

WEST VIRGINIA ARMY NATIONAL GUARD

Marshall County Readiness Center

Interior Renovations

ADJ1500000009



**Creative
Solutions**



**Attention
to Details**

06/02/15 09:42:02
WV Purchasing Division



Ms. Tara Lyle
Department of Administration
Purchasing Division
2019 Washington Street, East
Charleston, WV 25305

June 2, 2015

REF: ADJ150000009

Dear Ms. Lyle:

In response to your qualifications request for the professional Architectural and Engineering Design services, the E.T. Boggess, Architect, Inc. team is pleased to submit information regarding our experience and specialized expertise. Our team is comprised of highly qualified firms versed in:

- Architectural Design Services
- Interior Design
- Construction Documentation
- Construction Administration
- MEP Engineering
- Structural Engineering
- Graphics/Imagery Production

I will be your architect and will be the person-in-charge for all aspects of the project. Our team is very familiar with the services provided and the spaces required by the WV Army National Guard. Our team was responsible for the design of the new WV Army National Guard Readiness Center in Elkins as well as a number of renovation projects for multiple government agencies. We understand and appreciate the challenges that state agencies face and believe we offer the service, knowledge and experience you will need to successfully accomplish the interior renovations to the Marshall County Readiness Center.

The ETB team emphasizes a client-centered design approach, incorporating mutually defined project objectives. Through this focus, we can assure the State of West Virginia and the WVARNG that needs and project issues will be clearly identified and addressed through an engaged, interactive programming, design, and construction process. Our design process will be conducted with an attention to detail, creative problem solving and passion towards project success. We value this opportunity to serve you and look forward to personally presenting our credentials.

Sincerely,

A handwritten signature in black ink, appearing to read 'Todd Boggess', is written over a faint, larger version of the signature.

Todd Boggess, AIA, NCARB
President

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Qualifications & Technical Expertise

Interior Renovations for the Marshall County Readiness Center

The improvements planned for the Marshall County WVARNG Readiness Center will allow for the guard to continue their efforts to serve the needs of the citizens of West Virginia. The guard's dedication to train and be ready to assist as needed is commendable. We owe it to them to provide an environment that encourages their efforts and allows them to respond efficiently once they have been called into action.

The E.T. Boggess Architect, Inc., team understands the importance of creating a positive work environment. The Elkins Readiness Center, shown below, was designed to address the training and storage needs that the modern-day guard faces. The complex included a main headquarters building and a separate maintenance building for storage and equipment maintenance.



WVARNG – Rendering



WVARNG - Completed

ETB has a great deal of experience with renovation projects. The renovation/adaptive re-use design of the former U.S. Post Office in order to satisfy the needs of the Princeton Library received the Honor Award for Renovation Design in 2012 from the WVAIA. We have provided interior re-designs for government agencies, including the GSA, educational organizations, and private individuals throughout our state. We understand the challenges that renovation projects entail and we make every effort to minimize the likelihood of “surprises” during the construction process. It is important for architects to be prepared, although not as important as it is for the guard and we can help you create the spaces you need to continue being well-prepared.

We have assembled an excellent team to provide you with all the A/E services you will need to accomplish your project. ETB has worked with all the consultants listed on numerous governmental projects and believe we have the experience, knowledge and commitment to insure the maintenance complex for the WVARNG will satisfy your current and future needs. Our team has a reputation for producing quality designs that can save energy, money, and valuable resources over time, as well as comply with the ICC International Energy Conservation Code. Our team consists of the following:

Architect:	E.T. Boggess Architect, Inc., Princeton, WV
MEP Consultant:	CMA Engineering, Crosslanes, WV
Interior Design:	Watkins Design, Charleston



Qualifications & Technical Expertise

Philosophy

Communication, collaboration, and consensus are the three elements we feel are essential to the planning, design and building process. The architect is responsible for the finished product, but the design process must include guidance and review by you and representatives from the WVARNG. Our goal is to develop a “*partnership*” with our clients – a relationship that includes a long-term commitment, trust, and shared vision.

ETB believes architectural design should be an *interactive process*. We work closely with you to identify and define all your project goals, objectives, functions, responsibilities, and relationships. This interactive approach enables us to develop facilities that meet your requirements, as well as being aesthetically distinctive. Design cannot be mass produced or provided in a “cookie cutter” fashion, it must be developed from scratch with the unique attributes of each individual project in mind. Our approach is not about us and our ideas . . . it is about *you and your ideas*. We strive to help you realize your dreams.

Methods

The Integrated Design Process is our process of design in which the users, owners, the ETB team (architects and engineers) and project participants are all integral team members. This integrated process and the implementation of high performance design requires both efficiency and innovation. In our role with this team as the design leader and project organizer, ETB will be responsible for coordinating and orchestrating the work of the many disciplines and users involved throughout the design, documentation, and administrative functions of the project.

Utilizing the interactive design approach will best serve the needs of the WVARNG by allowing us to better identify your objectives and produce long-term solutions. Your project will be completed by emphasizing the following activities:

- **Understanding goals.** We develop a plan for identifying and prioritizing individual goals as a means for addressing the overall project.
- **Brainstorming ideas.** We investigate opportunities for greater service through value engineering, strategic partnering, or an alternative delivery method.
- **Assuring timelines.** We generate a management plan to fulfill deliverables and meet milestones on schedule. All team members participate in and monitor this plan.
- **Maintaining client contact.** We are accessible, convenient, and committed to success from the beginning through the design process, and after completion.
- **Inviting performance feedback.** We involve all team members and clients in project evaluation at closeout and determine how well time, cost, and design goals were met.

Project Management - Our project managers provide extraordinary leadership managing the team dynamics, budget, schedule, and the flow of information. The project manager’s role also includes assisting the client with the management of services and consultants that may not be a part of this contract, but still may have an impact on workflow and infrastructure coordination. The effective implementation of your goals and objectives will be realized thru early and consistent collaboration among all the design disciplines. This will result in opportunities and challenges being discussed and addressed as we proceed thru the design process.



Qualifications & Technical Expertise

Cost Management - We believe that the management of cost and/or risk begins with the development of fully vetted alternatives which enable you to make informed choices about the project. We search for simple and effective solutions which support the different services that will be offered at maintenance complex. We also believe that the evaluation of cost must extend beyond the cost of construction, and consider the costs of operations, human resources, energy and sustainability.

Project Schedule Management - Completing projects on time requires effective schedule management and a commitment of the entire project team including the WVARNG, representatives from the state, and the design team. The process begins with the development of the project schedule with input from each stakeholder engaged in the process. Accelerated schedules require even more dedication to benchmarks and deadlines, identifying production problems early and making the necessary adjustments before issues become too great to be effectively managed.

Construction Administration – Contract administration services are important in order to ensure construction conforms to the design intent of the construction documents; to lessen project risks; and to identify and resolve construction problems early. We also strive to assist you in understanding the construction process. The architect, serving as a construction administrator, observes construction for conformity to construction drawings and specifications.

Services/tasks we provide include . . .

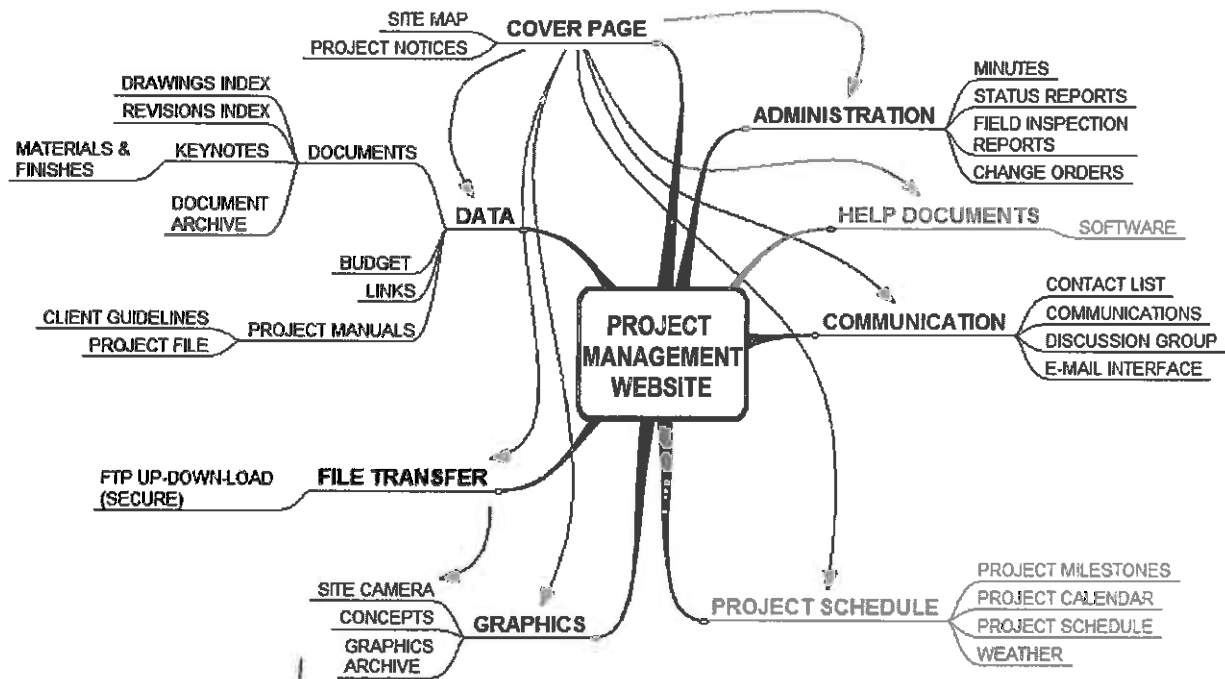
- Establish lines of communication.
- Maintain and distribute paperwork/records.
- Respond to contractor's requests for information.
- Track changes in construction documents.
- Review contractor's requests for payment.
- Review shop drawings and product information.
- Prepare field reports and records.
- Supervise completion and closeout.
- Assist with any post-occupancy issues.

