

▶▶ Expression of Interest:

Design of an Office Building

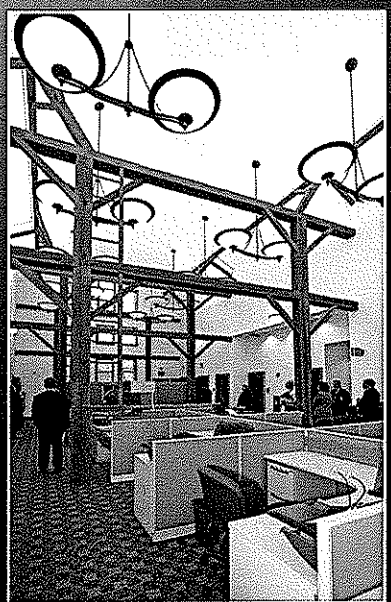
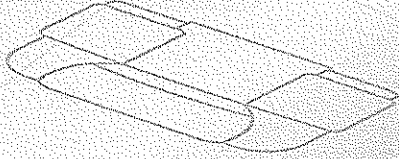


▶▶ Submitted to:

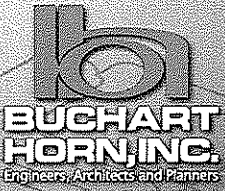
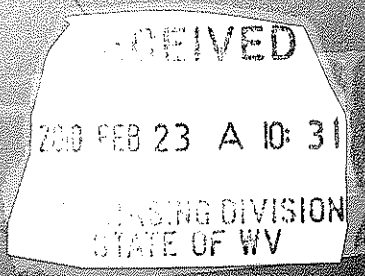
**State of West Virginia
Department of Agriculture**



ORIGINAL



February 23, 2010



February 22, 2010

Mr. Ron Price
State of West Virginia
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

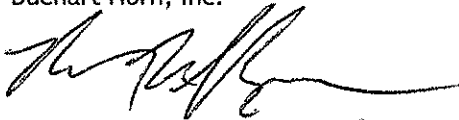
Reference: Architectural and Engineering Services for a Simplified Office Building
at the Gus R. Douglas Agriculture Center

Dear Mr. Price:

Buchart Horn, Inc. presents our qualifications to provide architectural and engineering services for a new, simplified office building at the Gus R. Douglas Agriculture Center in Charleston. Buchart Horn is a full service architectural and engineering firm offering extensive experience in the design and administration of office buildings and training facilities. Our proposed Project Manager, Michael M. Phillips, AIA, LEED® AP, has performed similar work for several projects throughout West Virginia.

This Expression of Interest had been prepared in accordance with the requirements outlined in your Request for Quotation. Should you have any questions regarding the material contained in this package, please contact me at (304) 346-1176. Thank you again for your consideration of Buchart Horn for this assignment. We look forward to the opportunity to serve the State of West Virginia on this important endeavor.

Sincerely,
Buchart Horn, Inc.



Michael M. Phillips, AIA, LEED® AP
Project Manager and Lead Architect





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

Request for Quotation

RFQ NUMBER
AGR1013

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
RON PRICE
304-558-0492

RFQ COPY

TYPE NAME/ADDRESS HERE
 Buchart Horn, Inc.
 400 Tracy Way, Suite 110
 Charleston, WV 25311

SHIP TO

DEPARTMENT OF AGRICULTURE
 ADMINISTRATIVE SERVICES
 BUILDING 2, ROOM 106
 4720 BRENDA LANE
 CHARLESTON, WV
 25312 304-558-2221

DATE PRINTED 01/21/2010	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: **02/23/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UQP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-07		
<p>DESIGN OF AN OFFICE BUILDING</p> <p>EXPRESSION OF INTEREST</p> <p>TO PROVIDE ARCHITECTURAL/ENGINEERING SERVICES FOR THE DESIGN OF A SIMPLIFIED OFFICE BUILDING PER THE ATTACHED.</p> <p>WRITTEN QUESTIONS WILL BE ACCEPTED UNTIL THE 4:30 PM ON FEBRUARY 2, 2010 AT THE FOLLOWING:</p> <p>RON PRICE PURCHASING DIVISION 2019 WASHINGTON STREET EAST CHARLESTON, WV FAX: 304-558-4115 EMAIL: RON.N.PRICE@WV.GOV</p> <p>NOTICE</p> <p>A SIGNED BID PLUS 3 CONVENIENCE COPIES MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Ron N. Price</i>	TELEPHONE (304) 346-1127	DATE February 22, 2010
TITLE Executive Vice President	FAX 23-1498326	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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

Request for Quotation

RFQ NUMBER
 AGR1013

PAGE
 2

ADDRESS CORRESPONDENCE TO ATTENTION OF
 RON PRICE
 304-558-0492

RFQ COPY

TYPE NAME/ADDRESS HERE

Buchart Horn, Inc.
 400 Tracy Way, Suite 110
 Charleston, WV 25311

SHIP TO

DEPARTMENT OF AGRICULTURE
 ADMINISTRATIVE SERVICES
 BUILDING 2, ROOM 106
 4720 BRENDA LANE
 CHARLESTON, WV
 25312 304-558-2221

VENDOR

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
01/21/2010				

BID OPENING DATE: 02/23/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: RP-41</p> <p>RFQ. NO.: AGR1013</p> <p>BID OPENING DATE: 02/23/10</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: (304) 346-7295</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY): Michael M. Phillips, AIA, LEED® AP, Senior Architect</p> <p>***** THIS IS THE END OF RFQ AGR1013 ***** TOTAL: _____</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Bernard White</i>	TELEPHONE (304) 346-1127	DATE February 22, 2010
TITLE Executive Vice President	FEIN 23-1498326	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; or any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Buchart Horn, Inc.

Authorized Signature: *Paul A. Williams* Date: February 22, 2010

State of Pennsylvania

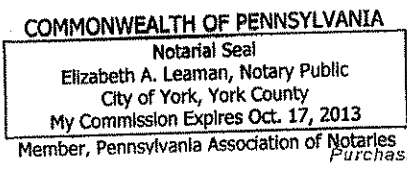
County of York, to-wit:

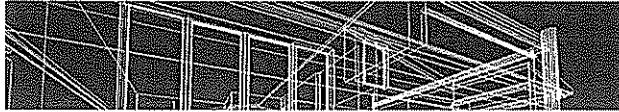
Taken, subscribed, and sworn to before me this 22nd day of February, 2010

My Commission expires 10/17/2013, 20 .

AFFIX SEAL HERE

NOTARY PUBLIC *Elizabeth A. Leaman*





Project Methodology

Firm Profile

Key Personnel

Project Experience

Project Methodology

Overview

The mission of the West Virginia Department of Agriculture is to protect plant, animal and human health and the state's food supply through a variety of scientific and regulatory programs; to provide vision, strategic planning and emergency response for agricultural and other civil emergencies; to promote industrial safety and protect consumers through educational and regulatory programs; and to foster economic growth by promoting West Virginia agriculture and agribusinesses throughout the state and abroad.

This mission is carried out by staff working out of facilities across the state, the largest being the Gus R. Douglass Agriculture Center at Guthrie, north of Charleston, which currently houses around 250 Department employees. As with most state agencies, work and storage space at the Department's facilities, and in particular at the Douglass Center, are at a premium. With this in mind, the State wishes to construct a new small, 2-story office facility at the Center. Available space at the Center is limited, so the footprint of the new facility will not be larger than 66x34. Suggested division of space in the proposed facility, as stated in the Request for Quotation, is outlined as follows:

- Office space for administrative and office personnel (expected to include five offices for full time staff)
- Reception area for receiving visitors
- One conference room with A/V accommodations, to be shared by WVDA and USDA staff
- One small lunch room
- Controlled climate storage area
- Small laboratory space
- Adequate storage space for laboratory supplies, testing materials, space equipment, emergency response supplies, etc.
- Adequate parking for building personnel and visitors

It is anticipated that storage and equipment space will be on the lower level, with offices and conference space on the upper level.

Methodology

Buchart Horn will utilize a project approach that stresses continual client communication, as well as early and open communication with review agencies to ensure that the design satisfies technical and budget requirements while meeting an aggressive design and construction schedule. Our proposed schedule of services is outlined as follows:

- Pre-Design Phase / Definition of Project Intent
 - Develop project objectives, including schedule and budget
 - Establish milestones and decision makers
 - Develop checklist of required approvals
 - Establish communication plan and meeting schedule
- Planning / Programming Phase
 - Develop current and future space needs
 - Analyze necessary adjacencies
 - Conceptual Layout

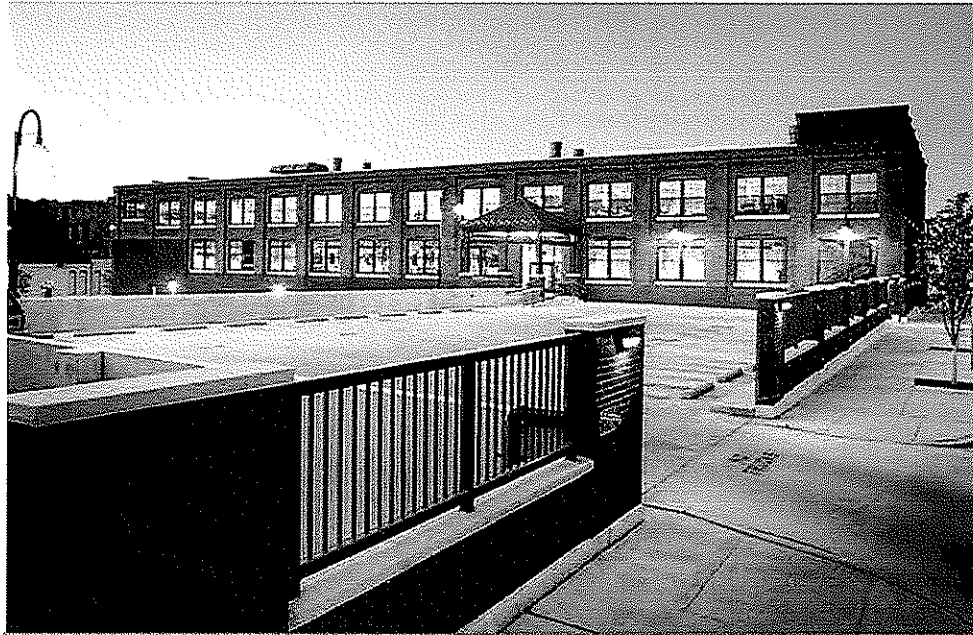
- Schematic Design Phase
 - Develop Preliminary Site and Floor Plans and Elevations
 - Preliminary Finish and Furnish Selections
 - Refine Program, Schedule and Budget
- Design Development Phase
 - Finalize Design
 - Develop Construction Drawings and Specifications
- Bidding Phase
 - Bidding Support
 - Construction representation / Documentation as required

We believe that the goal of every successful project is a fully satisfied client and workable, cost effective solutions to problems. The element that enables a successful project is the people - skilled and experienced technical personnel committed to a successful project and supported by the management and owners of the firms. We have assembled an exceptional group of professionals to work on design of this new office facility for the Department of Agriculture.

A chart showing the organizational structure and technical responsibilities of the project team is included within this submittal. Detailed resumes for all project personnel are also included.

Michael M. Phillips, AIA, LEED® AP, will serve as Project Manager and Lead Architect. In this role, Mr. Phillips will serve as the lead point of contact with the State. As Lead Architect for Buchart Horn's West Virginia operations, Mike has served as Project Manager and Lead Architect for all of our recent West Virginia facilities. As Project Manager, Mike's responsibilities will include:

- Formulating the Project Work Plan.
- Establishing the Project Schedule.
- Ensuring that all project milestones are met through the coordination and monitoring of the project schedule and budget for the entire project team.
- Conducting meetings with the State to document decisions or open items (project issues) and to publish meeting minutes that document those decisions/open items.
- Identifying and monitoring all open items/project issues so that all key project information is acted upon/ responded to in a timely and professional manner.
- Participating with the team in site visits in order to assess existing conditions and to collect and verify all appropriate program needs and requirements.
- Confirming that all work is being performed in accordance with the project scope and guidelines.
- Coordinating and monitoring of project engineers/ architects to ensure consistency and quality of work via regular meetings.
- Communicating among all members of the project team to ensure the consistent application of all project standards, schedules and date decisions.
- Responding to inquiries by the State.



