglebay Hall, Stansbury Hall, and Eiesland Hall.

EDUCATION
Bachelor of Science, Architectural Engineering, 1979, Pennsylvania State University

EXPERIENCE
H.F. Lenz Company 1979-Present

PROFESSIONAL REGISTRATION / CERTIFICATION
Licensed Professional Engineer in all 50 States and the District of Columbia

PROFESSIONAL AFFILIATIONS
First Place, 1987 ASHRAE International Energy Award • National Society of Professional Engineers • Pennsylvania Society of Professional Engineers • American Society of Heating, Refrigerating and Air-Conditioning Engineers • International Code Council • Professional Engineers in Private Practice • National Fire Protection Association

Steven J. Gridley, P.E.
Principal-in-Charge of MEP/FP System Engineering

Mr. Gridley is responsible for the master planning and design of college and university facilities, health care facilities, industrial facilities, data operations centers, commercial office buildings, utility systems, and renovation/retrofit of historic buildings for private, public, and governmental agencies. With over 40 years of experience in Mechanical Engineering and over 32 years of experience in Project Management, Mr. Gridley will oversee the project design and provide QA/QC for our project team. He has a long resume of successful project experience and a strong personal commitment to remaining directly involved with his projects and his clients to foster long-term working relationships

PROJECT EXPERIENCE

West Virginia University – Morgantown, West Virginia

- PIC for over 100 projects in the past 25 years
- Robert C. Byrd Health Sciences Center Engineering Evaluation, master plan and renovations
- Ag Science Building addition and renovation
- New Forestry Greenhouse
- White Hall, phased renovation of the 95,000 sq.ft. Physics Lab Building

University of Pittsburgh - Pittsburgh, Pennsylvania

- Phased renovation of Benedum Hall, Swanson School of Engineering building and new 42,000 sq.ft. Mascaro Center for Sustainable Innovation addition - LEED Gold
- Life Sciences Complex – renovations to various buildings and building systems for the 200,000 sq.ft. complex
- Grad School of Public Health - Master plan and renovations to the 173,600 sq.ft. Parran Hall and 63,900 sq.ft. Crabtree Hall buildings

Duquesne University - Pittsburgh, Pennsylvania

- New 80,000 sq.ft. College of Osteopathic Medicine Building and Gumberg Library Renovation - Current Project

Yale University and Yale School of Medicine - New Haven, Connecticut

- Multiple laboratory renovation projects under several consecutive term contracts

CDC/NIOSH - Morgantown, West Virginia and Pittsburgh, Pennsylvania

- Multiple laboratory renovation projects and infrastructure studies and upgrades under consecutive term contracts

RESUME

Education
Bachelor of Architectural Engineering, 2002, Pennsylvania State University

Experience
H.F. Lenz Company 2002-Present

Professional Registration / Certification
Licensed Professional Engineer in Pennsylvania • Certified Energy Manager • LEED Accredited Professional

Professional Affiliations
ASHRAE – Johnstown, PA Chapter

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

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

Project Experience

PA State Police - Greensburg, Pennsylvania

- New 50,000 sq.ft. DNA Lab Building that houses DNA Lab space, Lab Offices, Administration Offices, Evidence Storage and Evidence Control

West Virginia University - Morgantown, West Virginia

- Ag Science Building addition and renovation
- New Forestry Greenhouse
- White Hall, phased renovation of the 95,000 sq.ft. Physics Lab Building

St. Vincent College - Latrobe, Pennsylvania

- Feasibility Study and Design services for the renovation and addition to the Science Complex - LEED Gold

Yale University - New Haven, Connecticut

- Greeley Memorial Laboratory: renovation of 4,487 sq.ft. North Lab and 2,015 sq.ft. Green Chemistry Lab
- Wright Nuclear Structures Laboratory
- Dunham Psychiatry Laboratory Renovation
- Yale Commons Telecom HVAC Upgrade: Upgrade and consolidate six HVAC systems serving the telecom switch room into two new fully redundant HVAC systems

University of Pittsburgh at Johnstown - Johnstown, Pennsylvania

- Renovation of the 66,000 sq.ft. Engineering & Science Building and a new 7,000 sq.ft. addition

University of Pittsburgh - Pittsburgh, Pennsylvania

- Renovation of Benedum Hall, 400,000 sq.ft. lab building- LEED Gold
- New 42,000 sq.ft. Mascaro Center for Sustainable Innovation building housing wet and dry lab - LEED Gold
- Life Sciences Complex – renovations to various buildings and building systems for the 200,000 sq.ft. complex

CDC/NIOSH - Morgantown, West Virginia and Pittsburgh, Pennsylvania

- Multiple laboratory renovation projects and infrastructure studies and upgrades under consecutive term contracts

RESUME

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 West Virginia, 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, and DC

Professional Affiliations

Institute of Electrical and Electronics Engineers, Inc.

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 educational, institutional, industrial, health care, and commercial facilities. His responsibilities also include the writing of specifications; design of 5 KV and 12 KV underground electrical distribution systems; checking of plans and specifications for quality control; project management, building studies and evaluations, and commissioning.