Technical Expertise - Information Management and Website Development

As mentioned previously, project coordination is ETB's responsibility. As a service to the client and for the sake of efficiency, ETB creates an online (secured and password protected) website for each project which functions as a project management tool. The site gives the project team direct access to project information, including design plans, imagery, construction documents, submittals, logs, field reports, and meeting minutes. This method has proven very successful by keeping the client and the team members well informed and insuring that the latest information is always readily available. This has been a valuable tool to further ensure quality control/assurance standards are being maintained.



Qualifications & Technical Expertise



WEBSITE MAP - As developed and managed by ETB architects

We maintain the site after the project is complete and this can provide the client with a valuable resource for ongoing Facilities Management.

The site has the following main information areas which may be expanded or adapted to meet the particular needs of the project:

Home Page

General information such as project description site location and site information.

Navigation Map

An outline of the Site Navigation structure.

Administration

All the latest administration documentation will be kept here, such as:

- Site Minutes
- Status Reports
- Field Inspection Reports
- Change Orders



Qualifications & Technical Expertise

Documents-Drawings

This is the working area of the Web-Site and will include an interface for Transfer of documents via FTP. The sections include:

- Drawings Index & Revisions
- Specifications & Keynotes
- LEED Documentation (if applicable)
- Drawings (CAD and PDF format)

Graphics

The Graphics page will provide an interface to view to Concept Models etc.

- Concept Graphics.
- Site Images.
- Job Camera
- Rendered Images.

Project Schedule

The latest version of the following will be kept here:

- Project Schedule
- Project Milestones
- Project Meetings/ Calendar
- Current Site Weather conditions

Communication

This page provides all the latest contact details of the parties involved in this Project. The sub-sections include:

- Contact List
- Communications
- Discussion Group
- E-mail interface

Help Documents

This page provides assistance on any issue related to the Project and the Web-Site. Software required for the use of this site (such as drawing viewers) can also be downloaded here.



Qualifications & Technical Expertise

TYPICAL PROJECT WEBSITE – by ETB architects



E. T. BOGGESS ARCHITECT INC

PO Box 127 101 Rockledge Ave. Princeton WV 24740-0727
Ph 304 425 4491 Fax 304 425 2028
<http://www.etbarchitects.com>



West Virginia Army National Guard / U. S. Army Reserve ARMED FORCES RESERVE CENTER (AFRC) Randolph County, Elkins, West Virginia



PROJECT ADMINISTRATION MANAGEMENT HOME PAGE

WORKING PROJECT WEBSITE FOR CONSTRUCTION
PHASE. AUTHORIZED ACCESS ONLY ALLOWED

DISCLAIMER: THIS WEBSITE IS MAINTAINED FOR CONVENIENCE,
AND EASE OF COMMUNICATION ONLY. NO INSTRUCTION,
COMMUNICATION, OR OTHER DOCUMENT CONTAINED HEREIN WILL
BE CONSIDERED VALID IN TERMS OF THE CONTRACT. ALL DATA &
INFORMATION MUST BE VERIFIED AGAINST THE CONTENTS OF THE
ORIGINAL AUTHORIZED DOCUMENT. INFORMATION CONTAINED
HEREIN WILL NOT RELIEVE THE CONTRACTOR OF HIS
RESPONSIBILITY FOR MAINTAINING PROPER DOCUMENTATION AND
ADMINISTRATIVE OR OTHER DUTY WITHIN THE CONTRACTUAL
OBLIGATIONS.

[CONTACTS](#) | [CONSTR-ADMIN](#) | [KEYNOTES](#) | [DWG INDEX](#) | [DWG FILES](#) | [PROCEDURES & DATA](#)

PROJECT NOTICES

Preliminary bid dates proposed Elkins AFRC - Utility Extension Contract

ADVERTISEMENT AND 16ND	JULY FRI. 9TH
PRE-BID MEETING	JULY TUE. 20TH
ADDENDUM #1	JULY FRI. 23RD
LAST DAY FOR QUESTIONS	JULY WED. 28TH
ADDENDUM #2	JULY FRI. 30TH
BID OPENING	AUG. THU. 5TH

PROJECT DESCRIPTION

The proposed Readiness Center will consist of the primary facility, military equipment parking (MEP), and privately owned vehicle (POV) parking. The primary facility will be housed in an a 54,200 square-foot, single-story building with a drill hall.

The site is located approximately 8 miles west of Elkins, West Virginia and borders on U.S. Route 33 (Corridor H), a four-lane highway with limited access control. A new two-lane access road will be required up the hill to the usable area of the property.

The proposed site is approximately 112 acres and site occupies a hill in a large bend of the Tygart Valley River, with a large, mildly sloping hilltop and moderately steep -- to steep slopes down to the river. Approximately 90 of the 112 acres are wooded with another 22 acres of unreclaimed strip mine covered by pine trees and grasses. The site drains directly into the Tygart Valley



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History

E. T. Boggess Architect, Inc., is a 11 person architectural firm located in Princeton, West Virginia. Our firm was established in 1966 by Ted Boggess and has been successful because of a team approach and partnership-type attitude with all involved in the design and construction process. Having grown up in the practice and with a life-long love of architecture, Todd became a full time presence with the firm in 1988 after receiving a Masters in Architecture from Clemson University. Their unique relationship as father/son/mentor/apprentice and, now, partners is both exciting and rewarding as the practice continues to flourish and evolve.

Reputation

Our firm lives or dies by its reputation. We work for "Pride in Product" and are confirmed by the amount of repeat business we can truthfully claim.

The architects at ETB are well-respected for their high ethical standards, as well as professional and civic activities. They have been asked to serve as expert witnesses and arbitrators in legal disputes. They have also been selected to serve on various local, state and national committees. These committees cover areas from determining local zoning ordinances to reviewing and developing educational requirements for future architects, to preserving West Virginia's historic architecture. Todd has recently been appointed to the WV Board of Architects by Governor Tomblin. The Board of Architects protects the life, health, and property of the people of the State of West Virginia by ensuring that proper architecture practices are used in the state.

Attitude

Bigger is not always better. ETB has purposely controlled size in order to maintain personal involvement and quality control. We feel that it is important to maintain close client contact and availability to respond to your needs and address any situations that may arise. Your project will not get lost in the shuffle. We are, however, of sufficient size and capabilities to accommodate the needs of your project, as well as ensuring the successful completion of our current workload. The depth of our personnel is such that we can assign individuals to the appropriate task during each phase to ensure all your project's needs are satisfied.

Teamwork

Our projects and design services are dependent on both our abilities as architects and our commitment to perform and implement a set of standards in order to create a design that responds to the needs of our client. In house, ETB actually functions as a team of consultants with individual strengths and abilities emphasized by each employee's role within the team. In addition to being a strong design oriented firm, we offer expertise in communication and information management, construction documentation, project administration, and quality control.

Throughout West Virginia, we have developed relationships with government agencies, contractors and material suppliers which will be valuable as we address the challenges associated with this project. ETB has worked with many of the code officials, including the state fire marshal, and consider them an extension of our team, another member who is concerned about the final design. We review our designs with the State Fire Marshal's Office in Charleston at regular intervals during the design process, as well as on-site inspections during construction.



Experience

Over the past 49 years, ETB has accomplished many different types of buildings in 12 different states and 1 foreign country. We have not limited ourselves by focusing on one particular type of project or a single location. Instead, we choose to maintain a diverse practice which allows us to begin each project with renewed enthusiasm. Our strength is in the delivery of appropriate and analytical solutions for complex buildings and doing so within restricted budgets and time constraints.

ETB was one of the first architectural firms in the state to implement the use of computer-aided design and drafting into the everyday practice of architecture more than thirty years ago. Today we continue to lead the industry as we utilize photorealistic imagery through computer modeling and digital photography. The building 3-D model and associated imagery can be developed early in the design process for your presentations. This helps everyone better understand design approaches and project contextual relationships within a setting.

Since 2007, the majority of ETB's projects have revolved around all types of governmental and educational facilities, including multiple projects for the WVARNG, WVDOH, WV Higher Education Policy Commission and the WV Community & Technical College System. These projects have included both new construction and renovation design services for offices, classrooms, multi-use spaces, maintenance and storage.

Quality Assurance

We feel quality assurance is the ability of an architect to provide the client with a set of documents that satisfies the client's needs and are as accurate as possible. ETB believes quality assurance is an ongoing process, not just a one-time occurrence. No project is perfect, however, we strive to achieve maximum client satisfaction. To that end, we have set the following goals for ourselves:

- Promote teamwork
 - within the office
 - with outside consultants
 - with regulatory officials
 - with representatives from the WVARNG
 - with representatives from Marshall Readiness Center
- Quality management throughout entire project – *Website*
- Prompt response to client's requests – *Availability*
- Creation of quality construction documents – *Purpose Driven*
- Error *prevention*, not error catching – *Standard Practices*
- Personal pride in our work - *Motivation*
- Education and Training in-house (staff mentoring) – *Continuing Education*
- Go the extra mile whenever necessary – *Service Oriented*



Quality Control

Quality control starts with matching expectations about quality standards and life cycle costs with budget and scope during planning and design reviews. This continues through construction delivery with a program of inspections, tests, and certifications that are typically handled through a third-party agency. Quality control should flow seamlessly from one phase to another. The “partnership” we develop during the project assists us in maintaining a high level quality control standard with everyone working together in the project’s best interest. We strive to coordinate performance among the entire project team in order for a completed building program to fully satisfy your needs and expectations. The quality control plan we follow should help eliminate errors, reduce cost and improve overall building quality. ETB normally follows the plan as outlined below:

- Keep the lines of communication open and consistent between all team members
 - Regular/scheduled project meetings
- Share lessons learned from recent similar projects, include value engineering
 - Up-to-date detailing
- In-house reviews to address issues with constructability and budget restraints
- Utilize past experiences related to construction administration
 - Address before issue or occurrence
- Provide post construction administration services to be utilized on future projects
 - Every project or opportunity can be a learning experience for continued growth to better serve clients





Clingenpeel/McBrayer & Associates, Inc.