For 65 years, Buchart Horn, Inc. has managed and successfully completed multi-disciplinary projects throughout the eastern United States. As a full-service architectural, engineering, and planning firm serving our clients through 15 operating offices, we are well positioned to assist our clients with any project.

Buchart Horn is extremely proud of its performance for state, federal, and local governments and agencies as well as private clients. Our tradition of excellence has led to our current *Engineering News Record* ranking among the nation's Top 500 Design Firms and the Top 200 Environmental Firms. We have planned and designed projects worth more than \$2 billion and have been responsible for numerous award-winning projects.

Locations

- West Virginia: Charleston
- Pennsylvania: York, Harrisburg, New Cumberland, Pittsburgh, State College, Stroudsburg
- Louisiana: Baton Rouge
- Maryland: Baltimore
- Mississippi: Batesville
- New Jersey: Marlton
- Tennessee: Memphis, Milan
- Germany: Frankfurt/Main, Kaiserslautern

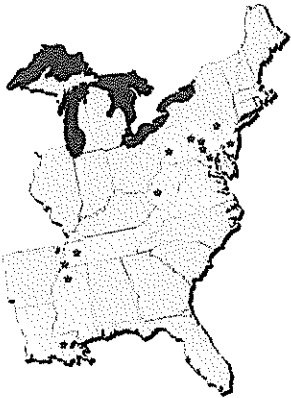
Services

We specialize in designing, improving, and solving infrastructure and structure problems and in helping our clients comply with environmental, life safety, and other codes and regulations. We provide:

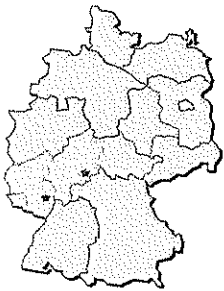
- Architecture
- Civil/Site Development
- Landscape Architecture Design
- Environmental Planning
- Surveys/Mapping
- HVAC, Plumbing, Energy Conservation
- Construction Management
- Electrical Systems
- Structural Design
- Geographic Information Systems (GIS)
- Highways, Roads, Streets
- Traffic and Traffic Management
- Recreation Parks and Trails
- Parking Garages and Decks
- Schools
- Telecommunications
- Water/Wastewater Treatment and Systems

Contact

400 Tracy Way • Suite 110 • Charleston, WV 25311
 Office: (717) 852-1400 • Fax: (717) 852-1401
www.bh-ba.com



U.S. Offices



German Offices

Architecture

Buchart Horn offers complete architectural design capabilities including site selection, feasibility analysis, and the following services:

- ADA Evaluations/Compliance
- Building Evaluation
- Building Retrofits
- Cost Estimating
- Existing Conditions Review
- Facilities Design
- Feasibility Studies
- Historic Preservation
- Materials Selection
- Programming
- Renderings and 3-D Animations
- Renovations and New Construction
- Restoration
- Sustainable Design/LEED®/Green Design
- Site Analysis

Structural Engineering

Buchart Horn has been planning, designing, and adapting infrastructure and buildings for 65 years. Our structural engineering services involve all types of materials and structural systems.

- Parking Structures
- Structural Analysis
- Feasibility Studies and Reports
- Structural Evaluation of Buildings
- New Buildings and Special Structures
- Foundation Design - Buildings and Equipment
- Renovations and Additions
- Industrial Design
- Commercial Design
- Ecclesiastical Design
- Educational Design
- Municipal Design
- Hospitals and Nursing Homes
- Housing for the Elderly
- Antenna Towers
- Swimming Pools
- Overhead Materials Handling Systems
- Retaining Structures

Mechanical Engineering

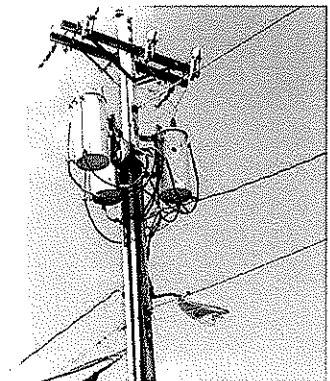
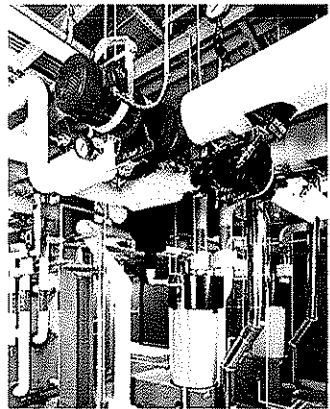
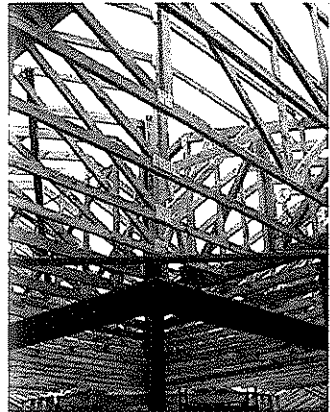
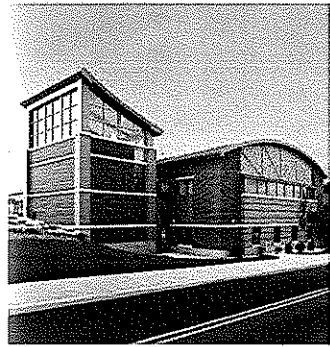
We provide complete system assessment, design and construction phase services for HVAC, plumbing, and fire protection systems. Our designs achieve a suitable balance of comfort, safety, health, and hygiene with sensitivity to client budgets and ease of upkeep. Our common-sense approach integrates the building systems with the need for a flexible, responsive, and energy-saving environment. Services include:

- Alternative Energy Sources
- Automatic Temperature Controls
- Building Management Systems
- Coal, Gas, and Oil Burner Retrofits
- Compressed Air Systems
- Dust Collection Systems
- Energy Protection Systems
- High-Pressure Boiler Plants
- HVAC Systems
- Industrial Process Distribution
- Plumbing and Drainage Systems
- Steam Power Distribution
- Value Engineering and Life Cycle Analysis
- Ventilation Heat Recovery

Electrical Engineering

From specialty lighting design and electrical power supply to completely automated systems development, our experienced electrical engineering staff can support a project from evaluation through system start-up and troubleshooting. Complete electrical engineering services are provided to architects, engineers, and public and private sector clients. Sophisticated instrumentation and control systems are often at the heart of today's electrical engineering projects. Our specialized experience brings cost-effective solutions to respond to client needs through the following services:

- Navigational Aids
- Interior and Exterior Lighting
- Power Distribution
- Facility Systems
- Telecommunications and Networking
- Process Automation and Control
- Operation and Maintenance Evaluation
- Systems Commissioning, Field Inspection, Start-up
- Electrical Studies and Analysis



Planning

In our firm, planning is not a separate discipline. It is an important component in assisting our clients in making knowledgeable project and programming decisions. We provide planning for the following types of projects:

- Comprehensive Planning
- Economic Feasibility
- Environmental Planning
- Facilities Planning
- GIS/Mapping
- Land Planning
- Landscape Architecture
- Master Planning
- Public Meetings
- Recreational Planning
- Space Planning
- Zoning and Subdivision Ordinances

Site/Civil Engineering

Buchart Horn's civil engineering group matches sophistication and execution to complex, project-specific, and regulatory requirements to leverage the latest technological and computer advances.

- Parking Studies and Design
- Flood Studies
- Grading and Drainage Design
- Right-of-Way Services
- Sediment and Erosion Control
- Signalization
- Site Development
- Stormwater Management
- Traffic Studies and Analyses
- Utilities Design

Construction Services

Our construction management engineers and inspectors serve as representatives of the client/owner, providing liaison with contractors so that construction complies with contract documents. We provide the full spectrum of construction phase services for all types of architectural and engineering projects including:

- Construction Inspection
- CPM Scheduling and Evaluation
- Claims/Change Order Management
- Constructability Analysis
- Construction Audits
- Construction Management
- Contract Administration
- Design/Build
- Equipment Start-up
- Grants Administration
- Materials/Equipment Procurement
- Material Sampling and Testing
- Permit Processing
- Specialized Testing

Environmental Engineering

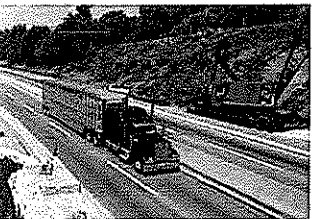
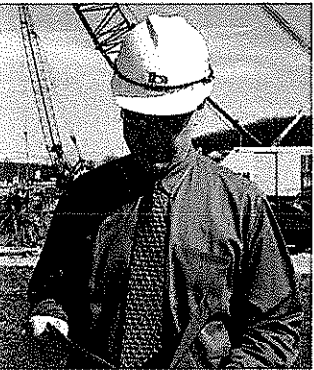
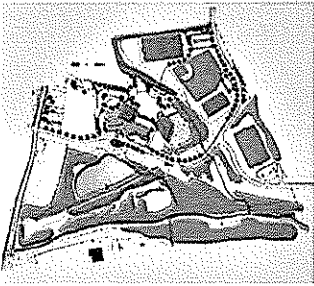
Our environmental engineering services range from water treatment to sludge management and disposal. Our staff is familiar with code regulations. Services available include:

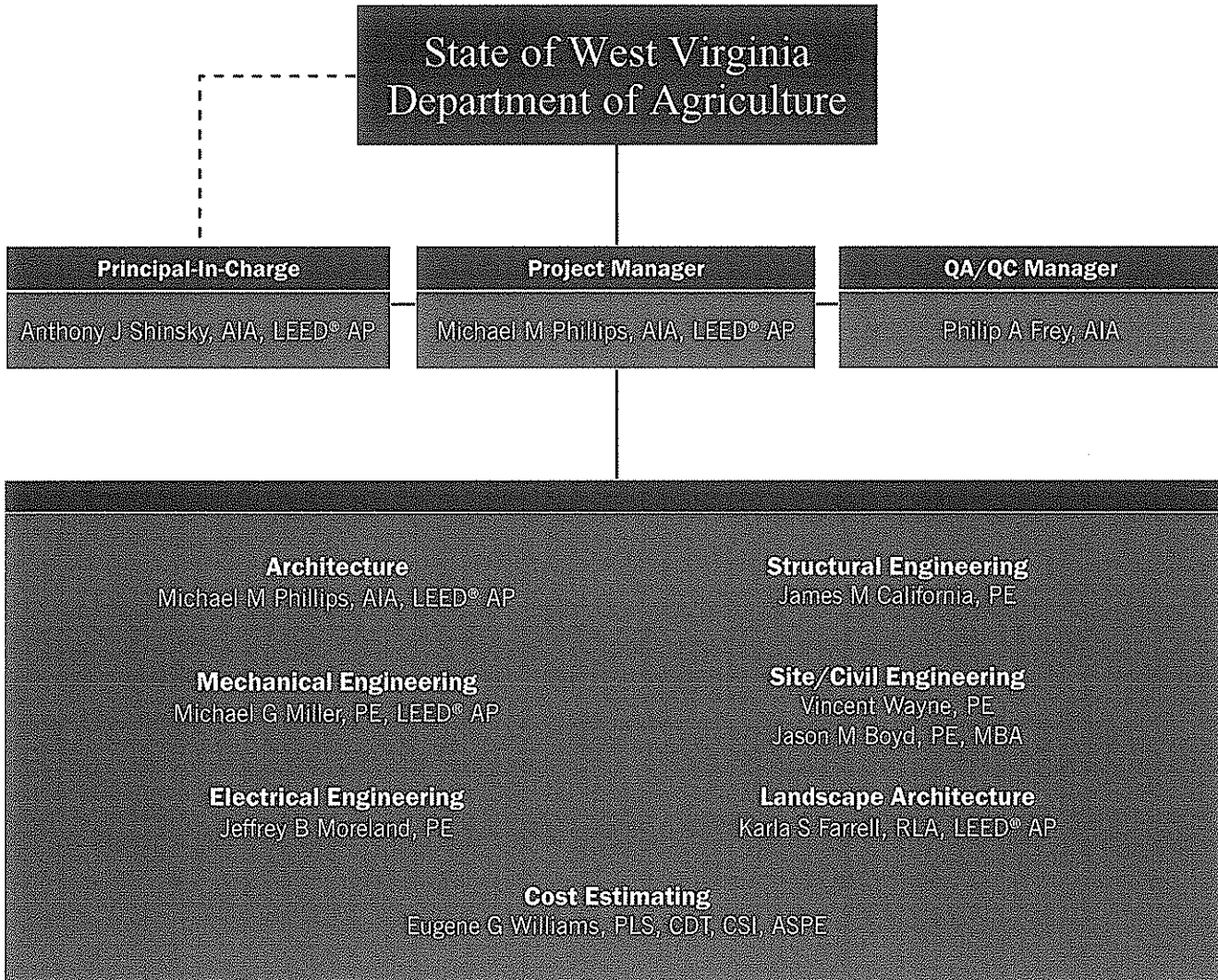
- Environmental Assessments
- Environmental Auditing
- Environmental Compliance
- Financial Analysis/Funding Assistance
- Geological Engineering
- Geophysical Investigations
- Infiltration/Inflow Studies
- Soil Contamination Studies
- Solid Waste/Air Quality Management
- Stormwater Management/NPDES Permitting
- Water and Wastewater Collection/Treatment Systems
- Water and Sewage Facilities Planning
- Wetlands Delineation and Permit Applications

