

Qualifications to Provide:

**Architectural/Engineering  
Services for Needs Assessment  
for 55 County Courthouses**

**ORIGINAL**



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November 15, 2011

Mr. Frank Whittaker, Senior Buyer  
State of West Virginia  
Department of Administration, Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305-0130

Reference: Expression of Interest  
Professional Architectural/Engineering Services  
55 County Courthouse Needs Assessment  
CFA100611


Dear Mr. Whittaker:

Buchart Horn, Inc. presents our qualifications to provide architectural and engineering services for needs assessment of all 55 county courthouses in the State of West Virginia. Buchart Horn is a full service architectural and engineering firm offering extensive assessment and study experience.

Having performed architectural and engineering design services on various County Courthouses in West Virginia, we are completely familiar with the requirements of the Secretary of the United States Department of the Interior's. Our experience also includes working closely with the State Historic Preservation Office to ensure that their requirements are satisfied.

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 (800) 274-2224. 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.**



Anthony J. Shinsky, AIA, LEED AP  
Vice President of Facilities

Liberty Technology Center || Suite 300 || 2200 Liberty Avenue || Pittsburgh, PA 15222-4502  
T: (412) 261-5059 || F: (412) 261-4168 || E: [corpinfo@bh-ba.com](mailto:corpinfo@bh-ba.com)  
[www.bh-ba.com](http://www.bh-ba.com)

Pennsylvania | Louisiana | Maryland | Mississippi | New Jersey | Tennessee | West Virginia | Germany





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
CFA100611

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1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER 304-558-2316

RFQ COPY

TYPE NAME/ADDRESS HERE

VENDOR

Buchart Horn, Inc.  
 Liberty Technology Center  
 Suite 300  
 2200 Liberty Avenue  
 Pittsburgh, PA 15222-4502

SHIP TO

COURTHOUSE FACILITIES  
 IMPROVEMENT AUTHORITY  
 550 EAGAN STREET, SUITE 208  
 CHARLESTON, WV  
 25301 304-558-5000

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
10/19/2011				

BID OPENING DATE: 11/16/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL  EXPRESSION OF INTEREST (EOI)  THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA COURTHOUSE FACILITIES IMPROVEMENT AUTHORITY, IS SEEKING EXPRESSIONS OF INTEREST (EOI) FOR ARCHITECTURAL/ENGINEERING SERVICES TO PRODUCE A NEEDS ASSESSMENT TARGETING THE 55 COUNTY COURTHOUSE BUILDINGS PER THE ATTACHED SPECIFICATIONS.  ALL TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WV PURCHASING DIVISION VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV OR VIA FAX AT 304-558-4115. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 11/03/2011 AT 4:00 PM. ALL TECHNICAL QUESTIONS WILL BE ADDRESSED BY ADDENDUM AFTER THE DEADLINE.  EXHIBIT 1  LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON ..... AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.						

SIGNATURE			SEE REVERSE SIDE FOR TERMS AND CONDITIONS		TELEPHONE	DATE
TITLE Vice President of Facilities			FEIN 23-1498326		(800) 274-2224	11/15/11
ADDRESS CHANGES TO BE NOTED ABOVE						

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





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<p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT BY THE STATE OF WEST VIRGINIA, ITS AGENCIES OR POLITICAL SUBDIVISIONS, THE TERMS, CONDITIONS AND PRICING SET FORTH HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) SUCCESSIVE ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICE SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK).</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER NOTICE</p>						

SIGNATURE				TELEPHONE (800) 274-2224		DATE 11/15/11
TITLE Vice President of Facilities		FEIN 23-1498326		ADDRESS CHANGES TO BE NOTED ABOVE		

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<p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION            PURCHASING DIVISION            BUILDING 15            2019 WASHINGTON STREET, EAST            CHARLESTON, WV 25305-0130</p> <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: 44</p> <p>RFQ. NO.: CFA100611</p> <p>BID OPENING DATE: 11/16/2011</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:</p> <p>---(717)852-1619---</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):            Anthony J. Shinsky, AIA, LEED AP, Vice President of Facilities</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
	(800) 274-2224	11/15/11

TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Vice President of Facilities	23-1498326	

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***** THIS IS THE END OF RFQ CFA100611 ***** TOTAL: _____						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE (800) 274-2224	DATE 11/15/11
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TITLE Vice President of Facilities	FEIN 23-1498326	ADDRESS CHANGES TO BE NOTED ABOVE
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RFQ No. CFA100611

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; 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: [Signature] Anthony J. Shinsky, AIA, LEED AP Date: 11/15/11

State of Pennsylvania

County of York, to-wit:

Taken, subscribed, and sworn to before me this 15 day of November, 2011.

My Commission expires April 26, 2013.

**AFFIX SEAL HERE**

NOTARY PUBLIC Linda L. Brown

COMMONWEALTH OF PENNSYLVANIA  
Notarial Seal  
Linda L. Brown, Notary Public  
City of York, York County  
My Commission Expires April 26, 2013  
Member, Pennsylvania Association of Notaries



# CONTENTS



CONCEPT

FIRM/TEAM QUALIFICATIONS

PROJECT ORGANIZATION

DEMONSTRATED EXPERIENCE

## CONCEPT

Buchart Horn's multi-discipline team of professionals has significant experience in conducting building evaluation studies for institutional, commercial, military and municipal clients. These comprehensive evaluations were used to develop recommendations for repairs, maintenance and replacement or additions of facilities and equipment.

The State of West Virginia has requested a licensed Architectural/Engineering firm to conduct a staffing and inventory and assessment of current and projected Courthouse needs. The scope of work includes evaluation of 55 county courthouse buildings with ten priority categories. These priorities will be evaluated based on the business and services being provided in each county courthouse.

The Buchart Horn team has extensive experience and expertise working on behalf of public clients in the performance of facilities assessments. Buchart Horn is able to modify successful interview questionnaires, programming charts and reports in order to meet the project schedule.

All projects begin with the establishment of an effective team to develop task lists and form effective solutions. The team begins with the client, and more specifically, the State of West Virginia and the County Courthouse facilities. Our approach will involve county staff from the outset from the initial field investigation work through the involvement of the evaluation and space planning process.

The Buchart Horn team will provide a detailed report using visual inspections, photographs and a verbal narrative of deficiencies and repair and maintenance recommendations from courthouse personnel. The team will develop basic floor plans for the intent of locating deficiencies, roof evaluations and space planning documentation. With these plans, we ensure each team member used a consistent location when completing the evaluation. Construction floor plans for new construction are not part of the proposal.