Project Experience

U.S. General Services Administration – GSA Region 3

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

DOE/NETL - Morgantown, West Virginia, Pittsburgh, Pennsylvania and Albany, Oregon

- Multiple consecutive term contracts for projects on three campuses involving renovations, studies and infrastructure upgrades - over 100 projects awarded to date

U.S. Drug Enforcement Administration (DEA) - Pittsburgh, Pennsylvania

- New 50,000 sq.ft. office building; LEED Certified

Pennsylvania State Police - Greensburg, Pennsylvania

- New 31,000 sq.ft. State Police facility

Fifth Third Center Office Building - Charleston, West Virginia

- New 66,000 sq.ft. Design-Build multi-tenant office building and two-level parking deck; the project followed a design, GMP, build process, and was delivered on time and budget

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

Pennsylvania State Police - Greensburg, Pennsylvania

- New DNA Laboratory
- New 31,000 sq.ft. Headquarters

New Bolton Center (NBC) Feasibility Study - Chester County, Pennsylvania

- Feasibility study for a 55,000 sq.ft., $52 M facility which will provide diagnostic, forensic, and research support services to the PA Dept of Agriculture through the PA Animal Diagnostic Laboratory System (PADLS) and the PA Equine Toxicology and Research Laboratory (PETRL)

DOE/NETL - Morgantown, West VirginiaPittsburgh, Pennsylvania, Albany, Oregon

- Multiple laboratory renovation projects and infrastructure studies and upgrades under consecutive term contracts

U.S. Drug Enforcement Agency - Pittsburgh, Pennsylvania

- New 50,000 sq.ft. office building and parking garage – LEED Certified

The Pennsylvania State University - University Park, Pennsylvania

- College of Agricultural Sciences - Multiple renovations, infrastructure upgrades, laboratory spaces and greenhouse projects
- New 132,000 sq.ft. Erikson Food Science Building
- Swine Research facility renovations
- NARCO Building – Steady Thermal Aero Research Turbine (START) Lab
- Nano Tech Modular Clean Room Lab

RESUME

David A. Blackner, P.E.

Principal/Structural Engineer

Mr. Blackner is responsible for the complete layout, design and detailing of building structural systems. He has diverse experience in the structural analysis and design of projects involving steel, engineered masonry, reinforced cast-in-place concrete, pre-cast/pre-stressed concrete and wood frame structures. He is proficient in multiple analysis platforms (STAAD, RAM Structural Systems, 3-D Analysis and Finite Elements). He also oversees structural coordination with other trades, as well as conducting periodic site visits related to the structural work.

Education

Associate, Mechanical Engineering Technology, 1988, Pennsylvania State University

Associate, Architectural Engineering Technology, 1988, Pennsylvania State University

Experience

H.F. Lenz Company 1998-Present • L. Robert Kimball & Associates 1995-1998 • George D. Zamias Developer 1989-1995

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania, Arizona, Colorado, Connecticut, Delaware, Georgia, Maine, Maryland, Massachusetts, New York, and North Carolina

Memberships

Member of American Institute of Steel Construction (AISC), Member of American Concrete Institute (ACI), Member of American Society of Civil Engineers (ASCE), The Engineer's Society of Western Pennsylvania (ESWP), Pennsylvania Society of Professional Engineers - Johnstown, Chapter, Engineer of the Year Award 2005

Project Experience

Sigma-Aldrich Corporation - Bellefonte, Pennsylvania

› Structural design to support a complete roof-mounted lab exhaust system upgrade; the design extended building columns through the roof to accommodate structural steel framing to support mechanical equipment, elevated walkways, and maintenance/testing platforms

Mylan Pharmaceuticals - Morgantown, West Virginia

› Multiple projects involving design of laboratories, clean rooms, warehouses, offices and storage space

Carnegie Mellon University - Pittsburgh, Pennsylvania

› Mellon Institute Building - various renovations throughout the 350,000 sq.ft. structure that houses research laboratories for the Biology and Chemistry Departments

Penn State University - University Park, Pennsylvania

› New 132,000 sq.ft. Food Science Building containing a dairy manufacturing facility, research and teaching laboratories, classrooms, and academic offices

Slippery Rock University New Science Building - Slippery Rock, PA

› New three-story building utilizing composite concrete slabs on metal deck, steel beams and columns, k-joists and long span joists. The façade consists of masonry walls and curtain walls

University of Pittsburgh at Johnstown - Johnstown, Pennsylvania

› Engineering and Science Building renovations and addition

Repurposing of Former Sony Plant - Mount Pleasant, Pennsylvania

› Structural design services for master planning and renovations of this 2.8 million sq.ft. former manufacturing plant into tenant space for industrial tenants

RESUME

PROJECT APPROACH

At Omni, we have incorporated a rigorous design approach to projects that allow us to identify the unique attributes needed for each circumstance that projects contain so that a cohesive design can be achieved. Problematic issues such as operations, ADA accessibility and department identity can be resolved with the right approach. As WV State agencies we recognize that your stewardship of cost is of utmost importance, we anticipate working closely with our cost estimators throughout the process to establish necessary baseline costs and contingencies that take into account product availability and inflation. We are at a time where creative approaches and alternate back-up material selections can prove necessary and are not uncommon.