Transportation Engineering

Our Transportation Division offers a full range of transportation-related experience including:

- Airport Design
- Bridge Design and Inspection
- Dam Design and Inspection
- Flood Studies and Hydrological Analyses
- Highway Design
- Railroad and Railroad Bridge Design
- Site Grading, Drainage, Stormwater
- Traffic Studies





Michael M Phillips, AIA, LEED® AP

Project Manager/Architect

RESUME

Michael M Phillips, AIA, LEED® AP

Education:

Bachelor of Architecture/
Architecture

Registrations/Certifications:

Registered Architect
LEED 2.0® Accredited
Professional

Years of Experience:

23

Professional Affiliations:

American Institute of
Architects/West Virginia
Chapter
National Council of
Architectural Registration
Boards

With a diverse background in project scale, type, and style, Mr. Phillips has a strong record of successfully working with and integrating existing facilities into new designs and programs. His knowledge and experience gained from a strong background and practice in historic preservation and renovation bring a keen insight into dealing with the issues of adaptive re-use and the recycling of existing built elements. This wide-ranging experience has also helped fashion a working knowledge of resilient, lasting designs, structurally, functionally, and pragmatically as well as aesthetically.

Mr. Phillips' relevant experience includes the following projects:

- Kanawha County Judicial Annex Renovations, Charleston, WV.
- New Research Support Facility and Storage Yard, Canaan Valley Institute, Davis, WV.
- Preparation of Lewis County Courthouse Annex Comprehensive Plan, Weston, WV.
- Design of Lewis County Courthouse Annex, Weston, WV.
- Transportation Security Administration Offices Design, Yeager Airport, Charleston, WV.
- Yeager Airport Terminal Renovations, Central WV Regional Airport Authority, Charleston, WV.
- Rehabilitation Design for State Capitol Parking Facility, Charleston, WV.
- Administrative and Judicial Facilities Renovation Design, Preston County Commission, Kingwood, WV.
- Feasibility Study for Expansion of Monongalia County Courthouse and Construction of New Intermodal Parking Facility, Morgantown, WV.
- Huse Memorial Park Administration/Maintenance Facility Improvements, Town of Fayetteville, WV.
- Design of Rappel Tower and Leadership Reaction Course, West Virginia Army National Guard/US Army Corps of Engineers, Camp Dawson, WV.
- Mountain State University, Feasibility Study for New Multi-Level Parking Facility with Student Center and Gymnasium, Beckley, WV.
- Preparation of Design Charrette for Proposed Readiness Center, US Army Corps of Engineers, Buckhannon, WV.
- Bus Service Facility Additions and Alterations, Tri-State Transit Authority, Huntington, WV.
- Design of Elkins Maintenance Facility, WVDOT, Randolph County, WV.
- Old Main Auditorium Renovation, Marshall University, Huntington, WV.
- Squadron Operations Building 107 Repair, USPFO for PA, 171st Air Refueling Wing, Coraopolis, PA.
- Combat Arms Training Simulator and Combat Arms Training and Maintenance Facility Design, USPFO for PA, 171st Air Refueling Wing, Coraopolis, PA.
- Fuel System Maintenance Dock Repair, Building 304, USPFO PA, 171st Air Refueling Wing, Coraopolis, PA.

Anthony J Shinsky, AIA, LEED® AP

Principal-in-Charge

RESUME

Anthony J Shinsky, AIA, LEED® AP

Education:

Bachelor of Architecture/
Architecture

Registrations/Certifications:

Registered Architect
LEED 2.0® Accredited
Professional

Years of Experience:

22

Professional Affiliations:

American Institute of Architects
National Council of
Architectural Registration
Boards
Society of American Military
Engineers

As Principal-in-Charge on this project, Mr. Shinsky will meet regularly with Project Manager to monitor schedules and budgets. He will also periodically contact you to confirm that you are satisfied with the progress being made and with our performance throughout the course of this project. As Buchart Horn's Vice President of Facilities Division, Mr. Shinsky is available to discuss any aspect of this project with you at your request. In addition, he will review project performance reports prepared by QA/QC Officer and coordinate with Project Manager and QA/QC Officer any action to be taken to maintain excellent performance standards.

Mr. Shinsky's relevant experience includes the following projects:

- **Municipal Complex Design and Adaptive Reuse, Township of Derry, Hershey, PA.**
- **L.D. Astorino & Associates, Office Complex Renovation, Mechanical, Electrical and Plumbing Services, Camp Hill, PA.**
- **Design of Combined Army National Guard Readiness Center, Pennsylvania DGS/PA Army National Guard, Waynesburg, PA.**
- **Design of Lewis County Courthouse Annex, Weston, WV.**
- **Yeager Airport Terminal Renovations, Central WV Regional Airport Authority, Charleston, WV.**
- **Preparation of Design Charrette for Proposed Readiness Center, US Army Corps of Engineers, Buckhannon, WV.**
- **Design of Rappel Tower and Leadership Reaction Course, West Virginia Army National Guard/US Army Corps of Engineers, Camp Dawson, WV.**
- **Mountain State University, Feasibility Study for New Multi-Level Parking Facility with Student Center and Gymnasium, Beckley, WV.**
- **Spiezle Architectural Group/Neumann College, Science Laboratory Renovations at Bachmann Main Building, Aston, PA.**
- **Spiezle Architectural Group, Analysis of Existing Conditions and As-built Drawings for HVAC, Electrical Power and Lighting, TD Bank Call Center, Harrisburg, PA.**
- **HVAC Improvements for Computer Laboratories in High School and Middle School, West York Area School District, York, PA.**
- **Design of Administrative Building Addition and Truck Entrance, Springettsbury Township, PA.**
- **PA DGS, Vehicle Storage Building Design, Pennsylvania Military Museum, Boalsburg, Centre County, PA.**
- **GM McCrossin Inc./PA DGS, L-3 Close Security Housing Unit Design/Build at State Correctional Institution, Pine Grove, PA.**
- **Architectural, Engineering and Site Development Services for Fairfield Inn & Suites with Shaner Investments, Lock Haven, PA.**

Philip A Frey, AIA

QA/QC Manager

Education:

Bachelor of Architecture/
Architecture

Registrations/Certifications:

Registered Architect

Years of Experience:

31

Professional Affiliations:

American Institute of Architects

Mr. Frey's responsibilities include providing the project design team leadership with coordination meetings, reports and communications through all phases of architectural services: feasibility and planning, schematic design, design development, construction documents, bidding, and construction contract administration.

Mr. Frey's relevant experience includes the following projects:

- Design of Combined Army National Guard Readiness Center, Pennsylvania DGS/PA Army National Guard, Waynesburg, PA.
- The Pennsylvania State University, Feasibility Study for Math & Science Complex Proposed Addition, Altoona, PA.
- Trexler Nature Preserve "Green" Environmental Center Design, Lehigh County, Allentown, PA.
- PA DGS, Vehicle Storage Building Design, Pennsylvania Military Museum, Boalsburg, Centre County, PA.
- PA DGS/Smithfield State Correctional Institute, Kitchen and Dining Area Renovations, Huntingdon County, PA.
- Window Replacement, St. Peter Apartments, Columbia, PA.
- Alpha Gamma Rho Fraternity House Renovations, State College, PA.
- New Middle School Architectural/Engineering Services, Downingtown Area School District, Uwchlan Township, Chester County, PA.
- Readiness Center HVAC Replacement, TN Dept. of Finance and Administration, McKenzie, TN.
- Lower Paxton Township Municipal Building, Harrisburg, PA.
- Upper Allen Township Municipal Building, Mechanicsburg, PA.
- Dr. Waltz Dental Office, Camp Hill, PA.
- Central Pennsylvania Hematology and Medical Oncology Center, Lemoyne, PA.
- Outlook Point Three Assisted Living Facilities, Lebanon, Williamsport & Johnstown, PA.
- Kinkora Pythian Retirement Home, Duncannon, PA.

Michael G Miller, PE, LEED® AP

Mechanical Engineer

RESUME

Michael G Miller, PE, LEED® AP

Education:

Associate of Science/
Engineering

Registrations/Certifications:

Professional Engineer
LEED 2.0® Accredited
Professional

Years of Experience:

40

Professional Affiliations:

American Society of Heating,
Refrigeration and Air-
Conditioning Engineers
American Society of Plumbing
Engineers
National Fire Protection
Association
US Green Building Council

Mr. Miller is responsible for overall design and quality control of mechanical engineering projects. In choosing economical and innovative plumbing, fire protection, and HVAC systems, Mr. Miller evaluates practicality of operation and application; energy conservation; compliance to building code, safety, and health issues; hygienic practice; energy reclamation devices and procedures; and estimates the economical construction, maintenance, and operating costs for life cycle value engineering analyses. He generates computer load-modeling to accurately project value and feasibility of conservation alternatives. As Director of Buchart Horn's Mechanical Group, Mr. Miller oversees quality control checking of mechanical calculations, equipment and distribution systems, drawings and specifications for conformance to orthodox industry standards and prudent engineering procedures.

Mr. Miller's relevant experience includes the following projects:

- Kanawha County Judicial Annex Renovations, Charleston, WV.
- Municipal Complex Design and Adaptive Reuse, Township of Derry, Hershey, PA.
- L.D. Astorino & Associates, Office Complex Renovation, Mechanical, Electrical and Plumbing Services, Camp Hill, PA.
- Design of Municipal Services Center, Lower Allen Township, Camp Hill, PA.
- Mission Support Training Facility Design, USPFO for PA/Ft. Indiantown Gap, Annville, PA.
- Design of Buchart Horn, Inc./.'s Corporate Headquarters, York, PA.
- Design of Combined Army National Guard Readiness Center, Pennsylvania DGS/PA Army National Guard, Waynesburg, PA.
- American Automobile Association (AAA) Office Expansion and Renovation, State College, PA.
- Pennfield Corporation Office Building Design-Build, Lancaster, PA.
- Design of Montgomery County Police Vehicle Recovery Facility, Gaithersburg, MD.
- Berg Electronics, Valley Green Corporate Headquarters Office Facility Additions and Renovations, Emigsville, PA.
- Health and Human Services Building Office Space Renovation, Dauphin County Commissioners, Harrisburg, PA.
- County Administration Building Renovation, Dauphin County Commissioners, Harrisburg, PA.
- County Courthouse Renovation, Dauphin County Commissioners, Harrisburg, PA.
- Improvements to Corporate Headquarters Building, PA League of Cities and Municipalities, Harrisburg, PA.
- Coopers and Lybrand Office Center Renovation, Harrisburg, PA.