Buchart Horn staff will conduct interviews with key Courthouse personnel to assess key issues to be addressed in the overall needs assessment study. The project team will inventory space allocations, conduct a facility conditional assessment for all county courthouses, identify courthouse issues which impact immediate and long-term faculty needs and establish the potential costs associate with those recommendations.

The field assessment will assume access to all components of the buildings will be provided by the state of West Virginia. Access may include all rooms and removing ceiling tiles as required. Elements not made visible to the team will not be included in the report. Evaluation will be accomplished by the following tasks:

- Assessment of the structural integrity of each facility, including floors, roof and roof framing systems, building envelope, exterior wall assemblies, windows and other physical characteristics of each building
- Assessment of any maintenance needed to remediate current deficiencies
- Assessment of the interior finishes and substrates such as wall, floors, insulation, ceilings, doors/hardware and casework/millwork



## CONCEPT

- Assessment of all mechanical systems, including HVAC, plumbing, fire suppression and elevators if applicable
- Inspection of electrical systems, including the identification of current deficiencies in such items as panels, circuit breakers and/ or fuses, disconnect switches, wiring/conduit, expandability, lighting fixtures, receptacles, as well as data and communications wiring and equipment
- Identifications of life safety issues, with recommendations to remediate all identified deficiencies
- Evaluation of current Americans with Disabilities Act requirements within all county courthouse facilities including doors, interior mobility, electrical systems, amenities and parking
- Identify suspected hazardous materials that may need to be addressed and/or corrected prior to the completion of any renovation at each individual location


Each deficiency will be assigned a priority based on the level of urgency required to correct it. The priority ratings range from 0 to 3. If there is no deficiency, but a specific evaluation was completed, the area is assigned priority "0" or "no" deficiency. Actual deficiencies are assigned as follows:

- 1 - Low (can be accomplished when time or budget is available)
- 2 – Moderate (deficiency should be corrected but does not present a safety hazard or cause other problems)
- 3 – High (deficiencies of safety concern)

The product of this task would be a detailed summary of the physical condition of each courthouse facility, remediation steps to meet relevant codes and standards and costs, as well as the ability of the building and/or site to accommodate new construction. A detailed description of high priority life safety issues will be clarified and will be listed by county.

## FIRM/TEAM QUALIFICATIONS

- 1. Provide the name, address, phone number, e-mail address, and signature of the firm's contact person responsible for the project and having full authority to execute a binding contract on behalf of the firm submitting the proposal.**  
Anthony J. Shinsky, AIA, LEED AP, Vice President of Facilities  
The Russell E. Horn Building  
445 West Philadelphia Street  
York, PA 17109  
(800) 274-2224


- 2. Provide the names, function, and resume of individuals within the lead firm's organization who will be assigned to this project.**  
Please see resumes immediately following this page.
- 3. Individuals assigned to the 10 Areas of Priority.**  
Life Safety: Uday N. Patel, PE, LEED AP  
Structural Improvements: James M. California, PE  
Roofing: Stephanie A. Schaefer, AIA, LEED AP  
Electrical/Data: Jeffrey B. Moreland, PE  
Exterior Improvements: Stephanie A. Schaefer, AIA, LEED AP  
Interior Improvements: Stephanie A. Schaefer, AIA, LEED AP  
Mechanical (HVAC/Plumbing): Russell R. Oft, Jr., PE  
Doors and Windows: Stephanie A. Schaefer, AIA, LEED AP  
Accessibility: Stephanie A. Schaefer, AIA, LEED AP  
New Construction/Space: Stephanie A. Schaefer, AIA, LEED AP
- 4. Provide a statement of the firm's ability to handle the project in its entirety.**  
Buchart Horn, Inc. is able to handle this project in its entirety.
- 5. Provide a statement of the firm's acceptance and full understanding that any and all work produced as a result of the contract will become property of the Agency and can be used or shared by the Agency as deemed appropriate.**  
Buchart Horn, Inc. fully understands and accepts that any and all work produced as a result of the contract will become property of the Agency and can be used or shared by the Agency as deemed appropriate.
- 6. Provide evidence that the firm is current in their licensing and education requirements in conformance with all local, state, and Federal regulations applicable to courthouse facilities.**  
Buchart Horn is currently licensed to do business in the State of West Virginia.
- 7. Provide a description of any litigation or arbitration proceedings, including vendor complaints, filed with the State's Purchasing Division.**  
Buchart Horn has not had any litigation or arbitration proceedings, including vendor complaints, filed with the State's Purchasing Division.



## PERSONNEL

### **Anthony J. Shinsky, AIA, LEED AP**

*Principal-in-Charge*

#### **Education:**

Bachelor of Architecture/  
Architecture/Temple University

#### **Registrations/Certifications:**

Registered Architect/PA/1993

Registered Architect/MD/1989

Registered Architect/NJ/1997

Registered Architect/VA/1994

Registered Architect/FL/2008

National Council/Architectural  
Registration Boards/1997

LEED AP/2005

#### **Years' Experience:**

23

#### **Professional Affiliations:**

American Institute of Architects

National Council of Architectural  
Registration Boards

Pennsylvania Society of  
Architects/Central Pennsylvania  
Chapter

Society of American Military  
Engineers

US Green Building Council

As the Principal-in-Charge on this project, Mr. Shinsky will meet regularly with the 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 the 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 the QA/QC Officer and coordinate with the Project Manager and QA/QC Officer any action to be taken to maintain excellent performance standards.

**New Lewis County Courthouse Annex, Weston, WV.** Design of an addition of up to three stories for a maximum of 30,000 SF attached to existing west side of Courthouse on First Street. Scope included demolition of the Arnolds/Edwards House and the garage/apartment building behind same, and limited renovations to existing historic Courthouse (sprinkler system for all floors and expansion or reconfiguration of County Clerk space and Circuit Clerk space).

**Yeager Airport Terminal Renovations, Central WV Regional Airport Authority, Charleston, WV.** Design and construction services for various improvements to Terminal Building and other landside facilities at Yeager Airport, including new baggage carousel, flooring and rest room upgrades, new canopy covering the entrance area to the airport, and new covered, elevated walkway connecting the terminal to the parking building.

**Rappel Tower and Leadership Reaction Course, West Virginia Army National Guard/US Army Corps of Engineers, Camp Dawson, WV.** Design and construction administration for a rappel tower, field leadership reaction course, and associated facilities, including an AAR shelter, storage building, control/medical pavilion, latrine, utilities, parking, and demolition of existing facilities.

**Mountain State University, Feasibility Study for New Multi-Level Parking Facility with Student Center and Gymnasium, Beckley, WV.** Preparation of an Architectural Feasibility Report in order to apply for potential funding.

