



WVARNG

**Construction and
Facilities Management
Office - Parkersburg**

PROJECT TEAM

E.T. BOGGESS, ARCHITECT, INC.

101 Rockledge Ave. Princeton, WV 24740 304-425-4491



CMA ENGINEERING

824 Cross lanes Drive Charleston, WV 25313 304-343-0316



CAPITOL ENGINEERING, INC.

1206 Kanawha Blvd., East Charleston, WV 25302 304-344-0720



MOMENT ENGINEERS, INC.

603 Peoples, 179 Summers St. Charleston, WV 25301 304-414-4000



Winfield H. Strock

3410 Chesterfield Ave. Charleston, WV 25304 3

RECEIVED

2010 APR 12 A 11: 43

PROCURING DIVISION
STATE OF WV

E. T. BOGCESS, ARCHITECT, INC.
P.O. BOX 727
PRINCETON, WEST VIRGINIA 24740
(304)425-4491
(304)425-2028 FAX

LETTER OF TRANSMITTAL

PROJ. NO:
 DATE: April 13, 2010
 Atten: Ron Price
 RE: DEFK10013

TO: Purchasing Division
 2019 Washington Street, East
 PO Box 50130
 Charleston, WV 25305-0130

GENTLEMEN:

We are sending you Enclosed By UPS the following items:

- Prints CD Specifications Shop Drawings/Submittals
 Application & Certificate for Payment Qualifications

COPIES	DATE	SHEET	DESCRIPTION OF ENCLOSED ITEMS
2			<i>Expression of Interest – WVARNG – Parkersburg</i>
1			CD containing pdf file of Expression of Interest

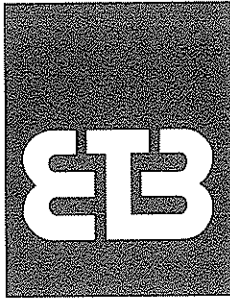
Remarks:

THESE ARE TRANSMITTED as checked below:

- For Payment Resubmit As requested
 For your information/use Approved as submitted Returning your information
 For review and comment Approved as corrected Please return to ETB

Signed: Todd Bogcess, AIA, NCARB, Architect

If enclosures are not as noted, kindly notify us at once.



Ron Price
Purchasing Division
2019 Washington Street, East
PO Box 50130
Charleston, WV 25305-0130

April 13, 2010

RE: How the State of West Virginia will benefit by choosing the ETB Team

Dear Mr. Price:

The E.T. Boggess, Architect, Inc., team is ready to begin designing your new West Virginia Army National Guard Readiness Center and Field Maintenance Shop near Parkersburg. Our plan ensures that all the needs of the members of the Guard, the citizens of West Virginia, and administrative personnel will be met. We believe our past accomplishments on projects for the state, specifically the Guard, proves we have the experience and dedication to provide you will all the professional services you will need.

How we will meet your needs . . .

I will be your architect and will be responsible for all aspects of the design of the new facility specifically for the Army National Guard. ETB will be coordinating the activities of our team of professional consultants which includes:

- | | | |
|-----------------------------|---|--|
| ▪ CMA Engineering | – | Mechanical/Electrical/Plumbing Engineering |
| ▪ Capitol Engineering, Inc. | – | Civil Engineering |
| ▪ Moment Engineers, Inc. | – | Structural Engineering |
| ▪ Winfield H. Strock | – | Estimator |

What you will get from our team . . .

- You will receive our full attention, from start to finish.
- You will benefit from the experience we have with similar projects throughout our state over the past 44 years.
- You will appreciate our dedication to the success of your project.

Our team is here to offer you the best in service, knowledge, and experience. Thank you for your consideration and we look forward to meeting with you during the interview process.

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, Architect
President

P.S. You can reach me by cell phone at 304-920-6778, or by e-mail at etb@etbarchitects.com.

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SECTION ONE

WV Forms & Purchasing Affidavit



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

Request for Quotation

RFQ NUMBER
DEFK10013

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
**BUYER 32
 304-558-2544**

RFQ COPY
 TYPE NAME/ADDRESS HERE

**E.T. Boggess, Architect, Inc.
 101 Rockledge Avenue
 Princeton, WV 24740**

**DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION**

**1707 COONSKIN DRIVE
 CHARLESTON, WV
 25311-1099 304-341-6368**

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/14/2010				

BID OPENING DATE: **04/13/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-29		
PARKERSBURG READINESS CTR & MAINTENANCE SHOP						
EXPRESSION OF INTEREST						
THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA ARMY NATIONAL GUARD'S CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ARCHITECTURAL ENGINEERING DESIGN SERVICES FOR A READINESS CENTER AND FIELD MAINTENANCE SHOP LOCATED NEAR PARKERSBURG, WV, IN WOOD CO., PER THE FOLLOWING BID REQUIREMENTS AND THE ATTACHED SPECIFICATIONS.						
BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.						
***** THIS IS THE END OF RFQ DEFK10013 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>E.T. Boggess</i>	TELEPHONE 304-425-4491	DATE April 9, 2010
TITLE President	FEIN 55-0515917	ADDRESS CHANGES TO BE NOTED ABOVE

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

SECTION TWO

Executive Summary

Executive Summary

E.T. Boggess, Architect Inc.

WV Army National Guard CFMO - Parkersburg

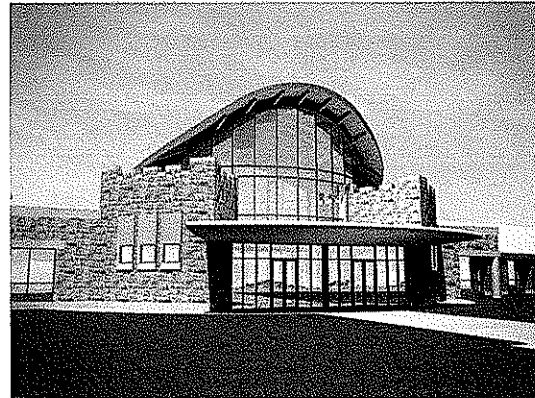
The E.T. Boggess, Architect, Inc. team understands the needs of the WVARNG. Our team has recently completed the bidding phase of the Elkins Readiness Center and is awaiting finalization of the construction contracts. To everyone's satisfaction, the bid came in approximately 3 million dollars under the projected budget. We believe our interactive design process addressed the needs of the WVARNG and that we have proven our ability, dedication, and sincere desire to create multi-use facilities that satisfies the many needs of the Guard.

Our design for the approximately 59,835 square feet for the Readiness Center and 23,484 gross square feet for the Field Maintenance Shop will consist of administrative/office space, drill floor spaces, maintenance work bays and heated/unheated storage. The supporting facilities will include . . .

- parking (military & private)
- security fencing
- sidewalks
- exterior fire protection
- outside lighting
- access roads
- flagpoles

We will design the Readiness Center to be cost effective and functionally efficient. We will incorporate energy management control systems and high efficiency motors, lighting and HVAC systems into the design.

Proper security measures will be incorporated into the design and landscaping so that access can be controlled even when standoff distance cannot be maintained.



WVARNG Readiness Center, Elkins, WV

The Field Maintenance Shop will utilize many of the same design principals as the Readiness Center – cost effectiveness, energy efficiency, and provide for access control/security. The outside supporting facilities will be similar as well. However, the maintenance shop will include a detached facility sign, wash platforms, loading ramp, and fuel storage/dispensing systems.

Our firm recognizes the importance of a major capital expenditure for the WVARNG and the necessity that all budgets and schedules are met. You will benefit from 44 years of experience designing within the confines of strict budgets and tight construction schedules.



Executive Summary

E.T. Boggess, Architect Inc.

We understand the demands being placed on all government agencies as they strive to offer the necessary services to their citizens and their efforts to do so within limited budgets. The ETB team can fully satisfy all your needs for professional services.

Interactive Design

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 various agencies. 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. Even though we have recently prepared a similar facility for Elkins, we will design a Readiness Center for Parkersburg that will address their specific needs.

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.



Executive Summary

E.T. Boggess, Architect Inc.

Results

The consistent implementation of effective communication and an interactive design process throughout your project will result in a Readiness Center and Field Maintenance Shop that will . . .

- Better serve the members of the WV Army National Guard.
- Allow for the Guard to conduct their operations more efficiently and cost effectively.
- Promote a more positive image and assist in the recruiting of new members.

Your new facility will comply with the International Building Code, Life Safety Codes, all local, state and federal regulations, as well as the Americans with Disability Act (ADA). The facilities will have these standards as a natural part of the over-all design, not just an add-on for a special group of people. We will also utilize the *Army National Guard Design Guide*.

During the construction phase, we will be at the site on a regular basis and will be available by phone to answer any of your contractor's questions. We review shop drawings/submittals, and pay requests from the contractor. We want to ensure the construction is in compliance with the design intent.

Once the doors open and you occupy the building, we will remain available to assist you with start-up questions, "fine tuning and balancing" of systems required to make sure the building works specifically for the WV Army National Guard.

Our team appreciates the opportunity you have given us thus far, and we believe that you can feel confident in selecting us to design the new C&FMO for Parkersburg.



SECTION THREE

Team and Organizational Chart

TEAM and ORGANIZATIONAL CHART

E.T. Boggess, Architect, Inc.

The ETB Team consists of the following:

Architectural Firm:

E.T. Boggess, Architect, Inc.
101 Rockledge Avenue
Princeton, WV 24740

Contact: Todd Boggess

304-425-4491 (phone)
304-425-2028 (fax)
etb@etbarchitects.com

Mechanical/Electrical/Plumbing Engineering:

CMA Engineering
824 Cross Lanes Drive
Charleston, WV 25313

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

Civil Engineering:

Capitol Engineering, Inc.
1206 Kanawha Blvd., East
Suite 201
Charleston, WV 25301

304-344-0720 (phone)
304-344-0820 (fax)

Structural Engineer:

Moment Engineers, Inc.
603 Peoples Building
179 Summers Street
Charleston, WV 25301

304-414-4000 (phone)
304-414-4001 (fax)

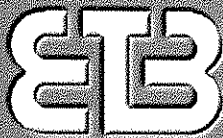
Estimator:

Winfield H. Strock
3410 Chesterfield Avenue
Charleston, WV 25304

304-925-3190 (phone)
800-308-8927 (fax)



West Virginia Army National Guard



Ted Boggess, Chairman of the Board
Todd Boggess, President - Principal in Charge
Roy Morum, Project Manager
Steve Mackey
Chris Canterbury

Capitol Engineering

Robert
Fuller

Moment Engineers

Doug
Richardson

Strock Estimating

Winfield
H. Strock

CMA Engineering

Timothy Cox
Dan Ellers
James Kerns

SECTION FOUR

Firm Profiles

Firm Profile

E.T. Boggess, Architect Inc.

History

E. T. BOGGESS ARCHITECT, INC., was established by E. T. "Ted" Boggess in January, 1966, in Princeton, West Virginia. Mr. Boggess continues to serve as Chairman of the Board and is responsible for business development, marketing activities, and design document review.

In 1988, Ted's son Todd received his master's degree in architecture and joined the firm full time. Todd is now President and is responsible for design development, project management, supervising the office staff, and the overall management of the corporation.

Location

Our firm is located in Princeton. Although the majority of our current projects are located in WV, we have satisfied clients reaching all the way from Michigan to Florida. We have a reputation for service to our clients regardless of the project site. The location of our firm and knowledge of our state, its people, its construction materials, its contractors, as well as its regional climatological characteristics, are all important considerations for the success of your project.

During the construction administration phase, today's technology allows us to observe the work through pictures, as necessary, in a very efficient and cost effective manner. Responding to questions early on will help minimize problems and allow for timely solutions.

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 are frequently 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.

Attitude

Bigger is not always better. This corporation 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 answer any needs that may arise. Limiting the number of projects we undertake also increases the importance of each and every project. Your project will not get lost in the shuffle.

Experience

Over the past 44 years, ETB has accomplished many different types of buildings in 12 different states and 1 foreign country.



Firm Profile

E.T. Boggess, Architect Inc.

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 will allow us to begin your 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.

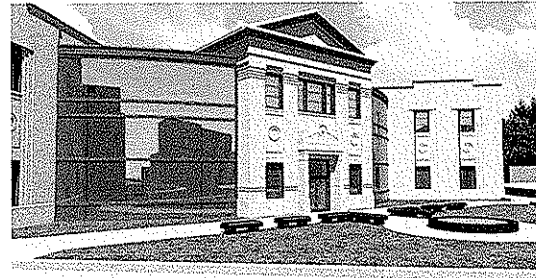
ETB was one of the first architectural firms in the state to implement the use of computer-aided design and drafting into the everyday practice of architecture. Today we continue to lead the industry as we utilize photorealistic imagery through computer modeling and digital photography. The building 3-D model and associated imagery can be developed early in the design process. You can then use the imagery for design approval and community presentations. We are also experimenting with the vast opportunities associated with virtual reality which allows you to actually "walk-thru" your finished building long before the foundation is laid. The WVARNG will benefit from our experience, combined with ongoing technological research and innovations.