Jeffrey B Moreland, PE

Electrical Engineer

Education:

Master of Science/Electrical Engineering

Bachelor of Science/Electrical Engineering

Registrations/Certifications:

Professional Engineer

Years of Experience:

26

Professional Affiliations:

Association of Energy Engineers

Association of Iron and Steel Engineers

Institute for Electrical and Electronic Engineers/Control Systems, Instrumentation and Measurement, and Digital Signal Processing Societies

National Council of Examiners for Engineering and Surveying

Sigma Xi Scientific Research Society

Mr. Moreland is an Electrical Engineer with a solid background in process control and signal processing including a more than 25-year record of achievement in applying new and innovative technologies. His broad business experience, having operated his own multi-million dollar business as well as large capital projects for a Fortune 500 manufacturing company, ranges from applied R&D, software design, IT and operations management to a variety of electrical design and project management functions.

Mr. Moreland's relevant experience includes the following projects:

- **New Research Support Facility and Storage Yard, Canaan Valley Institute, Davis, WV.**
- **Design of Combined Army National Guard Readiness Center, Pennsylvania DGS/PA Army National Guard, Waynesburg, PA.**
- **Yeager Airport Terminal Renovations, Central WV Regional Airport Authority, Charleston, WV.**
- **Rehabilitation Design for State Capitol Parking Facility, Charleston, WV.**
- **Administrative and Judicial Facilities Renovation Design, Preston County Commission, Kingwood, WV.**
- **Huse Memorial Park Administration/Maintenance Facility Improvements, Town of Fayetteville, WV.**
- **Bus Service Facility Additions and Alterations, Tri-State Transit Authority, Huntington, WV.**
- **Design of Elkins Maintenance Facility, WVDOT, Randolph County, WV.**
- **Design of Rappel Tower and Leadership Reaction Course, West Virginia Army National Guard/US Army Corps of Engineers, Camp Dawson, WV.**
- **Squadron Operations Building 107 Repair, USPFO for PA, 171st Air Refueling Wing, Coraopolis, PA.**
- **Combat Arms Training Simulator and Combat Arms Training and Maintenance Facility Design, USPFO for PA, 171st Air Refueling Wing, Coraopolis, PA.**
- **Fuel System Maintenance Dock Repair, Building 304, USPFO PA, 171st Air Refueling Wing, Coraopolis, PA.**
- **Readiness Center HVAC Replacement, TN Dept. of Finance and Administration, McKenzie, TN.**
- **City Hall Annex Renovations, City of Bartlett, TN.**
- **Architectural, Structural, Mechanical and Electrical Engineering Services for Charles Ray Nix Wildlife Management Area Headquarters Facility, Panola County, MS.**

James M California, PE

Structural Engineer

RESUME

James M California, PE

Education:

Bachelor of Architectural
Engineering/Structural
Engineering

Registrations/Certifications:

Professional Engineer

Years of Experience:

29

Professional Affiliations:

American Institute of Steel
Construction

Mr. California is a Senior Structural Engineer and has extensive experience in structural building design on various government, municipal, commercial, industrial, and educational projects; field investigation and evaluation of existing structures; technical report preparation; shop drawing review; and technical support during construction.

Mr. California's relevant experience includes the following projects:

- Transportation Security Administration Offices Design, Yeager Airport, Charleston, WV.
- Kanawha County Judicial Annex Renovations, Charleston, WV.
- New Research Support Facility and Storage Yard, Canaan Valley Institute, Davis, WV.
- Design of Montgomery County Police Vehicle Recovery Facility, Gaithersburg, MD.
- American Automobile Association (AAA) Office Expansion and Renovation, State College, PA.
- Pennfield Corporation Office Building Design-Build, Lancaster, PA.
- County Administration Building Renovation, Dauphin County Commissioners, Harrisburg, PA.
- Health and Human Services Building Office Space Renovation, Dauphin County Commissioners, Harrisburg, PA.
- New Maintenance Garage, New Emergency Services Building, and Municipal Building Renovations, Hampden Township, PA.
- Mechanical, Electrical and Structural Design Services for Five-Story Office Complex, Susquehanna Broadcasting Company, York, PA.
- Architectural, Engineering and Site Development Services for Fairfield Inn & Suites with Shaner Investments, Lock Haven, PA.
- PA DGS, Vehicle Storage Building Design, Pennsylvania Military Museum, Boalsburg, Centre County, PA.
- GM McCrossin Inc./PA DGS, L-3 Close Security Housing Unit Design/Build at State Correctional Institution, Pine Grove, PA.
- Command Headquarters Facility Renovation (Wing D, Second Floor), Tobyhanna Army Depot, PA.
- Huse Memorial Park Administration/Maintenance Facility Improvements, Town of Fayetteville, WV.
- Design of Elkins Maintenance Facility, WVDOT, Randolph County, WV.
- Bus Service Facility Additions and Alterations, Tri-State Transit Authority, Huntington, WV.
- Old Main Auditorium Renovation, Marshall University, Huntington, WV.
- Yeager Airport Terminal Renovations, Central WV Regional Airport Authority, Charleston, WV.
- City Hall Annex Renovations, City of Bartlett, TN.
- Bartlett Station Municipal Center ADA Improvements, City of Bartlett, TN.

Vincent Wayne, PE

Site/Civil Engineer

RESUME

Vincent Wayne, PE

Education:

Bachelor of Science/Civil
Engineering

Associate of Science/
Architectural Engineering
Technology

Registrations/Certifications:

Professional Engineer

Years of Experience:

26

Professional Affiliations:

American Society of Civil
Engineers

Mr. Wayne has more than 25 years of experience in the field of land development. He is responsible for managing projects as well as coordinating design teams. His abilities encompass all phases of land development, from conceptual design and final plan through production of construction documents. Mr. Wayne's experience includes planning, designs for stormwater management, grading plans, erosion and sedimentation control plans, and site layouts.

Mr. Wayne's relevant experience includes the following projects:

- **Municipal Complex Design and Adaptive Reuse, Township of Derry, Hershey, PA.**
- **Design of Municipal Services Center, Lower Allen Township, Camp Hill, PA.**
- **Mission Support Training Facility Design, USPFO for PA/Ft. Indiantown Gap, Annville, PA.**
- **Fulton Financial Corp., Addition and Interior Renovations to Existing Bank Facility, Elizabethtown, PA.**
- **Design of Combined Army National Guard Readiness Center, Pennsylvania DGS/PA Army National Guard, Waynesburg, PA.**
- **Design of Montgomery County Police Vehicle Recovery Facility, Gaithersburg, MD.**
- **New Maintenance Garage, New Emergency Services Building, and Municipal Building Renovations, Hampden Township, PA.**
- **Master Planning and Design of Municipal Complex, Spring Garden Township, York, PA.**
- **PA DGS, Vehicle Storage Building Design, Pennsylvania Military Museum, Boalsburg, Centre County, PA.**
- **Architectural, Engineering and Site Development Services for Fairfield Inn & Suites with Shaner Investments, Lock Haven, PA.**
- **Trexler Nature Preserve "Green" Environmental Center Design, Lehigh County, Allentown, PA.**
- **Combat Arms Training Simulator and Combat Arms Training and Maintenance Facility Design, USPFO for PA, 171st Air Refueling Wing, Coraopolis, PA.**
- **Design of Entry Control Gates and Cantonment Fence, USPFO for PA/193rd Special Operations Wing, Middletown, PA.**
- **AT&T Wireless Services, Inc., Land Development for Parking Facility Expansion, Susquehanna Township, Dauphin County, PA.**
- **Civil Engineering for Hershey Center for Applied Research Building 2, Wexford Science and Technology LLC, Derry Township, PA.**

Jason M Boyd, PE

Site/Civil Engineer

RESUME

Jason M Boyd, PE

Education:

Master of Business
Administration/Business
Administration/Marshall
University

Bachelor of Science/Civil
Engineering/West Virginia
University

Registrations/Certifications:

Professional Engineer

Years of Experience:

11

Professional Affiliations:

Society of American Military
Engineers/Pittsburgh
Post/Young Member

Mr. Boyd's civil engineering experience includes roadway design, right of way, geometric layouts, utility relocation design, maintenance of traffic, signing and marking, plan preparation/presentation, quantity/cost estimates, drainage design, hydrologic procedures, pavement/deck drainage, inlet spacing computations, channels, culverts, storm drains, and stormwater management.

Mr. Boyd's relevant experience includes the following projects:

- Rappel Tower and Leadership Reaction Course, West Virginia Army National Guard/US Army Corps of Engineers, Camp Dawson, WV.
- I-81 Tabler's Station Interchange, West Virginia DOT, Martinsburg, WV.
- Jones and Laughlin Overpass Bridge, WVDOT, Martinsburg, WV.
- Patterson's Mill Bridge and Avella Bridge Replacements, PennDOT District 12, Uniontown, PA.
- Route 9 and Craig Road/East Freehold Road Intersection Improvements, New Jersey DOT, Freehold and Manalapan Townships, Monmouth County, NJ.
- Dunlow Thru Truss Bridge, West Virginia DOT, Wayne County, WV.
- Slate Bridge Replacement, WVDOT, Wood County, WV.
- Virginia DOT, Right-of-Way and Construction Plans for Route 220, Botetourt County, VA.
- I-77/US 460 Interchange Bridge, West Virginia DOT, Mercer County, WV.
- King Coal Highway, West Virginia DOT, Mingo County, WV.
- Corridor H Final Design, WVDOT, Grant County, WV.
- PennDOT District 11-0, SR 910 A21 & A22, Salem Hollow Road Bridge Replacements, Segments 0080 and 0090, Allegheny County, PA.
- Field Investigation Services for the Source Water Assessment and Wellhead Protection Program, Tetra Tech, Inc., WV Department of Health and Human Services, Phillippi and Kearneysville, Districts, WV.
- Open End Environmental and Engineering Services, PennDOT District 1-0, Northwestern Pennsylvania.
- WVDEP, Terry Branch Portals and Refuse Remediation, Wyoming County, WV.
- Orders Construction Company, Value Engineering for Jones & Laughlin Overpass Bridge, Berkeley County, WV.
- Oakland Public Service District, Water System Improvements, Weirton, WV.

Karla S Farrell, RLA, LEED® AP

Landscape Architect

RESUME

Karla S Farrell, RLA, LEED® AP

Education:

Bachelor of Science/Landscape Architecture

Coursework/Computer Aided Design, Intergraph, MicroStation

Coursework/Wetlands: Restoration, Enhancement, and Construction

Registrations/Certifications:

Registered Landscape Architect

LEED 2.0® Accredited Professional

Years of Experience:

26

Professional Affiliations:

Council of Landscape Architectural Review Boards

National Trust for Historic Preservation

Ms. Farrell has more than 25 years of diverse experience in the field of landscape architecture. Her abilities encompass all phases of landscape architecture from conceptual design and master planning through production of construction documents. Ms. Farrell's experience includes commercial and industrial facilities planning and design, institutional facilities design, open space planning, recreational facilities master planning, environmental planning, conservation development planning, Best Management Practices and natural resources management. Her extensive environmental planning experience includes creation and restoration of wildlife habitat, wetland mitigation design, stream bank stabilization and stream enhancement, and use of native plants. In addition, Ms. Farrell has completed data collection and plan preparation services for Forest Conservation Plans, including identification of existing species, analysis of stand diversity and structure, prioritization of tree stands, and plan preparation.

Ms. Farrell's relevant experience includes the following projects:

- Municipal Complex Design and Adaptive Reuse, Township of Derry, Hershey, PA.
- Pennfield Corporation Office Building Design-Build, Lancaster, PA.
- Design of Buchart Horn, Inc.'s Corporate Headquarters, York, PA.
- Design of Administrative Building Addition and Truck Entrance, Springettsbury Township, PA.
- Master Planning and Design of Municipal Complex, Spring Garden Township, York, PA.
- Addition of Two Courtyards and Privacy Screening Between Office Building and Residential Apartments, York Housing Authority, PA.
- Continental Insurance Company Office Building Design, York, PA.
- Civil Engineering for Hershey Center for Applied Research Building 2, Wexford Science and Technology LLC, Derry Township, PA.
- Public Works Center and Materials Recycling Facility Planning and Design, Township of Derry, Hershey, PA.
- County Courthouse Renovation, Dauphin County Commissioners, Harrisburg, PA.
- Berg Electronics, Valley Green Corporate Headquarters Office Facility Additions and Renovations, Emigsville, PA.
- Trexler Nature Preserve "Green" Environmental Center Design, Lehigh County, Allentown, PA.
- Marietta Pike Residential/Commercial Redevelopment Concept Plan, Nardo Properties, East Hempfield Township, Lancaster County, PA.
- United Parcel Service Distribution Center Expansion, Lancaster, PA.
- Kellogg Company Plant and Administrative Area Additions, Lancaster County, PA.