Goal Objective #1

Omni anticipates engaging with the Owner and End Users to help us better understand what is anticipated for the new offices, conference rooms and interior finishes. This will allow Omni to develop solid programming to be used for space planning purposes and interior finishes selection to be approved by the Owner. As it relates to the restroom renovation aspect of this project Omni has extensive experience in renovating and updating commercial restroom facilities within multi-story occupied buildings, in conjunction with HF Lenz. This can be done in phases to allow for continued use of restroom facilities while renovating one stack at a time if feasible. This lessens the impact on the overall plumbing system.

For the entirety of the project Omni will engage the Owner and keep an open dialogue with our interior designers as this type of project is sensitive to the overall look and feel of the effected spaces.

Project Examples:

- Federal Government Building - Complete Restroom Renovation for three floors of a 500,000 SF facility. Each vertical bank of restrooms was renovated strategically in order to ensure continued use of other restrooms in the facility. Renovated the vertical stack of restrooms together was more economical.
- Federal Government Building – Extensive renovation of the interior of this same 500,000 SF facility to include a new relocated server, office space, conference rooms, training rooms, lobby and entrance.
- Multiple renovation projects with West Virginia University to include office space, classrooms, lab space, etc. The recently completed Engineering Sciences Building G85 lab also contains a mezzanine area that needed evaluated an updated for storage. This was done by looking at the structural integrity along with the analyzing what was to be stored in this space. Stairs were added in a different location, proper guard rails and half walls were installed as well as relocating some structural columns and rebuilding the floor structure to provide non-combustible construction and deliver increased storage capacity.

Goal Objective #2

In today's buildings which consume large amounts of energy it is paramount to bring lighting fixtures into the more efficient realm of LED fixtures. Omni and HF Lenz will work hand in hand with the Owner to identify quality lighting fixtures to meet the demand of the space and its users.

This is somewhat common in renovation projects today. We have undertaken many projects where this was a critical component of the project.
Project Examples:

- Federal Government Building – Restroom renovation for all three floors which included multiple banks of restrooms. Lighting was updated to LED but also rethought of from a lighting design aspect to include indirect lighting of larger surfaces and lavatory/sink lighting as well as your typical ceiling fixtures.

PROJECT APPROACH cont'd

Goal Objective #3
Omni will evaluate existing windows throughout the building to examine the best retrofit scenario. This will include looking at the design of the window and sills to provide a solution to preclude water intrusion and allow the most efficient option. Thermal expansion over years can reduce the efficacy of the seals of fixed windows. This can be due to improper installation or inferior sealant products being used as originally specified. In some cases sealants might not be specified at all so the installer makes a selection. This will be looked at with consideration given to current sealant technology and installation procedures.

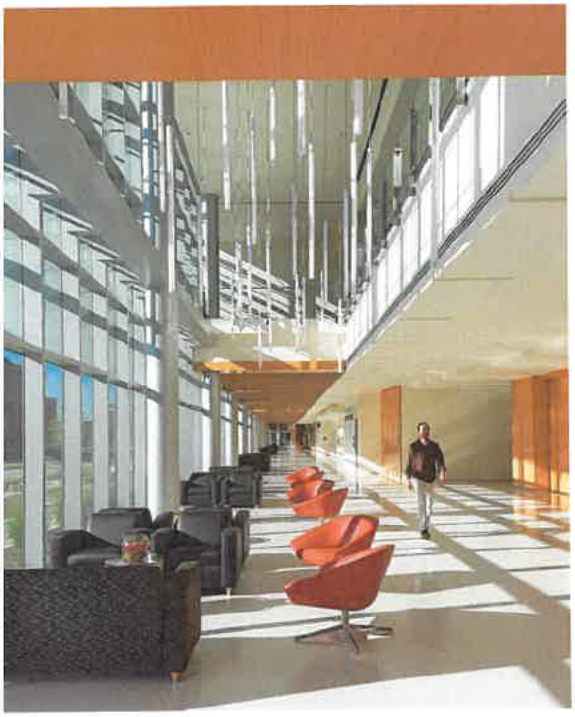
Goal Objective #4
Omni and HF Lenz will be providing a thorough evaluation of the existing fire alarm and fire suppression system as it related to bringing the system up to date with the current WV State Fire Marshal's requirements of adhering to the 2018 NFPA 101 Life Safety Code.

Examples:

- East Dale Elementary School expansion and renovation utilizes an existing fire alarm and sprinkler system that is being expanded upon to include a new wing. The existing control panel and various system components are being relocated and updated per the latest NFPA code.

Goal Objective #5
Omni and HF Lenz has worked together on many projects that require that the owner/tenant occupy the building while renovations are ongoing. It will be best for the Architects and Engineers conduct a meeting to discuss the logistics of the renovation and how this will dovetail into the occupant use of the spaces. Some types of interior renovations will be easier than others and perhaps efficient use of entire floor scenarios can be incorporated so that phases can be established and keep the project in timeline.

- Federal Government Building - Renovation of two floors of a 500,000 SF facility to accommodate new repurposed spaces while maintaining uninterrupted use of space for approximately 3,500 employees. Work was phased in order to provide services to the employees and continued use of space within the existing building.