Firm Profile



824 Cross Lanes Dr. Charleston, WV



5 Riddle Court, Morgantown, WV

Services

CMA Engineering is a West Virginia based small business firm, providing services in the areas of HVAC, plumbing, fire protection and electrical engineering. Incorporated in 1986, our firm has always believed that a successful project requires a comprehensive approach. This includes all facets of project development, starting with master planning, working closely with the client, developing the completed construction documents, and working with contractors during the bidding and construction administration phases. However, our depth of expertise goes far beyond the traditional design/bid/build service. CMA Engineering is a proven leader in the design/build delivery method. From developing the performance design criteria for owners to designing the mechanical, electrical and plumbing systems for contractors, CMA has an impressive portfolio of design/build experience.

CMA Engineering maintains its reputation of design and service quality by keeping informed of the latest innovations and technical trends regarding energy-efficiency and sustainability in mechanical, electrical and plumbing design. CMA is the engineer on record for the design/build team for the new West Virginia Consolidated DEP Office Building, the first LEED certified building in the State. Our staff includes an accredited professional for the Leadership in Environmental and Energy Design (LEED) and we incorporate the most efficient and sustainable "green" designs in all of our projects.

History

CMA Engineering has provided engineering design services on numerous projects of varying size and complexity. Clients include architects, industrial companies, governmental agencies, contractors, engineers, developers and private organizations. With offices strategically located in Charleston and Morgantown, our professional staff can provide clients with exceptional hands-on services for planning, meetings, site visits and construction administration without effecting the project's budget.

WVARNG Experience

For over 28 years, CMA has provided electrical and mechanical design and contract administration services to various WVARNG facilities covering the State. These facilities and projects range from the smallest renovations of existing armories and readiness centers to construction of new reserve centers and even combination facilities like 911 centers and maintenance garages. Many times, special site-related issues have complicated design due to remote locations, poor water quality or pressure, unreliable local power systems, etc. Many new armories we have designed include distance learning auditoriums, secure telecommunications rooms, firing ranges, weapon simulations rooms, firearm vaults, drill halls, large kitchens, equipment storage, bunk rooms, and expandable classrooms. CMA has consistently met the challenges and exceeded expectations by customizing design to address all concerns while staying within project schedules and budgets. We are proud of our service to the West Virginia Army National Guard.

Clingenpeel/McBrayer & Associates, Inc.

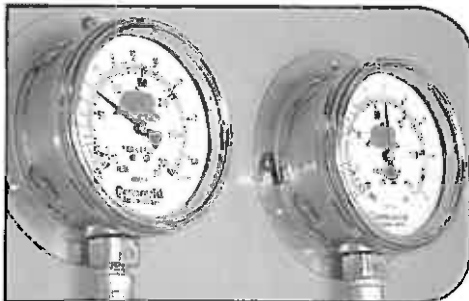
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(304) 343-0316 phone (304) 343-5146 fax

5 Riddle Court Morgantown, WV 26505
(304) 598-2558 phone (304) 598-2472 fax

M E C H A N I C A L

CMA Engineering experience includes:

Constant Volume Air Handling Systems
Variable Volume Air Handling Systems
Demand Control Ventilation Systems
Natatorium Dehumidification Systems
Building Energy and Management Control Systems
Industrial Ventilation and Exhaust Systems
Steam and Condensate Systems
Cooling Plants and Distribution
Heating Plants and Distribution
Energy Recovery Systems
Water Source Heat Pump Systems
Low, Medium and High Pressure Air Distribution Systems
Direct Digital, Pneumatic and Hybrid Control Systems
Kitchen Ventilation and Exhaust Systems



(top) Ruby Memorial Hospital—Morgantown, WV
HVAC Exhaust System

(middle) Memorial Ice Rink—South Charleston, WV
Refrigerant Pressure Gages

(bottom) Alderson Federal Correctional Facility—Alderson, WV
Steam Plant



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www.cma.wv.com

E L E C T R I C A L

CMA Engineering experience includes:

Underground Ducts and Utility Structures

Intrusion Detection

Closed Circuit Television

Cable and Master Antenna Television

Medium Voltage Distribution and Substations

Secondary Voltage Distribution

Engine Generators and Battery Inverters

Transient Voltage Suppression

Interior Lighting

Exterior Lighting

Sports Lighting

Theatrical Lighting

Lighting Control

Uninterruptible Power Supply Systems

Lightning Protection

Intercommunications Systems

Nurse Call

Voice and Data Systems

Fire Detection Systems



(above) Split Rock Pools—Snowshoe, WV
Indirect Lighting System

(below) Memorial Ice Rink—South Charleston, WV
Chiller Power and Control Panel



Clingenpeel/McBrayer & Associates, Inc.

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PLUMBING & PIPING

CMA Engineering experience includes:

Sanitary Sewer Systems

Storm Sewer Systems

Natural Gas Distribution

LP Gas Distribution

Fuel-Oil Distribution

Compressed Air Systems

Vacuum Systems

Chemical Waste Systems

Process Water Systems

Deionized Water Systems

Domestic Water Systems

Helium Distribution Systems

Domestic Water Pumping Systems

Sewage Pumping Systems

Water Heating

Automatic Fire Sprinkler Systems

Standpipe Systems

Fire Pumps, Storage Tanks, Service Mains

Medical Gas Systems



(top) Split Rock Pools—Snowshoe, WV
Piping & Pump Room

(middle) Memorial Ice Rink—South Charleston, WV
Piping & Chilling

(bottom) Alderson Federal Correctional Facility—Alderson, WV
Steam Piping



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www.cma.wv.com



We provide all aspects of interior design service, including:

- Programming
- Schematic design, space planning, and design development
- Contract and bid documents
- Interior construction administration
- Lighting design
- Custom casework and millwork design
- Furniture design
- LEED Green Building Rating System consulting

With over 22 years of commercial interior design experience and 7 years of recent design experience for the WV Army National Guard, we are uniquely qualified to provide interior design services for the maintenance building at the Moundsville Armory. Interior design for the military requires a detailed understanding of mission, space program, building codes, and owner expectations. As West Virginia's only 100% commercial interior design firm, Watkins Design Works brings this level of detail to the WVARNG, as well as the creativity needed to provide functional, attractive interior spaces that meet project goals and objectives.

Watkins Design Works is a commercial interior design and green building consulting firm, established in January 2014. Our work is focused in West Virginia and surrounding states.

DUNS Number..... 079258297
 CAGE Code 71X86
 NAICS Codes 541410, 541620
 EIN 46-4275408

Small Business Administration Certifications:

- Woman-Owned Small Business
- Economically Disadvantaged Woman-Owned Small Business

State of West Virginia Vendor Certifications:

- WV Oasis Vendor Code 190493
- Small Business and Woman-Owned Business

Watkins Design Works, LLC
 Jill M. Watkins, LEED AP BD+C, NCIDQ, ASID, Principal
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 jill@watkinsdesignworks.com
 http://www.watkinsdesignworks.com

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Project Information

E.T. Boggess, Architect, Inc.

Project	Type	Goals	Size	Cost	Comp.
<p>WVARNG Readiness Center</p> <p>Location: Elkins</p> <p>Project Manager for the WVARNG: Dan Clevenger - 304-561-6451</p>	New	<p><i>Provide offices, classrooms, kitchens, showers for local armed forces to train & prepare.</i></p> <p><i>Serve as base of operations in emergency.</i></p>	56,000 sf	\$15.5 mil	2012
<p>WVARNG Exterior Renovations</p> <p>Location: Charleston - Coonskin</p> <p>Project Manager for the WVARNG: Charles Bowman - 304-561-6654</p>	Reno.	<p><i>Upgrade exterior of Joint Forces HQ, including restoration of existing metal fascia, metal accent areas, and replacement or restoration of windows.</i></p>		\$700,000	2015
<p>Greenbrier West High School Addition</p> <p>Location: Charmco</p> <p>Purchasing Director: Dave McClure - 304-647-6460</p>	Add. and Reno.	<p><i>Provide new admin wing, auditorium, aux. gym, classroom & connecting corridors, and roof replacement. Upgrades to MEP, fire alarm & security/access systems.</i></p>	150,000 sf	\$20 mil	2012
<p>Princeton Public Library</p> <p>Location: Princeton</p> <p>Project Manager - then City Librarian Connie Shumate - 304-384-5366</p> <p><i>Winner: WVAIA Honor Award for Renovation Design 2012</i></p>	Reno.	<p><i>Renovate former historic USPO to accommodate needs of public library including book stacks, offices, storage, conference rooms, computer lab area, and improved access.</i></p>	14,000 sf	\$3.8 mil	2010

WV ARMY NATIONAL GUARD READINESS CENTER

Elkins, West Virginia



PROJECT DETAILS

owner/district:
WV Army National Guard

year:
2011

size:
50,000 sf

The Readiness Center has two main entrances; the front into the lobby and the rear into the assembly hall. The circular central core of the entrance leads to the administrative wing (east) and classroom wing (west). The facility contains a learning center library, storage areas, locker rooms, kitchen, break-room, and Telcon spaces. Areas within the lobby will be used for recruiting, family support and distance learning.

The project also included the design and construction of a separate structure for secure storage maintenance/ workshop/ office structure.



MAINTENANCE BUILDING

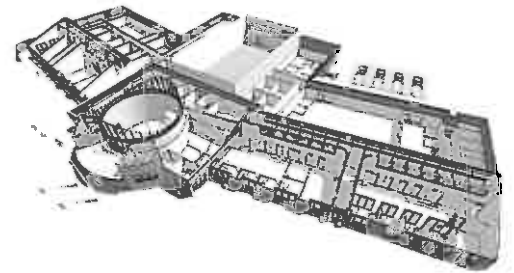


COMPUTER VISUALIZATION

WV ARMY NATIONAL GUARD READINESS CENTER

Elkins, West Virginia

PROJECT DETAILS



WV ARMY NATIONAL GUARD JOINT FORCES HEADQUARTERS

Coonskin Park, Charleston, West Virginia

PROJECT DETAILS



owner/district:
WV Army National Guard

year:
2015

type:
Exterior Renovations

The exterior renovations ETB designed for the Joint Forces Headquarters include general facade updates, new window systems, and restoring the original metal cornice. The imagery shown here depicts the options that were considered. The project is currently out for bid.



