



EXPRESSION OF INTEREST

A/E Building 29 (Hangar) Renovations West Virginia General Services Division



**Chapman
Technical
Group**
a division of
GRW



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Technical
Group**
a division of
GRW

April 3, 2024

RECEIVED

2024 APR -5 AM 10: 01

WV PURCHASING
DIVISION

Department of Administration
Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

**Re: A/E Services
Building 29 (Hangar)
Renovations**

Dear Selection Committee:

Chapman Technical Group is interested in providing architectural and engineering services for the Building 29 (Hangar) Renovations project. With many aviation clients over the years, Chapman Technical Group has designed hangars at airports throughout West Virginia. Most recently we have designed renovations to an aircraft hangar in Tennessee that is similar in scope to Building 29, including roof replacement and a detailed code review. We also have extensive roof repair/replacement experience with a variety of roof types, and masonry and concrete wall repair experience of all kinds. We have designed countless paving projects ranging from small parking lots to major airport apron and runway rehabilitation.

Our project team includes architects, civil and structural engineers, and mechanical and electrical engineers, all in-house, ensuring seamless design of your project. Our workload is such that we could begin work on your project immediately.

We would appreciate the opportunity to present our project team and further discuss your project. Please feel free to contact me at (304) 727-5501 or by email at jbird@chaptech.com if you have any questions or need more information.

Sincerely,

CHAPMAN TECHNICAL GROUP

Joseph E. Bird, ASLA
Senior Vice President

200 Sixth Avenue
Saint Albans, WV 25177

304.727.5501

Buckhannon, WV
Lexington, KY

www.chaptech.com



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

State of West Virginia
 Centralized Expression of Interest
 Architect/Engr

Proc Folder: 1384606
Doc Description: Building 29 (Hangar) Renovations
Reason for Modification: Addendum No. 2
Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2024-04-03	2024-04-05 13:30	CEOI 0211 GSD2400000004	3

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Customer Code: 00000000207246
Vendor Name : Chapman Technical Group
Address : 200
Street : Sixth Avenue
City : Saint Albans
State : West Virginia **Country :** USA **Zip :** 25177
Principal Contact : Joseph E. Bird, Senior Vice President
Vendor Contact Phone: 304-727-5501 **Extension:** 3154

FOR INFORMATION CONTACT THE BUYER

Melissa Pettrey
 (304) 558-0094
 melissa.k.pettrey@wv.gov

Vendor
 Signature X

FEIN# 550704766

DATE 04/03/24

All offers subject to all terms and conditions contained in this solicitation

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Joseph E. Bird, Senior Vice President

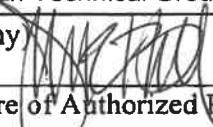
(Address) 200 Sixth Avenue, Saint Albans, WV 25177

(Phone Number) / (Fax Number) 304-727-5501/NA

(email address) JBird@chaptech.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

Chapman Technical Group
(Company) _____

(Signature of Authorized Representative) _____
Joseph E. Bird, Senior Vice President
(Printed Name and Title of Authorized Representative) (Date) _____
304-727-5501/NA
(Phone Number) (Fax Number) _____
JBird@chaptech.com
(Email Address) _____

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI GSD2400000004

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

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

Addendum Numbers Received:

(Check the box next to each addendum received)

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

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

Chapman Technical Grou

Company



Authorized Signature

04/03/24

Date

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

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PROJECT APPROACH



Goal/Objective 1

Roof Repair

Chapman Technical Group has extensive experience in the repair and replacement of many types of roofs. Roof coating is sometimes a short-term solution but elastomeric coatings have a tendency to trap water through pinhole leaks, which could lead to serious roof deck corrosion. If the roof deck is sound, sealing of joints, seams, and roof penetrations may be a more appropriate solution. Localized areas of minor roof deck corrosion can be repaired with methods more substantial than roof coatings.

The existing roof has some sort of elastomeric coating which reportedly has leaks and is in need of cleaning, recoating, or replacement. Portions of the coating have detached from the roof and fallen to the ground. More extensive evaluation of the roof is required. The existing roof will be evaluated with visual observation and if warranted, thermography may be employed to detect wet areas underneath the elastomeric coating. Depending on the source of the water intrusion, proper repair methods as described above will be recommended. Depending on the extent of roof deck corrosion, roof replacement may be warranted.



Pieces of the hangar elastomeric coating have detached from the roof deck.



Roof repair on the State Road Commission Building in Charleston.



Roof repair on the Coal Heritage Discovery Center in Mt. Hope.

PROJECT APPROACH



Goal/Objective 2

Masonry and Metal Panel Repairs

For almost 40 years, Chapman Technical Group has been involved in building projects of all kinds, many of which have included the repair and cleaning of masonry ranging from concrete masonry units to brick veneers. Every masonry condition is different and requires an evaluation of not only the masonry, but the mortar and substrate as well. Some cleaning methods such as pressure washing can actually cause more damage if not done properly. Likewise, repointing and similar masonry repairs must take into account all conditions of the masonry and substrate. Metal panel cleaning must take into account any coating system that may have been applied in the past to prevent further damage to the metal panels.



Masonry repair and cleaning on the Coal Heritage Discovery Center in Mt. Hope.



The hangar wall panels appear to be in good condition, with only normal wear and tear. Cleaning and painting should extend the life of the panels.



The masonry deterioration of the hangar walls does not appear to be structural in nature and repairs should be relatively simple.

PROJECT APPROACH



Goal/Objective 3

Code Review and Alarm Systems

Every project, whether a new building or a renovation project, begins with a code review. The code requirements vary with every building type and aircraft hangars have unique requirements. Our team of architects, electrical engineers, and mechanical engineers will be involved in the code review, including NFPA 409, Standard on Aircraft Hangars, and will identify necessary renovations and upgrades, as well the possible need to install a fire suppression sprinkler system.

One of our most recent projects, the renovation of an aircraft hangar at Martin Campbell Field in Copper Hill, Tennessee included a similar evaluation.



The hangar will be reviewed extensively to determine if code issues exist. Recommendations will be made to address code issues, including basic life safety, mechanical and electrical systems, and fire safety systems.



The aircraft hangar at Martin Campbell Field in Copper Hill, Tennessee is being renovated and included a complete code review and related upgrades.