*Pikeview Middle School
Mercer County, WV*



*Four Seasons Wellness Center
Tazewell, VA*



*Mercer County Courthouse Annex
Princeton, WV*



*First Century Bank
Beckley, WV*



C O R P O R A T E P R O F I L E



Clingenpeel/McBrayer & Associates, Inc.

Services

Clingenpeel/McBrayer & Associates is a West Virginia based small business firm, providing services in the areas of HVAC, plumbing, fire protection and electrical engineering. CMA's founders have long believed in the philosophy that a successful project requires a comprehensive approach. This includes all traditional facets of project planning, starting with master planning, working closely with the client, developing the completed construction documents, bidding the project and contract administration. However, our depth of expertise goes far beyond the traditional services. From developing design criteria For owners to designing the mechanical and electrical systems for the West Virginia DEP Consolidated Office Building, the first LEED certified building in the state, CMA is a proven leader in providing engineering services in the design-build delivery method.

History

Since 1986, Clingenpeel/McBrayer & Associates has provided services on numerous projects of varying size and complexity. Clients include architects, industrial companies, governmental agencies, contractors, engineers, developers and private organizations. Project locations include West Virginia, Virginia, Ohio, Kentucky, Maryland, Pennsylvania, California and Connecticut.

Commitment

Clingenpeel/McBrayer & Associates' submittal is based on your needs and our experience. Our firm has the experience, service and quality work to create a successful project. We are committing senior design professionals in order to assure you receive top priority. We have extensive experience with projects of this nature. Examples of projects for which we were the Engineer are listed in this proposal.

From an initial staff of five employees in 1986, the company has grown to eleven employees, which includes two professional engineers and two engineers-in training. Facilities and equipment have grown to support CMA's staff and client's needs.

In 1987, computer aided drafting stations were added to provide the best quality and engineering services for our clients. We are currently operating AutoCad 2009. Our firm is constantly monitoring the latest technology, the cost effects and the end results to the final project.

Present staffing allows CMA to complete work in a timely manner without limiting our ability to perform our ongoing work. The staff of CMA is large enough to handle any size project, yet small enough for direct input and supervision by key personnel.

EXPERIENCE

Previous Five Years

Projects:	492
Construction Costs	
MEP Costs:	\$156,039,689.
Total Costs:	\$472,847,542.



Clingenpeel/McBrayer & Associates, Inc.

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

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

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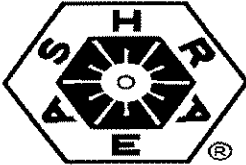
Professional Affiliations



Leadership in Energy &
Environmental Design
(LEED)



U.S. Green Building
Council
(USGBC)



American Society of
Heating, Refrigerating and
Air Conditioning Engineers,
Inc.,
(ASHRAE)



American Institute of
Architects— WV Chapter
Affiliate Member
(WVAIA)



National Fire
Protection Association
(NFPA)

ASPE

American Society Of
Plumbing Engineers
(ASPE)



The
LIGHTING
AUTHORITY

Illuminating
Engineering Society
(IES)



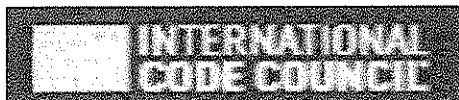
MasterSpec
Specifications
(ARCOM)



Business Partner



WV Society of
Healthcare Engineers
(WVSHE)



International Code Council (ICC)



Clingenpeel/McBrayer & Associates, Inc.

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

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

www.cma.wv.com

Introduction

Capitol Engineering, Inc. (CEI) proposes to perform civil engineering and surveying services for the West Virginia National Guard to develop engineering plans and specifications for this project. We have experience planning, designing, specifying, preparing contract documents, bidding and performing contract administration on many types of military facilities including Readiness Centers, Airfields, Training Areas and Ranges. Our experience and resources give us the ability to handle both complex and routine projects.

Why CEI?

CEI offers the highly specialized experience, attention to minute detail, and the unparalleled level of personal client support provided by a small boutique firm. We are particularly attractive because:

- Our management, engineering and professional staff has a combined total of over 120 years of experience – much of it acquired while working on military facilities.
- Staff has participation and completion of 20 National Guard projects in West Virginia.
- Management team has 30+ years and over 60 projects total specialized experience providing timely, cost effective construction documents for military facilities.
- Experience to successfully handle all design situations and problem types anticipated to occur under this contract.
- Construction and Facilities Maintenance Office satisfaction with prior work/projects performed by key staff members.

CEI Overview

Capitol Engineering is a locally owned consulting engineering firm founded in 1999. CEI has steadily grown since its inception with three employees. CEI possesses in-house services in civil, environmental and mining engineering, contract administration, and surveying and mapping. Our staff is made up of two Professional Engineers, a Professional Surveyor, Project Engineers and Scientists, CAD Operators, Technicians, and administrative personnel. Our client base is comprised of contractors, architects, engineers, developers, private industry, and federal and state agencies. A complete list of services is as follows:

Civil Engineering

*Geotechnical Engineering
Project Management
Rail Siding Design
Roadway Design
Site Development & Grading Plans
Siting Studies
Slope Stability Analysis
Stormwater Systems
Wastewater Treatment Systems*

Environmental Engineering

*Environmental Due Diligence
Environmental Site Reviews
Erosion & Sedimentation Control
NPDES, GPCC, SPCC Plans
Solid Waste & Landfill Design
Stormwater Management Plans*

Construction Administration

*Bid Analysis & Management
Construction Observation
Damage Settlement
Submittal Review*

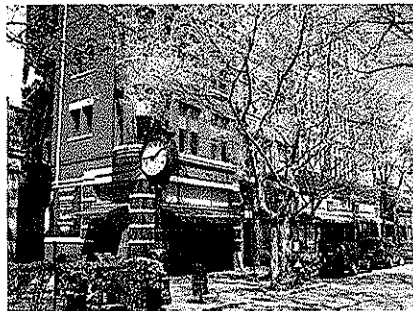
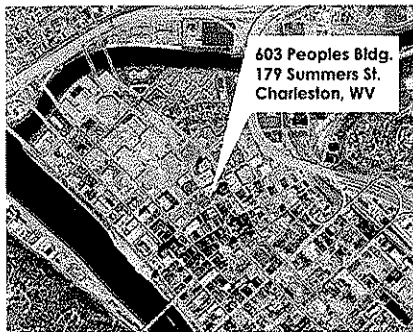
Surveying & Mapping

*Control Surveys
Floodplain Studies
GPS Surveys
Mineral Reserve Surveys
Planimetric Surveys
Quantity Determination Surveys
River & Lake Soundings
Topographic Survey*

Mining Engineering

*Abandoned Mine Land Reclamation
Acid Mine Drainage Passive Treatment
Geologic & Hydrologic Evaluations
Mine-Related Subsidence Investigations
Mining Permits, Modifications, & IBR's
Reclamation Liability Audits
Surface Mine Surveying & Mapping*

Background



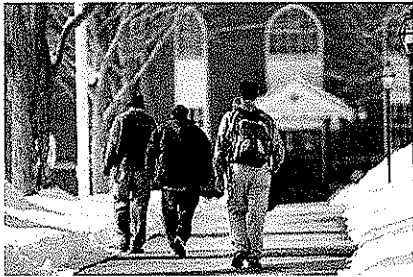
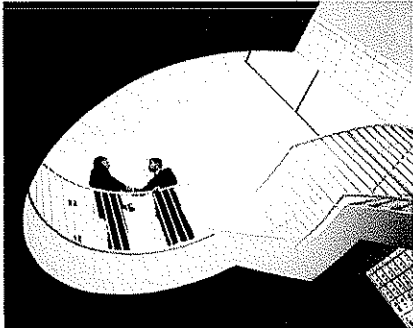
Moment Engineers, Inc. is a professional consulting firm specializing in structural engineering. We serve the architectural and building construction communities throughout West Virginia. Based in Charleston, West Virginia at 179 Summers Street, Moment Engineers was founded by Douglas Richardson in early 2005.

For more than a 15 years, Mr. Richardson has had sole responsibility for the structural engineering design of more than 5 million square feet of built space. The construction costs of these projects exceeded a half billion dollars. His experience, which ranges from small to very large multi-phase projects, is invaluable in providing the technical expertise and creative flexibility to deliver results in a prompt and reliable manner.

Our staff's experience encompasses a wide variety of building types and sectors, and our expertise includes design analysis for steel, concrete, masonry, and wooden structures.



Approach



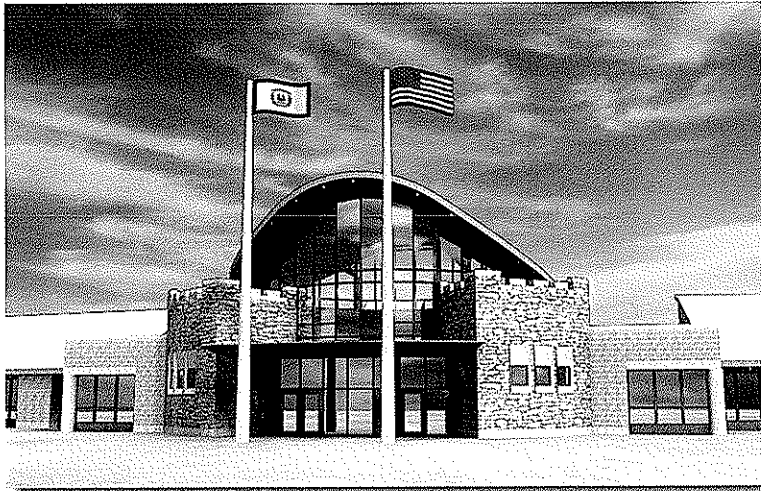
At Moment Engineers, we recognize that the architect is the primary contact for the building owner. Our role is to strengthen that relationship by producing high quality designs in a prompt and cost effective manner. To that end, we emphasize incorporating traditional and technical means of communication and data transfer to ensure a seamless integration of structural integrity and architectural creativity.

We believe that the practice of engineering is the point at which science and society meet. We also believe that the architects and builders we serve are essential in the development of the fundamental dignity of the community. Moment Engineers is strongly committed to developing structural solutions which bring permanence and strength to the expression of architectural thought.



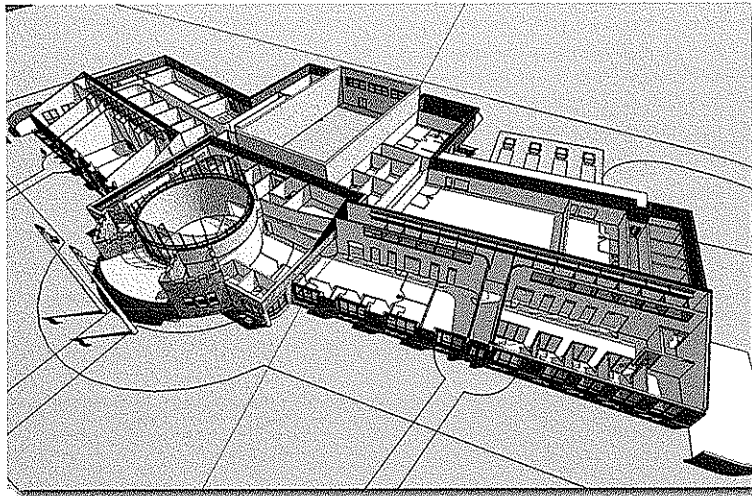
SECTION FIVE

Projects

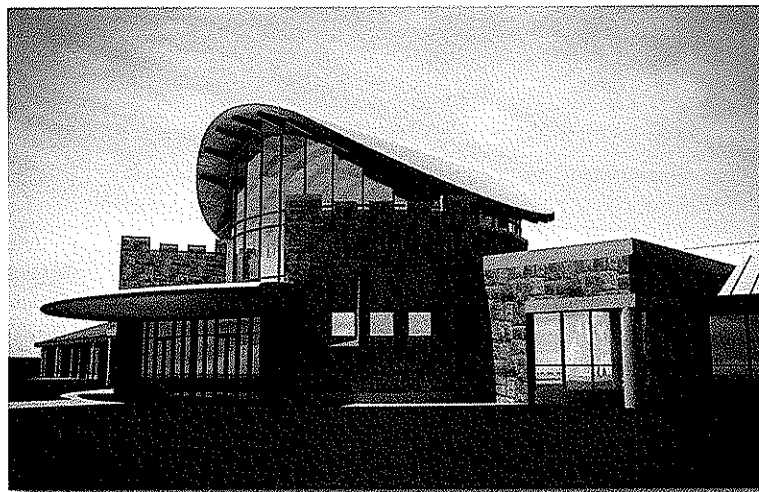


WV Army National Guard Readiness Center

The ETB team has completed the design of the 50,000 sf, single-story facility to house the Elkins units of the Army Reserve and National Guard.