Lighting Design

Specialized Lighting Design

H.F. Lenz Company has extensive experience in the design of specialized lighting for museum exhibits, art galleries, and other special collections. The objective is to achieve lighting that creates an environment that protects the collection while providing for the enjoyment of the viewer. For example, the light required to view a work of art inherently damages the art. Care must be taken in the selection of lamps and filters. By controlling both the illumination levels and exposure time to light, the detrimental effects of lighting can be minimized.

Additional considerations must be given to flexible design to accommodate display modifications, central controls, dimming, security lighting, energy usage, lamp life and emergency lighting.

H.F. Lenz Company has in-house computer modeling that generates 3D color images of architectural spaces to both visually and technically analyze proposed lighting concepts.

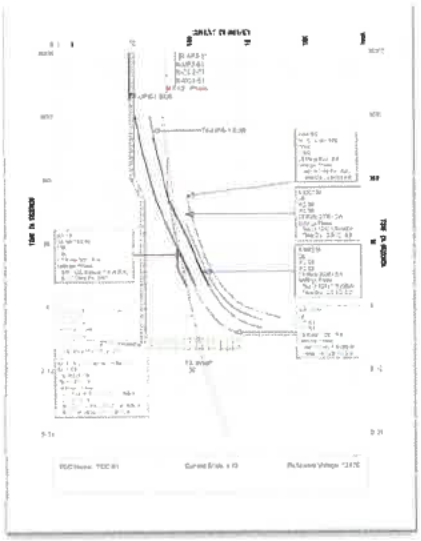
Lighting Retrofits

Lighting retrofits, including total building lighting retrofits, are often undertaken as part of an energy conservation program or when inefficient lighting sources are present. H.F. Lenz Company has extensive experience in lighting retrofits including retrofitting the 1.2 million sq.ft. Social Security Operations Building at Woodlawn, Maryland. For this project we are using indirect fluorescent fixtures that use a perforated housing to create a more uniform lighting appearance at the ceiling plane. This indirect lighting also reduces glare.

With open office areas we provide an ambient lighting level from the overhead fixtures throughout the space. Task lighting at each workstation is provided to increase lighting levels as required. In all projects, we specify the most energy efficient lamp and ballast combinations. For further energy savings we design daylighting systems that incorporate sensors that detect the level of daylighting and automatically adjust the fluorescent light dimming system to achieve optimal conditions.

Exterior Lighting Design

The H.F. Lenz Company designs exterior lighting systems for roadways, parking areas, pedestrian walkways, athletic fields, building security, and building facades. We utilize Visual Professional lighting analysis software to quickly and accurately predict the performance of our lighting designs. With this software, we can produce iso-contour plots that illustrate illuminance values and gray scale shaded plots that provide aerial views of site lighting at night.



Coordination, Short Circuit, and Arc Flash Studies

To provide a properly functioning and fully designed system, each device in the system must be coordinated with the upstream and downstream devices to ensure that when a fault or overcurrent situation arises, the least amount of circuit interrupters are opened to isolate the problem. This limits the number of buildings and personnel that are affected by the problem and keeps as much of the system in operation as possible. In order to accomplish this, we perform a detailed coordination study of the entire distribution system and provide the relay settings that are best suited to provide a fully coordinated and protected system. Additionally, an arc flash report is also prepared in-house that will be used to develop the hazard level at each piece of equipment. This not only protects the workers who have to access this equipment when it is energized, but also protects the equipment from damage when a situation arises.

LED Lighting Design

We have designed the lighting systems for new buildings as well as the retrofit of existing buildings when inefficient lighting sources are present. Today, LED lighting has become more mainstream in fixtures due to the changing energy codes that are continually reducing the watts per square foot requirements. This applies to both indoor and outdoor lighting. In situations when dimming is needed for daylighting or in other areas, LED lighting has become the preferred solution—both technically and economically. H.F. Lenz Company has designed the lighting for whole buildings, including the site lighting, using LED lighting systems.

OMNI
ARCHITECTS

WV GENERAL SERVICES ADMINISTRATION

State Office Complex— Fairmont

SERVICES PROVIDED
Architectural Design

DELIVERY METHOD
Design-Bid-Build

PROJECT SIZE
70,000 SF

PROJECT COST
$ 17.6 million

YEAR COMPLETED
2017

Omni Associates—Architects was selected by the West Virginia General Services Division to provide all architectural and engineering services for a new state office building located in downtown Fairmont.

It was important that the new building fit within the context of the down-town area's historical buildings while reflecting an era of progress and new growth. To that end, the building's exterior features traditional brick and cast stone masonry integrated with insulated formed metal panels and an aluminum curtainwall.

The building will be occupied by eight state agencies and include offices for the Secretary of State. Programming services included interviews of the individual agencies to determine the specific requirements of each. Interior fit-outs include a variety of user-specific spaces including training rooms, interview rooms, waiting areas, individual offices, large open offices, break rooms, and kitchenettes.

Omni also provided all necessary surveying of the site, and all existing infrastructure systems and material to determine appropriateness for construction. Pre-construction services also included the verification, coordination, and documentation of extensions, tie-ins, and relocations of all utilities as well as an extensive demolition package released prior to the new construction package.

In addition to compliance with all applicable local, State, and Federal regulations as well as ADA requirements, the Owner requested that the building be designed with the goal of achieving LEED™ Silver certification. Current calculations suggest the project could achieve LEED Gold.