**Huse Memorial Park Administration/Maintenance Facility, Town of Fayetteville, WV.** Buchart Horn provided services for the design of improvements to Huse Memorial Park, including a new 300-400-crypt mausoleum, a new maintenance building, office building, and other landscaping improvements. Phase II may include a second mausoleum, the size of which has yet to be determined.

**District-Wide Facilities Assessment, Derry Township School District, Hershey, PA.** An in-depth analysis of each facility's current physical condition, including remaining useful life of each of the building components such as HVAC, plumbing, electrical, roofing, food service equipment, telephone system, etc.

## PERSONNEL

### **Carol-Ann Denning, PE** Project Manager

#### **Education:**

Master of Business  
Administration/Business  
Administration/Pennsylvania  
State University

Bachelor of Architectural  
Engineering/Structural  
Engineering/Pennsylvania State  
University

#### **Registrations/Certifications:**

Professional Engineer/PA/1995  
Professional Engineer/MD/1993  
Professional Engineer/TN/2001  
Professional Engineer/NJ/2007

#### **Years' Experience:**

23

#### **Professional Affiliations:**

American Institute of Steel  
Construction

Ms. Denning has designed, detailed, and specified structural components for numerous projects including commercial, school, and government facilities. She has designed structural renovations for old and historically significant buildings such as the District Building, the Old Executive Office Building, and the Lincoln Memorial. Her experience includes quality control reviews of structural drawings, coordination of design documents with other design disciplines, project feasibility studies, and on-site construction observation to assess existing structural conditions.

**Monongalia County Courthouse Addition and Intermodal Parking Facility, Morgantown, WV.** Feasibility study for expansion of the existing County courthouse and construction of a new intermodal facility on adjacent County-owned property.

**Kanawha County Judicial Annex Renovations, Charleston, WV.** A/E services for comprehensive redesign of seven-story courtroom facility and office annex including new floor plans of 93,000 square feet. Modernization includes accessible features, elevators, and technology and security systems.

**Crawford County Courthouse Study, Weber Murphy Fox, Meadville, PA.** Study included interviewing staff, developing a program of existing spaces, establishing space needs for current and future growth, identifying storage requirements, creating adjacency diagrams, and recommending several approaches.

**Wrisberg Hall Condition Assessment, The Pennsylvania State University, Harrisburg Campus, PA.** Building condition survey and preparation of assessment report for proposed research space on first floor level of Wrisberg Hall including addition of ADA-compliant elevator and shared building systems (HVAC, plumbing, etc).

**Train Station Parking and Improvements Study, Coatesville, PA.** Study to produce a feasibility report to define a program for future parking and transportation improvements in the area of the Amtrak train station in downtown Coatesville.

**Feasibility Study for Science Complex Modifications and Additions, Pennsylvania State University, Altoona, PA.** Feasibility study for improving the campus' existing research and science spaces in the Science Building, Holtzinger Engineering Building, and the Force Advanced Technology Center

**Health and Human Services Building Office Space Renovation, Dauphin County Commissioners, Harrisburg, PA.** Renovation of 44,000 SF of office space, including conversion of mechanical systems to district steam and chilled water, renovations to the electrical systems, installation of new voice/data system, security system, new walls/partitions, and new roof.



## PERSONNEL

### **Philip A. Frey, AIA**

QA/QC Manager

#### **Education:**

Bachelor of Architecture/  
Architecture/Carnegie-Mellon  
University

#### **Registrations/Certifications:**

Registered Architect/PA/1982

#### **Years' Experience:**

33

#### **Professional Affiliations:**

American Institute of  
Architects/Pennsylvania  
Pennsylvania Society of  
Architects

Mr. Frey's responsibilities include providing 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.

**Readiness Center HVAC Replacement, TN Dept. of Finance and Administration, McKenzie, TN.** Design and coordination of new HVAC systems and controls for entire building, as well as replacement of domestic water heaters with instantaneous hot water heaters.

**Adaptive Re-Use of Former Behney Motors Structures & Site, Borough of Middletown, PA.** Professional services for architectural design and/or construction management to renovate 8,484 SF property as Borough Maintenance Facility.

**New Third Middle School, Downingtown Area School District, Downingtown, PA.** Architectural and engineering services during pre-design, schematic design, design development, construction documents, bidding, construction contract administration, and post-construction phases for a new 1,300-student third middle school.

**Trexler Nature Preserve Environmental Center, Lehigh County, PA.** Architectural and engineering services for design, specification, and construction of a 3,000-SF sustainably designed environmental center used for educational purposes, office space, and rest room facilities for park users.

**Feasibility Study for Science Complex Modifications and Additions, Pennsylvania State University, Altoona, PA.** Feasibility study for improving the campus' existing research and science spaces in the Science Building, Holtzinger Engineering Building, and the Force Advanced Technology Center

**Upper Allen Township Municipal Building Additions and Renovations, Mechanicsburg, PA.** Construction administration services for renovations to the 15,000 ft<sup>2</sup> Upper Allen Township Municipal Building, a 36,000 ft<sup>2</sup> addition, and site work including 200 parking spaces. The building houses the Township Administration, Police, Public Works Department, and EMS Garage.

**New Warehouse Complex, State Correctional Institute Muncy, PA Department of General Services, Muncy, PA.** Design of a 34,840 SF outdoor warehouse facility at the State Correctional Institution in Muncy. The new facility provides much needed storage, space for vehicle repairs, and space for an emergency generator.

**Combined Army National Guard Readiness Center, Pennsylvania DGS/PA Army National Guard, Waynesburg, PA.** Design, bidding, and administration and construction services review for a \$7.7 million combined 38,000-SF Readiness Center for the PA Army National Guard. The facility serves as a model Readiness Center for the Reserves in the Commonwealth. All required physical security measures and anti-terrorism/force protection measures are included.

## PERSONNEL

**Stephanie A. Schaefer, AIA, LEED AP**  
Architect

### **Education:**

Bachelor of Architecture/  
Architecture/Virginia  
Polytechnic Institute and State  
University

### **Registrations/Certifications:**

Registered Architect/MD/1988  
Registered Architect/PA/1999  
Registered Architect/VA/1998  
Registered Architect/WV/2007  
Registered Architect/TN/1995  
Registered Architect/LA/2001  
Registered Architect/DC/2005  
LEED AP/2009

### **Years' Experience:**

27

### **Professional Affiliations:**

American Institute of Architects  
Council of Educational Facility  
Planners International  
County Engineers Association of  
Maryland  
National Council of Architectural  
Registration Boards  
Pennsylvania Society of  
Architects  
Society of American Military  
Engineers/Baltimore  
Post/Alternate Member

Ms. Schaefer has more than 25 years of diverse experience in the field of architecture. She is responsible for managing projects as well as coordinating design teams. Her abilities encompass all phases of architecture from feasibility studies and conceptual design through the production of construction documents and construction administration.