PROJECT APPROACH



Goal/Objective 4

Paving Repairs

Chapman Technical Group's aviation division has designed new pavements and pavement repairs at many airports throughout West Virginia, including Yeager Airport. Our experience includes runways and taxiways as well as aircraft aprons around hangars and other support facilities. We have also designed countless highways, roads, and parking lots including new pavements and repairs.



Existing pavements can be milled and overlaid to improve drainage to existing inlets.



Raleigh County Airport apron repairs and improvements.



Raleigh County Airport runway rehabilitation.

COMPANY OVERVIEW & AWARDS



Established in 1984, Chapman Technical Group has steadily grown into a diverse firm of professionals, many of whom were educated in West Virginia colleges and universities. We have achieved an outstanding reputation for developing high-quality projects, while meeting schedules and budgets.

In 2013, Chapman Technical Group was acquired by the Lexington, Kentucky based A/E firm of GRW, allowing us to provide a wider range of services while expanding our resources. Now, in addition to our offices in St. Albans, Buckhannon, and Martinsburg, West Virginia, as part of the GRW family, we also work in Kentucky, Ohio, Tennessee, and Indiana.

Our architectural group not only designs new buildings from the ground up, but also specializes in renovations and historic restoration projects. Our award-winning landscape architects provide master planning, as well as detailed site design for parks and public spaces projects.

In addition to our building studio, our engineering support staff gives us the ability to meet almost any challenge a project may present. All of our mechanical, electrical, plumbing engineering is provided in-house, and our civil engineers work with our landscape architects to provide site designs that are functional while achieving a high level of aesthetics.

Water and sewer system design is accomplished by our environmental engineers, and when on-site wastewater treatment is required, we can do it.

Working with our airport group, we can provide full airport design services, from runway and lighting design, to hangars and terminal buildings.

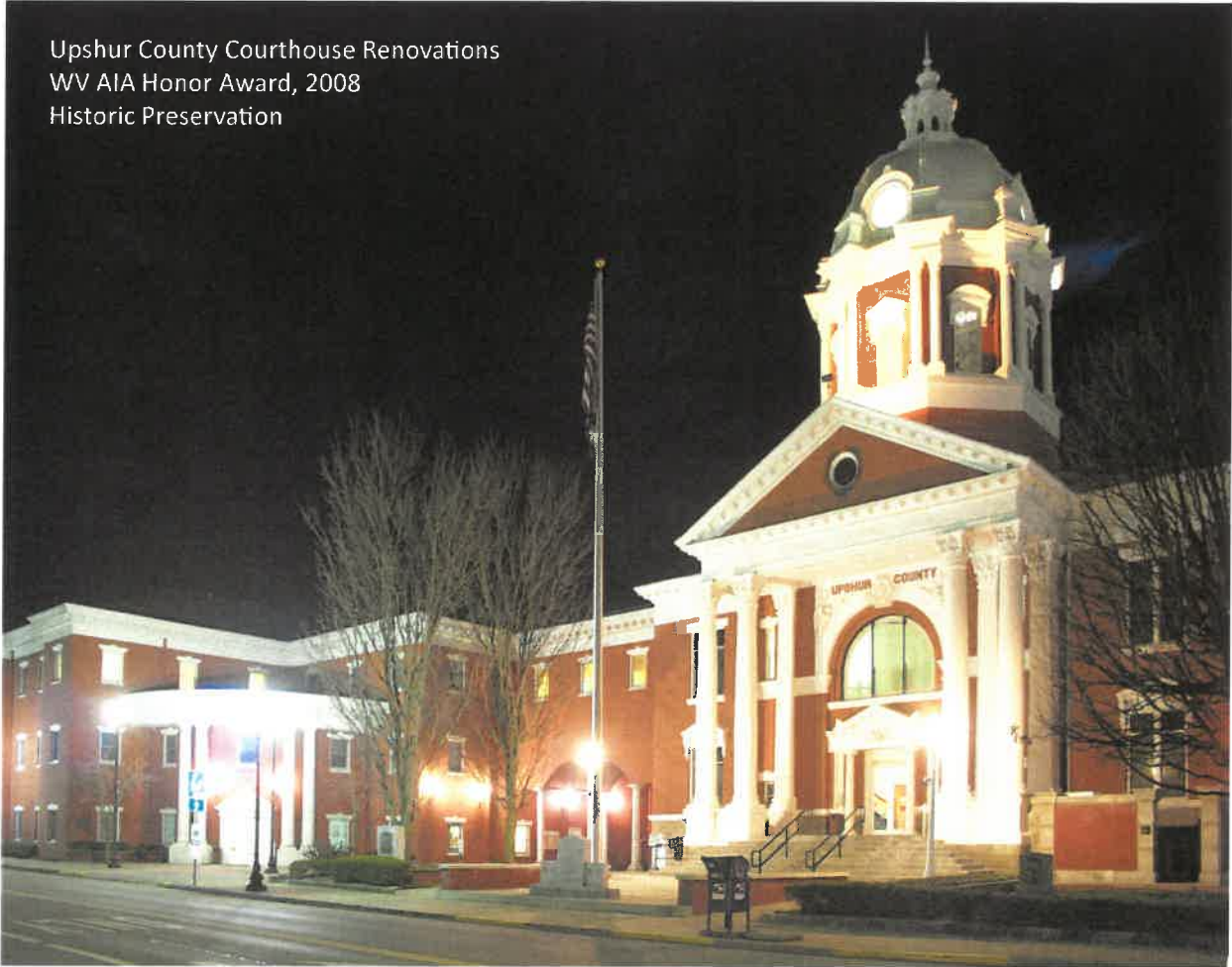
COMPANY OVERVIEW & AWARDS



COMPANY OVERVIEW & AWARDS



Upshur County Courthouse Renovations
WV AIA Honor Award, 2008
Historic Preservation