The Readiness Center will have 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 will also contain 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.

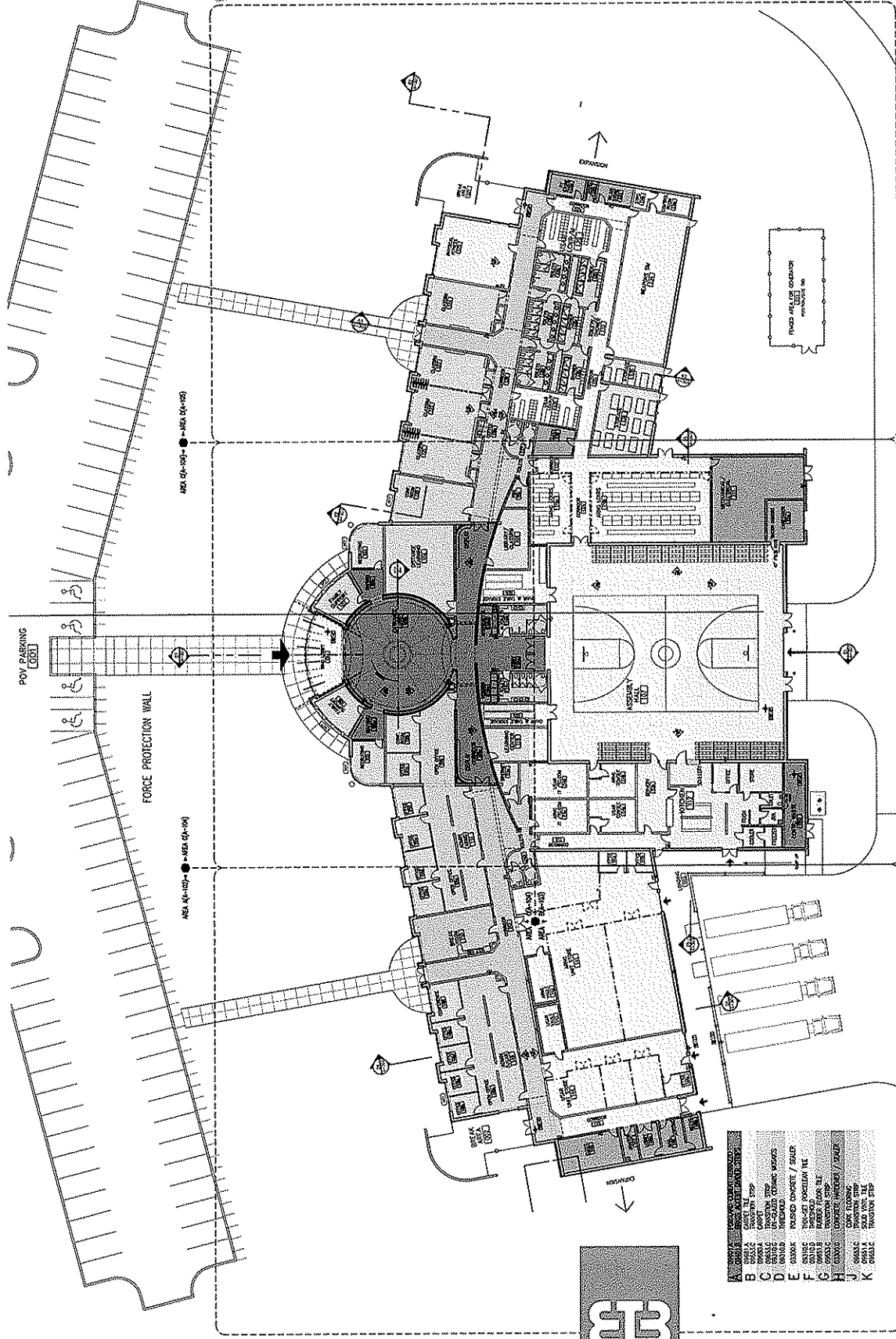


The project also includes the design and construction of a separate structure for secure storage and a maintenance/workshop/office structure.

E.T. Boggess, Architect, Inc.

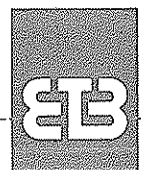


WV Army National Guard Readiness Center



02 SITE LAYOUT PLAN
 (41 mod/06)
 SCALE: 1" = 20'-0" (1" = 40'-0" on tabbed set)

SYMBOL	DESCRIPTION
A	CONCRETE
B	PAVING
C	ASPHALT
D	GRAVEL
E	GRAVEL
F	GRAVEL
G	GRAVEL
H	GRAVEL
I	GRAVEL
J	GRAVEL
K	GRAVEL

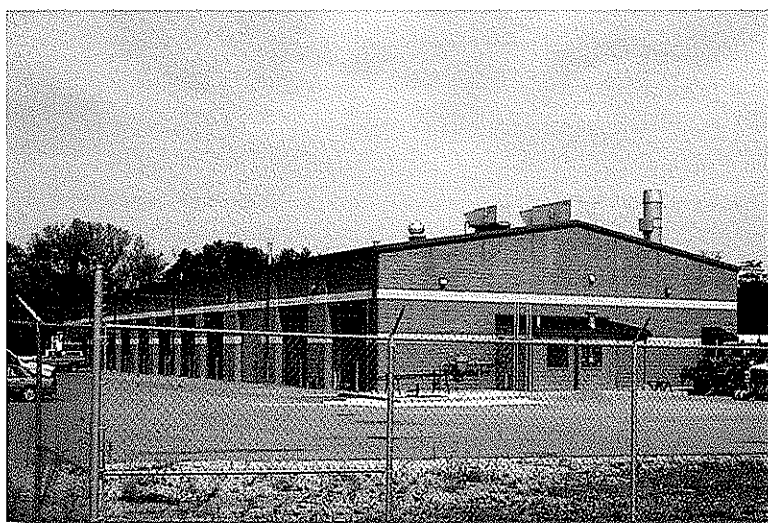


E.T. Boggers, Architect, Inc.





Office Building



Maintenance Building

West Virginia DOH District 6 Complex

The District 6 Complex at Moundsville will bring together district functions that were previously scattered in several locations throughout the county, onto a single campus-like setting/site.

Facilities that will make up this complex include the office building, and the recently completed maintenance shop. The maintenance shop includes modern repair bays for trucks and equipment, weld, prep, wash and paint bays, office areas, parts and general storage.

The bridge & sign shop was completed in 2008. The lab building will be bid and constructed in the future.





Total Complex



Office Building



Maintenance Building

West Virginia DOH District 10 Complex

The District 10 Complex at Gardner brings together district functions that were previously scattered in several locations throughout the county, onto a single campus-like setting/site. Facilities that make up this complex include the office building, the bridge & sign shop, and the maintenance shop (which includes modern repair bays for trucks and equipment, weld, prep, wash and paint bays, office areas, parts and general storage). The final building to be constructed was the lab building.

Office: 27,791 sf

Maint: 18,488 sf

B & S: 16,820 sf





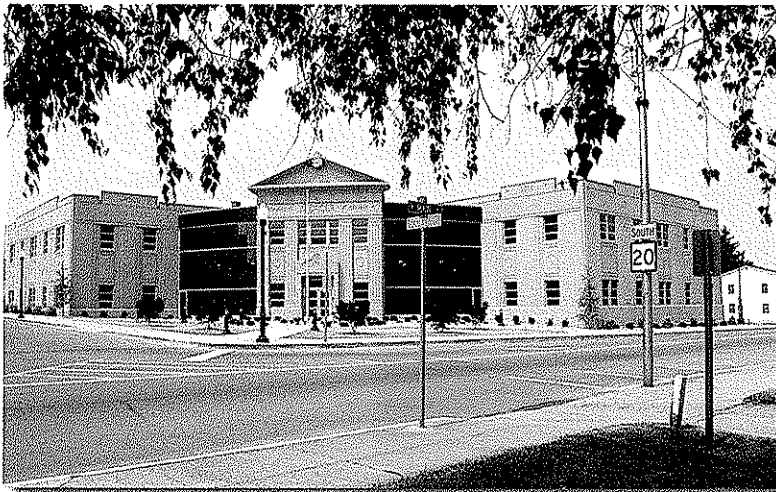
Mercer County Courthouse Annex

Princeton, WV



The Courthouse Annex designed by ETB for the Mercer County Commission was completed in July, 2005. The new facility houses the magistrate's offices, prosecuting attorney, family law master, and juvenile probation.

ETB contacted the WV Supreme Court's deputy director of technology, Kit Thornton, early on in order to ensure the equipment, wiring, and security will satisfy the demands of the court system. According to Mr. Thornton, the annex will be **"one of the nicest, most technically advanced judicial facilities in the state."**



The annex was designed to compliment the surrounding architecture of both the courthouse and the historic Memorial Building.

E. T. Boggess, Architect, Inc.



Size: 36,000 sf
Cost: \$5,190,480



Greenbrier West High School



Lewisburg Elementary School









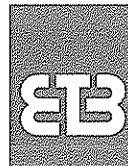
Rainelle Elementary School

Greenbrier County Schools

The ETB team is currently providing a variety of new & renovation designs for Greenbrier County Schools.

Projects include:

-  *Addition to Greenbrier West High*
-  *New Lewisburg Elementary*
-  *New Rainelle Elementary*
-  *Eastern Greenbrier Middle School Gym Addition*
-  *Smoot Elementary Site Improvements*
-  *Comprehensive Educational Facilities Plan*



Projects

E.T. Boggess, Architect Inc.

Governmental - New Construction:

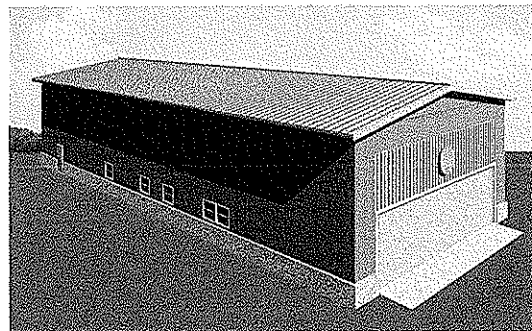
- WVARNG Readiness Center,
Elkins, WV
- Mercer County Courthouse
Annex, Princeton, WV
- U.S. Social Security Offices for
the GSA
Welch, WV
Williamson, WV
Bluefield, WV
- West Virginia Tourist
Information Center, Princeton,
WV
- WVDOH District 10
Headquarters Complex
Office Building
Maintenance Building
Bridge/Sign Shop
Lab Building
Gardner, WV
- WVDOH District 6 Headquarters
Complex
Office Building
Maintenance Building
Bridge/Sign Shop
Moundsville, WV
- Mercer County Civil Air Patrol
Hanger and Headquarters,
Bluefield, WV

Governmental - Historical Re-creations - New Construction:

- Princeton Railroad Museum,
Princeton, WV
- Coal Interpretive Museum,
Bramwell, WV

Governmental - Renovations:

- Princeton Public Library
(Historical Renovations),
Princeton, WV
- Nicholas County Judicial Annex,
Summersville, WV
- Pipestem State Park Conference
Center (Addition), Pipestem, WV
- Beckley Financial Center - IRS
Offices for the GSA, Beckley,
WV



Mercer County Civil Air Patrol Hanger



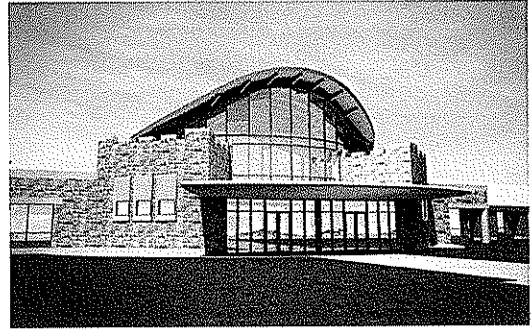
Project Profiles

New Construction Military

Design of mechanical, electrical, plumbing, fire protection and communication systems

WVANG Elkins Readiness Center

CMA Engineering provided mechanical, electrical, plumbing, fire sprinkler, fire alarm and communications systems design services for the new 54,500sf facility. The design criteria for the project was to meet a LEED Silver rating.