**Ten-Year Comprehensive Education Plan, Pendleton County Board of Education, Franklin, WV.** Ten-year comprehensive educational facilities plan for five schools in Pendleton County.

**Queen Anne's County Courthouse, Centreville, MD.** Architectural/engineering study for building renovations including installation of new elevator, HVAC, and fire protection sprinkler systems.

**Ferndale Elementary School Feasibility Study, Anne Arundel County Public Schools, Glen Burnie, MD.** Preparation of a feasibility study to determine renovation or replacement of the Ferndale Elementary School.

**Arundel Center Architectural Feasibility Study, MD.** Preparation of architectural portion of a feasibility study. Work included examining the building with respect to means of egress and ADA upgrades.

**Building P (Library) Basement Study, Community College of Baltimore County, Essex Campus, MD.** Buchart Horn conducted a building code related study to determine if classrooms could be constructed in the basement of the library.

**Value Engineering Study for Throgs Neck Pumping Station Upgrade Design, Faithful+Gould/New York City Office of Management and Budget, NY.** Architectural support for value engineering study to review the design of a wastewater pump station that was designed by the New York City Office of Management and Budget. Issues addressed included sustainability and constructability.

**Feasibility Study to Combine Schools The Stadium School and Abbottston Elementary School #15 and #50, Baltimore City Public School System, MD.** Feasibility study to renovate and modernize Abbottston Elementary School and co-locate Stadium School #15.

**West Baltimore Potomac Community/Middle School Alternative Learning Center Feasibility Study, Baltimore City Public Schools, MD.** Feasibility study to determine the feasibility and cost of converting one floor of an existing middle school into an alternative learning center.

**Distribution Center Site Study, US Postal Service, Severna Park, MD.** Survey and preliminary site design for a medium-sized distribution center for USPS.

**Towson Tunnel Study, Baltimore County Bureau of Engineering, Towson, MD.** Feasibility study to provide recommendations for waterproofing the underground tunnels connecting the County Office Building and the Courthouses, and providing a conceptual cost estimate for the recommendations.



## PERSONNEL

**W. Scott Loercher, AIA, LEED AP**  
Architect

### **Education:**

Bachelor of Architecture/  
Architecture/Temple University

Associate of  
Science/Architecture/Spring  
Garden College

### **Registrations/Certifications:**

Registered Architect/PA/2008

Registered Architect/FL/2008

Registered Architect/LA/2011

Registered Architect/MD/2008

Registered Architect/MS/2008

National Council/Architectural  
Registration Boards

LEED AP/2004

### **Years' Experience:**

16

### **Professional Affiliations:**

American Institute of Architects

National Council of Architectural  
Registration Boards

US Green Building Council

Mr. Loercher is an experienced architect with a varied background encompassing both renovation and new construction. His responsibilities have included schematic design, development of construction documents, processing change order requests, responding to RFIs and attending all job conferences.

**Yeager Airport Terminal Renovations, Central WV Regional Airport Authority, Charleston, WV.** Design and construction services for various improvements to Terminal Building and other landside facilities at Yeager Airport, including new baggage carousel, flooring and rest room upgrades, new canopy covering the entrance area to the airport, and new covered, elevated walkway connecting the terminal to the parking building.

**Water System Improvements, Oakland Public Service District, Weirton, WV.** Design, bidding, and construction phase services for Oakland Water System improvements including new water storage tank, treatment facilities to remove iron and manganese, Bell Hill to Ballantyne Road Water Line extension, and Golden Keys water storage tank rehabilitation. Improvements were based on a study previously completed by Buchart Horn.

**Crawford County Courthouse Study, Weber Murphy Fox, Meadville, PA.** Study included interviewing staff, developing a program of existing spaces, establishing space needs for current and future growth, identifying storage requirements, creating adjacency diagrams, and recommending several approaches.

**County Courthouse Renovation, Dauphin County Commissioners, Harrisburg, PA.** Renovations including new state of the art courtroom; Judges' chamber suites; relocation of the law library to include electronic retrieval systems; elevators; and relocation and expansion of jury assembly to accommodate a larger juror pool.

**County Administration Building Conversion, Phase 3, Dauphin County Commissioners, Harrisburg, PA.** Project management and design services for complete renovation of an 82,000-SF, six-floor administration complex housing County offices. Project is part of the renovation and upgrade of the County's five-building government complex.

**Lebanon County Correctional Facility Additions, Lebanon, PA.** Expansion of the Lebanon County Correctional Facility with additions to both the male and female wings. A separate renovation project is also being designed for a Central Booking Facility to be incorporated at the Courthouse/City Police Station.

**York County Prison Expansion, 1998 Addition, York, PA.** Design services for the expansion of York County Prison to accommodate an additional 544 medium- and minimum-security prisoners, including illegal alien detainees, for the Immigration and Naturalization Service (INS).

**Facility Assessment and Window Replacement, Trinity House Apartments, Columbia, PA.** Building evaluation to review the existing conditions of this elderly housing facility, and to recommend necessary and advisable improvements.



# PERSONNEL

## **Uday N. Patel, PE, LEED AP**

*Mechanical Engineer*

### **Education:**

Post Graduate Diploma/Data Processing & Computer Management/Bhartiya Vidhya Bhavan, Gujarat, India

Bachelor of Science/Mechanical Engineering/S.P. University, Gujarat, India

### **Registrations/Certifications:**

Professional Engineer/MD/1998

Professional Engineer/PA/1995

Professional Engineer/LA/1998

Professional Engineer/WV/2001

Professional Engineer/VA/1998

Professional Engineer/DC/2000

Professional Engineer/AL/2000

Professional Engineer/IN/1998

Professional Engineer/NC/2011

NCEES Record

LEED AP/2008

### **Years' Experience:**

23

### **Professional Affiliations:**

American Society of Heating, Refrigeration and Air-Conditioning Engine

American Society of Indian Engineers

American Society of Professional Engineers

National Council of Examiners for Engineering and Surveying

Mr. Patel is responsible for developing high quality conceptual and construction documents and specifications for mechanical engineering projects for commercial, institutional, government and educational facilities. His roles have included senior staff engineer, chief master specification writer, designer, cost estimator, analyst, coordinator, automation computer coordinator, and field inspector.