COMPANY OVERVIEW & AWARDS

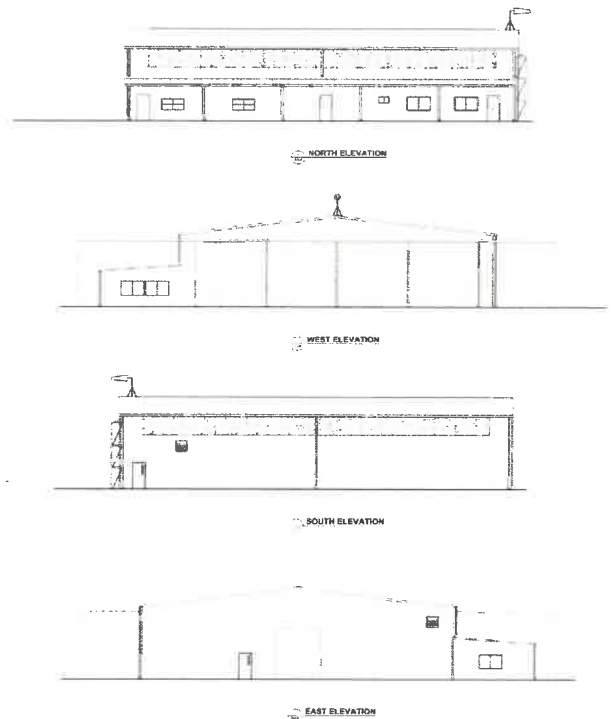
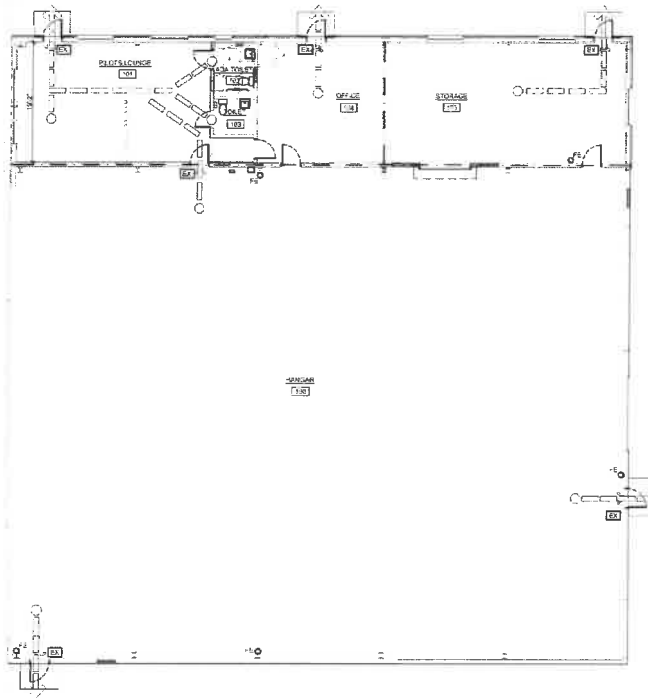


Upper Big Branch Miners Memorial
WV ASLA Honor Award, 2012



Nuttallburg Historic Mining Complex
WV ASLA Merit Award, 2012

ARCHITECTURE



Martin Campbell Field Terminal and Main Hangar Rehabilitation Copper Hill, TN

Chapman Technical Group is currently designing the rehabilitation and renovation of the terminal and hangar facilities at Martin Campbell Field which was originally built around 1965. The work includes removing and replacing the metal roof, exterior metal wall panels, and the metal building's structural system.

Installation of code-mandated fire walls, ADA access to the building, lighting, and HVAC improvements, and restroom renovations are included in the work.

Translucent wall panels will be provided in the hangar area to utilize daylighting and reduce energy consumption.

Additionally, water service improvements and finish upgrades are being considered as alternates to provide as much improvement as the budget will allow.



Existing Terminal/Hangar Building

ARCHITECTURE



Buckhannon Upshur Airport Authority New Airport Hangars

40 West Main Street
Buckhannon, West Virginia 26201

The Buckhannon Upshur Airport Authority called upon Chapman Technical Group to design two 10,000 sq. ft. hangars - one with an 18-ft. door height for a growing local fixed based operator and one with a 28-ft. door height for an avionics and interior refurbishing business. A specially designed reinforced floor slab accommodates the various aircraft anticipated. Innovative construction details were developed to meet the specific fire safety and building codes and stay within budget.





Grant County Airport **New T-Hangar Facility** Petersburg, West Virginia

Chapman Technical Group designed a pre-engineered metal 6-unit T-hangar facility at the Grant County Airport located in Petersburg, West Virginia. The project included site grading, paving, concrete foundation construction, and metal building erection. The project also included all necessary appurtenances and incidental construction for a complete and operational facility.