Eugene G Williams, PLS, CSI, CDT, ASPE

Cost Estimator

RESUME

Eugene G Williams, PLS, CSI, CDT, ASPE

Education:

Coursework/Civil Engineering
Technology

Registrations/Certifications:

Professional Land Surveyor
American Society of Professional
Estimators
Construction Specifications
Institute
Construction Documents
Technologist

Years of Experience:

44

Professional Affiliations:

American Society of Professional
Estimators
Construction Specifications
Institute

As Assistant Director of Specifications/Estimating Division, Mr. Williams directs and supervises the work of Specification Writers and Typists and prepares construction cost opinions relating to a variety of engineering projects. He is experienced in preparing both technical and non-technical project specifications and cost estimates from preliminary through final design phases. His experience includes generating architectural and engineering specifications as well as preparing front-end documents using AIA, EJCDC, and our own documents. Mr. Williams has also developed architectural and engineering cost estimates for numerous projects to ensure that projects remain within budget.

Mr. Williams' relevant experience includes the following projects:

- Transportation Security Administration Offices Design, Yeager Airport, Charleston, WV.
- Kanawha County Judicial Annex Renovations, Charleston, WV.
- Municipal Complex Design and Adaptive Reuse, Township of Derry, Hershey, PA.
- Mission Support Training Facility Design, USPFO for PA/Ft. Indiantown Gap, Annville, PA.
- Design of Municipal Services Center, Lower Allen Township, Camp Hill, PA.
- Design of Buchar Horn, Inc.'s Corporate Headquarters, York, PA.
- Design of Combined Army National Guard Readiness Center, Pennsylvania DGS/PA Army National Guard, Waynesburg, PA.
- Design of Montgomery County Police Vehicle Recovery Facility, Gaithersburg, MD.
- Feasibility Study for Expansion of Monongalia County Courthouse and Construction of New Intermodal Parking Facility, Morgantown, WV.
- Master Planning and Design of Municipal Complex, Spring Garden Township, York, PA.
- Public Works Center and Materials Recycling Facility Planning and Design, Township of Derry, Hershey, PA.
- County Administration Building Renovation, Dauphin County Commissioners, Harrisburg, PA.
- County Courthouse Renovation, Dauphin County Commissioners, Harrisburg, PA.
- Health and Human Services Building Office Space Renovation, Dauphin County Commissioners, Harrisburg, PA.
- Improvements to Corporate Headquarters Building, PA League of Cities and Municipalities, Harrisburg, PA.
- New Maintenance Garage, New Emergency Services Building, and Municipal Building Renovations, Hampden Township, PA.
- Berg Electronics, Valley Green Corporate Headquarters Office Facility Additions and Renovations, Emigsville, PA.

**Client:**

Central WV Regional Airport
Authority



Yeager Airport, Transportation Security Administration Offices

Buchart Horn was commissioned by the Central West Virginia Airport Authority to design secure administrative offices for the Transportation Security Administration (TSA), a division of the U.S. Department of Homeland Security. The Administration is responsible for airport baggage screening. The offices serve as management offices for the screeners at Yeager Airport, and also as the statewide center for TSA's airport security operations.

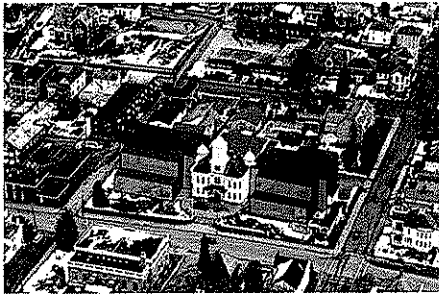
With an ideal location atop the existing 1950s-era concrete terminal building, the new offices have direct secure access via a new secure elevator.

An innovative solution was developed by Buchart Horn to add space on the existing rooftop of the 1940s terminal building. This created much needed office space (4,500 s.f.) immediately adjacent to the airport's executive offices, a requirement of the TSA, to allow close coordination of security, paramount in the event of emergencies. The solution includes:

- Biometric Security Devices
- Proximity Security Devices
- Director's and Administrative Offices
- Conference/Emergency Operations Area
- Outside Runway Observation Deck
- Secure Private Elevator
- Training Areas
- I.T. Room
- Network Servers
- Kitchenette and Breakroom
- ADA Compliant Rest Rooms

**Client:**

Lewis County Building
Commission



Lewis County Courthouse Annex Planning

Buchart Horn was commissioned to develop a comprehensive plan for a courthouse annex to support the services required by the citizens of Lewis County, West Virginia. The study focused on short-, medium-, and long-term programming needs and the evaluation of two sites, the existing District courthouse site and the historic Weston State Hospital.

All County-owned buildings were toured, as well as the main hospital building and the TB Ward building at the closed State Hospital. All County buildings were completely surveyed and documented as part of this report, including the structural, mechanical, and electrical systems. As a report existed on file, the State Hospital buildings were not surveyed.

Concurrent with the site investigation, all public officials and department managers were interviewed. The interviews revealed little potential growth over the next 20 years, which is consistent with the demographic profile of the county. All interviewees were very conservative with their growth projections. As a result, the current departmental structure with allowance for minor growth became the criteria for design.

The eventual recommendation made was for use of the existing Courthouse site, adding two balanced wings to satisfy the needed 60% overall increase in space while maintaining the symmetrical character of the structure. Recommendations were made to raze the existing jail structure and miscellaneous adjacent residential structures to accommodate new construction and off-street parking.



PE Tech Office Building

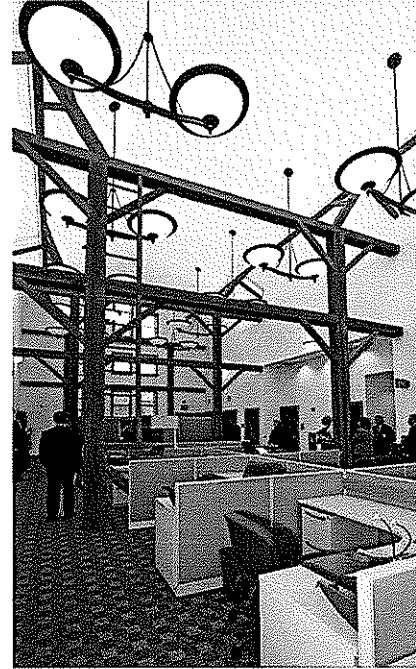
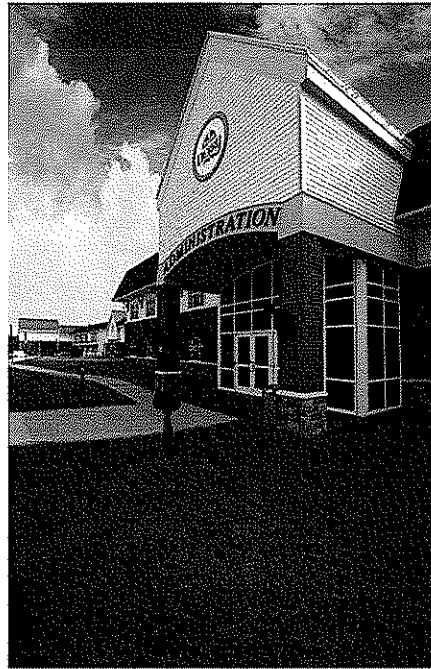
NorthGate Business Park is the perfect setting for this two-story, 12,000 square foot office building. Buchart Horn was approached by RPM Engineers to design an appropriate headquarters for their Charleston operation that would also include space to lease. The design and location became so appealing that Buchart Horn chose to lease the ground floor for their Charleston operations, with RPM occupying the top floor.



Planning, building design, site design, and construction of the project moved quickly, with design beginning in June of 2005 and the facility fully occupied, including an operating elevator, on December 15 the same year.



Quality and detail were not sacrificed in the process, as demonstrated when the West Virginia Associated Builders and Contractors presented Buchart Horn with an Excellence in Construction award for the Best New Construction Project in the under \$2 million category. The Honorable Joe Manchin, Governor of West Virginia, was the guest of honor at the ribbon-cutting ceremony, along with other dignitaries in attendance to watch the Governor present Buchart Horn with a certificate of achievement for our work.



Client:
Township of Derry ICDA

Derry Township Municipal Complex

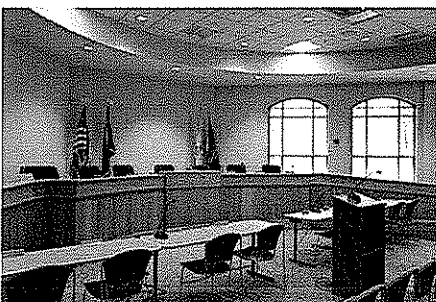
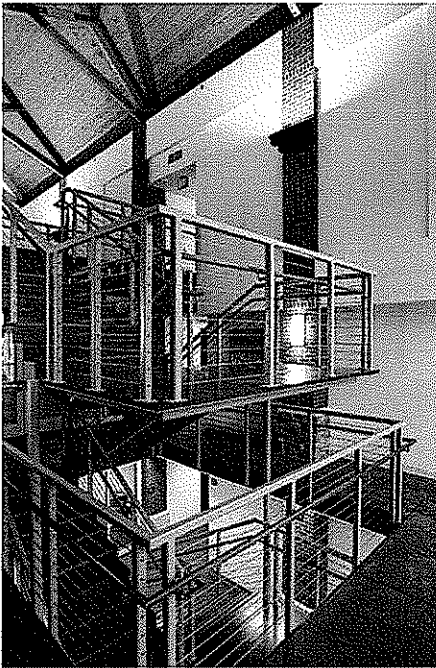
The former Township office was built only as a three- to five-year temporary location in 1993. In an effort to serve residents more efficiently, officials commissioned a space planning study and site analysis to determine the Township's specific office space needs and applicability of a specific prominent site to accommodate the needs identified.

This feasibility study resulted in the design of the Township of Derry Municipal Complex, allowing residents to access the Township offices, Emergency Management Center, Tax Association, and the Police Department, all on one site. The Municipal Complex is immediately adjacent to the Public Works and Recycling Center, also designed by Buchart Horn.

The consolidation and centralization of these services would support the services required by the Township's residents as well as the millions of visitors who come to the Hershey community, for which the Township is the responsible municipal services provider. Based upon the growth and service needs projection over the next 15+ years, the new Municipal Complex design allows for flexibility as the Township grows and also incorporates safety and security measures throughout the complex.

The project involved renovations (33,100 sf) and additions (44,000 sf) to three former Milton S. Hershey School buildings, preserving the Hershey legacy and providing savings to the Township.

Buchart Horn assessed the site access, usefulness, systems, and load-bearing potential of each building for reuse or expansion. From traditional rancher-style residential construction to the voluminous, yet quirky timber-frame layout of the barn, the design team had its challenges. Overall, however, these buildings were in very good condition and were considered for adaptive renovation as well as





additions to meet the programmatic requirements.

After discussing space needs with Township departments, Buchart Horn provided multiple room and workspace configuration options to maximize the efficiency of municipal functions. In addition, Buchart Horn's in-house design team assessed and designed new strategies for pedestrian access, vehicle access, parking, lighting, energy efficiency, signage, landscaping, ventilation, and hazardous material remediation.

Another major improvement provided for in the design was Information Technology, which allowed the Township to consolidate several servers and systems. Beyond designing for the systems across three separate buildings, Buchart Horn was able to improve data networking and telecommunication systems across the Township's functional departments and extend them to the Township's Public Works, Library, and Recreation Center as well.