Existing Metal Facade



Painted Metal Facade
Work Package 02 - Base Bid



New Perforated Image Metal Panel System
Work Package 05 - Alternate A
CONCEPT STUDY



GREENBRIER WEST HIGH SCHOOL ADDITION

Charmco, West Virginia



PROJECT DETAILS

owner/district:
Greenbrier Co. Board of Education

year:
2012

size:
150,000 sf (3-Story)

The addition and renovations designed for Greenbrier West High School will allow students to access all school facilities without having to exit the buildings. Previously, the three buildings were on separate levels and students were exposed to the elements when traveling between classes.

New construction included an Administration wing, Auditorium, Auxilliary Gymnasium, Media Center, Classrooms and connecting Corridors. Renovations included Mechanical, Electrical, Plumbing, Fire Alarm and security/access system upgrades, site and sidewalk improvements, and existing roof replacement.

Improvements included a complete update of an old welding lab with new ventilation and mechanical systems, new welding booths, lighting and finishes.



PRINCETON PUBLIC LIBRARY

Princeton, West Virginia



PROJECT DETAILS

owner/district:
City of Princeton

year:
2010

size:
13,331 sf, (Two Story)

This renovation/adaptive re-use project involved a total interior renovation that transformed the abandoned former USPO building into a new focal point for Mercer Street. In addition to providing much needed space for books, this design enabled the library to have designated spaces for audio/visual, as well as an exclusive West Virginia Room. Activities associated with the operation of the library are easily maintained from the custom designed control desk. The basement offers rooms dedicated to three specific age groups, and an open computer area. Public meeting /conference rooms with state-of-the-art technology equipment are also located in the basement.

Exterior work involved the restoration of the cut stone and brick, total roof replacement and improved access.



WV DOH DISTRICT ONE OFFICE BUILDING

Charleston

PROJECT DETAILS

owner/district:
WV DOH

year:
2014

size:
various



ETB provided the original complex design for District Ten, which included an office building, a maintenance building (now called equipment shop), a bridge/sign shop, and a lab building. The buildings have been modified over the years to satisfy the needs of the DOH and each specific site. The design brings together a variety of services and functions that were previously scattered throughout the district onto a single, campus-like setting. This lay-out has been very effective and is being repeated throughout the state.

District One recently completed the office building which included a connector bridge to an existing building.

The Equipment Shop at District Eight is currently under construction



WV DOH DISTRICT SIX COMPLEX

Moundsville



PROJECT DETAILS

owner/district:
WV DOH

year:
2000 thru 2008

size:
various

ETB provided the original complex design for District Ten, which included an office building, a maintenance building (now called the equipment shop), a bridge/sign shop, and a lab building. The buildings have been modified over the years to satisfy the needs of the DOH and each specific site. The design brings together a variety of services and functions that were previously scattered throughout the district onto a single, campus-like setting. This lay-out has been very effective and is being repeated throughout the state.

District Six, shown here, has completed the Office Building, Maintenance Building, and Bridge and Sign Shop.



WV DOH DISTRICT NINE OFFICE BUILDING

Lewisburg



owner/district:
WV DOH

year:
2011

size:
various

ETB provided the original complex design for District Ten, which included an office building, a maintenance building (now called equipment shop), a bridge/sign shop, and a lab building. The buildings have been modified over the years to satisfy the needs of the DOH and each specific site. The design brings together a variety of services and functions that were previously scattered throughout the district onto a single, campus-like setting. This lay-out has been very effective and is being repeated throughout the state.

At this time, District Nine has completed only the office building.

The Equipment Shop at District Eight is currently under construction.



WV DOH DISTRICT TEN COMPLEX

Gardner



PROJECT DETAILS

owner/district:
WV DOH

year:
1997

size:
various

ETB provided the original complex design for District Ten, which included an office building, a maintenance building (now called equipment shop), a bridge/sign shop, and a lab building. The buildings have been modified over the years to satisfy the needs of the DOH and each specific site. The design brings together a variety of services and functions that were previously scattered throughout the district onto a single, campus-like setting. This lay-out has been very effective and is being repeated throughout the state.

These buildings are being utilized by the DOH at districts throughout the state. District Six has completed all but the lab building. Districts One and Nine have only completed the main office building. The equipment shop at District Eight is currently under construction.



Governmental – New Construction

- WV Army National Guard Readiness Center, Elkins, WV
- WVDOH District 10 HQ Complex, Gardner, WV
 - Office Building
 - Maintenance Building
 - Bridge/Sign Shop
 - Lab Building
- WVDOH District 6 HQ Complex, Moundsville, WV
 - Office Building
 - Maintenance Building
 - Bridge/Sign Shop
- WVDOH District 9 Office Building, Lewisburg, WV
- WVDOH District 1 Office Building, Charleston, WV
- WVDOH District 8 Equipment Shop, Elkins, WV
- WV Tourist Information Center, Princeton, WV
- Mercer County Courthouse Annex, Princeton, WV
- U.S. Social Security Offices for the GSA, Welch, WV
- U.S. Social Security Offices for the GSA, Williamson, WV
- Princeton Railroad Museum (*Historical Re-creation*), Princeton, WV
- Bramwell Coal Interpretive Museum (*Historical Re-creation*), Bramwell, WV
- Mercer County Health Center, Bluefield, WV
- Mercer County EOS/911 Center, Bluefield, WV
- Mercer County Civil Air Patrol Hanger and Headquarters, Bluefield, WV
- WV Community & Technical College System / Higher Education Policy Commission
 - Advantage Valley Advanced Technology Center, So. Charleston, WV
 - North Central Advanced Technology Center, Fairmont, WV
 - New River Community & Technical College Headquarters, Beaver, WV

Governmental – Additions and Renovations

- WV Army National Guard Joint Forces Headquarters (Exterior Renovations), Coonskin Park, Charleston, WV
- Princeton Public Library, Princeton, WV
- City Hall/Municipal Building, Princeton, WV
- Pipestem State Park Conference Center, Pipestem, WV
- Mercer County Courtroom for the new judge, Princeton, WV
- Mercer County Memorial Building, Princeton, WV
- Mercer County Courthouse Energy Upgrade, Princeton, WV
- Greenbrier County Convention & Visitors Center, Lewisburg, WV
- U.S. Social Security Offices for the GSA, Bluefield, WV
- Department of Health & Human Resources, Welch, WV
- Division of Motor Vehicles, Welch, WV
- Hatfield/McCoy Trailhead Office, Bramwell, WV
- Hatfield/McCoy Trails Office, Lyburn, WV
- Rupert Public Library, Rupert, WV
- Wyoming County Senior Center for the Council on Aging, Oceana, WV
- Richwood Visitor's Center, Richwood, WV
- Beckley Financial Center – IRS Offices for the GSA (*Adaptive Re-use*), Beckley, WV
- WV Community & Technical College System / Higher Education Policy Commission
 - New River Community & Technical College Arts & Sciences Building, Lewisburg, WV



Project Location: Moorefield, WV

Project Description: CMA Engineering provided design of HVAC, plumbing, fire alarm and fire sprinkler systems, and electrical systems for the new 57,100sf armory facility including an on-site, standby emergency power system designed to provide 100% of the overall power requirements to the facility in addition to an electrically- driven fire pump. The building consists of an armory combined with a 911 center. Facility also included a vehicle maintenance bay, a distance learning center and classrooms. Designs included a coordination of the campus's complete underground medium-voltage power and telecommunications systems and separation of the armory's and 911 center's telecommunication networks.

Project Owner Contact: Major Rocky Hodges
WV Army National Guard
(304) 561-6353
Rocky.Hodges@us.army.mil

Completion Status: Completed in 2014

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(304) 343-0316 phone (304) 343-5146 fax

5 Riddle Court Morgantown, WV 26505
(304) 598-2558 phone (304) 598-2472 fax



Project Location: Elkins, WV

Project Description: CMA Engineering provided design of HVAC, plumbing, fire alarm and fire sprinkler systems, and electrical systems for the new 54,500sf all-electric armory facility including an on-site, standby emergency power system designed to provide about 40% of the overall power requirements of the facility in addition to an electrically driven fire pump. Plans were provided to allow an additional engine/generator set to be installed to more than double the system's capacity in the future. Designs included a portable on-site, standby emergency power system for the facility's lift station, and coordination of the campus' complete underground medium-voltage power and telecommunications systems.

CMA complied with the latest requirements of the West Virginia Army National Guard to provide door access security at selected entrances including card readers with magnetic locks or electric hinge locks and door contacts for access monitoring. The fire alarm system was interconnected with a mass notification system for customized procedures in response to various emergency and threat conditions. Power and raceway designs were provided to support the Guard's elaborate security systems to safeguard their weapons vaults.

Project Owner Contact: Major Rocky Hodges
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Rocky.Hodges@us.army.mil

Completion Status: Completed in 2012

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Clarksburg Armory



Weston Armory

Project Location: Morgantown, WV

Project Description: CMA Engineering provided mechanical, electrical and plumbing design and is currently providing construction administration services for the renovation of the existing restrooms and locker rooms at the WV Army Reserve National Guard facilities in Clarksburg and Weston. Renovations included new lighting and receptacles, upgraded hot water heating radiators and additional ventilation (exhaust fans and intakes only).

Completion Status: To be completed in 2015

Clingenpeel/McBrayer & Associates, Inc.

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Project Location: Gassaway WV

Project Description: CMA Engineering provided mechanical, electrical and plumbing, design services for the renovation of 24,170 square feet of a single story structure including a 10,900 square feet drill hall and the addition of a new 4,180 sf single story facility to house lockers, storage space, a lobby, corridors and office space. The design included upgrades to plumbing and electrical utilities as well as new HVAC systems and controls for the addition and renovated areas; new power, lighting and communications design; and modifications to the fire alarm, fire sprinkler, security and other systems.

Construction was accomplished while the facility was fully occupied.