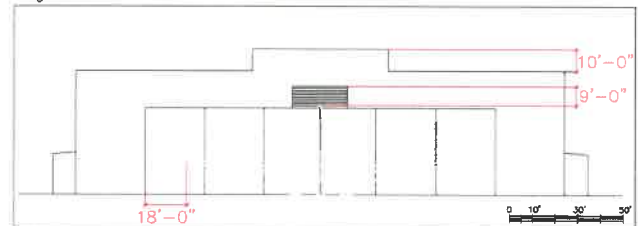


Andrews AFB Hangar

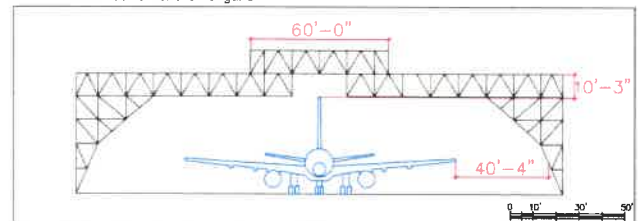
Washington, DC

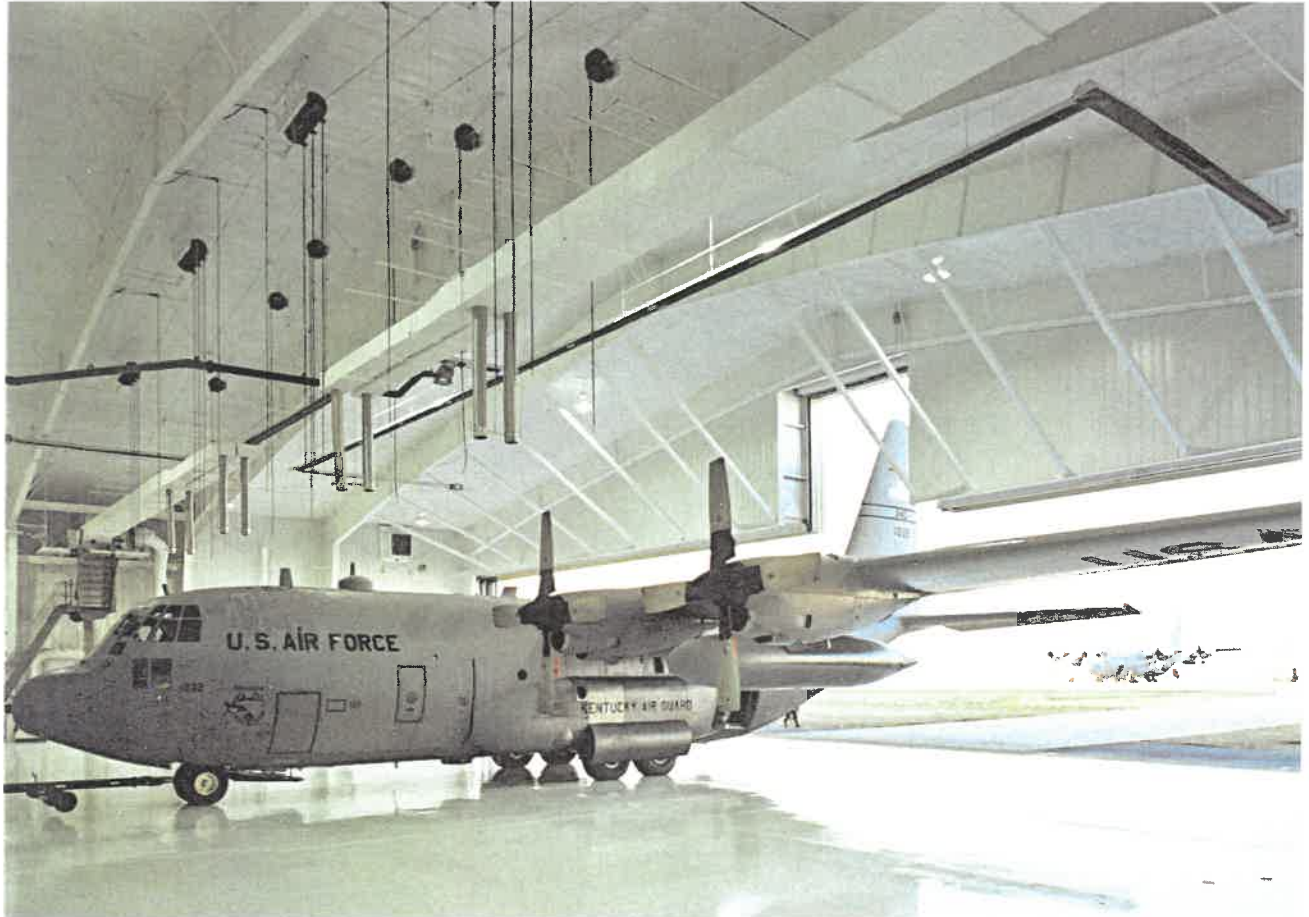
The 201st Airlift Squadron of the 113th Wing of the District of Columbia Air National Guard was scheduled to receive the first of four Boeing 737-700. To accommodate the maintenance of these aircraft, Chapman Technical Group's parent company, GRW, was selected to develop a cost-effective method for enclosing the entire aircraft within the hangar with a maximum budget of \$500,000. The existing hangar was modified and minor renovations to the hangar systems met the goals of within budget.

Hangar 9 Elevation after structural modification



BBU Structural Modifications to Hangar 9

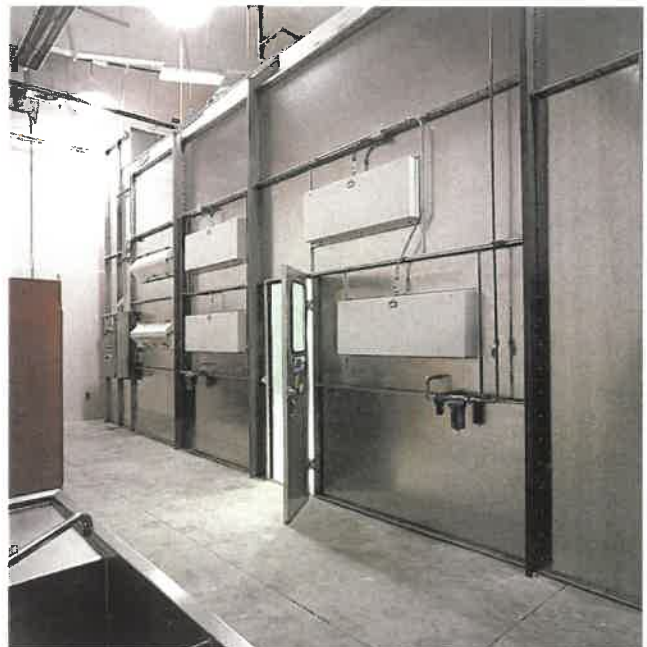




Kentucky ANG Hangar

Louisville, KY

Chapman Technical Group's parent company, GRW, provided design services for the \$4 million design-build acquisition of a modern C-130 Fuels System Maintenance and Corrosion Control (FSMCC) Hangar and shops for the Kentucky Air National Guard, providing 23,800 square feet for Level II-compliant repair of aircraft components on and off aircraft. The project included 12,500 square yards of aircraft ramp access taxiway connecting the hangar to the parking apron, and utilities for water, sanitary sewer, drainage, gas, electric, and telephone.





Georgia ANG B-1 Bomber Hangar Warner Robbins, Georgia

Chapman Technical Group's parent company, GRW, provided the fast-track design for a new 76,000 square-foot B-1B bomber hangar complex comprising two bays, 2-story office administration area with shop and maintenance service areas located on the ground floor, space for aircraft fuel systems maintenance, corrosion control program activities, and the needed utilities and special systems required. Expansion capabilities to house C-17 aircraft. Separate hangar bays house fuel cell and corrosion control functions.





Philippi Barbour Airport Multi-Tenant Building Philippi, West Virginia

This project involved the design of a 7,000 square-foot, one-story, multi-purpose/multi-tenant office and industrial facility. The building was designed as a small Aircraft Maintenance Facility and as such required a sprinkler system that included a 200,000 gallon water tank and a fire pump building. Also included was the development of a 2-acre site, 1.25 miles of DOH roads, parking areas, electrical and power requirements, and storm, sewer and water systems, as well as all landscaping.