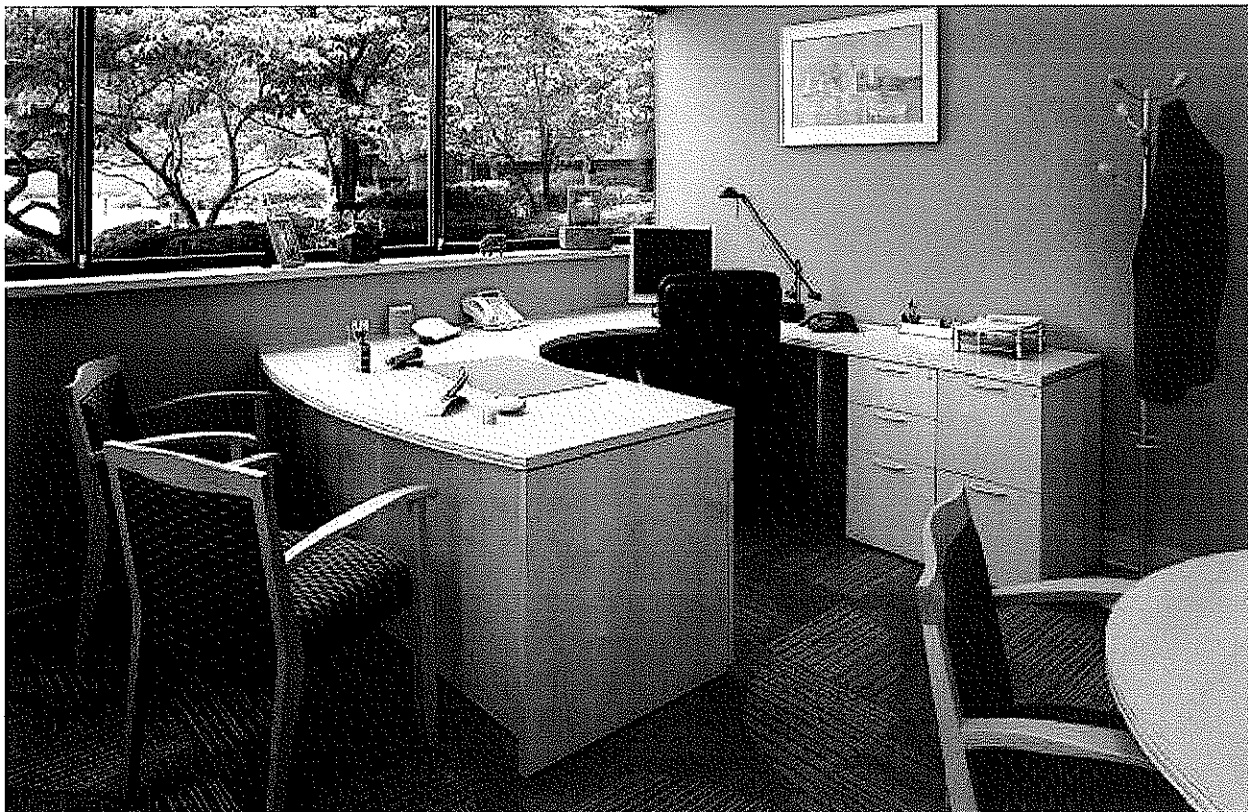
Safety and security design considerations were especially important in providing for the Police Department's office (41,500 sf) needs. To this end, careful planning and design elements were selected to comply with Commission on Accreditation for Law Enforcement Agencies (CALEA) standards. These elements include provisions for holding facilities; fire, heat, and smoke detection systems; firearm security measures; control points; sight and sound separation; A/V surveillance; communications center security; and alternate power sources, as well as the proper considerations for securing storage of property from both detainees and evidentiary property. Controlling access both from the exterior and among interior spaces was also incorporated into the design.

The electrical systems design provided a challenge to the Buchart Horn engineers as they designed the most economical power distribution (campus) method and utilization voltage to provide service to all the facilities on the site.

The electrical system includes two emergency generators that support full-time operation of the entire three-building complex to serve as an evacuation center in the event of an extreme emergency.

PROJECT

Derry Township Municipal Complex



Client:
Confidential Client

Office Complex Renovation Mechanical, Electrical, and Plumbing Services

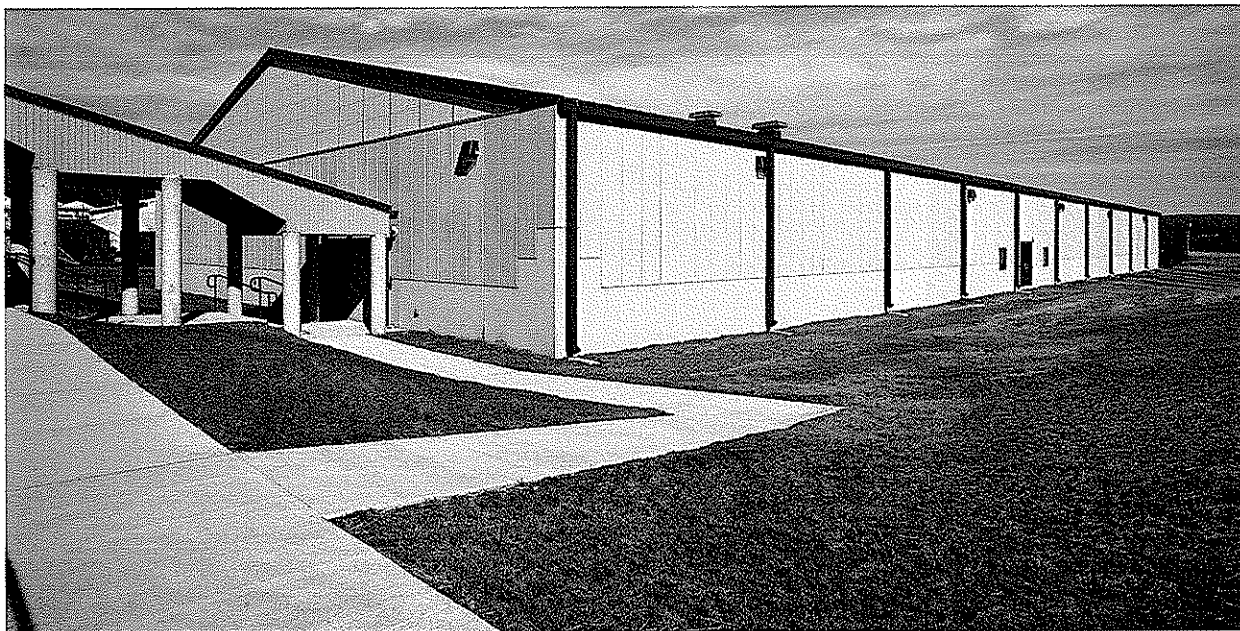
Buchart Horn, Inc. worked as a subconsultant for a confidential client to complete a 16- phase renovation of a 612,000 SF office complex in Camp Hill, Pennsylvania.

As the complex's first major interior renovation, the design goal was to update the existing early 1980s design to achieve LEED® Certification while meeting today's standards for workstations, architectural materials, maximum floor plate efficiency and building systems. Configured for office use, the campus houses 2,300 employees in four buildings that are joined by elevator lobbies and ground floor circulation connections.

In addition to office and workspace renovations, the firms were also responsible for the renovation of a 300-person auditorium and several conference rooms, custom casework and the development of all new building standards for furniture, fixtures, equipment, and lighting.

Engineering services included the upgrade and installation of the following systems: HVAC; power and lighting, fire protection and life safety; decommissioning and removal of existing UPS; installation of two new UPS systems and associated power distribution; integration of telephone, data and communications; security; chilled water system; air conditioner replacement and structural evaluation and improvements.



**Client:**

U.S. Property & Fiscal Office

Mission Support Training Facility Design, Ft. Indiantown Gap

Buchart Horn Inc. provided conceptual through 100% designs for a 24,000 ft² Mission Support Training Facility (MSTF) located at Fort Indiantown Gap, Pennsylvania. This facility serves as the command and control training facility centerpiece for the 28th Division's Stryker Brigade Combat Team. Units may conduct individual automation training and up to brigade sized, classified command and control training exercises in this facility. This facility is able to handle all of the Stryker Brigade's advanced and extremely sophisticated telecommunications needs.

The Administrative Area is an open space area outfitted with modular furniture for contracted support staff. After Action Review (AAR) Areas provide flexible swing space for conducting AARs or for use in supporting simulation and collective C4I training exercises. Individual office areas, a break/kitchenette area, conference room, and latrines are also provided within the facility. The existing utilities of neighboring facilities required deliberate planning and routing to ensure disruptions and encroachments were minimized while providing full service to the MSTF.

The building is certified for the "Gold" level of USACE Sustainable Project Rating Tool (SPiRiT) certification, leveraging an Energy Star compliant standing seam metal roof system, sandwich construction pre-cast wall panels, Kalwall ambient lighting systems in the endwalls, low maintenance aluminum window and door frames, innovative site design, and high energy efficiency and Johnson controls for its HVAC systems.





Client:

Buchart Horn, Inc./BASCO Associates

Buchart Horn, Inc.'s Corporate Headquarters

Adaptive reuse, the rehabilitation and renovation of existing structures for new uses, is the cornerstone of inner city revitalization programs. One such project is the adaptive reuse of the former inner city air conditioner manufacturing complex of Borg Warner, now owned by the York County Industrial Development Corporation (YCIDC). Built in 1905 and vacant since the mid 1970s, this York City complex encompasses 1,000,000 square feet in 7 buildings on 6.2 acres. Completed in late 1995, the complex houses office and light manufacturing space.

One building within this complex was designed as the Buchart Horn, Inc.'s corporate headquarters. Leased from YCIDC, this 57,000 square foot facility consolidates the company's operations in York from five separate buildings to a single location for 230 plus employees.

Buchart Horn conducted multiple system analyses including chiller type, optimizing size of chiller to probable normal and peak loading, sound isolation, and freeze-proofing.

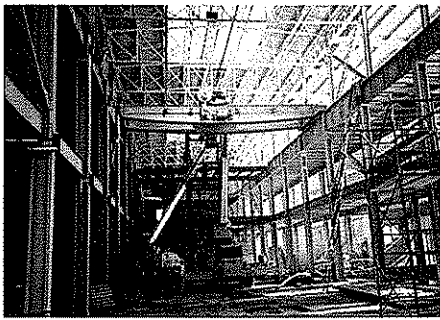
Architectural

In designing the renovations, care was taken to maintain the original character of the 1907 industrial building. Buchart Horn's design included restoration of the historic facade fronting Philadelphia Street and interior renovations featuring a center atrium, an exposed elevator, a historic overhead crane, and exposed mechanical and electrical distribution systems. Exterior features include a new 20 space street level entrance/parking deck that partially covers an 80 space ground level parking area, a new entrance tower, and a new facade street wall.

Electrical

We completely replaced the electrical system and added new inside and outside lighting, power distribution and service, a





Cat 5 communications and data system, a fire alarm system, and back-up power generator.

Mechanical

Mechanical design included high efficiency condensing boilers, air cooled chiller, variable air volume (VAV) air handlers with fan powered VAV boxes, wet pipe sprinkler system, and plumbing. The ATC system resets the chilled water temperature to match the load and increase electrical efficiency.

Structural Work

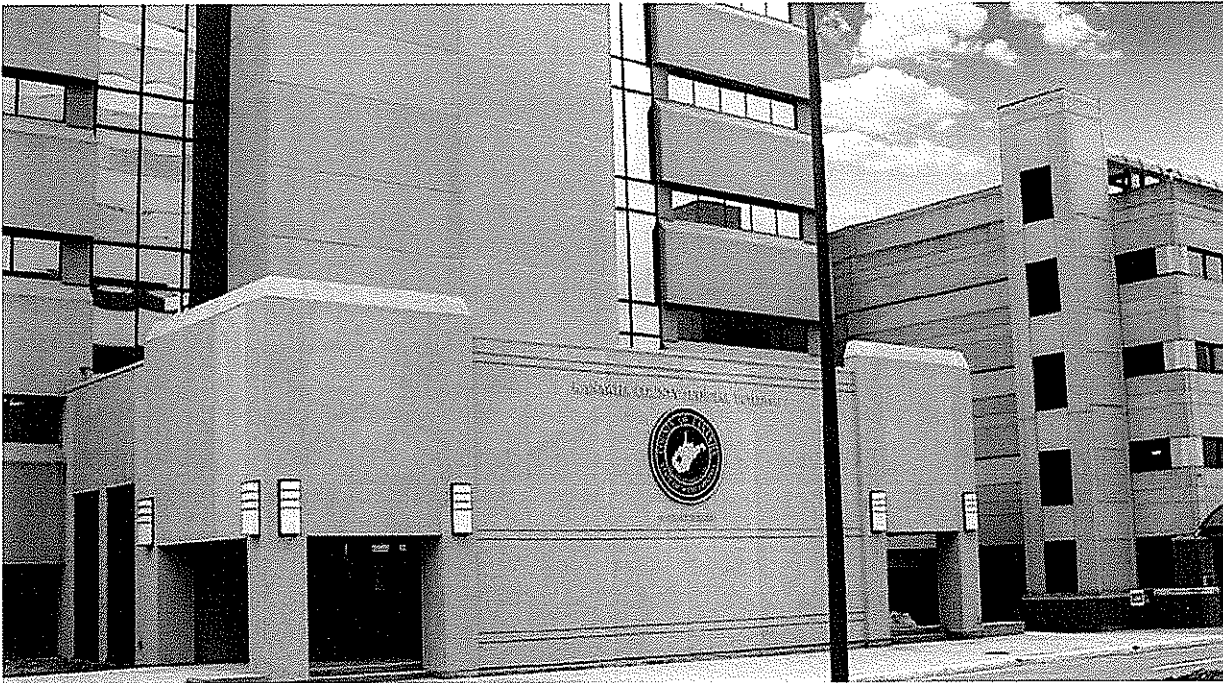
Original framing members were complemented with new structural steel framing at the central stairs, elevator, service stairs, connecting catwalks, mechanical chases, and in fill areas. Original wood decks at 2nd and 3rd floors were replaced with cast in place concrete floors over composite metal deck.