Completion Status: Completed in 2010

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5 Riddle Court Morgantown, WV 26505
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Project Location: St. Albans, WV

Project Description: CMA Engineering provided mechanical, electrical and plumbing, design services for the renovation of 16,407 sf of a single story facility and a single story addition of 13,940 sf composed primarily of office space, storage space, a lobby and corridors. The project also included the addition of a free-standing, insulated metal building (approximately 1,760sf) divided into three bays for vehicular storage. A new electric fire pump and associated water storage tank were added to address low water pressure problems at the site. Construction was accomplished while the facility was fully occupied.

Completion Status: Completed in 2011

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Project Location: Bluefield, WV

Project Description: CMA Engineering provided mechanical, electrical and plumbing design and contract administrative services for replacement and upgrade of the existing underground power service and addition of a new stand-by, emergency engine/generator set with a new automatic transfer switch for the armory. The new emergency power system was designed to support the existing armory's loads while the new distribution panel was designed to support future HVAC loads anticipated to be added in future projects. The future HVAC loads are not to be supported by the generator.

Completion Status: Completed in 2014

Clingenpeel/McBrayer & Associates, Inc.

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Project Location: Dunbar, WV

Project Description: CMA Engineering provided design and contract administration services for replacement and upgrade of the existing overhead power service to a new underground service and the addition of a stand-by, emergency engine/generator set with a manual transfer switch for the armory. The engine/generator set was an available, existing military grade field unit and the transfer switch was re-used from another armory that had upgraded its service. The emergency power system was designed to support the existing armory loads while the new main distribution panel was designed to support future HVAC loads anticipated to be added in future projects. The future HVAC loads are not to be supported by the generator. CMA also provided design and contract administrative services for replacement and upgrade of the telecommunications systems service entrance and general upgrade of the facility's telephone and data systems.

Completion Status: Completed in 2014

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Project Location: Welch, WV

Project Description: CMA Engineering provided design and contract administration services for replacement and upgrade of the existing overhead power service and addition of a standby, emergency engine/generator set with a new automatic transfer switch for the armory. The engine/generator set was re-used from another armory that had upgraded its service. The new generator was modified to change its voltage to suit the new application. The emergency power system was designed to support the existing armory's loads while the new main distribution panel was designed to support future HVAC loads anticipated to be added in future projects. The future HVAC loads are not to be supported by the generator.

Completion Status: Completed in 2014

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Eleanor Maintenance Center

CMA Engineering provided mechanical, electrical and plumbing design services for a 132,000sf maintenance facility to house combined support maintenance shop and Class IX USPFO warehouse. CMA has continued to provide engineering services for the addition of the paint booth, entrance guard house, MCOFT pad, and covered storage.



Eleanor Readiness Center

CMA Engineering provided engineering services for the design of mechanical, electrical and plumbing systems for the new 80,000sf readiness center, including a 16,000sf section that is utilized by the United States Navy.



Summersville Readiness Center

CMA Engineering provided engineering services for the design of mechanical, electrical and plumbing systems for the 42,000sf readiness center. This facility also features areas for use by the City of Summersville for events



Lewisburg Readiness Center

CMA Engineering provided mechanical, electrical and plumbing design services for a 37,000sf readiness center that includes a vehicle maintenance bay.



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West Virginia University Child Care Center

CMA Engineering provided the design of HVAC, fire sprinkler, fire alarm, plumbing, electrical lighting/power and communications systems for the new two story child care facility at 201 Laurel Street, Morgantown, WV.



Mylan Pharmaceuticals

CMA Engineering provided mechanical, electrical, plumbing and fire protection systems design for new corporate office in Morgantown, WV. CMA Engineering also provided engineering services for the 500,000sf addition to the plant facility.



Comvest Office Building

CMA provided mechanical, electrical, plumbing and fire protection design services for new two-story, approximately 5,400sf, office building in Bridgeport, WV.



Go-Mart Office Building

CMA provided mechanical, electrical and plumbing design services for the new 13,000sf corporate office building in Gassaway, WV.



Bridgeport Public Safety Substation

CMA Engineering provided design of HVAC, plumbing, fire sprinkler and fire alarm systems, communication systems, lighting and electrical power for the new 15,000sf facility that houses both the fire and police departments. The facility is a two-story building on one end with a high bay fire truck section and adjacent one story service space.



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P.O. Box 1000
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Contact: Mr. John Ferguson
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Yeager Airport
100 Airport Road
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(304) 344-8033

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Morgantown, WV 26505
Contact: Mr. John Thompson
(304) 293-3625

Davis Memorial Hospital
P.O. Box 1484
Elkins, WV 26241
Contact: Steve Johnson
(304) 637-3129

Kanawha County Schools
3300 Pennsylvania Avenue
Charleston, WV 25302
Contact: Mr. Charles Wilson
(304) 348-6148

State of West Virginia
1900 Kanawha Blvd, East
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Charleston, WV 25305
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(304) 558-0250

Harrison County Schools
P.O. Box 1370
Clarksburg, WV 26302
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Joint Interagency Training and Education Center
1001 Army Road, Kingwood, WV 26537
Architect: ZMM Architects & Engineers
Project Manager: Todd Reynolds, WVARNG CFMO, 304.561.6445

As a joint venture between ZMM and AECOM, the *Joint Interagency Training and Education Center* at Camp Dawson was designed to provide a 24/7 operations center and expanded billeting facility. Jlll was responsible for interior design of the Billeting addition, including the main lobby, Liberty Lounge, signage, millwork, billet rooms, and display area for the Fallen Soldier Statue; coordination of finishes with the AECOM team for all areas of the project, including the ACP; and assisted in LEED coordination. She played an integral role in achieving SSc8 Light Pollution Reduction as the main author of an appeal to the USGBC. The project is on track to receive LEED Gold Certification.



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1116 Smith Street, Suite 407
Charleston, WV 25301
304.553.7002 office
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Jackson County Armed Forces Reserve Center
8832 Point Pleasant Road, Millwood, WV 25262
Architect: ZMM Architects & Engineers
Project Manager: Greg Thaxton, WVARNG CFMO, 304.561.6445

The *Jackson County Armed Forces Reserve Center* is designed to house several units, with an expanded drill hall that is used for various community events. Jill worked closely with the architect to develop a comprehensive interior color palette that works seamlessly with the exterior materials, as well as interior details, lighting design, and LEED coordination for the project, including the maintenance building. She designed enhanced acoustical treatments for the drill hall that expand its functionality as a large group space. The AFRC is designed to meet LEED Silver certification.





Morgantown Readiness Center
Morgantown Municipal Airport, Morgantown, WV 26505
Architect: ZMM Architects & Engineers
Project Manager: Darryl Sears, WVARNG CFMO, 304.561.6445

As home to the 249th Army Band and other units, the *Morgantown Readiness Center* features an auditorium, practice rooms, offices, classrooms and drill hall. Jill was responsible for interior design of all areas, coordination with the acoustic consultant and LEED coordination. The project is designed to meet LEED Silver certification.





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Scope of Services

RENOVATIONS

The ETB team of professional consultants can provide the WVARNG with all of the services required for the renovation of the Marshall County Readiness Center. In order to successfully accomplish your objectives, we will approach the project by emphasizing the following procedure:

- Establish goals and objectives
- Review building condition and uses and evaluate space needs
- Recommendation concerning phasing of building areas to be renovated
- List of improvements to utilities, telecommunications, and infrastructure
- Estimate the timing and projected costs for the project
- Establish project priorities for recommended changes
- Project schedule and final plan

SPECIFIC TASKS

The services listed above will be accomplished in steps. As mentioned previously, we utilize an interactive design approach. We will therefore be involving your designated representatives in order to understand and address your specific needs.

Typically, ETB renovation projects involve 4 phases:

- Investigation, evaluation and report preparation for existing systems and structure.
- Preparation of Preliminary Design Documentation and Preliminary Estimate of Probable Construction Costs.
- Preparation of Construction Documents and Final Estimate of Probable Construction Costs.
- Bidding and Construction Administration Services.

Investigation and Evaluation Phase:

- Upon receipt of Notice to Proceed, ETB will review all available original plans, specifications and other relevant data documenting existing systems and structures.
- Conduct a thorough evaluation and inspection of the interior and exterior of the building
- Perform engineering analysis to establish specific mechanical (HVAC), electrical and plumbing needs/requirements.
- Meet with your representatives or committee to present and discuss preliminary findings, including preliminary budget amounts for renovation and equipment replacements.



Scope of Services

Preliminary Design Phase:

- Prepare preliminary design drawings including plans and typical sections and details.
- Prepare Outline Specifications and Preliminary Estimate of Probable Construction Costs.
- Meet with your representatives or committee to review preliminary design drawings, proposed scope of work, proposed system product selections and alternatives, and Preliminary Estimate of Probable Construction Cost. Review/establish budget and contingency and establish Final Construction Phase Schedule (bidding and award).

Construction Document Phase:

- Prepare Construction Documents including detailed drawings and specifications commensurate with established scope of work.
- Prepare Final Estimate of Probable Construction Costs.
- Assist with coordination/preparation of non-technical provisions of the contract documents. (Bid Advertisement, safety/security compliance, temporary facilities, utility access, etc.)
- Meet with your representatives or committee as necessary to review progress, discuss proposed design and budget refinements, value engineering proposals and other general coordination issues.
- Assist you with review, selection and pre-approval of Contractors

Bidding and Construction Phase:

- ETB can provide general administrative assistance to the WVARNG, State of WV and the contractor(s) during the Bidding and Construction Phases including:
 - Reproduction and distribution of Construction Documents
 - Attendance at pre-bid and pre-construction meetings
 - Preparation of addenda
 - Review of bids
 - Review of contractor submittals/shop drawings
 - Review/approval of contractor's applications for payment
 - Review/response to RFI and construction change order requests.
 - Regular on-site Construction observation and reporting
 - Preparation of project punch list and sign-off
 - Review of project close-out documents/ compliance



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High Performance Design

High Performance Buildings – those that incorporate the very best design strategies and building technologies – are long-term, critical investments in the future of our state. They simultaneously provide better learning environments for students, cost less to operate, and help protect the environment. High Performance Buildings are healthier (superior indoor air quality); thermally, visually, and acoustically comfortable (day-lighting); energy, water and material efficient (life cycle cost analysis); safe and secure, adaptable, and easy to operate and maintain. They also incorporate environmentally responsible site planning, stimulating architecture, foster a sense of pride and accountability, and provide a resource for the entire state.