WV Division of Highways State Road Commission Building Renovation Charleston, WV

As part of the West Virginia Division of Highways District One Campus Renovation, the former State Road Commission Building was renovated to serve as an office building for various DOH personnel. The historical 40,000 square-foot facility retained many historical features, including original doors and transoms, while providing energy-efficient and cost effective systems throughout. In addition to a complete interior makeover that included a historic information center and radio studio, the building also received new exterior doors, windows, roofing and a new elevator. A skywalk connects the building to a new Headquarters Building being constructed beside the SRC Building. A courtyard was also constructed for employee use.



ARCHITECTURE



B&O Building Restoration **WV Northern Community College** Wheeling, West Virginia

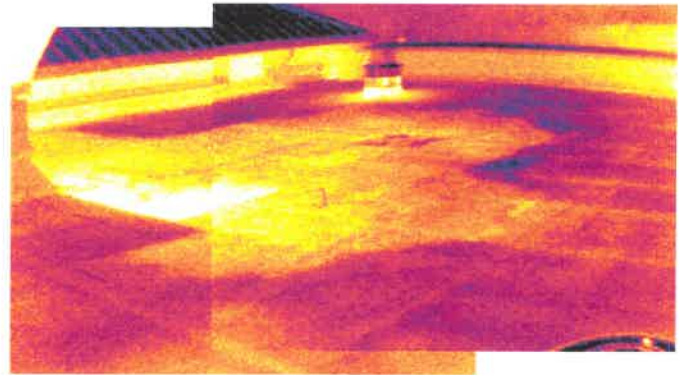
Built in 1908, the B&O Building served as the main terminal building of the Baltimore and Ohio Railroad in Wheeling, WV, until 1962. A private owner purchased the building in the 1960s and used part of the building as a bar. The State of West Virginia purchased the building in 1975 and opened it for community education in 1976 and it is now home to the Northern West Virginia Community College.

In 2021 the College engaged Chapman Technical Group to evaluate the current conditions of the B&O Building and recommend cleaning and repairs to the masonry, terra cotta, and windows.





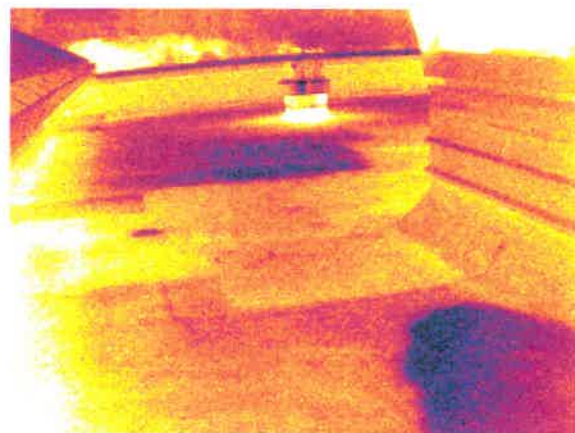
Visual image of area #1



Infrared view of area #1



Visual image of area #2



Infrared view of area #2

Knott County Judicial Center

Roof Inspection Report

2003 W Main Street
Hindman, Kentucky

With the advent of thermography, roofs can be scanned with a highly sophisticated infrared camera to detect and accurately map subsurface moisture, thereby determining whether a portion or all of the roof requires replacement. Unlike other non-destructive techniques, thermal scanning assesses every square inch of roofing, including vertical flashings and around and under roof obstructions and equipment. This results in a comprehensive view of the roof's condition, with the possibility of errors virtually eliminated.

The objective of the report was to identify area of subsurface moisture or where moisture has penetrated the roof membrane and deck structure. Those areas were

documented with roof markings and correlated on a roof map with real-life and infrared photos.

When an abnormality on the thermogram appears, usually as a lighter colored area, it can be interpreted to be either wet or at one time wet and has lost some of its original quality of texture and strength. The outline of these areas is marked on the surface of the roof with spray paint: in some areas only a number is painted, as these areas had no definite pattern or the roof is completely wet.



Raleigh County Memorial Airport Rehabilitate General Aviation Apron Beckley, West Virginia

Chapman Technical Group provided design and construction phase services for a project to rehabilitate the general aviation apron at the Raleigh County Memorial Airport in Beaver, West Virginia. The existing pavement surface was displaying areas of moderate to severe surface and alligator cracking, with one area adjacent to an existing hangar suffering from settlement associated with complete pavement failure.

It was determined this area of pavement failure was caused by the deterioration and collapse of an abandoned underground fuel storage tank. The scope of the project consisted of removing the collapsed storage tank and associated contaminated material and rebuilding the area to existing grade. Once the tank was removed and the area repaired, the remainder of the apron was rehabilitated by a combination of selective pavement milling and replacement and the application of hot pour crack and joint sealing filler.

The project contained approximately 11,500 square yards of select pavement milling, 1,500 linear feet of crack and joint sealing filler placement, 1,000 linear feet of full depth crack repair, 600 square yards of full depth pavement repair, and approximately 3,400 tons of P-401 plant-mix bituminous pavement. The project also included pavement marking and the installation of a concrete trench drain and various other drainage structures.

Southern West Virginia Paving, Inc. was the prime contractor for the paving portion of the project and J.C. Bosley Construction, Inc. was the prime contractor for the removal of the abandoned underground storage tank. Construction was completed on this \$760,000 project in early August 2009.



**WV Division of Natural Resources
City of St. Albans
St. Albans Boat Dock**

The West Virginia Division of Natural Resources teamed with the City of St. Albans to replace the boat dock at Roadside Park in St. Albans. The project also included modifications to the existing ramp to lengthen the run-off area. The parking area was completely rehabilitated and expanded.





Joseph E. Bird, ASLA

Senior Vice President Project Manager

Years of Experience: 44
Years with Chapman: 37

Education

B.S., Landscape
Architecture, 1978
West Virginia University

Registration

Architect: WV, KY, IN

Affiliations

Council
of Landscape
Architectural
Registration Boards

WV Chapter,
American Society of
Landscape Architects

Experience

Joe has been involved in a wide range of projects in his 40+ years of experience. In addition to his landscape architectural design experience, he has served as Project Manager for many major multi-discipline projects ranging from site development to major architectural projects. His experience includes coordinating the efforts of various local, state, and federal agencies.