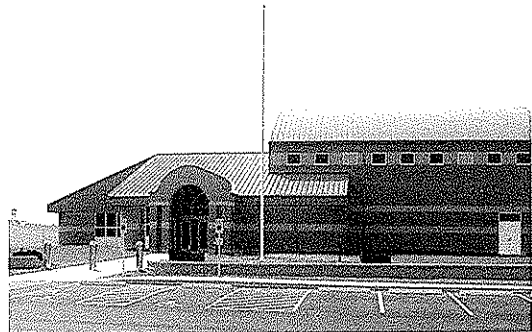
WVANG Summersville Readiness Center

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 throughout the year.



WVANG Lewisburg Readiness Center

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



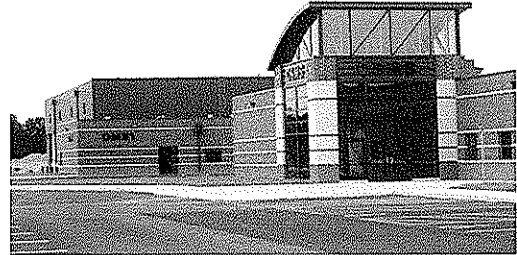
Project Profiles

New Construction Military

Design of mechanical, electrical, plumbing, fire protection and communication systems

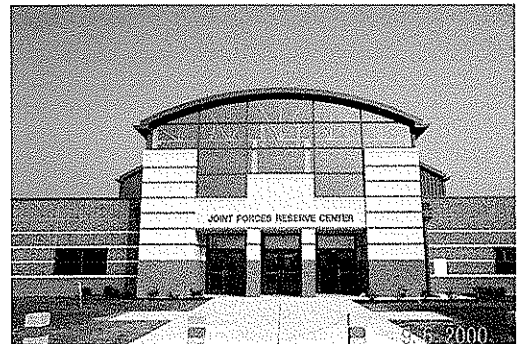
WVANG Eleanor Maintenance Center

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.



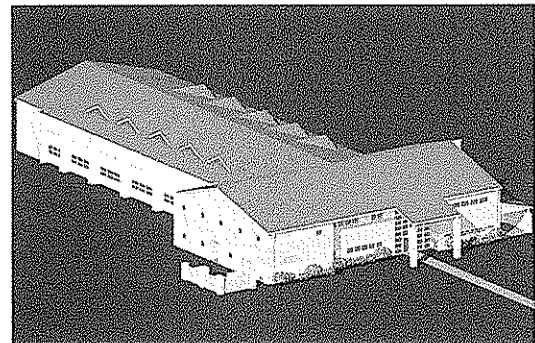
WVANG Eleanor Readiness Center

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.



WVANG-Fire Station

CMA Engineering is provided design services for the HVAC, plumbing, fire alarm, fire sprinkler, communications systems, lighting and electrical power for the design/build of the new approximately 21,000sf fire/crash/rescue station in Charleston, WV.



Project Profiles

New Construction Emergency Response Facilities

Design of mechanical, electrical, plumbing, fire protection and communication systems

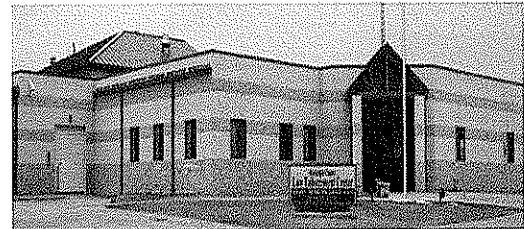
New Raleigh County 911 Center

CMA is currently providing design services for HVAC, plumbing, fire sprinkler/alarm systems, data and communication and electrical power for the new Emergency Operation Center in Raleigh County.



New Randolph County 911 Center

CMA provided design services for the HVAC, plumbing, fire alarm, fire sprinkler, electrical and communications systems for the new 12,000sf facility.



New Putnam County 911 Center

CMA is currently providing design services for the HVAC, plumbing, fire alarm, fire sprinkler, electrical and communications systems for the new single story 911 Facility(11,700sf) and new two story maintenance garage(5,000sf) with six maintenance bays on lower level and storage area (1,500sf) on second level.

No Picture Available

Under construction

New Wetzel County 911 Center

CMA is currently providing design services for the HVAC, plumbing, fire alarm, fire sprinkler, electrical and communications systems for the new 3,100sf facility.

No Picture Available

Under Construction

Project Profiles

New Construction Emergency Response Facilities

Design of mechanical, electrical, plumbing, fire protection and communication systems

Harrison County 911 Center

CMA Engineering provided mechanical, electrical, plumbing, fire alarm, fire sprinkler and communication systems design services.



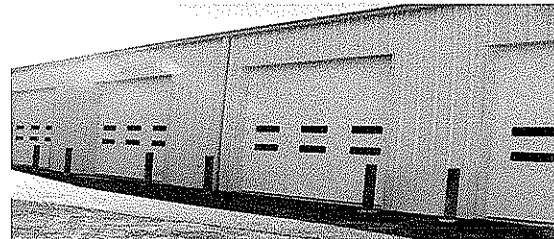
Orchard Manor Fire Station, Charleston, WV

CMA Engineering provided design of HVAC, plumbing, fire sprinkler and fire alarm, electrical and communications systems and site utilities for new 9,000sf fire station .



Northview Fire Station, Clarksburg, WV

CMA Engineering provided design of HVAC, plumbing, fire sprinkler and fire alarm systems, communication systems, lighting and electrical power for renovations to 7,000sf existing office facility and new connected garage facility of 7,300sf.



White Sulfur Springs Fire Station

CMA Engineering provided design of HVAC, plumbing, fire sprinkler and fire alarm systems, communication systems, lighting and electrical power for new 7,800sf facility.



Project Profiles

New Construction Design/Build

Design of mechanical, electrical, plumbing, fire protection and communication systems.

WV Department of Environmental Protection

CMA Engineering provided mechanical, electrical, plumbing and fire protection design services for new consolidated DEP office in Charleston, WV. Building is a three-story facility of approximately 180,000sf with a 650 car parking area. **This facility is registered as a LEEDS construction project.**



Residence Halls-University of Charleston

CMA Engineering provided mechanical, electrical, plumbing and fire protection design services for the design/build of two new four-story Dormitories, constructed during the summers of 2004 and 2005. In 2006, CMA provided design for the addition of a wing to the second dormitory.



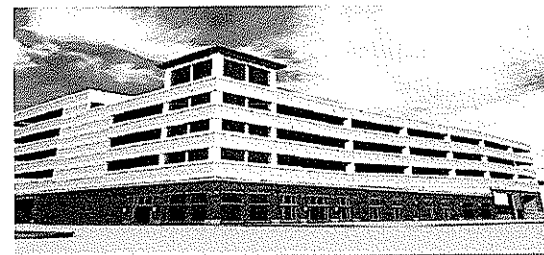
Parking Facility at Marshall University

CMA Engineering provided mechanical, electrical and plumbing design services for new 6 level parking garage facility on the Huntington campus. Garage includes 1009 parking spaces, glass elevators and pedestrian walkway above 3rd Avenue that connects the garage to Cam Henderson Center.



Parkersburg Transit Authority

CMA Engineering provided mechanical, electrical and plumbing design services for developing the design criteria for the new 5 floor Transit Authority Facility which includes 378 space parking garage, office areas, transit station, and passenger waiting area.



Bed Suite Housing-Fairmont State University

CMA Engineering provided mechanical, electrical, plumbing and fire sprinkler design services for developing the design criteria for the new 400 bed suite style residential housing.



CMA
ENGINEERING

Project Profiles

New Construction

Design of mechanical, electrical, plumbing, fire protection and communication systems.

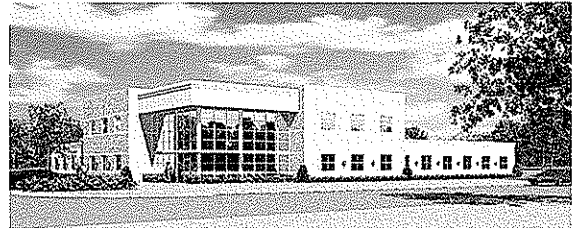
Sissonville Middle School, Kanawha County

CMA Engineering is currently providing mechanical, electrical, plumbing, sprinkler, and data/communication/alarm/control engineering design for the new,



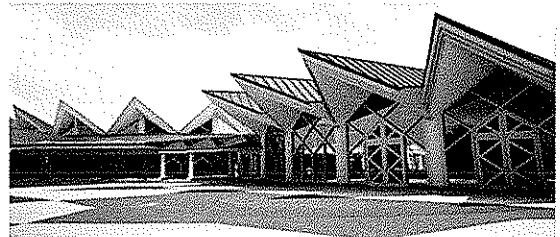
Go-Mart Office Building

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



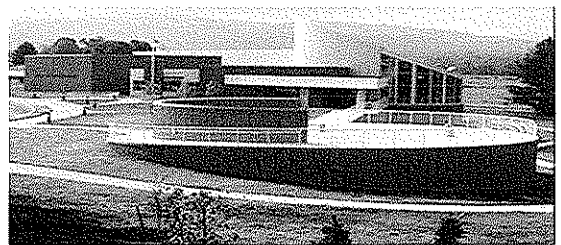
Tamarack Caperton Conference Center

CMA Engineering provided mechanical, electrical, plumbing, fire protection and communication systems design for the 22,450sf addition to the Caperton Center. CMA provided engineering services for the original construction of the Tamarack facility.



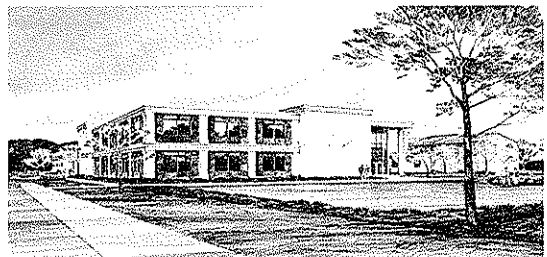
NRAO Greenbank Observatory Visitor's Center

CMA Engineering provided mechanical, electrical, plumbing, fire protection and communication systems design for new visitor's science center.



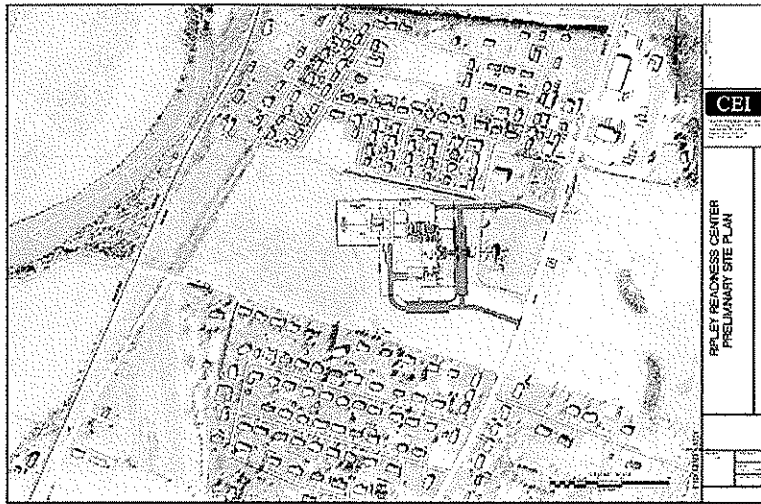
St. Albans Community Center

CMA Engineering provided design for HVAC, plumbing, fire sprinkler, fire alarm systems, communication systems, lighting and electrical power for new 26,900sf community center which included gymnasium, wrestling room, fitness room, locker rooms and an open area for aerobics, dance and gymnastics.



CMA
ENGINEERING

PROJECT EXPERIENCE



Project Title

Ripley
Armed Forces Reserve Center
Site and Civil Design

Site Location

Millwood
Jackson County, WV

Client

ZMM, Inc.
Architects and Engineers
Charleston, WV

Project Description

The Ripley Armed Forces Reserve Center Project includes a Readiness Center and an Organizational Maintenance Shop (OMS). The complex consists of over 65,000 square feet of heated space, additional unheated storage and approximately 23,000 square yards of rigid and flexible paving. The new facility occupies the 350 acre tract formerly owned by the Order of the Eastern Star in Millwood, Jackson County. Capitol Engineering, Inc. (CEI) is performing all of the site investigation and site/civil design aspects of the project, as well as construction administration for the sitework.