Our team of professionals will help the WVARNG maintain a higher level of performance, as well as retain quality staff, reduce operating costs, and reduce liability, all in an environmentally friendly and economical manner by utilizing High Performance Design. We are committed to providing facilities that incorporate both High Performance and Sustainable Design features so that our state's natural resources and finances are best utilized.

Sustainable Design

Sustainable Design is a direction in architecture that we have been practicing for many years. ETB currently has three employees who are LEED Certified, as well as additional members of our team. We feel this direction in designing and constructing buildings is necessary to achieve the minimal impact on our world's natural resources. We must learn to use these natural resources in conjunction with our technology to achieve the quality and standards of life that do not destroy future generations' environments. These directions are very cost effective when properly approached. The architect and the client need to recognize and understand that cost is measured in many ways. We must approach solutions that provide the comforts we seek and do so within restricted budgets. It truly is a team effort to make it work to everyone's satisfaction.

Sustainable design recognizes the interdependence of the built and natural environments; it wants to harness natural energy flows and biological processes, eliminate reliance on fossil fuels and use of toxic materials, while improving resource efficiency.

The following information contains ideas and recommendations that we reference on all of our projects.

Site, Water, Energy, Materials and Indoor Environmental Quality

These are the five impact categories the LEED credits are organized under. These areas are related and interconnected. For this reason, some credits will impact more than one category. This LEED approach will be utilized to describe our design approach that is sustainable, cost effective, and compliant to state requirements, scope, and applicable codes.

Sustainable Sites

- Site selection should take advantage of the East-West linear axis to expose much of the building to North/South light – Passive Solar.
- The site should not harm the surrounding environment, but make improvement on water, soil, and habitat.



- Limit disruption to existing vegetated terrain. Natural forested areas should remain as is, thus reducing direct site impact.
- When designing the overall building and the structure, prevailing wind direction and building orientation to minimize heating/cooling costs.
- Buffer zones should be left as undisturbed as possible.
- Landscape strategy should slow down, retain and bioremediate stormwater run-off. Indigenous plantings of grasses, low shrubs, and trees, create more porous, diverse, and shaded sites.

Water Efficiency

- We often take for granted the precious nature of water as a resource. Strategies for reducing consumption of potable water should be practiced where practical. This kind of conservation based on practicality and wise use has no sacrifice on our quality of life.
- The overall site development lay-out and design should make use of existing site terrain slopes and drainage patterns.
- By recapturing site water, the use of potable water can be entirely eliminated for landscape and maintenance purposes.
- One of the facets of a building that can consume enormous quantities of water is the landscape. Landscaping should be accomplished using native plants that are adapted to their environment without much need of irrigation, pest control, or maintenance.
- Efficient fixtures range from low flow flush valve toilets to waterless urinals that can dramatically reduce consumption rates. Waterless urinals also require less plumbing and less maintenance, which can reduce first cost and life cycle costs. Sensor faucets and gray water plumbing systems can reduce consumption as well.
- Installation of watersaving and automatic shut off, sensor activated, plumbing fixtures.

Energy and Atmosphere

- Improve energy efficiency while ensuring thermal comfort thru the development of passive solar strategies to improve comfort and reduce energy demands first; then optimize the efficiency of the HVAC system.
- Energy efficiency is one of our team's top priorities because of the broad range of impacts that energy production has on the environment and economy. LEED promotes not only reducing a building's dependence on energy, but in improving the sources of what energy it does consume.
- Design strategies that are effective in reducing the energy consumption have an important relationship on the ones that will be effective in improving the indoor environmental quality.



- Explore opportunities to reduce reliance on fossil fuels and to use cleaner sources of power.
- The building orientation and design should maximize the South and North light, and minimize the harsh, harder to control, low sun at sunrise and sunset.
- The use of exterior shade devices and interior light shelves should reflect the direct rays, diffusing daylighting and bringing it further into the interior.
- HVAC strategies that reduce energy use of mechanical systems can be passive – using building envelope design natural ventilation strategies in the design of spaces, as well as active-relying on technologies like displacement ventilation. This stack effect of rising hot air pulling cool air upward can potentially serve as a light source throughout a building.
- Daylighting is a passive strategy that improves the indoor environmental quality of a space.
- The utilization of a daylight and occupancy sensors could be used to control the lights in day lit spaces.
- Using photosensors in daylit spaces to control dimmable ballasts allows a system to work without being actively operated. Without dimming the lights would cycle on and off in response to changes in daylight levels. With dimming lights, the change would still be in response to ambient light levels but it would be subtle and not distracting to the occupants, as well as consuming less energy while lessening the overall cooling load of the building.
- The utilization of a trombe wall could be explored as an effective indirect-gain passive solar technique on the south elevation of the building. These tall 12'-18' foot high, 12-16" thick masonry walls would be covered with a double layer of glass 1" in front of the wall's surface. Solar heat is absorbed by the walls' dark colored outside surface and stored in the wall's mass where it radiates into the space over a period of several hours. Heat travels thru a masonry wall at an average rate of 1 hour per inch. So heat absorbed on the outside of an 8 inch thick concrete wall at noon will enter the interior around 8:00 p.m.
- Vents can also be added to the top and bottom of the air gap between the glazing and thermal mass. The vents have one-way flaps which prevent convection at night, making heat flow directional. This is an isolated passive thermal collector. The vents to the interior are closed in the summer months when the heat gain is not wanted.

Materials and Resources

Our team practices Simplification of Systems and Reduction of Use as a means to reduce the cost and impact on our environment.

- With every material that can be simply reused, the impact associated with its extraction, manufacture, delivery, installation, and eventual disposal are eliminated.
- For example, poured concrete slabs could utilize stained or sealed concrete floor being an acceptable finish, rather than adding the various materials associated with a carpet or tile system.



- There are a number of different lists of criteria that help define whether a building material or product may be preferable environmentally.
- LEED gives credit to projects that show that they have reduced the resource consumption of the building by specifying products that are renewable, recycled, salvaged, certified wood, or that are low-emitting materials.
- Implementation of appropriate waste management during construction and operation of the building. By putting an advanced plan into place for the effective recycling and salvage of building materials during construction can reduce landfill burdens.
- Some aspects of a product's environmental performance we consider are:
 - products that are natural and biodegradable, that do not contain hazardous or toxic materials
 - energy efficient
 - made of renewable materials and/or recycled materials
 - made of certified wood
 - healthy for indoor air – low voc
 - healthy for the atmosphere
 - non-toxic in use, production, or at end of useful life
 - recyclable at the end of useful life
 - made near to the building site – low transportation impacts (i.e. masonry plant)
- For building exteriors, using thermal and moisture-barrier systems that reduce heating and cooling loads.

Indoor Environmental Quality

- Effective delivery of fresh air is a priority to our design team.
- Use natural ventilation and/or HVAC systems that promote ventilation effectiveness.
- Locate building intake and exhaust locations carefully to avoid contamination.
- Protect indoor air quality through careful selection of building materials with attention given to methods of installation, finishing and maintaining.
- Good building ventilation is required during building construction as well as the life of its use.

Daylighting

- Advanced daylighting systems and control strategies can be developed for different parts of the building depending on use, orientation, location, etc.
- The building façade designs, interior finishes, structural expression, the selection and integration of systems and services are all related to the buildings daylighting plan.

- Daylighting design should influence the basic decisions about the building's shape and orientation.
- Treat the building as a luminaire.
- Separate the vision and daylight glazings.
- Position the daylighting apertures to create mood and visual focus.
- Address the requirements of the visual task.
- Integrate the daylighting system with the architecture and other building systems.

Integrated Design Team Approach - Design Process and Innovation

In an attempt for a more sustainable practice, our team is looking to deepen our partnerships, emphasizing early, open, communication lines, ensuring that all in the end product have the opportunity to influence the project. We want all team members partnering together in the solution.

Design developed with flexibility in mind, simple circulation patterns eases expansion possibilities reconfiguration for adaptive reuse. This enhances building longevity. Flexible building infrastructures for HVAC, power and communications will be adaptable for future needs and changing functions. The use of fixed cabling, ductwork and chases that are embedded into the building structure should be avoided. The need for longevity and flexibility calls for a design to ease periodic refurbishment and selective replacement of building systems.

Code Compliance

ETB's designs will comply with all applicable codes, including the ICC International Energy Conservation Code and the ANSI/ASHRAE/IESNA Standard 90.1-2007.



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Todd Boggess

AIA, NCARB, Architect, President

Design and
Production

Steve
Mackey

Nathan
Turner

Technology &
Information

Roy
Morum

Imagery and
Documentation

Dale
East

Chris
Clark

Construction
Administration

Chris
Canterbury

Eric
Gatchell

Consultants

MEP . . .
CMA Engineering

Interior Design . . .
Watkins Design

Todd Boggess, AIA, NCARB, Architect
President



EDUCATION

- Master of Architecture, Clemson University School of Architecture
- International Studies, Clemson University Daniel Center for Urban Design & Building Studies, Genoa, Italy
- Bachelor of Arts Degree in Design, Clemson University School of Architecture

RESPONSIBILITIES

Todd joined ETB as a project architect and office manager in 1988 after graduating from Clemson University. In January, 2001, he assumed the office of President.

Todd is responsible for . . .

- architectural design and development
- project management and coordination
- computer aided design and visualization
- interior design
- site planning

Your project will receive his complete attention, from the interview and project meetings, through the construction process. As the president of the firm, you are putting your trust in him and he takes that commitment very seriously. He wants to make sure you are satisfied with our service, performance, and design.