Site Development

Site planning and project management for numerous projects throughout West Virginia ranging from small campus sites to large sites for commercial, government, industrial, and institutional development. Projects include military complexes, campuses, public housing developments and other public facilities.

Parks and Recreation

Projects include, master planning for municipal parks, swimming pools, bathhouses, cabins and support facilities for the West Virginia Division of Natural Resources and similar facilities for county and municipal park systems. Also involved in the design of facilities such as softball fields, fishing access facilities, recreation facilities for prisons, as well as passive recreation areas for public and private clients.

Miscellaneous

Other project experience includes the urban planning and development, streetscape design, roadway and storm drainage projects, as well as the project management of numerous major architectural projects throughout West Virginia.

Recent Relevant Experience

Old Central City Gazebo Space Redesign; Huntington, WV
Smith Street Streetscape; Charleston, WV
St. Albans C Street Plaza; St. Albans, WV
Scottsville Streetscape; Scottsville, KY
Meadow River Trail; Greenbrier County, WV
Clear Fork Trail; Raleigh County, WV



Phillip A. Warnock, NCARB, AIA Project Architect

Years of Experience: 31
Years with Chapman: 19

Education

B.S., Architecture, 1995
University of Tennessee

Registration

Architect: WV, KY, IN, TN

Affiliations

National Council
of Architectural
Registration Boards

WV Chapter,
American Institute
of Architects

Awards

Honor Award, WV AIA
Upshur County Courthouse

Merit Award, WV AIA
I-79 Burnsville Rest Area

Merit Award, WV AIA
State Road Commission
Building

Publications

Structure Magazine,
February 2010
"A Gem in the Mountains"
Upshur County Courthouse
Restoration

Experience

Phill is an award-winning architect with extensive experience, having worked with clients on programming / planning, budget analysis, design, construction documents, meeting coordination, bidding / negotiation services, construction phase services, and code compliance. He is especially skilled in renovation and historic restoration projects for government and municipal facilities.

Martin Campbell Field Hangar Renovation; Copper Hill, TN
Project Architect for the rehabilitation and renovation of the terminal and hangar facilities at Martin Campbell Field which was originally built around 1965. The work includes removing and replacing the metal roof, exterior metal wall panels, and the metal building's structural system. Installation of code-mandated fire walls, ADA access to the building, lighting, and HVAC improvements, and restroom renovations are included in the work.

Upshur County Regional Airport Terminal Building;
Buckhannon, WV
Project Architect for the Upshur County Regional Airport's Terminal Building. The 1,420 SF structure provides general aviation support facilities, including a pilot's lounge, waiting area, administration office, restrooms, and flight planning station.

Mercer County Airport Authority Terminal Renovations;
Bluefield, WV
Project Architect for the Mercer County Airport Authority renovation project for a 50 year-old terminal building. This 11,000 square-foot project incorporated a phased renovation/addition process, due to FAA funding stipulations, while allowing continuous occupation and operation of airline, car rental, Transportation Security Administration (TSA), and airport management facilities. The work included a new EPDM roof for the upper area and a new standing seam metal roof, roof structure, and a new facade for the lower area, new HVAC and electrical services, and upgraded restroom facilities. Issues of security, passenger flow and accessibility were addressed while providing functional improvements and a "lighter" aesthetic which is more in line with the function of the air terminal.



Jeffrey D. Bubar

Airport Consultant

Years of Experience: 50
Years with Chapman: 26

Education

University of Maine, BS, 1968
West Virginia University, MS,
1971

U.S. Army Medical Field Service
School, 1971

U.S. Air Force Jet Pilot Training,
1972-1973

Past Affiliations

West Virginia Aeronautics
Commissioner

West Virginia Airport Managers
Association; Founding Officer

American Association of
Airport Executives

Southeast Airport Managers
Association; Director

West Virginia Aviation Museum
Foundation; Director

Aircraft Owners and Pilots
Association

Charleston Convention and
Visitors Bureau; Director

St. Albans Renaissance Group;
Director

Ameribank; Director

Experience

Airport Management

Managed a commercial/ general aviation/ military airport under the governorship of a regional airport authority. Supervised a staff of 53 personnel in four departments. Wrote an Airport Certification Manual and Airport Security, Emergency and Snow Removal Plans. Established professional Airport Police and Airport Rescue and Fire Fighting Departments. Secured federal and state grants and administered dozens of projects including equipment acquisition and renovation and construction projects involving the airfield, terminal building, access roadways, parking facilities, utility service, hangars, government-occupied buildings and support facilities. Negotiated a residual airport use agreement with the airlines that served to underwrite the airport's first revenue bond issue. Developed a computer-based budgeting program linked to an airport rates and charges analysis.

Aviation Consulting

Consult with Chapman Technical Group on all matters involving airport planning and construction work. Advise planners, engineers and designers on technical issues related to Federal Aviation Regulations, FAA Advisory Circulars and Orders, aircraft performance characteristics, flight procedures and air traffic control. Counsel company staff on matters related to airport management and governance and airport client relations.

Military Aviation

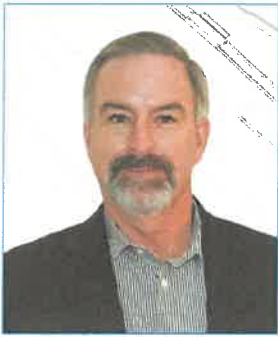
West Virginia Air National Guard; Command Pilot and Squadron Commander. Flew C-130s during Operations Desert Shield and Desert Storm.

Corporate Aviation

Corporate pilot for Chapman Technical Group, flying a Beech Baron 58.

Aviation Contracting

FAA Airport Master Records Contractor performing obstruction surveys, airfield inspection and inventory for all public-use general aviation airports in West Virginia to update each airport's FAA's Form 5010, Airport Master Record.



Robert G. Belcher, P.E.