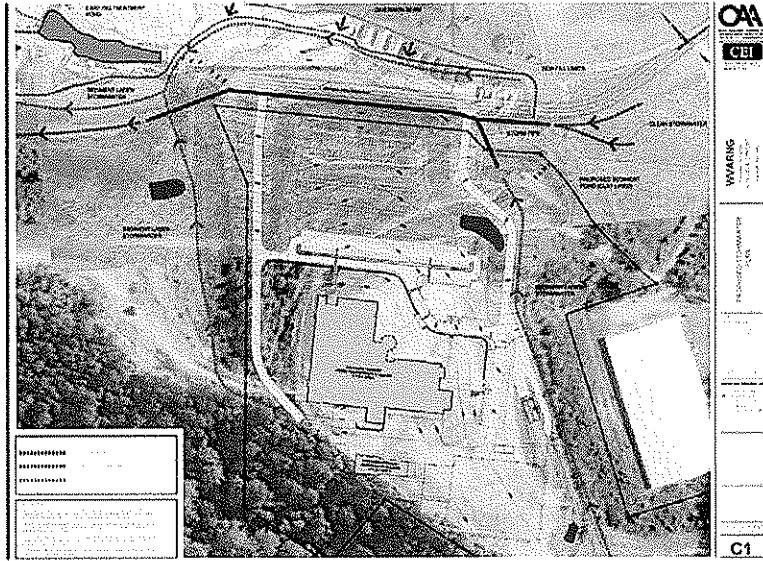
The project included the following major design elements:

1. Utilities
 - a. Water line extension
 - b. Sanitary sewer system
 - c. Gas line extension
 - d. Electric and telephone service
2. Access roads and vehicle facilities
 - a. 11,800 SY Concrete paving
 - b. 15,000 SY Asphalt paving
 - c. Vehicle wash facility
 - d. Multiple secure motor pool areas
 - e. Multiple access roads and POV parking lots
3. General site features
 - a. Earthwork and erosion control
 - b. Storm drainage system and detention facility
 - c. Security fencing/Force protection measures
 - d. Outdoor training area

The project included the following site investigation elements:

1. Preliminary engineering, planning, and field reconnaissance
2. Surveying and mapping
3. Geotechnical investigation and laboratory testing
4. Utility and stormwater easement acquisition assistance

PROJECT EXPERIENCE



Project Title

Fairmont
Armed Forces Reserve Center
Site and Civil Design

Site Location

Fairmont, Marion County, WV

Client

Omni Associates
Fairmont, WV

Project Description

The Fairmont Armed Forces Reserve Center Project includes a Readiness Center, civic arena, and a unit maintenance shop. The complex consists of over 70,000 square feet of heated space, additional unheated storage and approximately 31,000 square yards of rigid and flexible paving. The facility occupies a 35 acre tract in the proposed Suncrest Development of East Fairmont. Capitol Engineering, Inc. (CEI) performed all of the site investigation and site/civil design aspects of the project.

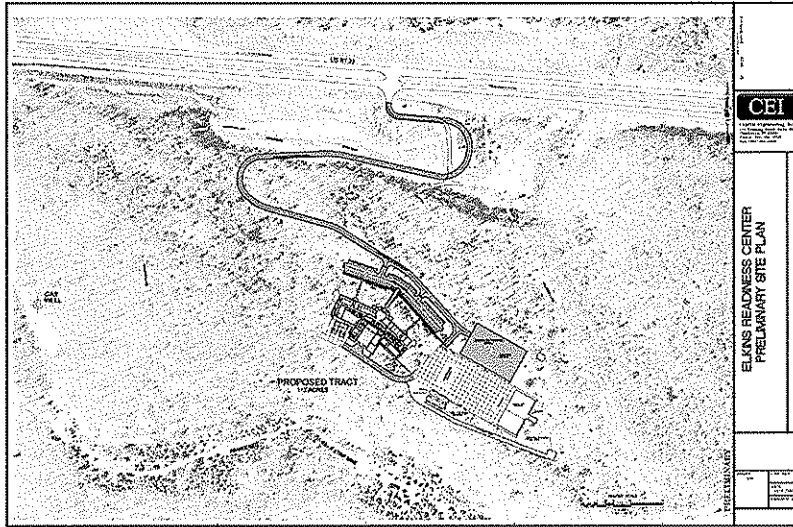
The project included the following major design elements:

1. Utilities
 - a. Water line extension
 - b. Sanitary sewer system extension
 - c. Gas line relocation
 - d. Electric and telephone service
2. Access roads and vehicle facilities
 - a. 14,400 SY concrete paving
 - b. 27,000 SY asphalt paving
 - c. Vehicle wash facility
 - d. Multiple secure motor pool areas
 - e. Multiple access roads and POV parking lots
3. General site features
 - a. Earthwork and erosion control
 - b. Storm drainage system and multiple detention facilities
 - c. Security fencing/force protection measures
 - d. Outdoor training area

The project included the following site investigation elements:

1. Preliminary engineering, planning, and field reconnaissance
2. Surveying and mapping
3. Preliminary subsurface investigation/constructability study
4. Geotechnical investigation and laboratory testing
5. Utility, grading, and stormwater easement acquisition assistance

PROJECT EXPERIENCE



Project Title

Elkins
Armed Forces Reserve Center
Site and Civil Design

Site Location

Harding, Randolph County, WV

Client

ETB Architects
Princeton, WV

Project Description

The Elkins Armed Forces Reserve Center Project includes a Readiness Center, expanded drill hall, and a unit maintenance shop. The complex consists of over 65,000 square feet of heated space, additional unheated storage and approximately 22,000 square yards of rigid and flexible paving. The facility occupies a 112-acre tract between US Route 33 and the Tygart Valley River approximately five miles west of Elkins, Randolph County. Capitol Engineering, Inc. (CEI) was selected to perform all aspects of the site investigation. Capitol Engineering, Inc. (CEI) performed all of the site investigation and site/civil design aspects of the project.

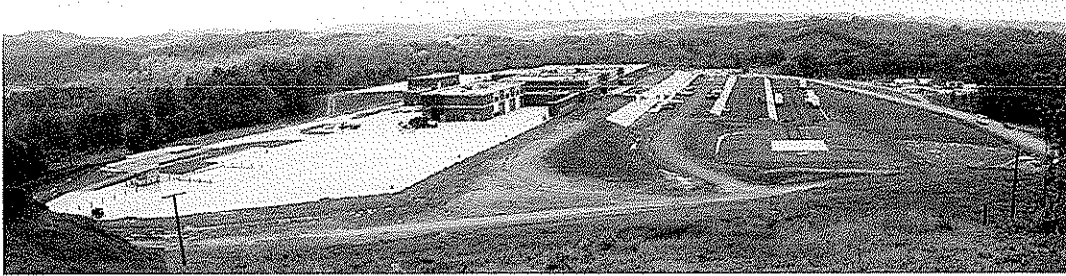
The project includes the following major design elements:

1. Utilities
 - a. Water line extension
 - b. Sanitary sewer system, pump station, force main
2. Access roads and vehicle facilities
 - a. 8,800 SY Concrete paving
 - b. 14,000 SY Asphalt paving
 - c. Vehicle wash facility
 - d. Multiple secure motor pool areas
 - e. Multiple POV parking lots
3. General site features
 - a. Earthwork and erosion control
 - b. Storm drainage system and detention facility
 - c. Security fencing/Force protection measures
 - d. Outdoor training area

The project included the following site investigation elements:

1. Preliminary engineering, planning, and field reconnaissance
2. Surveying and mapping
3. Geotechnical investigation and laboratory testing
4. Easement and right-of-way acquisition assistance

PROJECT EXPERIENCE



Project Title
Glen Jean AFRC
Site and Civil Design

Site Location
Glen Jean
Fayette County, WV

Client
ZMM, Inc.
Architects and Engineers
Charleston, WV

Project Description

The Glen Jean Armed Forces Reserve Center Project included a Readiness Center, a Military Entrance and Processing Station (MEPS), and an Organizational Maintenance Shop (OMS). The complex consists of over 100,000 square feet of heated space, additional unheated storage and approximately 32,000 square yards of rigid and flexible paving. The new facility occupies a 35 acre tract on a former strip mine near Glen Jean in Fayette County. Capitol Engineering, Inc. (CEI) performed all of the site investigation and site/civil design aspects of the project, as well as construction administration for the sitework.

The project included the following major design elements:

1. Utilities
 - a. Water line extension
 - b. Sanitary sewer system
 - c. Existing gas line relocation
 - d. Gas, electric, telephone and cable television service
2. Access roads and vehicle facilities
 - a. 21,000 SY Concrete paving
 - b. 11,000 SY Asphalt paving
 - c. Vehicle wash facility
 - d. Fuel storage and dispensing system
 - e. Multiple secure motor pool areas
 - f. Multiple POV parking lots
 - g. Multiple access roads
3. General site features
 - a. Earthwork and erosion control
 - b. Storm drainage system and detention facility
 - c. Security fencing/Force protection measures
 - d. Outdoor training area

The project included the following site investigation elements:

1. Preliminary engineering, planning, and field reconnaissance
2. Surveying and mapping
3. Geotechnical investigation and laboratory testing
4. Mine subsidence investigation
5. Utility and construction easements

PROJECT EXPERIENCE



Project Title
Summersville Readiness Center
Site and Civil Design

Site Location
Summersville, Nicholas County, WV

Client
S E M Architects
Columbus, OH

Project Description

The Summersville Readiness Center Project included a Readiness Center, a Civic Arena and Conference Center, and a unit maintenance shop. The complex consists of over 70,000 square feet of heated space, additional unheated storage and approximately 21,000 square yards of rigid and flexible paving. The facility occupies a 35-acre tract behind the Northside Center in Summersville, Nicholas County. Capitol Engineering, Inc. (CEI) was selected to perform all aspects of the site investigation. Capitol Engineering, Inc. (CEI) performed all of the site investigation and site/civil design aspects of the project.

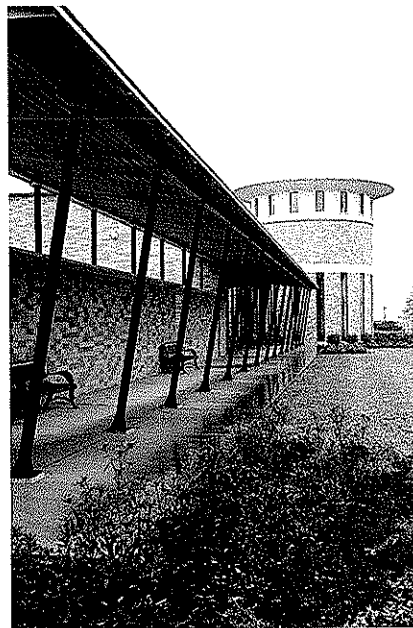
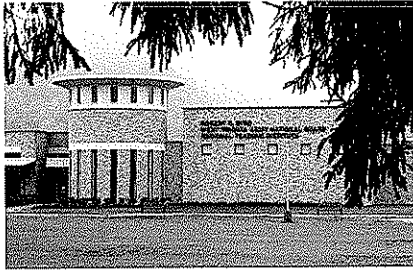
The project includes the following major design elements:

1. Utilities
 - a. Water line extension
 - b. Sanitary sewer system
 - c. Existing gas line relocation
 - d. Gas, electric, telephone and cable television service
2. Access roads and vehicle facilities
 - a. 11,000 SY Concrete paving
 - b. 10,000 SY Asphalt paving
 - c. Vehicle wash facility
 - d. Fuel storage and dispensing system
 - e. Multiple secure motor pool areas
 - f. Multiple POV parking lots
 - g. Multiple access roads
3. General site features
 - a. Earthwork and erosion control
 - b. Storm drainage system and detention facility
 - c. Security fencing/Force protection measures
 - d. Outdoor training area

The project included the following site investigation elements:

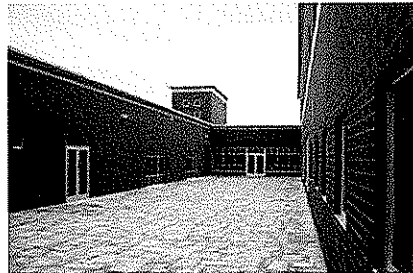
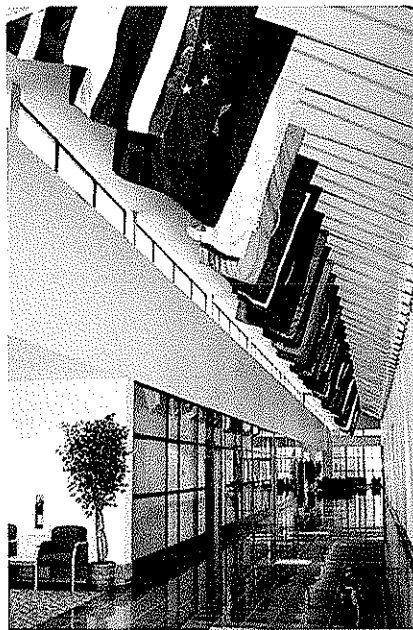
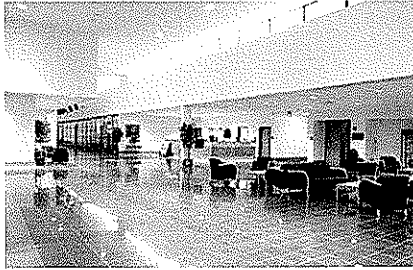
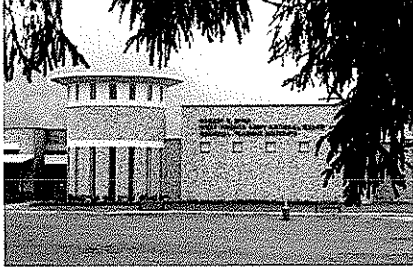
1. Preliminary engineering, planning, and field reconnaissance
2. Surveying and mapping
3. Geotechnical investigation and laboratory testing
4. Easement and right-of-way acquisition

Sample Project



Robert C. Byrd Regional Training Institute

The Regional Training Institute at Camp Dawson is a new 143,000 square foot facility constructed for the West Virginia Army National Guard that provides an ideal setting for training classes, meetings and conferences serving both the military and civilian population. The facility includes classrooms, library, a three story hotel style wing, auditorium and swimming pool. The structural systems utilized include steel frames, reinforced concrete and masonry, load bearing cold-formed steel studs, and long span steel joists.