His experience includes heating, ventilating, air conditioning, plumbing, fire protection and industrial ventilation system selection and design. Other duties have included field survey, in-house review and project coordination; load calculations, system selection, computer load modeling, life cycle costing analysis, energy conservation, value engineering; specification developing, editing and composition; cost estimating; feasibility studies; energy management systems and automatic temperature control systems; design of underground and aboveground fuel storage and distribution systems with inventory control and monitoring system; and design of industrial ventilation systems.

**Statewide Architectural Services, WVDOT.** Preparation of preliminary studies, design, and preparation of contract plans and related documents for Division of Highways buildings, rest areas, weigh stations and related facilities.

**Yeager Airport Terminal Expansion, Central West Virginia Regional Airport Authority, Charleston, WV.** Planning and design for terminal and airside expansion adjacent to existing Gate 10.

### **Rehabilitation Design for State Capitol Parking Facility, Charleston, WV.**

Rehabilitation investigation and design services for the only parking structure on the State Capitol Campus, including structural repairs, upgrades to fire detection and protection systems, and preparation of a repair guidance document with order of magnitude costs.

### **Bus Service Facility Additions and Alterations, Tri-State Transit Authority, Huntington, WV.**

Design of 25' by 125' (3,125 SF) addition to the north end of the Tri-State Transit Authority's Bus Service Facility, to serve as bus storage area, including an integrated security system and various repairs and replacements for aging building elements.

**Former Marion County Jail Conversion to Parking and Storage Facility, Fairmont, WV.** Study and design of a new parking and records storage facility at the site of the former Marion County jail, as well as design for drainage improvements in and around the County administrative office buildings.

**Elkins Maintenance Facility, WVDOT, Randolph County, WV.** Study, design, and preparation of contract plans and related documents for the construction of a new 30,800 SF equipment shop building for Division of Highways District 8. WVDOT intends the design to become a prototype for all of its future maintenance facilities.



## PERSONNEL

### **Russell R. Oft, Jr., PE** *Mechanical Engineer*

#### **Education:**

Bachelor of Science/Mechanical Engineering/University of Pittsburgh

#### **Registrations/Certifications:**

Professional Engineer/PA/2002

Professional Engineer/WV

Professional Engineer/TN/2011

#### **Years' Experience:**

18

Mr. Oft has 18 years of diverse experience in the field of mechanical engineering. He is responsible for managing projects and designs. His abilities include all phases of mechanical engineering from conceptual design to the development of construction documents and construction administration. Mr. Oft's experience includes the design of mechanical systems, cost estimating, system analysis, energy studies, and feasibility/constructability studies for educational, healthcare, correctional, commercial, industrial, and water/wastewater facilities.

**Combined Army National Guard Readiness Center, Pennsylvania DGS/PA Army National Guard, Waynesburg, PA.** Design, bidding, and administration and construction services review for a \$7.7 million combined 38,000-SF Readiness Center for the PA Army National Guard. The facility serves as a model Readiness Center for the Reserves in the Commonwealth. All required physical security measures and anti-terrorism/force protection measures are included. Sustainable principles were integrated into the design, development, and construction of the project.

**Mechanical, Electrical, and Plumbing Engineering Services for New Intermediate School, Dallastown Area School District, Springfield Township, PA.** As consultant to Crabtree, Rohrbaugh & Associates, electrical and structural design services including construction documents preparation for installation of primary power by Met-Ed.

**Housing Unit Air Conditioning, Mark Luttrell Correctional Center, TN Department of Finance & Administration, Memphis, TN.** Design and construction services for the addition of air conditioning to housing units and gymnasium at the Mark Luttrell State Correctional Center.

**New Third Middle School, Downingtown Area School District, Downingtown, PA.** Architectural and engineering services during pre-design, schematic design, design development, construction documents, bidding, construction contract administration, and post-construction phases for a new 1,300-student third middle school.

**Trexler Nature Preserve Environmental Center, Lehigh County, PA.** Architectural and engineering services for design, specification, and construction of a 3,000-SF sustainably designed environmental center used for educational purposes, office space, and rest room facilities for park users.

**Kitchen and Dining Area Renovations, PA DGS/Smithfield State Correctional Institute, Huntingdon County, PA.** Design services for a 3,100-SF kitchen and dining area addition and renovation at the State Correctional Institution Smithfield.

**L-3 Close Security Housing Unit Design/Build, State Correctional Institution Coal Township, Wohlsen Construction Co./PA DGS, Northumberland County, PA.** Design/build of two-story, 128-cell, L-3 (close security) housing unit constructed of permanent masonry and concrete type construction. Energy conserving features include energy management control systems, high efficiency motors, lighting, HVAC systems, and any other items necessary to achieve LEED certification.

## PERSONNEL

### **Jeffrey B. Moreland, PE**

*Electrical Engineer*

#### **Education:**

Master of Science/Electrical Engineering/University of Pittsburgh

Bachelor of Science/Electrical Engineering/Carnegie-Mellon University, Pittsburgh

#### **Registrations/Certifications:**

Professional Engineer/PA/2004

Professional Engineer/WV/2006

Professional Engineer/TN/2007

Professional Engineer/LA/2007

Professional Engineer/GA/2008

Professional Engineer/FL/2006

Professional Engineer/MS/2008

NCEES Record/2007

#### **Years' Experience:**

27

#### **Professional Affiliations:**

Association of Energy Engineers

Association of Iron and Steel Engineers

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 27-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.

**Administrative and Judicial Facilities Renovation Design, Preston County Commission, Kingwood, WV.** Space needs analysis of the former Wesbanco Building, across from the Preston County Courthouse, and design of a more centralized campus of County services.

**Water System Improvements, Oakland Public Service District, Weirton, WV.** Design, bidding, and construction phase services for Oakland Water System improvements including new water storage tank, treatment facilities to remove iron and manganese, Bell Hill to Ballantyne Road Water Line extension, and Golden Keys water storage tank rehabilitation. Improvements were based on a study previously completed by Buchart Horn.

**New Research Support Facility and Storage Yard, Canaan Valley Institute, Davis, WV.** Design of a 3,750-SF one-story research support building and an adjacent 1.5-acre fenced storage yard. The sustainably designed low-impact facility has features including a microturbine for generating electricity, waterless and high efficiency plumbing fixtures and sanitary systems, and radiant heating systems.

**Statewide Architectural Services, WVDOT.** Preparation of preliminary studies, design, and preparation of contract plans and related documents for Division of Highways buildings, rest areas, weigh stations and related facilities.