OMNI ARCHITECTS

MON POWER

Regional Headquarters

DELIVERY METHOD
Design-Build

PROJECT SIZE
148,000 SF

PROJECT COST
$35 million

YEAR COMPLETED
2010

AWARDS | RECOGNITIONS
2012 AIA West Virginia Merit Award for Achievement in Design

Prior to its merger with First Energy, Allegheny Energy selected Omni Associates – Architects via a competitive selection process to provide all Architectural and Engineering services for its new transmission operations headquarters in Fairmont, West Virginia.

Now the Mon Power Regional Headquarters, the environmentally friendly facility serves as the center for multi-state energy transmission functions, including around-the-clock management of the electric grid. The building houses the Transmission Operations Control Center, a Data Center, Class A commercial office space, and all associated electrical, mechanical, and support facilities. The Transmission Operations Control Center and Data Center was constructed to meet a site infrastructure performance rating of Tier III. The new construction project is LEED® (Leadership in Energy and Environmental Design) Certified.

Services provided by Omni include site selection assistance and development services, architectural design services, civil, structural, mechanical, and electrical engineering services, bid document development, construction contract administration services, and post contract administrative services.

OMNI
ARCHITECTS

SHAFT DRILLERS

International Headquarters— Mt. Morris, PA

SERVICES PROVIDED
Architectural Design

DELIVERY METHOD
Design-Build

PROJECT SIZE
40,000 SF

PROJECT COST
$6 million

YEAR COMPLETED
2011

Shaft Drillers International Headquarters in Mt. Morris, Pennsylvania is a new four-story, Class A corporate headquarter facility. The 40,000 sf structure was designed to achieve a comfortable and efficient work environment. The Owner's request for a more traditional aesthetic was met with a classic masonry and stone exterior paired with sophisticated interiors featuring raised wood paneling, wood coffered ceilings and marble flooring. The facility includes over 70 private offices, serviceable balconies on each floor, a central lunch room, a fitness center with locker rooms and showers, and other amenities to support and complement the demanding work schedules of SDI's employees and corporate officers.

Omni and SDI were recognized along with CEC – Civil & Environmental Consultants, Inc. as the winner of the West Virginia Chapter of Associated Builders and Contractors 2011 Excellence in Construction Awards in the "Other Specialty Construction Less than $1 Million" category for the structural steel supporting the building.

OMNI ARCHITECTS

BUCKHANNON READINESS CENTER

West Virginia Army National Guard

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. It includes office space, a classroom, storage, sleeping rooms, fitness room, and locker rooms.

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.

SERVICES PROVIDED
Architectural Design

DELIVERY METHOD
Design-Bid-Build

PROJECT SIZE
37,000 SF

PROJECT COST
$13.2 million

YEAR COMPLETED
2017

OMNI ARCHITECTS

FAIRMONT READINESS CENTER

West Virginia Army National Guard

SERVICES PROVIDED
Architectural Design

DELIVERY METHOD
Design-Bid-Build

PROJECT SIZE
91,500 SF

PROJECT COST
$25 million

YEAR COMPLETED
2015

The specially designed AFRC is permanent masonry type construction with standing seam roof, concrete floors, and mechanical and electrical equipment 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.

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Lancaster Office
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Suite 203
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Phone: 717-461-3916

Ohio Office
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Conneaut, OH 44030
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Connecticut Office
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Middletown, CT 06457
Phone: 860-316-2124

H.F. Lenz Company Firm Profile

Currently in its 76th year, the H.F. Lenz Company (HFL) offers a full range of engineering services for building systems, infrastructure, and industry. Our projects span the nation, with the heaviest concentration in the Northeast, and exceed $530 million in MEP construction annually. Our 44 professional engineers are registered in a total of all 50 states and DC. The H.F. Lenz Company presently employs 160+ people between our headquarters in Johnstown, Pennsylvania, and our satellite offices in Pittsburgh and Lancaster, Pennsylvania, Conneaut, Ohio and Middletown, Connecticut.

Our services include:

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

LEED and Sustainable Design

We have been a member of the United States Green Building Council since 2000 and currently have 18 LEED™ Accredited Professionals on staff. Our firm has gained a high level of knowledge in the building green process and we possess the experience to successfully apply these principles to all building projects, whether they are designed to attain LEED™ Certification or not. We have provided services for 120+ projects that have attained various levels of LEED™ Certification, in total over 16 million sq.ft. of facilities.

Experience in West Virginia

H.F. Lenz Company has a long history of project experience in West Virginia, including projects such as:

- State Capitol Building Chiller Upgrades
- New Clarksburg State Office Building
- New GSA/FBI Building in Charleston
- Tenant Fit-Up for USDA Facility in Morgantown
- GSA Federal Building Renovations in Martinsburg, Wheeling, Huntington, Bluefield and Building Evaluation Reports for Parkersburg and Morgantown Buildings
- New Robert C. Byrd Courthouse in Charleston
- Over 25 years of consistent projects for WVU - both direct and as a consultant
- Multiple projects for Mylan Pharmaceuticals
- Multiple DOE NETL projects at the Morgantown campus
- New Mylan Park Aquatic Center
- New City of Bridgeport Recreational Facility

State of West Virginia

Clarksburg, West Virginia

CLARKSBURG STATE OFFICE BUILDING

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

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

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

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

The project was designed to achieve LEED Silver Certification.