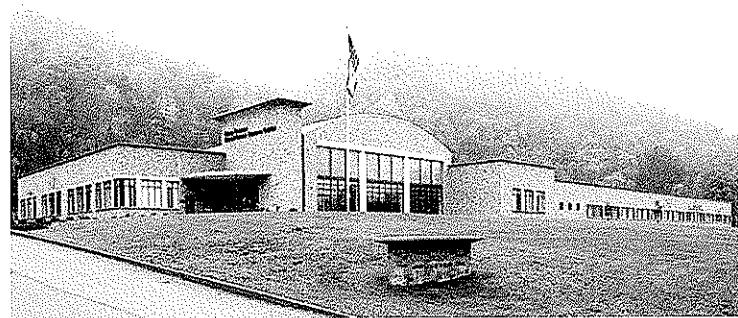
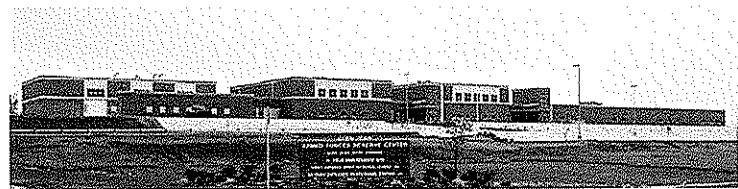


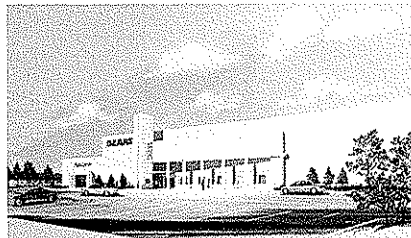
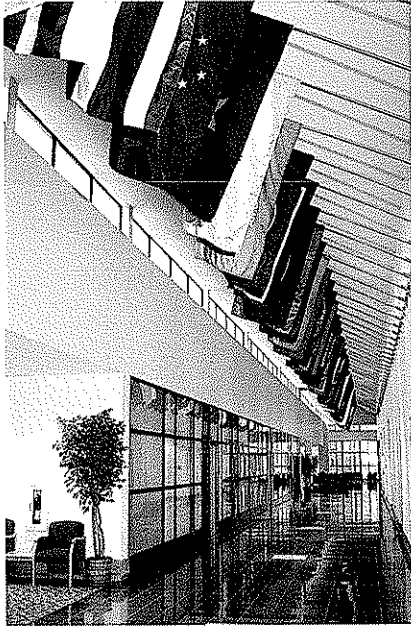
West Virginia Army National Guard Project Experience

Douglas Richardson has provided the structural engineering and design for the following projects:

- Robert C. Byrd Regional Training Institute -
Camp Dawson, WV
- Armed Forces Reserve Center - Camp Dawson, WV
- Armed Forces Reserve Center - Glen Jean, WV
- Construction & Facilities Management Office -
Charleston, WV
- Mountaineer Challenge Academy - Camp Dawson, WV
- Armed Forces Reserve Center - Elkins, WV

These six facilities total over 422,000 square feet of built space, and each serves as a outstanding example of how a military structure can enhance the readiness of the units they support while also contributing to the local, state and national communities in which they are located. The structural systems utilized include steel frames, reinforced concrete and masonry, load bearing cold-formed steel studs, and long span steel joists.





Additional Project List

In addition to these highlighted projects, Mr. Richardson's experience includes a wide variety of new building design and existing building renovation. The list below is a small sample of the projects for which Douglas Richardson has had responsible charge of the structural engineering, design and contract document (structural) production. A more extensive list is available upon request.

<u>Project</u>	<u>Sq. Ft.</u>
Barboursville Elementary School	63,947
Greenbrier East H.S. Renovations & Additions	205,057
Lincoln Co. High School	216,500
Wayne Co. Spring Valley High School	175,000
Cabell West Elementary School	55,788
Dunbar Primary Center School	14,100
Judge Donald F. Black Courthouse Annex	37,000
WV Hospital Association Office Building	29,710
Capital State Bank	4,088
Glen Jean - AFRC	107,090
Camp Dawson - AFRC	56,200
Sears, Chesterfield Mall, Richmond VA	146,980
Sears, Louden VA	132,600
Alderson Federal Prison Dormitory	60,625
Western Juvenile Detention Center	29,015
Cacapon State Park Addition	9,842
Lewisburg United Methodist Church	12,800
Kroger Store Renovation, Kanawha City	15,427
Goodwill Industries Renovation and Addition	15,460
NGK-NTK Production Facility	78,000
Kappa Alpha Fraternity House, WVU	14,000

SECTION SIX

Scope of Services and Approach

Scope of Services and Approach

E.T. Boggess, Architect Inc.

SCOPE OF SERVICES

The ETB team of professional consultants can provide the WVARNG with any or all of the following services:

- Architectural Design
- M/E/P Design
- Site Development / Parking
- Landscaping Design
- Feasibility Studies
- ADA Compliance Evaluation
- Computer Visualization

The services listed above will be accomplished in steps or phases beginning with Pre-Design/Planning, then Schematic Design Phase, followed by Design Development Phase. Once you approve the final design, we start the Construction Documents Phase, then proceed to the Bidding Phase, and, finally, the Construction Administration Phase. The information that follows will help you understand each phase.

Pre-Design/Planning

Our team's services in this first critical phase will lay the groundwork to clarify project goals and design issues. We have no preconceptions and will work to answer your project needs as we define them together.

Services/tasks include . . .

- Determine project goals and design objectives.

- Identify project constraints and opportunities.
- Gather and analyze data – space program/staffing.
- Evaluate site – arrange for geo-tech analysis, if necessary.

Schematic Design Phase

The schematic design documents will establish the general scope and conceptual design of your project, and the scale and relationships of the building components. The main goal of this phase is to arrive at a clearly defined, feasible concept and to present it in a form that results in your understanding and acceptance.

You will have the following items to review at the end of this phase:

- Conceptual Site Plan
- Preliminary Building Plan with elevations or space adjacency studies
- Perspective Sketches
- Preliminary Cost Estimates

Design Development Phase

Services in the design development phase strive to achieve the refinement and coordination necessary for a polished work of architecture. Here decisions made in schematic design are worked out at a more detailed level to minimize the possibility of major modifications being needed during the development of construction documents.



Scope of Services and Approach

E.T. Boggess, Architect Inc.

Your design team arrives at a clear, coordinated description of all aspects of the design, including . . .

- Architectural
- Mechanical
- Electrical
- Plumbing
- Fire Protection Systems

Final Design Phase / Construction Document Phase

Construction documentation is the bridge between building design and physical building form. A key element of documentation services, construction drawings provide the instructions for transforming the design solution into brick, mortar, landscapes, access, etc. The purpose of providing construction document drawings is to provide graphic documentation for bidding and execution of construction services.

Services/tasks include . . .

- Prepare construction drawings based on approved design development drawings.
- Coordinate and incorporate drawings from all team members.
- Prepare specifications to accompany drawings to establish a desired level of performance.
- Submit documents to building code officials.
- Prepare bid packages.

Bidding Phase

Construction procurement activities assist the client in obtaining competent construction services. Our team will prepare bid packages or request for proposals/qualifications, and we will support the selection, negotiation, and contract award processes.

Services/tasks include . . .

- Assist client in selection of project delivery method.
- Identify prospective bidders.
- Organize or participate in pre-bid conference.
- Distribute bidding documents.
- Address questions submitted by bidders.
- Review and evaluate competitive bids.
- Assist client in contractor interviews for obtaining negotiated proposals.
- Award contract for construction.

Construction Phase / Contract Administration Services

Contract administration services are important in order to ensure construction conforms to construction documents; to support the design intent; to lessen project risks; to identify and resolve construction problems early; and assist you in understanding the construction process.



Scope of Services and Approach

E.T. Boggess, Architect Inc.

The architect, serving as a construction administrator, observes construction for conformity to construction drawings and specifications.

Services/tasks included . . .

- 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.

APPROACH

The Integrated Design Process is our process of design in which the users, owners, and 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.

Active participation of users, code officials, cost consultants, civil, mechanical, and electrical engineers, and the community in general is critical to the project's success.

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.

We have been successful in the development of ETB project websites that can have different levels of access and/or security for the review or distribution of many facets of the project. These can range from meeting minutes and submittals to updated CADD plans and graphics to virtual project walk-thrus and photorealistic imagery. We feel that the project website is a key communication component for all types of information related to the project.

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 environments for their users and employees, 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.



Scope of Services and Approach

E.T. Boggess, Architect Inc.

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 design the new USPFO so that each one will be more user-friendly and comfortable. The design will also help the WVARNG to retain quality staff, reduce operating costs, and reduce liability, all in an environmentally friendly and economical manner by utilizing High Performance Facilities 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. Our team has members who are already Leed Certified and others who should accomplish this in the near future. 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.



Scope of Services and Approach

E.T. Boggess, Architect Inc.

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.



Scope of Services and Approach

E.T. Boggess, Architect Inc.

- 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 minimizes 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.



Scope of Services and Approach

E.T. Boggess, Architect Inc.

- 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 walls 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.



Scope of Services and Approach

E.T. Boggess, Architect Inc.

- 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.



Scope of Services and Approach

E.T. Boggess, Architect Inc.

- 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.



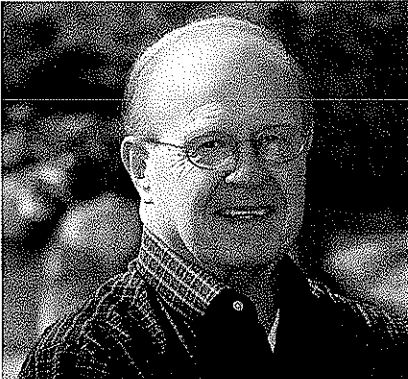
SECTION SEVEN

Resumes

E. Ted Boggess, AIA, NCARB, Architect

Chairman of the Board

E. T. Boggess, Architect Inc.



EDUCATION:

Bachelor of Architecture
The Ohio State University
School of Architecture

RESPONSIBILITIES:

Ted founded E. T. Boggess, Architect, Inc., in 1966. Prior to Todd joining the firm, Ted was solely responsible for all design and managerial aspects of the corporation. After serving 35 years as president, Ted decided to hold only the position of Chairman of the Board.

Ted is responsible for . . .

- business development
- document review
- construction observation
- application for payment review
- contract negotiations
- administration

Your project will benefit from his 40+ years of architectural excellence. Ted's understanding of code requirements ensures that your project will satisfy all building, ADA, and life-safety regulations

PROFESSIONAL:

Over the years, Ted has been very active on state and national architectural boards and committees. West Virginia Governors have appointed him to five consecutive, five-year terms on the WV Board of Architects. In addition, he has served on the following national committees:

- National Council of Architectural Registration Boards (NCARB)
- Past Region II Coordinator for NCARB IDP Program
- Past Chairman – NCARB, National Education Committee
- Past Member – NCARB, Procedures and Documents Committee
- Past Member – NCARB, Professional Development Committee
- Past NAAB Accreditation Team Member

These committees are responsible for establishing educational requirements for new architects, and evaluating architectural programs at colleges and universities throughout the country. Even if you don't select our firm, you will still benefit from Ted's years of work improving the educational requirements of today's architects.