**Southside Expressway Lighting Renovation, WVDOT, Kanawha County, WV.** Study, design, and preparation of construction plans and related documents for highway lighting renovation on WV Route 61 from the Patrick Street Bridge (US 60) to Kanawha Turnpike (CR 61/12) including improvement of the existing nonfunctional lighting system and design of high-mast tower lighting at the southern end of the Patrick Street Bridge.

**Yeager Airport Terminal Renovations, Central WV Regional Airport Authority, Charleston, WV.** Design and construction services for various improvements to Terminal Building and other landside facilities at Yeager Airport, including new baggage carousel, flooring and rest room upgrades, new canopy covering the entrance area to the airport, and new covered, elevated walkway connecting the terminal to the parking building.

**Yeager Airport Terminal Expansion, Central West Virginia Regional Airport Authority, Charleston, WV.** Planning and design for terminal and airside expansion adjacent to existing Gate 10.



## PERSONNEL

### **Bryan W. Ondrasik, PE, LEED AP**

Plumbing Engineer

#### **Education:**

Bachelor of Science/Mechanical Engineering/Messiah College

#### **Registrations/Certifications:**

Professional Engineer/MD

Professional Engineer/PA

Certified Plumbing Designer

LEED AP/2008

#### **Years' Experience:**

12

#### **Professional Affiliations:**

American Society of Heating, Refrigeration and Air-Conditioning Engine

American Society of Plumbing Engineers

National Society of Professional Engineers

US Green Building Council

Mr. Ondrasik is responsible for supporting the mechanical department by designing plumbing systems, preparing layouts, equipment selections and schedules, sketches, details, drawings, calculations, and preparing specifications relating to the plumbing and fire protection portion of the projects.

**New Third Middle School, Downingtown Area School District, Downingtown, PA.** Architectural and engineering services during pre-design, schematic design, design development, construction documents, bidding, construction contract administration, and post-construction phases for a new 1,300-student third middle school.

**Building 2, Bays 1 & 2 Swing Space Alterations, Tobyhanna Army Depot, PA (BHDJV).** Interior alterations to two 200' x 200' bays within Building 2 for use as administrative "swing space" to be temporarily occupied by personnel displaced by renovation projects undertaken in other areas of the Depot. Includes preparation of schematic layout of furniture and furnishings to be leased by TYAD for reconfigured Building 2 area.

**Design of New Infirmary/Dentist Area, Muncy State Correctional Institute, PA DGS, Lycoming County, PA.** Design and preparation of contract documents for new Infirmary, Dentist Clinic and Dialysis Area that involved expansion at existing infirmary building including 20-bed long-term care units, five-chair dental clinic, and six-station dialysis area.

**New Warehouse Complex, State Correctional Institute Muncy, PA Department of General Services, Muncy, PA.** Design of a 34,840 SF outdoor warehouse facility at the State Correctional Institution in Muncy. The new facility provides much needed storage, space for vehicle repairs, and space for an emergency generator.

**Residential Rehabilitation and Recovery Facility, Astorino, Lebanon VA Medical Center, PA.** Mechanical, plumbing, electrical, and civil design services in support of prime consultant Astorino for construction of 23,000 SF of new freestanding space consisting of a central community center and two-story residential style villas that include single floor apartments.

**L-3 Close Security Housing Unit Design/Build, State Correctional Institution Coal Township, Wohlsen Construction Co./PA DGS, Northumberland County, PA.** Design/build of two-story, 128-cell, L-3 (close security) housing unit constructed of permanent masonry and concrete type construction. Energy conserving features include energy management control systems, high efficiency motors, lighting, HVAC systems, and any other items necessary to achieve LEED certification.

**L-3 Close Security Housing Unit Design/Build, State Correctional Institution Pine Grove, GM McCrossin Inc. /PA DGS, Pine Grove, PA.** Design/build of two-story, 128-cell, L-3 (close security) housing unit constructed of permanent masonry and concrete type construction.

## PERSONNEL

### **James M. California, PE** *Structural Engineer*

#### **Education:**

Bachelor of Architectural  
Engineering/Structural  
Engineering/Pennsylvania State  
University

#### **Registrations/Certifications:**

Professional Engineer/PA/1986  
Professional Engineer/MD/1999  
Professional Engineer/NJ/2000  
Professional Engineer/WV/1997  
Professional Engineer/TN/1997  
Professional Engineer/LA/1996  
Professional Engineer/MS/1998  
Professional Engineer/VA/1999  
Professional Engineer/DE/1999  
Professional Engineer/DC/1998  
Professional Engineer/AL/1997  
Professional Engineer/AR/2002  
Professional Engineer/GA/2007  
Professional Engineer/IN/1998

#### **Years' Experience:**

30

#### **Professional Affiliations:**

American Institute of Steel  
Construction

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

**Kanawha County Judicial Annex Renovations, Charleston, WV.** A/E services for comprehensive redesign of seven-story courtroom facility and office annex including new floor plans of 93,000 square feet. Modernization includes accessible features, elevators, and technology and security systems.

**Statewide Architectural Services, WVDOT.** Preparation of preliminary studies, design, and preparation of contract plans and related documents for Division of Highways buildings, rest areas, weigh stations and related facilities.

**New Research Support Facility and Storage Yard, Canaan Valley Institute, Davis, WV.** Design of a 3,750-SF one-story research support building and an adjacent 1.5-acre fenced storage yard. The sustainably designed low-impact facility has features including a microturbine for generating electricity, waterless and high efficiency plumbing fixtures and sanitary systems, and radiant heating systems.

**Rehabilitation Design for State Capitol Parking Facility, Charleston, WV.** Rehabilitation investigation and design services for the only parking structure on the State Capitol Campus, including structural repairs, upgrades to fire detection and protection systems, and preparation of a repair guidance document with order of magnitude costs.

**Testing Lab/Maintenance Facility Design, WVDOT, Charleston, WV.** Design for a new complex comprised of a 43,260 SF materials control, soil, and testing lab; a 21,645 SF sign shop; and a 14,072 SF operations building along with final plans for roadway and site development.

**Transportation Security Administration Offices, Yeager Airport, Charleston, WV.** Design services for secure administrative offices for the Central West Virginia Regional Airport Authority. The office accommodates the Transportation Security Administration, a division of the US Department of Homeland Security, which is responsible for airport baggage screening.

**Yeager Airport Terminal Renovations, Central WV Regional Airport Authority, Charleston, WV.** Design and construction services for various improvements to Terminal Building and other landside facilities at Yeager Airport, including new baggage carousel, flooring and rest room upgrades, new canopy covering the entrance area to the airport, and new covered, elevated walkway connecting the terminal to the parking building.