State agencies began moving into the new building in 2016.

Meeting the Project Goals

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

The $20 million project was completed in 2016.

ROJECT REFERENCE

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ate of West Virginia
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RELEVANT EXPERIENCE

Social Security Administration

Woodlawn, Maryland

Robert M. Ball Federal Building Renovation and Retrofit

The Robert M. Ball Federal Building (formerly the Woodlawn Operations Building) is a 1.2 million square foot structure in 3 ½ stories, which was constructed in 1959 to house the computer operations of the SSA. The Building is the largest structure on the 22-building campus.

H.F. Lenz Company provided the mechanical, electrical, plumbing/fire protection and telecommunications engineering and the structural engineering to support the building system upgrades for the renovation and retrofit of the facility.

Electrical. In addition to the replacement of the entire electrical distribution system, the electrical scope of work included new lighting and power distribution for all office spaces. Key electrical aspects include: replacement of main switchgear and existing load centers; new distribution system; digital metering system monitored by a central PC; new generator; and complete life safety and emergency electrical system distribution.

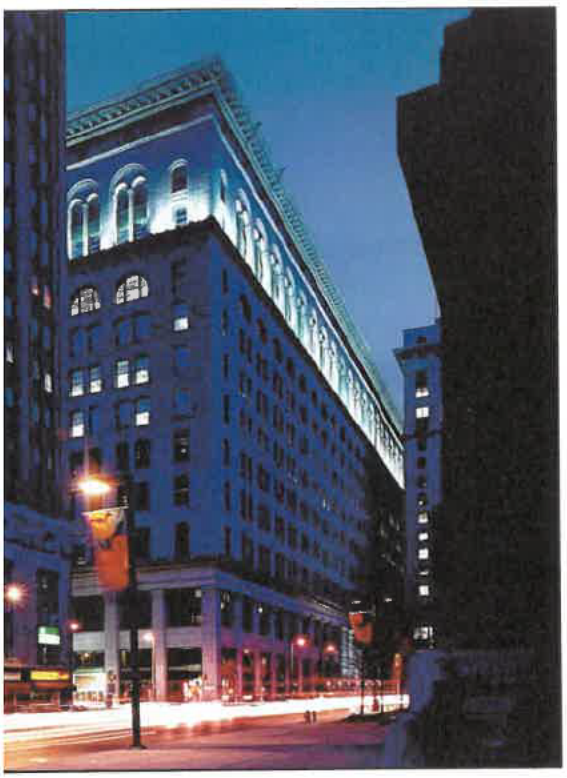
Mechanical. The existing HVAC system consisted of 23 separate AHUs that were dispersed throughout the building and used a low-pressure air distribution system. The new system consists of six central station AHUs utilizing medium-pressure distribution. By strategically placing the reduced number of units in a central location, additional floor space was gained for tenant use. Units were custom designed to provide both redundancy and meet the indoor air quality requirements of ASHRAE Standard 62. A new DDC Energy Management Control System involving over 13,000 monitoring points was installed.

Telecommunications. Voice, data, and video cabling systems capable of evolving with the technologies of tomorrow was designed. The cabling systems are distributed through cable tunnels and under raised access floors. The data cable system design is for centralized network electronics and fiber to the desk.

Construction phasing was necessary to allow for the facility to remain occupied during construction. The project also included energy conservation measure upgrades and compliance with current codes and standards. Project is LEED Certified.

Meeting the Project Goals

The overall goal of the project was to provide the Social Security Administration with a facility that will meet tenant needs and support the agency as it advances into the future. To achieve this, the Project Team planned and designed a modern office facility characterized by modern workstations, state-of-the-art lighting, improved heating, ventilation, and air conditioning (HVAC) and a communications system capable of evolving with the technologies of tomorrow.



The Wannamaker Building (General Services Administration)

Philadelphia, Pennsylvania

Tenant Fit-Up of Historic Building

The Wanamaker Building is a 1.8 million sq.ft., high-rise Registered Historic Landmark built in 1911. The H.F. Lenz Company provided base building mechanical, electrical, and plumbing/fire protection engineering services for the adaptive reuse of the upper seven floors (865,000 sq.ft.) to Class-A office space from retail and light industrial usage. Complete replacement of the base building systems was required due to system age and inefficiency and requirements to meet new building codes. Under subsequent projects, we provided tenant fit-up design services for a variety of tenants, converted three underground levels into a parking garage, and converted two additional floors from retail to office space.

In addition, we subsequently were retained to provide the engineering services for the tenant fit-up of the for the General Services Administration space. The fit-up was completed under a turnkey-type contract with the landlord. The H.F. Lenz Company worked under an extremely aggressive schedule to enable the GSA and another tenant to move in 120 days from the signing of the leases. Design was completed within 30 days and the design package was issued in phases as developed to allow construction to start immediately. The 128,000 sq.ft. of renovated space over three floors consists of administrative offices, conference areas, computer areas, and open office space.