Senior Vice President
Project Officer

Years of Experience: 39
Years with Chapman: 36

Education

B.S., Civil Engineering, 1983,
West Virginia Institute of
Technology

Registration

Civil Engineer: WV, OH, VA

Affiliations

WV Water Environment
Association

Contractor's Association of
WV

WV American Water Works
Association

WV Society of Professional
Engineers

WV American Council of
Engineering Companies

WVUIT Civil Engineering Ad-
visory Board

WV Qualifications Based
Selection Council

Awards

George Warren Fuller
Award, 2001

Experience

Water Systems

Design and project management for numerous water systems for both public and private water companies. Projects include new water treatment plants as large as 6.0 MGD, improvements to existing plants, water mains and distribution systems. Water storage projects include glass-lined steel tanks, welded high-strength steel tanks, elevated pedestal tanks, and pre-stressed concrete tanks.

Wastewater Systems

Design and project management for numerous wastewater systems throughout West Virginia. Projects include new, secondary and tertiary wastewater treatment plants as large as 4.5 MGD, improvements to existing plants, small-flow treatment plants, new and rehabilitation of wastewater collection systems, and facility plan updates.

Miscellaneous

Design and project management for large highway and bridge projects, airport improvements projects, large stormwater management projects including assistance with MS4 compliance, as well as potable water and wastewater system design for site development projects throughout West Virginia.



Sharon L. Chapman

Interior Design

Years of Experience: 25
Years with Chapman: 24

Education

B.A., Art and Interior
Design, 1993
University of Charleston

Registration

Allied Member, American
Society of Interior
Designers

Affiliations

Allied Member, ASID

St. Albans Rotary

Thomas Memorial Hospital
Foundation

Gabriel Project of WV

Experience

Sharon has extensive experience in space planning and interior design and has worked on a variety of projects ranging from industrial facilities to schools and high-end professional offices. She offers a unique perspective, understanding the need to provide durable, low maintenance finishes, while enhancing the basic architectural design with just the right aesthetic touch.

Jane Lew Elementary School Addition; Jane Lew, WV
Interior Designer for the addition and renovation project that included five new classrooms, and an updated office suite.

Smithville Elementary School Addition; Smithville, WV
Interior Designer for the addition and renovation of the Smithville Elementary School project which included the design of a new classroom wing and a new kitchen addition adjacent to the remaining buildings.

State Road Commission Building; Charleston, WV
Interior Designer for the renovation of the historic State Road Commission Building for the West Virginia Division of Highways. The 40,000 square-foot building houses offices and support facilities for the local highway district. In addition to a complete interior makeover that included a historic information center and radio studio, the building also received new exterior doors, windows, roofing and a new elevator. A skywalk connects the building to a new Headquarters Building that was constructed beside the State Road Commission.

WV Division of Natural Resources, Building 74 Renovation;
Charleston, WV
Interior Designer for evaluation and recommendations for possible improvements and upgrades to building systems in three-story, 37,000 SF, masonry-construction facility that houses approximately 100 employees. Improvements included new ceilings, floor finishes, and wall finishes.

Various State Park Cabins

Interior Designer for three new 2,200 sf deluxe 4-bedroom cabins at Chief Logan State Park; thirteen new 1,500 sf modern 4-bedroom cabins at Blackwater Falls State Park; and the renovation of nine cabins at Watoga State Park.



W. Thomas Cloer, III

NCARB, AIA

Project Architect

Years of Experience: 20
Years with Chapman: 15

Education

B.S., Architecture, 2001
University of Tennessee

Registration

Architect: WV, VA, KY

Affiliations

National Council
of Architectural
Registration Boards

WV Chapter

American Institute
of Architects

Experience

Tommy has extensive architectural experience, having worked with clients on programming, planning, budget analysis, design, construction documents, bidding, construction phase services, and code compliance. He regularly provides leadership in architectural design and project management for new building design and renovation projects such as K-12, parks and recreation, and government and municipal facilities.

Comprehensive Educational Facilities Plan

Tommy has worked as part of a team to develop the 2020 Comprehensive Educational Facilities Plan (CEFP) for both Ritchie County Schools and Clay County Schools. Work on the CEFP's include facilities assessments and reports, participation in educational planning committee meetings, presenting findings to the county board of education and assisting the county in translating educational needs

Jane Lew Elementary School Addition; Jane Lew, WV

Project Architect for the design of an addition and renovation project that included five new classrooms, an updated office suite, and a new building entrance and bus loop. Toilet rooms were also renovated and new floor finishes were installed throughout the building. A new HVAC system serves the addition, and a new sprinkler system and fire alarm were installed for the entire school. New ceilings and lighting were also provided throughout.

Clay County High School Flood Repair; Clay, WV

Project Architect for FEMA-funded project to repair flooding damage including considerable damage to Clay County High School football and softball fields, restrooms and pressbox, lower level gymnasium locker room, gymnasium floor, and bus garage. Work included floodplain analysis of Elk River to evaluate impacts of proposed improvements to athletic fields.

WV Division of Natural Resources, Sled Run Building Renovations; Thomas, WV

Project Architect for the renovation of the Sled Run ticket and concessions building. The project included an addition and reconfiguration of the existing space.



Monty Maynard, PE

LEED AP BD+C

Vice President

Years of Experience: 46
Years with GRW: 27

Education

B.S., Electrical Engineering,
1978,
University of Kentucky

Registration

Professional Engineer
(Electrical): KY, WV, IN, GA,
TN, TX, NV, NC, MS, MI, AL,
CA, DC, FL

NCEES Member allows
reciprocity with other
states

LEED Accredited
Professional, Building
Design + Construction

Affiliations

National Fire Protection
Association

International Society of
Automation

American Council of
Engineering Companies

National Council of
Examiners for Engineering
and Surveying

Experience

Monty's experience with electrical design, process instrumentation and control design, and project management is extensive. He has been involved with the design of building systems for more than 300 projects, ranging from water resources projects to the design-build of federal prisons with total construction values as high as \$984 million. His areas of technical expertise include electrical power distribution, substation design, alarm systems, communications, lighting, lightning protection, instrumentation/controls/telemetry, power quality, energy efficiency and code compliance.

Cumberland Valley Technical College Building One Renovation; Harlan, KY

Electrical Engineer. Renovation design for 31,000 SF building including updated exterior appearance, and modernized teaching spaces. Work included total replacement of building mechanical and electrical systems.

Fort Knox Macdonald Elementary School Renovation; Ft. Knox, KY

Principal-in-Charge. Renovation of a 63,000 SF Army school with year-round schedule. Involved a new standing seam roof installed over 48,000 SF to create an attic for 100% replacement of existing HVAC system equipment with geothermal-based heat pump system, new electrical service system, and fire alarm system upgrade.