# PROJECT ORGANIZATION

1. **Provide information on the personnel who will manage and persons proposed to be assigned to the project. Provide locations of firm's office.**

**Project Manager:** Carol-Ann Denning, PE

**Principal-in-Charge:** Anthony J. Shinsky, AIA, LEED AP *(WV Licensed)*

**QA/QC Manager:** Philip A. Frey, AIA

**Architect:** Stephanie A. Schaefer, AIA, LEED AP *(WV Licensed)*

**Architect:** W. Scott Loercher, AIA, LEED AP

**Mechanical Engineer:** Uday N. Patel, PE, LEED AP *(WV Licensed)*

**Mechanical Engineer:** Russell R. Oft, Jr., PE *(WV Licensed)*

**Electrical Engineer:** Jeffrey B. Moreland, PE *(WV Licensed)*

**Plumbing Engineer:** Bryan W. Ondrasik, PE, LEED AP

**Structural Engineer:** James M. California, PE *(WV Licensed)*

**Work to be performed from the following office locations:**

Pittsburgh, PA

York, PA

State College, PA

2. **Provide a statement of evidence of the firm or teams' ability to provide services within the project time frame.**

Buchart Horn is able and is well suited to provide the required services for this project in the time frame requested.

## DEMONSTRATED EXPERIENCE

1. **Provide brief description of relevant projects demonstrating the firm's ability to execute project similar to those described.**  
Please see project descriptions immediately following this page.
2. **Provide references for the last two clients for whom the firm has conducted project of a similar size and type.**
  1. Tobyhanna Army Depot, Edward J. Kovaleski, Architect, (570) 615-7100
  2. Metropolitan Government of Nashville & Davidson County, Ken Maynard, Assistance Finance Director, (615) 862-4777



## PROJECTS

### *Administrative and Judicial Facilities Renovation Design, Preston County Commission, Kingwood, WV.*



**Client:**

Preston County Commission  
Suite 202  
106 West Main Street  
Kingwood, WV 26537-1131

Preston County hired Buchart Horn to perform a space needs analysis and a facilities inventory and assessment of their current facilities and to 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 the 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 SF 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 SF. 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 Buchart Horn's design solution providing secure separate corridors and exits for Judges and staff as well as installation of a security screening vestibule at the primary entrance.

## PROJECTS

### *County Jail Building Adaptive Re-use, Pocahontas County Commission, Marlinton, WV.*



**Client:**

Pocahontas County Commission  
900C Tenth Avenue  
Marlinton, WV 24954

Buchart Horn performed a structural evaluation study of the Pocahontas County jail building to determine the existing structural condition of the jail and the potential for the adaptive re-use of the structure. Pocahontas County has recently moved much of the jail operations into another facility, and is reviewing options for the removal or re-use of the old jail building. Potential uses for the facility include new office and storage space for County operations. Buchart Horn is also providing support in the form of assistance in seeking grant monies to move the project forward.



## PROJECTS

### *Monongalia County Courthouse Addition and Intermodal Parking Facility, Morgantown, WV.*



**Client:**

Monongalia County Commission  
Monongalia County Courthouse  
243 High Street  
Morgantown, WV 26505

Buchart Horn developed a feasibility study for the expansion of the existing County courthouse as well as the construction of a new intermodal facility on the adjacent County-owned property. The study had six major components:

**Traffic Impact Evaluation:** Tasks included review and incorporation of recent traffic analyses and reports; peak traffic counts at 12 intersections; analysis of traffic data; and development of draft and final reports (including recommendations for traffic improvements).

**Development of Base Map:** We developed a base topographic map of the entire site, including existing courthouse structures, non-County structures, streets, visible utilities, and WVU-owned PRT station and guideway, for use in the programming of the courthouse expansion and intermodal facility layout.

**Intermodal Facility Layout:** We developed the layouts for the proposed intermodal facility. This facility includes the existing PRT station and guideway, a 500-vehicle parking structure, a County bus transfer station (15 buses minimum), and elevated pedestrian structures to interface all components. Three layout schemes were studied, with attention paid to bus parking, vehicular parking, circulation, entrance/egress locations, and pedestrian travel/access.

**Courthouse Programming:** This task involved the development of an addition that will house three circuit court courtrooms, the relocated magistrate's court, a newly developed family court complying with the State Supreme Court's guidelines, and development of related spaces, all adjacent to the existing County Courthouse. As part of this study, we performed historical recordation of the existing jail and sheriff's house, both of which are programmed for demolition to allow room for the new expansion.

# PROJECTS

## *Kanawha County Judicial Annex Renovations, Charleston, WV.*



### **Client:**

Kanawha County Commission  
PO Box 3627  
Charleston, WV 25336

Buchart Horn was commissioned to prepare an Initial Planning Study, describing immediate and short-term needs; to prepare a Comprehensive Plan projected up to 10 years into the future; and to design the renovations and additions to the existing Judicial Annex.

The surveys, interviews, analyses, project budgeting, ADA recommendations, and concept were prepared for review by the Judiciary and the Kanawha County Commission.

The project focused on a new entrance, security checkpoint, and lobby to alleviate overcrowding; 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.

Other services provided included vertical transportation planning, security consultation, and technology planning such as video conferencing, data and voice communications, and evidence display systems.

Renovations included seven Circuit Court courtrooms; jury deliberation rest rooms; 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.

Building security improvements included a central security control room, staffed 24 hours a day; 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 from sally port to courtrooms; emergency call system from courtrooms, chambers and other public-interface points; and development of a policy and procedure manual.



## PROJECTS

### *Crawford County Courthouse Study, Weber Murphy Fox, Meadville, PA.*



**Client:**

Weber Murphy Fox, Inc.  
3230 W Lake Rd  
Erie, PA 16505

The County Commissioners hired Buchart Horn, Inc. as the experts in courthouse design to lead them through a project consisting of the Courthouse, jail, and County Administration programs. We interviewed selected staff, developed a program of existing spaces, established space needs for current and future growth, identified storage requirements, created adjacency diagrams, and recommended several approaches, with lists of attributes and challenges associated and the relative costs of each scheme.

The study included site survey and evaluation of the existing building structural, mechanical, and electrical systems by Buchart Horn's engineers. A building systems assessment report was prepared to incorporate survey findings, communicate code compliancy issues, make recommendations for repair and/or replacement of systems, and provide associated construction costs for the recommended options.

With local architect WMF, we have completed the study of several dozen departments and 400,000 sf of space planning to improve security and accessibility, isolate circulation paths for the public/staff and judges/and criminals and suspects, and improve function and services.