Construction Management Services

Construction management services were divided into two separate phases: pre-construction and construction. Preconstruction phase management responsibilities included preparing detailed construction cost estimates; value engineering review of alternative materials and systems; design review during development; providing a bi-weekly project schedule; providing recommendations regarding safety and temporary facilities; advising on the separation of the contract into contracts for various categories of work; and bidding phase services.

Our construction phase management responsibilities included coordinating the contractors, conducting project meetings, and maintaining job records and documents.





Client:
Kanawha County Commission

Kanawha County Courthouse Renovation

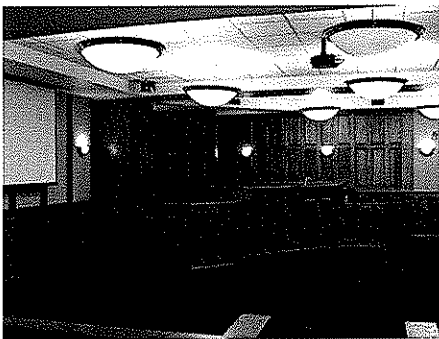
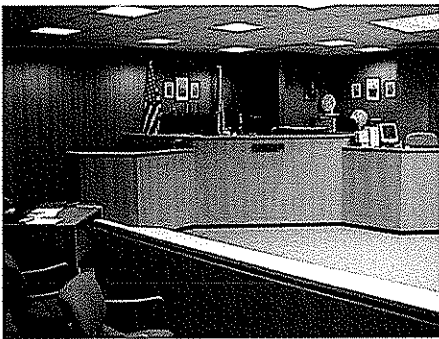
Buchart Horn, Inc. was commissioned to prepare an Initial Planning Study, describing immediate and short-term needs; a Comprehensive Plan projected five to ten years into the future; and to design the renovations and additions to the existing Judicial Annex.

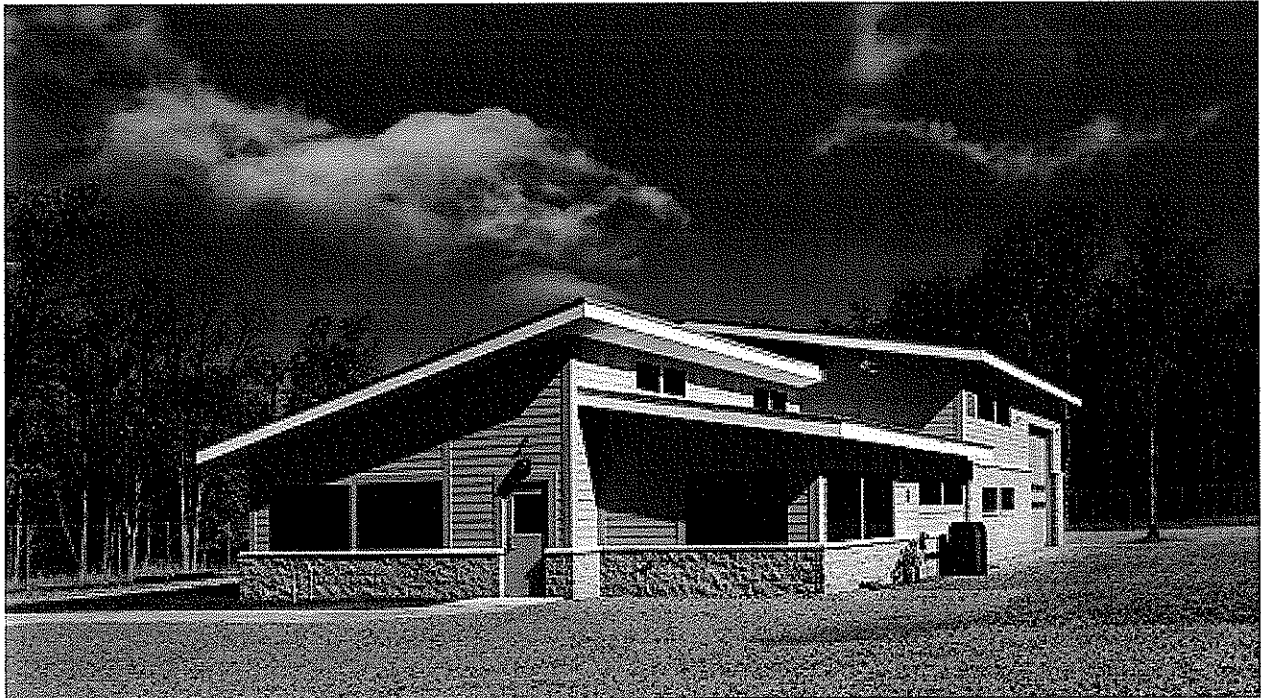
The project focused on a new entrance, security checkpoint, and lobby to alleviate a very overcrowded situation; renovations to seven courtrooms to improve function and image; renovations to the associated judicial suites to assure proper circulation, functionality, and security; and a building expansion for Juvenile Probation and a newly established Family Court.

Renovations included seven Circuit Court courtrooms; jury deliberation restrooms; Court Clerks offices and public research area; adult probation offices; Court Administration offices; and all public areas. Additions included main entrance, security vestibule, and lobby; Voter Registration work room; four Family Court Suites; holding cell; and a central security control room.

Support services and building infrastructures improvements included new and modified HVAC systems, with VAV boxes and controls; complete voice and data wiring systems, including wiring for LAN; new power distribution for clean and normal power; and new lighting systems that complement the computer environment.

Building security improvements included a central security control room; security vestibule with screening stations; closed circuit monitoring and card access admission systems; secured private judges suites connected to a private elevator; secured prisoner transfer; emergency call system; and development of a policy and procedure manual.





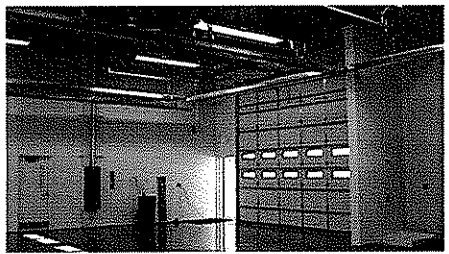
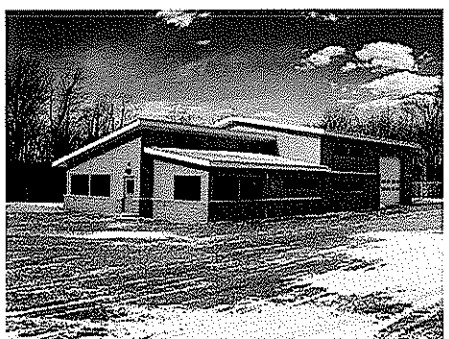
Client:
Canaan Valley Institute

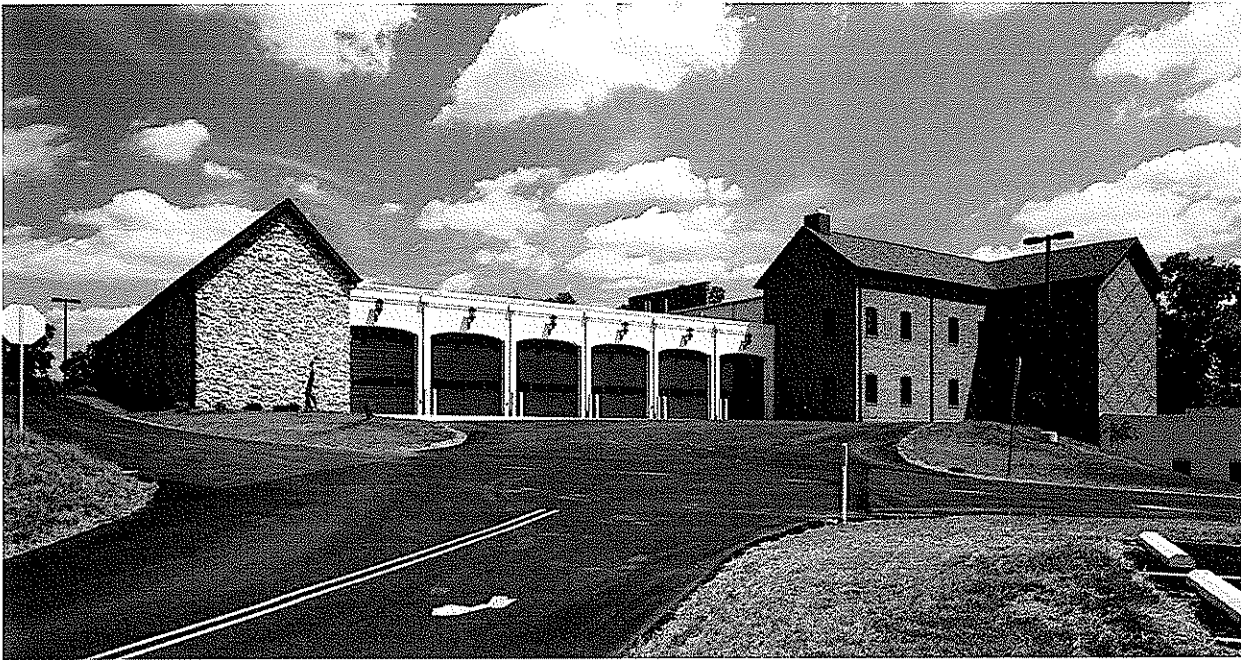
Research Support Facility, Canaan Valley Institute

True to its mission, the Canaan Valley Institute (CVI) wanted its new Research Support Building to have a minimal environmental impact. CVI is a nonprofit group that helps communities improve the quality of life in their watersheds by restoring aquatic resources using cost effective, locally determined solutions.

Buchart Horn designed CVI's 3,750-ft² Research Support Building in Davis, WV to assist the Institute in its efforts to improve the environment, as well as allow them to be good stewards of their adjacent properties. The new research support facility is used to maintain equipment and oversee several hundred of the Institute's surrounding acres. The facility includes administrative offices, a shop bay with hoist, and a drive-through bay as well as areas for storage, lockers, showers, and shop space. A 1.5-acre fenced storage area is adjacent to the building. In keeping with the mission of the Canaan Valley Institute, the building is registered with the United States Green Building Council and is on track for certification through its LEED® program.

Buchart Horn's designers created a low-impact building with features that include a microturbine for generating electricity, waterless and high efficiency plumbing fixtures and sanitary systems, and radiant heating systems in high bay areas. The one story "green" building includes a Follansbee roof system and was constructed using LEED - certified construction methods, as well as recycled and regionally available building materials.





Client:
Lower Allen Township

Municipal Services Center, Lower Allen Township

Lower Allen Township needed a new Municipal Services Center to more efficiently accommodate police, fire, and emergency medical services and Township's administrative offices. The new facility needed to include an emergency operations center, space for community activities and meetings, and an area equipped with a wireless Internet connection for the Township residents.