PROJECTS

Todd's design for the WVARNG Readiness Center in Elkins included the main 50,000 sf single-story facility to serve the Army Reserve and National Guard, along with a separate structure for secure storage, maintenance/ workshop and office space. The needs of the WVARNG were reflected in the design, which includes the following areas:

- assembly hall
- lobby
- administrative wing
- classroom wing
- learning center
- library
- storage areas
- locker rooms
- kitchen/break-room
- Telecon spaces



PROJECTS – Public Buildings

New Construction:

- WVARNG Readiness Center, Elkins, WV
- Mercer County Courthouse Annex, Princeton, WV
- WDOH District 10 Headquarters Complex
- WDOH District 6 Headquarters Complex
- WDOH District 9 Headquarters Complex - *Office Building*
- WDOH District 1 Headquarters Complex - *Office Building (under construction)*

Renovations:

- WVARNG Joint Forces Headquarters, Coonskin Park, Charleston, WV
- Princeton Public Library, Princeton, WV
- Princeton City Hall, Princeton, WV
- Greenbrier County Convention and Visitors Center, Lewisburg, WV
- Mercer County Courthouse Improvements and Energy Upgrades, Princeton, WV
- U.S. Social Security Offices for the GSA, Bluefield, WV
- Pipestem State Park Conference Center Addition & Renovations, Pipestem, WV
- Mercer County War Memorial Building Improvements, Princeton, WV

AWARDS

- WVAIA "Honor Award" for Renovation Design of the Princeton Public Library – April 2012
- Princeton/Mercer County Chamber of Commerce "Excel Award" – January, 2011
- *West Virginia Executive Magazine's* "Young Guns" - Fall, 2003
- Princeton/Mercer County Chamber of Commerce "Citizen of the Year - 2000"
- Princeton Elks Club "Citizen of the Year - 2000"



Stephen Mackey *Planning & Design*



EDUCATION

- Bachelor of Arts Degree in Design, Clemson University School of Architecture
- Master of Architecture, Clemson University School of Architecture

RESPONSIBILITIES

With over 29 years of experience in all phases of design and construction, Mr. Mackey brings strong design, management and leadership skills to the firm. His significant experience has enabled him to successfully oversee the design and construction of a number of large government projects. Specific project responsibilities include:

- code review and analysis
- program development
- conceptual design
- design visualization
- project coordination
- construction specifications

PROJECTS

Mr. Mackey rejoined ETB Architects in 2009 after serving as Executive Vice President for two Florida Architectural firms. During his absence, Mr. Mackey served as project manager on several large projects for the Savannah District Corps of Engineers including the 72,000 sf Truscott Air Terminal at Hunter Army Airfield in Savannah, Georgia which serves as the platform for deploying and redeploying US Army, Reserve Component Army National Guard and Army Reserve units and soldiers. Additional military and governmental projects he managed include:

- Truscott Air Terminal, Hunter AAF, Savannah, GA
- Florida Air National Guard Drug Interdiction Laboratory, Jacksonville, FL
- Chapel for Kings Bay Naval Submarine Base, Kings Bay, GA
- Concord HH-60 Operations/Para rescue Facility, Moody Air Force Base, GA
- Base Supply Support Centre, Robins Air Force Base, GA
- Florida Dept. of Law Enforcement Crime Laboratory & Office Building, Jacksonville, FL



Roy Morum, LEED G.A.
Project Manager

EDUCATION

- Bachelor of Architecture, University of the Orange Free State, South Africa
- Master of Design Management, UNITEC, Auckland, New Zealand



RESPONSIBILITIES

Roy joined ETB in 2004 as a project architect. His area of expertise is in design, documentation, and information management. He will be responsible for the ftp site that we will create to share project information. Before joining ETB, Roy completed major works in South Africa and New Zealand. His work in the USA includes government facilities for the West Virginia Army National Guard and other public buildings.

Roy's Master's Dissertation, "*A Model for Knowledge Management in an Architectural Enterprise*" deals with effective communication and creative project / information / data management. He has developed processes and skills in this field that contribute much to the successful outcome of a project – and the continued facilities maintenance of a building.

Roy is responsible for . . .

- planning/programming
- construction documentation
- coordination of other disciplines
- ftp site design and implementation
- information management

PROJECTS

Roy's expertise in project management and communication is reflected in his use of technology to enhance the delivery process via the internet and FTP. His mastery of information management systems will ensure that team members, contractors, and your representatives will be able to share ideas efficiently and cost effectively.

- WVARNG Readiness Center, Elkins, WV
- Panther/laeger Elementary School, McDowell County, WV
- Mathena Cultural Arts Center, Princeton, WV
- Mercer County Health Center, Green Valley, WV
- Wyoming County Senior Center (*Renovations*), Mullens, WV



Nathan Turner, LEED G.A.
Project Manager



EDUCATION

- Bachelor of Science, Engineering – Architecture, Fairmont State University
- Master of Architecture (May, 2009), Boston Architectural College

RESPONSIBILITIES

Mr. Turner joined ETB in 2009 and brought with him a wealth of experience in architectural design, as well as construction methods and practices. His prior experience with educational facilities has already proven extremely valuable as we have several elementary, middle, and high school projects at various stages of completion. Nathan has obtained LEED certification and will assist in our efforts to provide a “green” approach to as many projects as possible.

Specific project responsibilities include:

- architectural programming
- construction documentation
- project management
- project coordination
- construction specifications
- construction administration

PROJECTS – Public Buildings

- Advantage Valley Advanced Technology Center for the WVC&TCS, So. Charleston, WV
- North Central Advanced Technology Center for the WVC&TCS and Allied Health, Fairmont, WV
- New River Community and Technical College Headquarters & Allied Health Building, Beckley, WV
- New River Community and Technical College Arts & Sciences (*Renovation*), Lewisburg, WV
- WV Council for Community and Technical College Education - Facility Programming
- Rainelle Elementary School for Greenbrier County, WV
- Lewisburg Elementary School for Greenbrier County, WV



Chris Canterbury, Associate AIA
Construction Admin Manager



EDUCATION

- Bachelor of Science Engineering Technology/Architecture, Fairmont State University

RESPONSIBILITIES

Chris joined ETB in 2000 as a CADD Technician. His focus in recent years has been project administration and his current position of Construction Administration Manager reflects that area of expertise. Your project will benefit from his superb organizational skills. He attends meetings and keeps track of your needs and wishes through notes and minutes. His timely response to submittals will ensure that your project stays on its construction schedule.

Chris is responsible for . . .

- construction administration
- organizing and attending meetings
- contacting material suppliers
- responding to contractor's requests for information
- reviewing submittals and shop drawings
- site visits/observations

PROJECTS – Public Buildings

During the construction of the Mercer County Courthouse Annex, Chris monitored the budget very closely. He distributed updated amounts at the monthly meetings with the building commission and was instrumental in keeping the project under-budget. Chris was also very involved in the renovations at the Princeton Library, again closely monitoring the budget and keeping change orders to a minimum.

- Princeton Public Library (*Renovations/Adaptive Re-use*), Princeton (USDA Funded)
- WVDOH District 6 Equipment Shop, Moundsville, WV
- WVDOH District 8 Equipment Shop, Elkins, WV
- WVDOH District 9 Office Building, Lewisburg, WV
- Greenbrier Convention & Visitors Center (*Renovations/Adaptive Re-use*), Lewisburg
- Mercer County War Memorial Building (*Renovations*), Princeton, WV
- Mercer County Courthouse Annex, Princeton, WV





Timothy L. Cox, P. E., CBCP

President
Mechanical Engineer
(304) 598-2558
tcox@cmawv.com

Education

University of Colorado
Boulder, Colorado
Bachelor of Science in Mechanical Engineering

Registrations/Professional Affiliations

Registered Professional Engineer in WV, VA, MD, KY
Association of Energy Engineers-CBCP
CPD (Certified in Plumbing Engineering)
Member of ASHRAE
American Society of Plumbing Engineers
National Association of Fire Protection Engineers
WV Society of Healthcare Engineers
WV Chapter of A.I.A.

Experience

Timothy Cox, President and Senior Mechanical Engineer of CMA Engineering, brings 32 years of mechanical and plumbing design experience to our clients. Timothy is a Certified Building Commissioning Professional through Association of Energy Engineers.

Project Experience

Design/Build-Criteria Development
Morgantown Events Center
West Virginia University Intermodal Parking
Marshall University Parking Facility
Yeager Airport Facility

Educational Facilities K-12

New Rainelle Elementary School
Salem Middle School Classroom Addition
South Harrison High School HVAC Replacement
South Harrison Middle School HVAC Upgrades

West Virginia University-Open End Contract since 1999

Coliseum Life Safety Renovations
New Soccer Stadium
New Wrestling Training Facility

Military Experience

New Moorefield Readiness Center
New Elkins Readiness Center
Gassaway Armory Addition & Renovations
St. Albans Armory Addition
Clarksburg/Weston Armory Renovations

Mylan Pharmaceuticals, Morgantown, WV

Various projects including HVAC plumbing, fire sprinkler and controls for new North Plant expansion, office building, fluid bed addition, parking garage and weighing and packaging

Clingenpeel/McBrayer & Associates, Inc.

824 Cross Lanes Drive Charleston WV, 25313
(304) 343-0316 phone (304) 343-5146 fax

5 Riddle Court Morgantown, WV 26505
(304) 598-2558 phone (304) 598-2472 fax



Daniel L. Ellars, P. E., AP BD+C

Principal
Electrical Engineer
(304) 343-0316
dellars@cmawv.com

Education

West Virginia University Institute of Technology
Montgomery, WV
Bachelor of Science in Electrical Engineering

West Virginia State University
Institute, WV
Bachelor of Science in Business Administration

Registrations/Professional Affiliations

Registered Professional Engineer in WV, PA
Leadership in Energy & Environmental Design-
Accredited Professional-Building Design and
Construction
U..S. Green Building Council
Member of ASHRAE
National Fire Protection Association
Institute of Electrical & Electronics Engineers
WV Chapter of A.I.A.