Lexington Catholic High School Phase II Addition, Lexington, KY

Engineering Manager. 48,000 SF addition included 1800-seat two level gymnasium and running track, performing arts stage, art wing, and new administration area.

Marshall University Weisberg Family Engineering Laboratory, Huntington, WV

Electrical Engineer. New, 16,000 SF engineering laboratory building. Building security systems included access control and CCTV. HVAC systems feature rooftop VAV systems with variable electric reheat.



Cory Sharrard, PE

LEED AP

Mechanical Engineer

Years of Experience: 24
Years with GRW: 4

Education

B.S., Industrial Technology,
1996, Murray State University

B.S., Mechanical Engineering,
1998, University of Kentucky

Registration

Professional Engineer: KY, IN,
OH, WV, NY, FL, TN

NCEES Member allows
reciprocity with other states

LEED AP

Affiliations

American Society of Heating,
Refrigerating and Air-
Conditioning Engineers

Kentucky Society of
Professional Engineers

Kentucky Local Correctional
Facilities Construction
Authority Board

Society of American Military
Engineers

Society of Marketing
Professional Services (SMPS) -
Past President

Experience

Cory possesses more than 20 years' experience with mechanical engineering including design of traditional water source heat pump (WSHP), geothermal WSHP, hybrid geothermal WSHP, variable refrigerant flow (VRV), split system, rooftop units, unit ventilators, variable air volume (VAV), and ice storage systems. Her experience includes numerous K-12, higher education, vocation school, detention center, church, and library projects.

WV Division of Natural Resources Building 74 - South Charleston, WV
Mechanical Engineer for evaluation and recommendations for possible improvements and upgrades to building systems in three-story, 37,000 SF, masonry-construction facility that houses approximately 100 employees. Among improvements selected for design are replaced of heating and cooling systems, windows, TS fighting with LED lighting LED fixtures, and replacement of ceilings and floor finishes, as well as new DDC controls throughout building.

WV Capitol East Campus - Charleston, WV
Mechanical Engineer for planning, design, and bidding services for a 26,771 SF warehouse facility with surplus and receiving, a warehouse store, office area, maintenance shop with welding, grounds mechanic shop for vehicle maintenance, and equipment storage facility serving the General Services Division on the Capitol East Campus. Included are an open storage and bulk storage building, as well as a separate building for Capitol mail room.

Clay County Schools Bus Garage; Clay, WV
Mechanical Engineer; FEMA funded project for new bus garage constructed above 100 year flood elevation. Project included 5,000 SF masonry garage (constructed on deep foundations) with two service bays, wash bay, parts storage, and drivers lounge. Separate building houses spare tires.

Clay County High School Renovation and Addition; Clay, WV
Mechanical Engineer; Design and construction administration phase services for gymnasium and locker rooms, commons area, and HVAC system renovations; door/window replacement; and security/communications system improvements. Portion of construction will occur during summer months, but most was completed while school is occupied.

Buffalo Trace Distillery Design-Build Process Building at Wastewater Treatment Plant; Frankfort, KY
Architectural, mechanical, process, and structural design services for design-build of process building at Buffalo Trace Distillery's wastewater treatment plant in Frankfort, KY. Approximate 13,000 SF pre-engineered metal building, with height of up to 33 feet, houses equipment and processes for new wastewater treatment plant.



Jon Marcum, PE, SE

Structural Engineer

Years of Experience: 24
Years with GRW: 5

Education:

M.S., Civil Engineering, 1996,
University of Kentucky
B.S., Civil Engineering, 1995,
University of Kentucky

Registrations:

Professional Engineer/
Structural Engineer: KY
Professional Engineer: KY, WV,
IN, TN, GA, NY, NC, WA, OH,
AZ, TX, NM, KS

NCEES Member allows
reciprocity with other states

Experience

Jon has two decades of experience with all phases of structural consulting services including contracting, code searching, schematic design, design development, structural design, value engineering, structural evaluations, structural inspections, structural forensics, BIM/drafting production of contract documents, bid reviews, contract administration, as-built drawings, etc. He is experienced with a wide variety of structural design software, as well as drafting and BIM software, such as Autocad, Microstation, Draftsight, Sketchup 2016, Bentley Structural Modeler, Revit, and Tekla BIMsight.

Ashland Federal Correctional Institute Standby Power Improvements; Ashland, KY

Structural Engineer. Design-build of 750 kW standby power generator at minimum-security satellite camp and addition of four, paralleled 500 kW standby power generators at medium-security main campus.

Carter Caves State Resort Park Handrail and Bridge Improvements; Olive Hill, KY

Project Manager. Design for improvements to 1,426 feet of handrail located throughout cave system. Project included repair, replacement, and/or addition of guiderails/handrails in Cascade Cave and several others. Methodologies used not only are suited to environmental conditions of cave, but also prevent cross contamination of cave dwelling creatures and bat population. Repair of concrete bridge in Lake Room of Cascade Cave was also included.

Carter Caves State Resort Park Handrail and Bridge Improvements; Olive Hill, KY

Project Manager. Design for improvements to 1,426 feet of handrail located throughout cave system. Project included repair, replacement, and/or addition of guiderails/handrails in Cascade Cave and several others. Methodologies used not only are suited to environmental conditions of cave, but also prevent cross contamination of cave dwelling creatures and bat population. Repair of concrete bridge in Lake Room of Cascade Cave was also included.

Clermont County PUB Well Field Control Tower; Pierce Township, OH
Structural Engineer. Recondition/replacement of existing control tower for PUB water treatment plant wells 17-20. Work includes replacement of platform tower, control panels, electric wiring, handrail, and access ladder.

REFERENCES



1. Ms. Damita Johnson
City Manager
City of Oak Hill
100 Kelly Avenue
Oak Hill, WV 25901
(304) 469-9541
2. Honorable Scott James, Mayor
City of St. Albans
1488 MacCorkle Avenue
St. Albans, WV 25177
(304) 722-3391
3. Mr. Matt Yeager
Deputy Chief, Planning, Engineering, and Maintenance
West Virginia Division of Natural Resources
South Charleston, WV 25303
(304) 558-2764