The need for additional space had been evident for a long time. The previous municipal building, built in 1936, had been expanded twice. During this time, various departments moved out of Township facilities into leased spaces at significant additional cost. In addition, the numerous additions and adaptations resulted in multiple boilers and air conditioning systems, for which maintenance costs had steadily increased.

The new building design includes 45,990 square feet of work, storage, and public space - adequate to take Lower Allen Township well into the future.

Buchart Horn/BASCO Associates proposed a design concept to which staff quickly responded. Long before the railroad was built, a road ran diagonally through the property from Carlisle Road to Old Gettysburg Road. Designers proposed a mall-like "interior street" within the building, running generally along the path of the old road, with various Township departments and services arrayed and accessible along either side.

Police, EMS, and Fire Department operational staff are housed on the mid- and upper levels of the building, with their apparatus garaged on the mid-level, providing prompt access to Gettysburg Road. The property is accessible from both Gettysburg and Carlisle Roads, with the Gettysburg Road driveway aligned with entrance to the Lower Allen Shopping Center and signaled.





Client:
Montgomery County, MD

Montgomery County Police Vehicle Recovery Facility

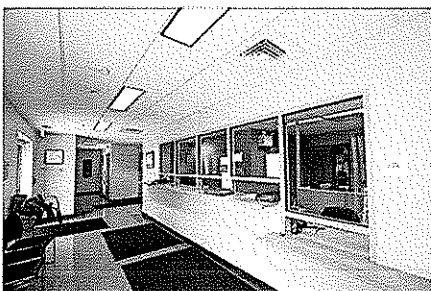
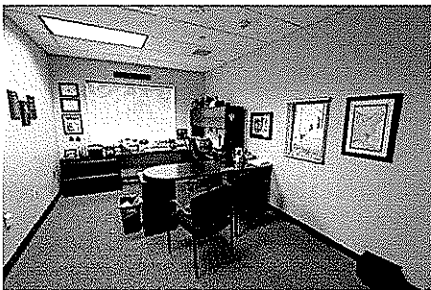
The Montgomery County Department of Police processes thousands of vehicles per year in apprehension of suspects, in relation to suspected crime, or in removing inoperable vehicles from streets. This service is time demanding and expensive. Currently, these services are provided from various locations throughout the County. Staff travel and towing of vehicles among the various locations waste both time and money. To address these issues and more efficiently process vehicles, Montgomery County proposed the construction of a multi-service processing facility.

Buchart Horn designed a new multi-service facility which included a two-story police office building, a four-bay garage, and additional flat parking on a 10-acre site. The two-story office building was designed to be approximately 8,650 square feet with an attached 2,772-square-foot Vehicle Storage/Investigation Lab.

Design of the building and parking area included architectural, mechanical, electrical, geotechnical, structural, civil, cost estimating, specifications, and surveying services.

Buildings and systems were designed to most stringent energy design guidelines established by the County, as well as compliance with ASHRAE 90.1-1999 energy standard and International Building Codes.

Based on energy analysis and life cycle cost analysis, HVAC system for the Vehicle Storage/Investigation Lab was designed as a DX split system constant volume modular air handling unit and a DX split system with VAV modular air handling unit for the offices. Lighting, power, telephone, cable TV, emergency lighting, fire alarm, card access management control, security alarm, CCTV, and data wiring distribution systems were incorporated into the electrical systems.





Client:

Pennsylvania Department of
General Services



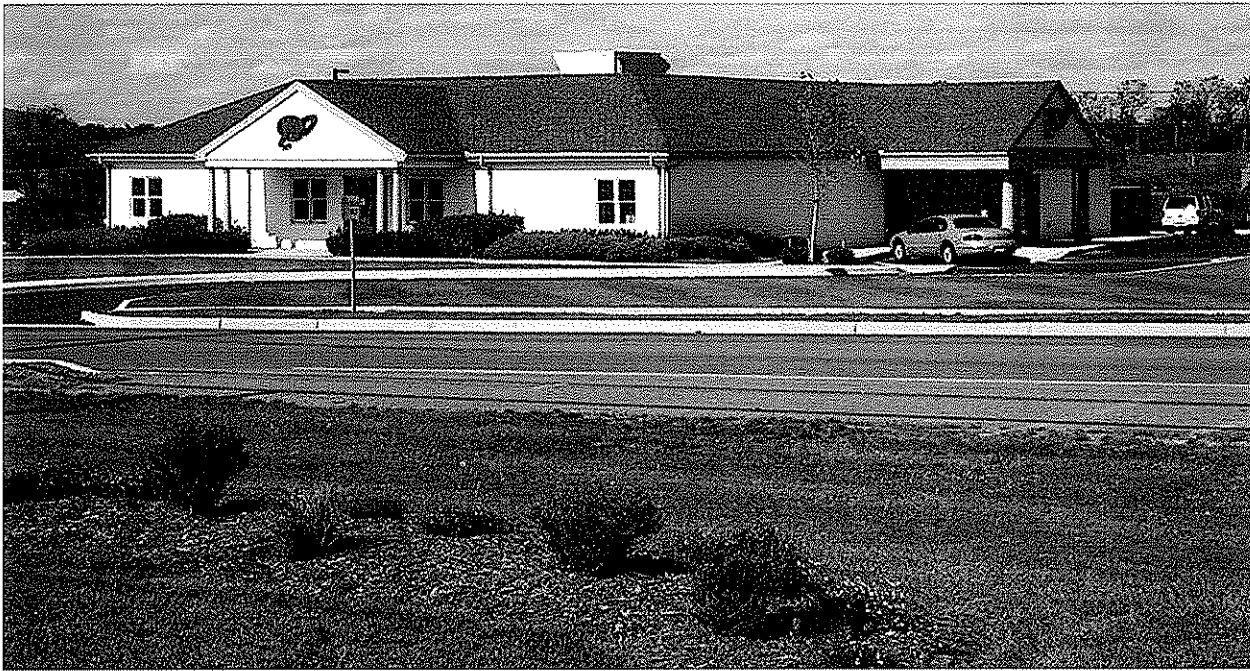
Combined Readiness Center, PA Army National Guard

Buchart Horn, Inc. designed a \$7.7 million, 122-person Readiness Center in Waynesburg, Greene County, Pennsylvania. The 38,000 square-foot center serves the peacetime missions of the assigned unit, permitting personnel to perform tasks necessary to improve the unit's readiness posture. The \$7.7 million dollar facility serves as a model Readiness Center for the Reserves in the Commonwealth and leverages Buchart Horn's sustainable design engineering experience.

Space programming for the facility includes:

- Assembly Hall: 6,200 SF meeting and assembly area with sound system and energy efficient lighting
- Training Device Simulation area
- Unit storage and vault area: Secure storage space for unit equipment and sensitive/high value items
- After Action Review (AAR) and Classroom Areas
- Individual Mechanical/Electrical and Communication rooms
- Kitchen, Scullery and Food service area
- Workout center, Latrines, Showers and Locker room areas

The Readiness Center is designed in accordance with current Army National Guard design standards (Design Guide 415 series) and is employing a LEED® certification process for sustainable design. The building consists of a simple split faced block cavity wall system, low maintenance aluminum window and door frames, innovative site design and high efficiency/DDC-controlled HVAC systems. The building also incorporates locally produced materials and emphasizes reused and recycled material throughout the facility.



PROJECT

American Automobile Association (AAA), Office Expansion and Renovation

Client:

AAA Motor Club

American Automobile Association (AAA), Office Expansion and Renovation

AAA's 2,000-square-foot State College Customer Service Building served its purpose well, but growth and resident and student populations overran its capacity, especially when students arrived for Penn State's fall-semester. Members and customers had to wait in lines that extended out into the parking lot.

Buchart Horn's solution was a 4,600-square-foot addition, tripling the size of the building. Like the original building, the addition is a one story, wood-framed structure, sided with vinyl and with a shingled hip roof that conceals the HVAC equipment.

To help AAA provide its services uninterrupted, and because the work had to be completed for the influx of fall-semester students, the facility had to be completed by mid-August 2006. Construction was thus planned and executed in two phases. The design included temporary framing to provide support and keep the occupied portion of the building continuously under roof during the phases; design of the HVAC zones also accommodated the phasing.

The firm's services included architectural, mechanical, plumbing, structural, electrical, and site civil, from concept through construction administration, as well as obtaining the necessary state, county, and municipal approvals.

Site civil added an overflow parking lot surrounded by a grass-covered geogrid, creating a pervious area that would retain and recharge runoff, eliminating the need for a larger detention basin or piping the runoff off-site.



Client:
Farallon Real Estate

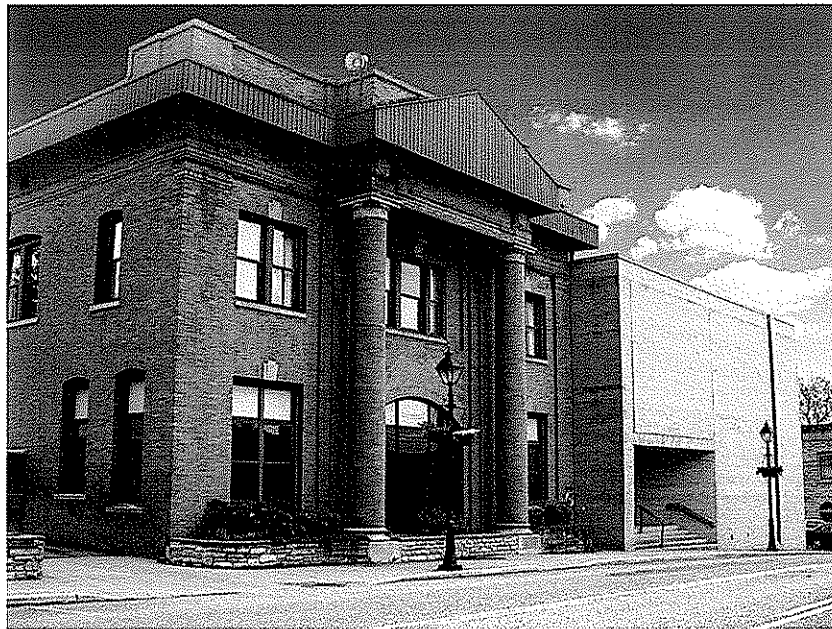
Pennfield Corporate Office Building Design

Redevelopment of a 2.95-acre site with six existing buildings into a corporate center with additional retail and commercial tenants including a bank and pharmacy. The design/build team for this project was composed of Farallon Real Estate, Buchart Horn and Wagman Construction. Farallon provided the capital, Buchart Horn provided the technical services, and Wagman was the general contractor.

Pennfield Corporation is the major tenant for converting an old 35,000-square-foot feed mill into a state of the art, 21,000-square-foot corporate headquarters building.

The project included site design that incorporated access to two State Highways. Landscaping and stormwater control were also designed by Buchart Horn.

PROJECT
Pennfield Corporate Office Building Design



Client:
Preston County Commission

Preston County Administrative and Judicial Facilities Space Needs Analysis and Design

Preston County hired Buchart Horn to perform a space needs analysis and a facilities inventory and assessment of their current facilities; as well as perform a feasibility study for remodeling a former bank building across from their courthouse into a County Administrative Office building.

Results from the study concluded this idea was indeed feasible and would be financially beneficial to the County for several reasons: the existing County space would be relieved of overcrowding, the County would no longer have to rent space, and administrative offices could be consolidated and located adjacent to each other on one floor. The renovated modernized offices would be designed for their respective functions instead of 'making-do' with existing space. With unanimous approval, Buchart Horn was asked to continue into making the necessary modifications to the buildings.

Phase 1 was the remodeling of the bank building into a County Administrative Annex. This 22,300-square-foot building has three floors and now houses the following County functions: Assessors Office, the County Clerk and Records Rooms, the Sheriff's Tax Collection Office, the Prosecutor's Office, the Health Department, and the County Commission.

Phase 2 included remodeling of the historic travertine marble courthouse. This portion of the project included three floors of space with a total area of 21,600 square feet. The courthouse is now occupied by: the Circuit Court, the Magistrate Court, the Family Law Court and the Probation Department.

Security was a key component of the design solution providing secure separate corridors and exits for Judges and staff as well a security screening vestibule at the primary entrance.