Key features of the project included:

- Computer-based, multiplexed, fully addressable system meeting high-rise criteria of high-bay office lobby, four-story atrium, six office floors (6 - 12) for fire protection, engineered smoke control system, and fire alarm system
- Computer modeling of the building to ensure that adequate cooling capacity was provided to accommodate the tenant's high density population and extensive use of personal computers
- Indirect lighting was designed for open-space computer areas
- A high percentage of outdoor air is provided to ensure adequate indoor air quality
- Two computer rooms including underfloor water detection systems and self-contained Liebert cooling units
- An underfloor raceway system for distribution of power, data, and telephone cables
- 480V main electrical service to the tenants UPS system and electrical distribution system

AWARDS:

- National Preservation Honor Award, National Trust for Historic Preservation
- Reconstruction Award, Building Design and Construction magazine
- Modernization Award, Buildings magazine

PROJECT REFERENCE

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U.S. Department of Agriculture

Morgantown, West Virginia

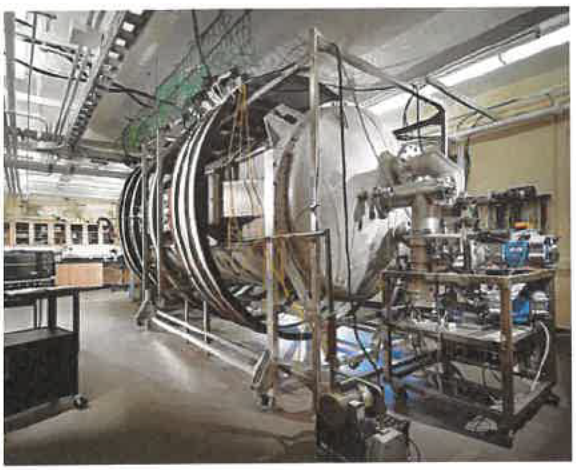
Base Building and Tenant Fit-up of Office Building

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

The project included:

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

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



West Virginia University

Morgantown, West Virginia

Phased Renovation and Life Safety Upgrades to White Hall

The H.F. Lenz Company provided mechanical, electrical, plumbing and fire protection engineering services for the phased renovation and life safety upgrades to the 95,500 sq.ft. White Hall. The building, which was originally constructed in 1942 as a high-rise, will house classrooms, laboratories, offices and a 175 seat auditorium. The goal of the first phase of the project was to complete the interior demolition work while the second phase was to fitout the shell to match the requirements of the users.

The building is mainly used by the Physics Department for research and instruction. With the researchers' expanding use of lasers, and the technologies associated with them, the need to design the project with low vibration creating equipment and high power capacity was a top priority. Flexibility for the laboratories was also a request of the university. Due to the constantly changing research and researchers, they needed to be able to quickly adapt to these changes. Therefore, each lab was fitted with a 400A-3 phase-208V panelboard and surface mounted raceway around the perimeter of the room that allows for receptacles to be placed wherever they may be required in the future. Electrical busway with capacity for future taps were provided vertically through the building and taps provided at the electrical closets on each floor for additional panelboards to be added in the future.

The design included **a new addressable, voice evacuation, fire alarm system** and 600 kw emergency/standby generator to provide power to the life safety equipment in the building as well as power to the researchers.

Meeting the Project Goals

The University wanted the ability to easily add laboratory space in the future without a major disruption to daily building operations. This was addressed by designing two classrooms with flexible HVAC and electrical systems that will allow conversion to laboratory space. The other classrooms were configured in a manner that will allow them to be used as teaching laboratories when required.

The $20 million project was completed in 2013.

University of Pittsburgh

Pittsburgh, Pennsylvania

Extension of Sprinkler System

H.F. Lenz Company provided fire protection engineering services for a new sprinkler system to serve approximately 325,000 square feet of area on 28 different floors of the Cathedral of Learning building.

The Cathedral of Learning, a historic landmark, is the second-tallest education building in the world, 42 stories and 535 feet tall. It is also the geographic and traditional heart of the campus. In addition to the magnificent three-story "Commons Room" at ground level, the Cathedral of Learning also contains classrooms (including the internationally renowned Nationality Classrooms), the University's administrative offices, libraries, a computer center, a restaurant, and offices and classrooms for many liberal arts departments.

Providing a concealed sprinkler system in architecturally and historically sensitive areas of the building included many challenges. Many areas also contained asbestos, which required coordination for abatement during sprinkler installation.

Construction was performed during the third shift in a fully occupied building. The following is a breakdown of the estimated construction completion dates and costs:

Phase 2	Summer 2007	$ 850,000
Phase 3	Summer 2008	$ 1,000,000
Phase 4	Summer 2010	$ 1,000,000

Subsequently, we were retained to provide the engineering services for classroom renovation in the basement of the building, which included upgrading the existing lighting with LED lighting. That project was completed in 2020.