PROJECTS:

Ted's extensive work on a variety of projects has prepared him for almost any problem your project may encounter. A few years ago, the parking lot for a new pharmacy that our firm was designing proved to be smaller than the owner wanted. The site was restricted by a creek that ran between the property and the highway. Ted suggested covering the creek with a special system that allowed for increased parking directly over the waterway and provided access directly to the highway at two locations.

Ted will be available to develop the same kind of innovative solutions for your project as well.

PROJECTS

Governmental & Office Buildings:

- Mercer County Courthouse Annex, Princeton, WV
- Concord University Rahall Technology Center, Athens, WV
- WVDOH District 10 Headquarters Office Complex, Gardner, WV
- WVDOH District 6 Headquarters Office Complex, Moundsville, WV
- US Social Security offices for the GSA in Bluefield, Welch and Williamson, WV

- Mercer County Civil Air Patrol Hanger & Headquarters, Bluefield, WV
- First Community Banks in Princeton, WV; Athens, WV; Bluefield, VA; Emporia, VA
- First Century Bank, Beckley, WV
- MCNB Bank, Princeton, WV
- First Sentry Bank, Huntington, WV



WVDOH D-10 Office Building, Gardner, WV



WVDOH D-6 Office Building, Moundsville, WV



Todd Boggess, AIA, NCARB, Architect

President

E.T. Boggess, Architect Inc.



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
- submittal reviews/shop drawings

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 Mercer County Courthouse Annex involved a great deal of preliminary research. He met with each one of the agencies several times to examine how each office functioned and ensure that their new spaces would satisfy all their requirements. He obtained input not only from the department heads, but also the staff. Once he generated a preliminary design, he again met with the agencies to obtain their approval. Todd always uses this interactive design approach in order to ensure the client's current and future needs are satisfied. The Courthouse Annex (shown below) opened in 2004 and is home to the Magistrate Court, Prosecuting Attorney, Juvenile Probation, and Family Law.



PROJECTS

Governmental & Office Buildings:

- WVARNG Readiness Center,
Elkins, WV
- Mercer County Courthouse
Annex, Princeton, WV
- Nicholas County Judicial Annex
(Renovation), Summersville, WV
- Concord University Rahall
Technology Center, Athens, WV
- WVDOH District 10
Headquarters Complex
Office Building
Maintenance Building
Bridge/Sign Shop
Lab Building
- WVDOH District 6 Headquarters
Complex
Office Building
Maintenance Building
Bridge/Sign Shop
- WVDOH District 9 Headquarters
Complex
Office Building
(under construction)
- US Social Security Offices for
the GSA in Welch and
Williamson, WV
- Mercer County Civil Air Patrol
Hanger and Headquarters,
Bluefield, WV
- Pipestem Conference Center
(Addition), Pipestem State Park

AWARDS:

In the fall of 2003, Todd was selected as one of *West Virginia Executive Magazine's* "Young Guns". He was also selected as "Citizen of the Year – 2000" by both the Princeton/Mercer County Chamber of Commerce and the Princeton Elks Club for his efforts in creating opportunities for new business and improving our overall community.



*Concord University Rahall Technology Center
Athens, WV*



Stephen E. Mackey

VP - Planning & Design

E.T. Boggess, Architect, Inc.

EDUCATION:

Bachelor of Science Design
Clemson University

Master of Architecture
Clemson University

RESPONSIBILITIES:

With over 25 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
- master plan development
- conceptual design
- design visualization
- project management
- project coordination
- construction specifications
- construction administration and supervision

PROJECTS:

Mr. Mackey rejoined ETB Architects last year after serving as Executive Vice President for two Florida Architectural firms. During his absence, he served as project manager on several large projects for the military and other government agencies.

In addition to his design and project management responsibilities, Steve also directed the day to day operations and management of the firm.

PROJECTS - Public Buildings:

- Nicholas County Courthouse Annex, Summersville, WV
- WVARNG Readiness Center, Elkins, WV
- Multiple School Projects, Greenbrier County Schools, Greenbrier County, WV

Prior to joining ETB, Steve worked on the following projects:

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



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. His will be responsible for the ftp site that we will create to share project information. Most of his work before joining ETB was completed 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 is responsible for . . .

- planning/programming
- construction documentation
- coordination of other disciplines
- ftp site design
- responding to contractor's requests for information
- reviewing submittals and shop drawings
- site visits/construction administration
- overall project 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.

PROJECTS - Public Buildings:

- WVARNG Readiness Center, Elkins, WV
- First Century Bank, Beckley, WV
- Four Seasons Wellness Center, Tazewell, VA
- Mathena Cultural Arts Center, Princeton, WV

Prior to joining ETB, Roy worked on the following similar projects:

- Lewisburg Readiness Center for the National Guard, Lewisburg, WV
- Summersville Readiness Center for the National Guard, Summersville, WV



EDUCATION:

Bachelor of Science, Eng. – Arch.
Fairmont State University

Master of Architecture (May, 2009)
Boston Architectural College

RESPONSIBILITIES:

Mr. Turner joined ETB last year and brings with him 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 recently 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
- design visualization
- project management
- project coordination
- construction specifications

PROJECTS – Public Buildings:

- WV Council for Community and Technical College Education - Facility Programming
- Multiple School Projects for Greenbrier County Schools, WV
- PikeView Middle School, Mercer County, WV
- Mercer County Comprehensive Educational Facilities Plan
- Greenbrier County Comprehensive Educational Facilities Plan

Prior to joining ETB, Nathan worked on the following governmental projects:

- Mecklenburg County Courthouse, Charlotte, NC
- US Federal Courthouse, Jefferson City, MO
- US Embassy, Athens, Greece



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

PROJECTS:

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. He will be just a diligent with the budget for your project as well.

PROJECTS - Public Buildings:

- Mercer County Courthouse Annex, Princeton, WV
- Concord University Rahall Technology Building, Athens, WV
- Beckley Financial Center/IRS Center for the GSA, Beckley, WV
- US Social Security Offices for the GSA in Welch and Williamson, WV
- Mercer County Civil Air Patrol Hanger & Headquarters, Bluefield, WV
- DHHR Office (Remodeling), Welch, WV



EDUCATION:

Bachelor of Science Civil Engineering
and Technology
Bluefield State College

RESPONSIBILITIES:

Jonathan joined ETB in 2010 to assist with the Comprehensive Educational Facilities Plans in Mercer and Greenbrier Counties. With his 12 years of experience and knowledge as an estimator and project manager, he aides with costing and construction administration on ETB projects. He also takes the lead in overseeing the quality control program for projects in the design phase and construction phase.

Jonathan is responsible for . . .

- specification writing/organization
- construction document quality control
- contacting material suppliers
- responding to contractor's request for information
- managing project costs and budgets
- construction administration
- site visits/observations

PROJECTS:

Jonathan has been very involved in the bidding process for the Elkins Readiness Center. His experience tracking project costs will be very beneficial to us throughout the construction process.

PROJECTS - Public Buildings:

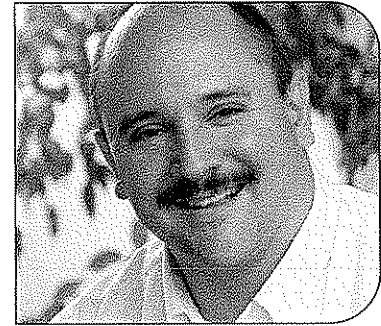
- WVARNG Readiness Center, Elkins, WV
- Mercer County Memorial Building (*Renovations*), Princeton, WV
- Mercer County Comprehensive Educational Facilities Plan
- Greenbrier County Comprehensive Educational Facilities Plan
- Greenbrier County Schools (multiple projects), Greenbrier County, WV
- PikeView Middle School, Mercer County, WV
- Jaeger/Panther Elementary School, McDowell County, WV
- Greenbrier County Convention & Visitor's Center (*Renovations*), Lewisburg, WV



P R O F I L E

Timothy Cox, P.E.,
NCEES.
President
Mechanical Engineer

(304) 598-2558
tcox@cmawv.com



EDUCATION

University of Colorado
Boulder, Colorado
Degree: Mechanical Engineering B.S.

REGISTRATIONS/PROFESSIONAL AFFILIATIONS

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

EXPERIENCE

Mr. Timothy Cox, President and Senior Mechanical Engineer of CMA Engineering brings 24 years of mechanical design experience to our clients. Mr. Cox has been project manager and project engineer for a variety of projects.

PROJECTS

West Virginia University-

Open End Contract since 1999
Mountain Lair Plaza Renovations
Boreman HVAC/Plumbing/Fire Sprinkler Upgrades
Soccer Stadium
Coliseum Life/Safety Renovations
Coliseum Locker Room Suites
Engineering Science Building Addition/Renovations
Arnold Hall Fire Alarm/ Fire Sprinkler Upgrades
Wrestling Training Facility

West Virginia University Hospitals

WV Eye Institute-MEP systems design for new facility
Cheat Clinic-MEP design for new clinical addition
WVUH Emergency Department-HVAC, electrical, fire and communication systems design for new addition
Chestnut Ridge Hospital-various MEP renovations
Healthworks Rehab and Fitness -MEP systems design for new facility

Mylan Pharmaceuticals, Morgantown, WV

Various projects including HVAC, plumbing, fire Sprinkler and controls for new office building, fluid bed addition, north plant expansion, parking garage and weighing and packaging.



Clingenpeel/McBrayer & Associates, Inc.

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Charleston, WV 25313
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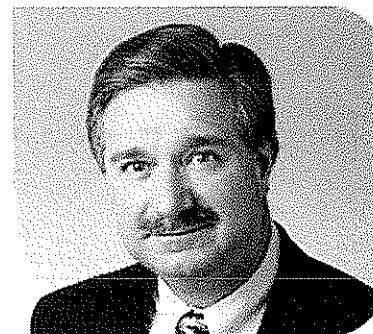
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(304) 598-2472

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P R O F I L E

Daniel Lee Ellars, P.E. LEED AP

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



EDUCATION

West Virginia University Institute of Technology
Montgomery, West Virginia.
Bachelors of Science in Electrical Engineering

West Virginia State University
Institute, West Virginia
Bachelors of Science in Business Administration

REGISTRATIONS/PROFESSIONAL AFFILIATIONS

Registered Professional Engineer in West Virginia

National Fire Protection Association (NFPA)

Institute of Electrical and Electronics Engineers
(IEEE)

American Society of Heating, Refrigerating and
Air-Conditioning Engineers (ASHRAE)

EXPERIENCE

Mr. Daniel L. Ellars, Electrical Engineer for Clingenpeel/McBrayer & Associates, Inc. brings 19 years of electrical design experience to our clients. Mr. Ellars has been a project manager and project engineer for a variety of projects including commercial and industrial facilities as well as for both power and tele-communications utilities.

PROJECTS

Educational Experience

Jackson County (WV) Schools—Electrical
Upgrades &
Expansions.

Hospital Experience

West Virginia University / Ruby Memorial Hospitals
West Virginia Eye Institute—Electrical systems
design for new facility.
Thomas Memorial Hospital—Electrical systems
survey, upgrades and documentation. Standby
emergency power engine/generator replacement.

Military Experience

West Virginia Army National Guard
Elkins (WV) Readiness Center—Electrical systems
Design for new facility
Eleanor (WV) Maintenance Center—Electrical
systems design for new facility.

Correctional Experience

St. Mary's Correctional Center—Multiple
emergency power engine/generator systems with
combined control and monitoring.

Industrial Experience

Mylan Pharmaceuticals
Mylan Office & Lab Buildings—various electrical
systems designs for new, existing and expanded
facilities including new 23kV/12kV switchyard
and grounding plain layout.



Clingenpeel/McBrayer & Associates, Inc.

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P R O F I L E

James A. Kerns
Mechanical/Electrical Designer

(304) 343-0316
jkerns@cmawv.com

EDUCATION

West Virginia State College
Institute, West Virginia
Degree: Bachelor of Science in Industrial
Technology/Building Construction

REGISTRATIONS/PROFESSIONAL AFFILIATIONS

Member of ASHRAE

EXPERIENCE

Mr. James A. Kerns has over 32 years experience in Mechanical and Electrical engineering design. He has been responsible for design projects in the educational, commercial, and health care fields.

Mr. Kerns has been a great asset to Clingenpeel/McBrayer & Associates. His knowledge and experience enables him to complete project designs in a clear and concise manner and in a timely fashion.

PROJECTS

Kanawha County Schools

George Washington High School-HVAC Renovations
George Washington High School-Classroom Additions
Horace Mann Middle School-HVAC Renovations
Elkview Middle School-Classroom Additions
Elkview Middle School-Fire Alarm System
Ruffner Elementary School-Classroom Additions
Point Harmony Elementary School-Activity Building

Concord College

Athens, West Virginia — various renovation projects throughout the campus, which include Twin Towers Fire Alarm, Twin Towers Elevator Renovation, and Alexander Arts Center Chiller Replacement.