Experience

Daniel Ellars, senior electrical engineer, brings 25 years of electrical design and project management experience to our clients. Mr. Ellars had 17 years of experience with American Electric Power providing advice and coordination for new construction, additions, renovations and energy audits. Dan also served as the project manager for AEP's prime and emergency power systems program to provide on-site power generation to small and large, commercial and industrial customers across AEP's seven state territory.

Project Experience

Military Experience

New Moorefield Readiness Center
New Elkins Readiness Center
St. Albans Armory-Addition and Renovations
Gassaway Armory-Addition and Renovations
Welch Armory-Electrical Upgrades
Bluefield Armory-Electrical Upgrades
Dunbar Armory-Electrical Upgrades

Mylan Pharmaceuticals

New Office Building
North Plan Expansion

Recreational Facilities

Summit Bechtel National Scout Reserve
Canaan Valley Ski Resort

WV Department of Transportation

New District 1 Administration Building
New District 8 Administration Building
Interstate Lighting Upgrades
WVDOH-Utility Study for all 10 Districts

Educational Experience

New Talcott Elementary School
New Fairdale Middle School
Chamberlain Elementary-Elevator Addition

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5 Riddle Court Morgantown, WV 26505
(304) 598-2558 phone (304) 598-2472 fax



Matthew C. Corathers, P.E.

Mechanical Engineer
(304) 598-2558
mcorathers@cmawv.com

Education

West Virginia University
Morgantown, WV
Bachelor of Science in Mechanical Engineering

Registrations/Professional Affiliations

Registered Professional Engineer in WV
Member of ASHRAE
WV Society of Healthcare Engineers

Experience

Matthew Corathers, mechanical engineer, joined CMA's professional staff in 2008. He has since become registered as a mechanical engineer and has been involved in numerous projects starting from development of fees, design, bidding and construction administration services developing as a complete engineer. He is also cross training between disciplines of plumbing, electrical, and fire sprinkler to provide more complete services to our clients.

Project Experience

West Virginia University
New Daycare and Nursery Facilities
Engineering Science Building- Laboratory Renovations

Hospital Experience

Davis Memorial Hospital-New Addition
Monongalia General Hospital-Renovations to IT Workroom Cooling
United Hospital Center-New MRI facility
VA Hospital, Clarksburg, WV-Renovations to Dental Lab
Mercer County Nursing Home-Addition

Court Houses

Randolph County Courthouse-Mechanical design for completion of two-story addition and modifications of the existing second floor to be used by the Family Court
Monongalia County Family Court-Renovations

Educational Facilities

Harrison County Schools-Fire Alarm replacement at Robert C. Byrd High School, Nutter Fort Elementary and Lost Creek Elementary
University High School-HVAC Upgrades for use as a middle school
New Rainelle Elementary School-HVAC Design
Aurora Elementary School Addition-Mechanical Design

Military Experience

Elkins Armed Forces Reserve Center
Clarksburg/Weston Armory Renovations

Clingenpeel/McBrayer & Associates, Inc.

824 Cross Lanes Drive Charleston WV, 25313 5 Riddle Court Morgantown, WV 26505
(304) 343-0316 phone (304) 343-5146 fax (304) 598-2558 phone (304) 598-2472 fax



Larry A. Weese

Plumbing Designer

(304) 343-0316

lweese@cmawv.com

Education

West Virginia University

Morgantown, WV

Master of Science, Bachelor of Science-

Division of Forestry

Professional Development

Various seminars and technical sessions

Experience

Larry Weese brings 25 years of mechanical and plumbing design and project management experience to our clients.

Larry brings cross training between electrical, mechanical and plumbing/fire sprinkler systems to provide a more complete and thorough representation to each of our clients' projects.

Project Experience

Military Experience

Elkins Armed Forces Reserve Center

Moorefield Readiness Center

St. Albans Armory Renovations & Additions

Gassaway Armory Renovations & Additions

Emergency Response Facilities

Randolph County 911-New Facility

Mason County 911-New Facility

Raleigh County 911-New Facility

Orchard Manor Fire Station-New Facility

Industrial Experience

Standard Laboratories-Laboratory Addition

Dow Process Control-New Facility

Diamond Electric-Expansion

Commercial Experience

Bobcat of Advantage Valley-New Facility

Allegheny Springs Restaurant

Educational Facilities K-12

New Sissonville Middle School

New Lewisburg Elementary School

New Talcott Elementary School

New Fairdale Elementary School

Nitro High School Toilet Renovations

Clingenpeel/McBrayer & Associates, Inc.

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5 Riddle Court Morgantown, WV 26505

(304) 598-2558 phone (304) 598-2472 fax



Curriculum Vitae



Bachelor of Science in Interior Design..... May 1993
 The University of Tennessee, Knoxville CIDA Accredited

National Council for Interior Design Qualification (NCIDQ) Oct 1997
 LEED Accredited Professional BD+C Apr 2003

U.S. Green Building Council WV Chapter Chair
 Leadership Kanawha Valley 2015 Graduate
 Charleston Area Alliance GROW Program..... 2015 Participant
 American Institute of Architects WV Chapter Professional Affiliate Member
 Sustainability Institute at BridgeValley..... Advisory Council Chair
 Charleston Area Alliance..... Member
 American Society of Interior DesignersProfessional Member
 U.S. Green Building Council..... National Organizational Member

ZMM Architects and Engineers May 2008 – Dec 2013
 Interior Designer/Sustainability Coordinator..... Charleston, WV
 In this dual role, Jill worked alongside project architects in developing comprehensive
 finish and furniture designs, as well as with all project team members on the firm's LEED
 projects.

Cubellis Dec 2005 – May 2008
 Senior Interior Designer Boston, MA
 Jill was responsible for design of the firm's Boston headquarters, which received LEED-
 CI Gold Certification in August of 2009. She was also a key team member in the design
 of Gillette's renovated global headquarters and subsequent tenant redistribution in their
 former lease space.



- Wolf Maison Limited..... Feb 2004 – Aug 2005
Interior Designer Cleveland, OH
As interior designer for this architectural start-up, Jill expanded her experience into dental office design and high-end residential projects, along with additional corporate work. She also provided LEED assistance to Cleveland State University in the form of drawing and specification reviews and recommendations for the new Recreation Center; the building is LEED Silver Certified.
- Doty & Miller Architects May 2003 – Feb 2004
Interior Designer Cleveland, OH
For one of Cleveland's greenest architectural firms, Jill provided sustainable interior design for a variety of project types, including healthcare, public and nonprofit organizations.
- URS Corporation Nov 1999 – Feb 2003
Senior Interior Designer Cleveland, OH
Jill participated among teams of interior designers, architects and engineers to work on secondary schools, higher education, and public projects.
- KA, Inc. Architecture Apr 1998 – Nov 1999
Interior Designer Cleveland, OH
Jill went to KA after their purchase of Triad Design in 1998. As part of the Corporate Studio, she gained experience in the design of corporate headquarters, but also assisted architects with malls and big-box retail store design and documentation.
- Triad Design Interiors Aug 1996 – Apr 1998
Interior Designer Cleveland, OH
As a designer with this small interior design firm, Jill was involved in many different project types, including corporate offices, restaurants, and private suites for the new Cleveland Browns football stadium.
- Koster & Associates Architects Mar 1995 – Aug 1996
Interior Designer Cleveland, OH
Koster & Associates specialized in library design throughout the Midwest. Jill was responsible for interior finishes, furniture design and custom millwork design and documentation.
- Capitol Business Interiors May 1993 – Feb 1995
Interior Designer Charleston, WV
After working at CBI in the summer months while in college, Jill worked as a full-time designer supporting the salespeople in the firm's many public and private projects, including Union Carbide's Building 6000 and the initial renovation of One Station Place.



West Virginia Army National Guard

Clarksburg Armory / Weston Armory Interior Renovations
5 Armory Road, Clarksburg, WV 26301 / 40 Armory Road, Weston, WV 26452
Architect: Williamson Shriver Architects
Project Manager: Jim Skaggs, WVARNG CFMO, 304.561.6550

Renovations to the armories in Clarksburg and Weston are currently under construction. Interior finish and ADA upgrades to the shower and locker rooms were designed, and Jill was responsible for documentation of existing conditions, overall drawing production, lighting design, and finish selections.

Logan-Mingo Readiness Center
James A. "Buck" Harless Industrial Park, Holden, WV 25625
Architect: ZMM Architects & Engineers
Project Manager: Greg Thaxton, WVARNG CFMO, 304.561.6445

Housing the military police and other units in the heart of coal country, the Logan-Mingo Readiness Center is currently under construction. Jill was responsible for all aspects of the interiors for public areas, offices, classrooms, and drill hall. The interior design includes a darkly painted "coal seam" that is seen throughout the public spaces and combined with bright accent colors. She was also responsible for LEED coordination; the project is designed to meet LEED Silver certification.

ACP / Fallen Soldier Statue at the Joint Interagency Training and Education Center
1001 Army Road, Kingwood, WV 26537
Architect: ZMM Architects & Engineers
Project Manager: Todd Reynolds, WVARNG CFMO, 304.561.6445

Projects in addition to the JITEC joint venture between ZMM and AECOM, included a new security entrance and display area for the WVARNG's Fallen Soldier Statue. Jill was responsible for interior design coordination of the ACP, and for designing the statue base, lighting and plaque for the statue, on display in the Billeting lobby.

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CERTIFICATION AND SIGNATURE PAGE

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid, offer or proposal for review and consideration; 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.

E.T. Boggess, Architect, Inc.

(Company)

 Todd Boggess, President

(Authorized Signature) (Representative Name, Title)

304-425-4491 / 304-425-2028 / June 1, 2015

(Phone Number) (Fax Number) (Date)

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. 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.

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.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"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 exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: E.T. Boggess Architect, Inc.

Authorized Signature: *[Signature]* Date: June 1, 2015

State of West Virginia

County of Mercer, to-wit:

Taken, subscribed, and sworn to before me this 1 day of June, 2015.

My Commission expires March 11, 2018.

AFFIX SEAL HERE

NOTARY PUBLIC *[Signature]*

Purchasing Affidavit (Revised 07/01/2012)