U.S. General Services Administration

GSA *Region 3 IDC*
Current IDIQ Contract for repair and alteration work in federal facilities in the North Service Center. Projects awarded under the contract included:

- Federal Highway Administration Harrisburg Office Renovation
- Social Security Administration Childcare Center Renovation
- Bryne Chambers Consolidation
- Mid-Atlantic Social Security Center Armory Renovation
- Pittsburgh US Courthouse Vacant Space Backfill Study
- US Custom House Feasibility Study

GSA *Nationwide IDC*
Recently Completed IDIQ Contract for projects nationwide. Projects awarded include:

- A planning study for the new 147,000 sq.ft. U.S. Court of Appeals for Veterans Claims courthouse, designed to exceed LEED Silver (completed 2010)
- Study for the adaptive reuse of existing space in the Bryne Green Nix Federal Buildings (completed 2010)
- Study of existing buildings and possible additions – Anniston, AL (2012) & Mobile, AL (2013)

NASA Langley Research Center *Hampton, Virginia*

- New 75,000 sq.ft. design/build administration/office building; LEED Platinum

NASA Integrated Engineering Services Building *Hampton, Virginia*

- New 136,000 sq.ft. mixed use facility; LEED Gold

Robert F. Kennedy Department of Justice Building *Washington, D.C.*

- 1.3 million sq.ft. office building renovation

Social Security Administration *Ambridge, Pennsylvania*

- Evaluation of structural deficiencies

Federal Courthouse Complex *Erie, Pennsylvania*

- New $24 million courthouse annex and renovation to three existing historic buildings

Byrne/Green Courthouse and Federal Building
Philadelphia, Pennsylvania

- Lobby renovations
- HVAC study
- PCB transformer replacement

SSA Mid-Atlantic Program Center *Philadelphia, Pennsylvania*

- Life safety and control evaluation and
- PCB transformer replacement

William J. Nealon Federal Building and U.S. Courthouse
Scranton, Pennsylvania

- New $36 million courthouse annex and repair/alteration of existing federal building
- Basement slab replacement, chiller/boiler plant, and M/E systems upgrade

Boggs Courthouse and Federal Building *Wilmington, Delaware*

- Building Evaluation Report
- Prospectus Development Study
- Judges' chambers renovations (3)
- HVAC study
- Courtroom renovations

Federal Building *Williamsport, Pennsylvania*

- Renovation & building improvements

GSA Region 3 Offices, The Wanamaker Building
Philadelphia, Pennsylvania

- Tenant fit-up of office space
- Courtroom renovation throughout – GSA Region 3

U.S. Post Office and Courthouse Building *Pittsburgh, Pennsylvania*

- Renovations to this historic structure totaling over $2 million
- New fully-addressable fire alarm system
- Chiller replacement and cooling tower
- Structural modifications

5000 Wissahickon Avenue *Philadelphia, Pennsylvania*

- Investigate fire protection piping installation
- PCB transformer replacement
- Survey and environmental analysis

William S. Moorhead Federal Building *Pittsburgh, Pennsylvania*

- Lobby Design
- Fire alarm feasibility study
- Chilled water coil replacement
- Cooling tower improvements
- Steam coil replacement
- Plumbing and fire service improvements

Martinsburg Computer Center *Martinsburg, West Virginia*

- Handicapped accessibility renovations

Kee Federal Office Building and Courthouse *Bluefield, West Virginia*

- Mechanical and electrical renovations
- Building-wide HVAC renovation study and design

Federal Office Building *Huntington, West Virginia*

- Plumbing improvements study and design
- Electrical system upgrade

Federal Office Building *Martinsburg, West Virginia*

- HVAC renovation study and design/build construction document package
- Toilet room modernization

Staggers Federal Office Building *Morgantown, West Virginia*

- Building Evaluation Report
- Prospectus Development Study

Federal Office Building and Courthouse *Wheeling, West Virginia*

- $8 million renovation and additions to this historic structure including: new sallyport; prisoners' elevator; judges' elevator; holding cells; and new public, judges', and prisoners' circulation areas

U.S. COURTHOUSE *Harrisonburg, Virginia*

- New building-wide fire alarm system
- Second floor renovations including district magistrate courtroom, judges' chambers, conference rooms, clerks' rooms, and jury suite

RODINO FEDERAL BUILDING AND COURTHOUSE, GSA REGION 2 *Newark, New Jersey*

- Lobby renovation as part of the First Impression Initiative hosted by the General Services Administration

FEDERAL BUILDING AND COURTHOUSE *Williamsport, Pennsylvania*

- U.S. Marshal's Service: sallyport, holding cells, secure elevators, administrative areas, and judges' parking
- Probation fit-out, Clerk of Courts, jury assembly areas, and new public, restricted, and prisoner circulation areas

COMPLEX CIVIL LITIGATION CENTER, THE WANAMAKER BUILDING *Philadelphia, Pennsylvania*

- Tenant fit-up of privatized court facility

U.S. COURTHOUSE *Martinsburg, West Virginia*

- Design/build chiller plant replacement
- Building master plan

GARMATZ FEDERAL OFFICE BUILDING *Baltimore, Maryland*

- Courtroom renovations

ROBERT C. BYRD U.S. COURTHOUSE *Charleston, West Virginia*

- New seven-story, 325,000 sq.ft. courthouse
- Mechanical system commissioning activities

LEWIS F. POWELL COURTHOUSE *Richmond, Virginia*

- Lobby renovation

U.S. POST OFFICE AND COURTHOUSE *Lynchburg, Virginia*

- New 65,000 sq.ft., five-story courthouse building
- Renovation of an existing 25,000 sq.ft., three story historic schoolhouse

U.S. COURTHOUSE *Anniston, Alabama*

- Engineering study for 50,000 sq.ft. 1906 vintage courthouse