## PROJECTS

### *Master Plan Evaluation and Needs Assessment, Tobyhanna Army Depot, Tobyhanna, PA.*



**Client:**

US Army Corps of Engineers  
City Crescent Building  
10 South Howard Street  
Baltimore, MD 21203-1715

As the first step of our four-year contract to update and implement a comprehensive master plan at the Tobyhanna Army Depot (TYAD), we reviewed and evaluated existing master planning documentation and developed recommendations to address shortfalls in that documentation and to conform to AR 210-20. The scope of work included the development of budget estimates and a prioritized list of action items.

This assessment culminated with a series of draft statements of work from which TYAD selected specific projects for detailed scoping and budget estimates.

Specific projects selected and prioritized by TYAD include Short Range Component (SRC) and Tabulation of Existing and Required Facilities (TAB); Utilities Assessment and Electric Study; Long Range Component (LRC) and Land Use Plan; Tri-Service Special Data Standards (TSSDS) Integration; Installation Design Guide (IDG); Building Demolition and Layaway Plan; Installation Facility Maintenance System/Building Evaluation Study, and Facilities Utilization Study (FUS).



## PROJECTS

### *Police Facilities Building Evaluations, Metropolitan Government of Nashville and Davidson County, Nashville, TN.*



**Client:**

Metropolitan Government of  
Nashville & Davidson County  
Real Property Services  
Suite 601  
222 Third Avenue North  
Nashville, TN 37201

As a subconsultant to Matrix Consulting Group, Buchart Horn performed assessments of select buildings occupied by the Metropolitan Police Department for the Metropolitan Government of Nashville and Davidson County. The inspection team included a civil engineer, a landscape designer, a structural engineer, an architect, a mechanical engineer, and an electrical engineer.

Buchart Horn provided an evaluation of the physical condition and provided prioritized estimated cost solutions to major deficiencies for the existing Police Department facilities. A complete and thorough survey of each building was required to assess the following:

**Hazardous Materials.** The assessment was to identify suspected hazardous materials that may need to be addressed and/or corrected prior to the completion of the renovation of each individual location.

**Site Conditions.** Assessment of all parking lot conditions, such as resurfacing, sealing, and striping, as well as sidewalks, access ramps, steps, and entrances into the building, were documented. Identification of any deficiencies in the area of drainage, fencing, and signage, including directional and safety. Recommendations to correct each deficiency were specifically noted.

## PROJECTS

**Structural Integrity.** The existing floor(s) and roof framing systems structural integrity were evaluated. The evaluation anticipated a full occupant and dead load scenario appropriate for the type of space being evaluated and compared to existing Building Code requirements for the occupancy and importance factors. Deficiencies were noted and means of repair recommended.

**Building Envelope.** The condition of the exterior envelope (exterior walls, roof, windows, doors, etc.) of the building was observed and evaluated.

**Building Interior.** Observable conditions of the interior finishes and substrates including but not limited to walls, floors, insulation, ceilings, doors/hardware, and casework/millwork were noted as to any observed inefficiencies along with recommended corrections.

**Mechanical Systems.** This assessment included observable review of the mechanical systems, including HVAC, plumbing, fire suppression, and elevators, when applicable. All systems observed were denoted as to requirements to bring them into compliance with all current known local, state, and federal codes and regulations.

**Electrical.** All observable electrical systems were inspected and addressed as to any obvious deficiencies, including, but not limited to, panels, circuit breakers and/or fuses, disconnect switches, wiring/conduit, expandability, lighting fixtures, and receptacles, as well as data and communications wiring and equipment.

**Life Safety.** All observed life safety issues were identified and recommendations made to bring all such deficiencies into compliance. Issues included emergency egress (doors and windows), emergency lighting, alarms and pull boxes, fire suppression systems, and the quantities, types of and placement of existing fire extinguishers, etc.



## PROJECTS

### *County Courthouse Renovation, Dauphin County Commissioners, Harrisburg, PA.*



**Client:**

Dauphin County Commissioners  
Front & Market Streets  
PO Box 1295  
Harrisburg, PA 17108

The County Commissioners, the President Judge, and Buchart Horn, through extensive planning and consensus building, determined the short-term and future needs for the Dauphin County Courthouse.

The courthouse is prominently located in the downtown business district of Harrisburg and within walking distance of the State Capitol. Erected in 1941, the six-story, 140,000 SF marble landmark is recognized on the National Register of Historic Places.

In order to maintain all courtrooms on the third and fifth floors, the fourth floor being jury deliberation and upper portions of courtrooms on the third level, the new courtroom displaces the law library on the fifth floor. Great care was taken to maintain all artifacts and incorporate them into the new courtroom, while assuring proper traffic flows, courtroom technology, and courtroom security.

The renovation program was phased and the building was occupied and functioning during construction. The design included a new state of the art courtroom; Judges' chamber suites; relocation of the law library to include electronic retrieval systems; and relocation and expansion of jury assembly to accommodate a larger juror pool.

Also included were two new 5,000 lb. elevators to accommodate secure juror movement. The new elevators can be controlled to coordinate with the existing passenger elevators or be taken off line to provide secure passage of the jurors to the appropriate levels of the courthouse.

Courthouse security and upgrades in both new and existing areas were phased with the construction. New and replacement infrastructure assemblies were accomplished in a phased construction process. All affected areas were brought up to ADA standards.

## PROJECTS

### *Lewis County Courthouse Annex Comprehensive Plan, Weston, WV.*



**Client:**

Lewis County Building  
Commission  
132 East First St  
Weston, WV 26452

Buchart Horn, Inc. 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. In addition, it was proposed that the County purchase additional sites to the south to accommodate off-street parking.



## PROJECTS

### *Renovations to York County Courthouse, York County Commissioners, York, PA.*



**Client:**

York County Commissioners  
Administrative Center  
28 East Market Street  
York, PA 17401-1588

Full architectural services were provided for renovations to the York County Courthouse covering 6,300 SF. These renovations involved conversion of existing third floor offices in the east wing of the Courthouse into two courtrooms, judges' chambers, jury rooms, legal secretaries' and law clerks' offices, holding cells, and witness waiting areas. The courtrooms were designed in a traditional style to be consistent with the style of the judges' chambers. The courtroom capacity is approximately 30 spectators.

Buchart Horn completed a study of the existing electrical distribution equipment in the York County Courthouse. The study included determining the type and size of panelboards, wire, circuit breakers, and fuses. This information was used as input data for fault current computer study calculations to determine any changes required to ensure the equipment would withstand a fault of 100,000 amps. Recommendations were prepared, along with cost data, for changes required to bring the equipment up to date.