U.S. Postal Service

Open End Contract Since 1993, which encompasses numerous Post Office Renovations, new Post Offices, and new Postal Maintenance Facilities. Mr. Kerns has been Project Manager for over 65 projects for the U.S. Postal Service.

Yeager Airport

New Parking Garage
New Emergency Generator
Electrical Upgrades
Fire Alarm System Upgrade
Security Upgrade
Fire Sprinkler Renovations

CMA
ENGINEERING

Clingenpeel/McBrayer & Associates, Inc.

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

5 Riddie Court
Morgantown, WV 26505
(304) 598-2558 tel
(304) 598-2472

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P R O F I L E

Matthew Corathers, E.I
Mechanical Designer

(304) 598-2558
mcoratherss@cmawv.com

EDUCATION

West Virginia University
Bachelor of Science -Mechanical Engineering

PROFESSIONAL DEVELOPMENT

Successfully passed Fundamentals of Engineering Exam

EXPERIENCE

Matt is a recent addition to CMA Engineering having previously worked for Whitman, Requardt and Associates in Baltimore, MD.

PROJECTS

West Virginia University

Mechanical design for new two-story child care facility

University High School, Morgantown, WV

Mechanical design for renovations/ upgrades to the HVAC systems

Randolph County Building

- 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

Mechanical design for renovations to 4,850sf in existing court facility

University of Maryland Field House

Mechanical design for the replacement of two heat exchangers and a domestic use-hot water generator

Villetteville Elementary School, Maryland

Mechanical design for the addition of 24 new classrooms



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(304) 598-2472

www.cmawv.com

P R O F I L E

Jeremy R. Perry, E.I.
Mechanical Designer

(304) 343-0316
jperry@cmawv.com

EDUCATION

San Jose University
San Jose, CA
Degree: Mechanical Engineering B.S.

PROFESSIONAL DEVELOPMENT

Successfully passed Fundamentals of Engineering Exam
WV Society of Healthcare Engineers
Various ASHRAE, HVAC and LEED design courses

EXPERIENCE

Jeremy is a recent addition to CMA Engineering having previously worked for MKK Consulting Engineers, Billings, Mt.

PROJECTS

WVANG Elkins Readiness Center-HVAC design, load calculations, LEED Analysis

Gassaway Armory- HVAC Design, load calculations

Pikeview Middle School-HVAC Design, load calculations, LEED analysis, comparative cost analysis, hydronic layout

Holley Grove Mansion- HVAC design, hydronic design, load calculations

Sissonville Middle School- HVAC design and load calculation

Amos-Caravelli Funeral Home-HVAC design and load calculations

Grey Bull Elementary, Wyoming- LEED analysis,

Warren Miller Lodge, Big Sky, MT

Sheridan Bank, Sheridan, WY

Bighorn County Historical Museum, Hardin, MT



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www.cmawv.com

P R O F I L E

Jerry F. Betarie
Electrical Designer
(304) 598-2558
jbetarie@cmawv.com

EDUCATION

Penn State, University Park, PA
Degree: B.S. Electrical Engineering.

EXPERIENCE

Mr. Betarie has 19 years experience in Project Management, Electrical Design and Project Estimating.

PROJECTS

University High School, Morgantown, WV
Electrical design services for the renovations to the electrical system

Ridgedale Elementary School
Electrical design for renovations/ upgrades to electrical system

Fairfield Inn, Morgantown, WV
Electrical design for new 50,000sf hotel

Barbour County Bank, Philippi, WV
Electrical design for renovations of existing facility and the addition of A two-story, 3,500sf, building

Fairmont Federal Credit Union
Electrical design for tenant fit-out of the second floor space



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P R O F I L E

Larry Weese
Mechanical/Plumbing Designer

(304) 343-0316
lweese@cmawv.com

EDUCATION

West Virginia University
Morgantown, West Virginia
Degree: Division of Forestry BS,MS

PROFESSIONAL DEVELOPMENT

Various seminars and technical sessions

EXPERIENCE

Mr. Larry Weese, Mechanical Designer for Clingenpeel/McBrayer & Associates, Inc. brings 18 years of mechanical design and project management experience to our clients.

PROJECTS

Emergency Response Facilities

Raleigh County 911-New Facility
Mason County 911-New Facility
Randolph County 911-New Facility
Orchard Manor Fire Station-New Facility

Military Experience

Elkins Readiness Center-New Facility
Lewisburg Readiness Center-New Facility
Summersville Readiness Center-New Facility
St. Albans Armory-Renovations

Primary/Secondary Educational Experience

South Charleston Middle School Toilet Renovations
Shady Springs High School Classroom Additions
Clear Fork Elementary School HVAC Renovations
New Sissonville Middle School
Nitro High School Toilet Renovations
Fairdale Elementary School

Higher Educational Experience

Marshall University-Band Practice Facility
Marshall University-Morrow Library Renovations
Fairmont State University-New Student Union
WVU Institute of Technology-
Old Main Fire Sprinkler
Engineering Building Fire Alarm/Sprinkler

Commercial Experience

Verizon-Variou projects including 1500 MacCorkle
Office Building Renovations
Public Service Commission- New Parking Garage
and Office Renovations



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www.cmawv.com

ROBERT M. FULLER, P.E.
Principal, Capitol Engineering, Inc.

QUALIFICATIONS

Project Manager with twenty (20) years of experience with site investigation, planning, design and contract administration services on military, site development and mine reclamation projects. Mr. Fuller has been fully responsible technically, managerially and administratively for the planning, investigation, design and contract document preparation for over seventy (70) projects in the State of West Virginia. Mr. Fuller has served as Associate Professor of Civil Engineering Technology at West Virginia University Institute of Technology on a full-time, part-time and adjunct basis.

CERTIFICATIONS

Registered Professional Engineer – WV, PA, OH
OSHA 40-Hour Health and Safety Training
OSHA Supervisor Training

EDUCATIONAL BACKGROUND

M.S. Engineering, Marshall University Graduate College, 1997
B.S. Engineering Technology, West Virginia Institute of Technology, 1989

PROFESSIONAL EXPERIENCE

Mr. Fuller was principal or project manager for the following West Virginia Army National Guard Projects completed by Capitol Engineering, Inc.. Brief descriptions of the projects with asterisks are provided elsewhere in this proposal.

- Ripley Armed Forces Reserve Center*
- Fairmont Armed Forces Reserve Center*
- Elkins Armed Forces Reserve Center*
- Glen Jean Armed Forces Reserve Center*
- Summersville Readiness Center*
- AASF #1 Apron Expansion/Rehabilitation and Taxiway Replacement*
- Joint Interagency Training and Education Center
- Lewisburg Readiness Center
- Camp Dawson Runway Extension
- AASF #1 Taxiway Repair
- Camp Dawson Range Renovations
- Williamson Armory Wash Pad and Military Parking
- Engineering consultant for the Center for National Response/Ross Property Conceptual Site Layout
- Eleanor AFRC & CSMS Utility Location and Property Staking
- Camp Dawson Qualification Training Range Preliminary Design Drawings
- Eleanor CHP Rail Spur Layout
- JISOTF Initial Planning Study

PROFESSIONAL AFFILIATIONS

Society of American Military Engineers
American Society of Civil Engineers
American Institute of Architects
Construction Specifications Institute

Resume



Douglas R. Richardson, P.E.

President/Structural Engineer

Education

North Carolina State University, (8/87-5/89).

Masters of Science in Civil Engineering, major in structures and minor in construction.

GPA 4.0/4.0.

West Virginia University, (8/83-8/87)

Bachelors of Science in Civil Engineering.

Ranking: 1st out of approximately 450 College of Engineering graduates. GPA 3.98/4.0.

Professional Registration

Professional Engineer - WV #11699, MS #12349

Maintains active record with NCEES to facilitate prompt registration in additional states as required.

Professional Affiliations

American Society of Civil Engineers

American Concrete Institute

American Institute of Architects, Professional Affiliate

Structural Engineering Institute

Timber Framers Guild

US Green Building Council



Resume



FaLena R. Perry, E.I.T.

Project Manager/Structural Engineer

Education

University of Kentucky, (8/03-12/05).

Masters of Science in Civil Engineering,
Structural emphasis.

University of Kentucky, (8/98-8/03).

Bachelors of Science in Civil Engineering,
Structural emphasis.

Professional Registration

Engineer In Training

Professional Affiliations

Structural Engineers Association of Kentucky

American Concrete Institute

American Institute of Steel Construction

Experience

500's on Main, Lexington, KY. 167,000 s.f. Mixed

Use Development spanning a city block.

Kentucky Outdoor Arena and Hospitality Building.

10,000 seat equestrian arena with hospitality
suites.

MacAdam Student Observatory. Modularly con-
structed steel frame observatory.

New Science Building, Eastern Kentucky University.

180,000 SF Classroom and laboratory facility.



WINFIELD H. STROCK

PO Box 4382
Marathon, FL 33050

304.550.2318
win@moongold.com

PERSONAL INFORMATION

Birth date: August 17, 1941

Height: 6'4"

Weight: 215

Marital Status: Married – two children

EDUCATION

1959 – 1963 King College

➤ BA - Business

MILITARY EXPERIENCE

1963 – 1964 U.S Army - Medical Corps

➤ Honorable Discharge

WORK EXPERIENCE

1964 – 1966 Thomas B. Punshon Engineering Company
Cincinnati, Ohio

Instrument man- survey crew

➤ Operated transit, theodolite and level for survey crew. Types of work included boundary surveys, infrastructure layout and building layout.

1966 – 1978 Frank Messer & Sons Construction Corporation
Cincinnati, Ohio

Field Engineer – 2 years

➤ Provided layout for all phases of building construction, assisted superintendent with coordination of subcontractors and ordering materials. Maintained on-site cost reporting data.

Estimator – 2 years

➤ Quantity survey of site work, excavation, concrete, masonry, carpentry, millwork, roofing, doors, hardware, windows, drywall, plaster, carpet, cabinetry, specialties. Received bids from subcontractors. Maintained recap (bid) sheet on day of bid or proposal.

Chief Estimator – 3 years

➤ Responsible for all functions of seven person staff estimating 50 – 60 projects per year in three to twenty five million dollar range. Projects included commercial, industrial, institutional, multi-family residential, and parking structures. Personally estimated ten to fifteen projects per year. Responsible for pricing of quantity surveys and submitting estimate or proposal. Established cost codes and cost reporting system for project managers.

Project Manager – 5 years

- Responsible for all administrative and managerial duties from date of bid or proposal to project closeout. Duties included contract negotiation, purchasing, scheduling, personnel placement, conducting project meetings, monthly cost reporting and owner/architect liaison. Workload was two to four projects with aggregate value of fifteen to thirty million dollars annually.

1978 – 1995 Kenhill Construction Company
Charleston, West Virginia

Owner/ President/ Consultant – 17 years

- Owned and managed commercial and institutional construction company with annual volume of fifteen to twenty million dollars. Specialized in construction management with guaranteed maximum price (GMP) and design/build contracts. Personally estimated and managed all major contracts. Sold business to Danis Industries, Dayton Ohio in 1991. Remained as President until 1993 and was retained as consultant for a major hospital project until 1995.

1995 – Present W.H. Strock Consulting
Marathon, Florida

Principal

- Provide estimating, scheduling and value engineering services to architects, engineers, owners and developers. On-site project analysis and scheduling. Expert witness and consultant in construction litigation. Business, estimating and cost accounting plans for construction related companies. Operates and maintains latest in conceptual estimating and scheduling technology systems.

SUMMARY OF QUALIFICATIONS

- Experienced in all phases of construction estimating, scheduling, purchasing and project management.
- When the West Virginia Contractor Licensing Act was passed in 1990, Mr. Strock was selected as Chairman of the Contractor Licensing Board and served in that capacity until his resignation in 1995.
- Mr. Strock has lectured (in conjunction with the Cambridge Institute) on the use of arbitration in construction contract disputes.
- Mr. Strock is a licensed West Virginia Contractor – WV 000010

INDUSTRY MEMBERSHIPS

Associated General Contractors of America

Past Director

Contractors Association of West Virginia

Past President, Director

Kanawha Valley Builders Association

Past President

American Arbitration Association
Panel of Arbitrators
Association of Contractor Licensing Boards

REFERENCES

Developers

Dudley Webb
The Webb Corporation
Lexington, Kentucky
859.253.0000

Brooks McCabe
McCabe • Henley, LLC
Charleston, West Virginia
304.347.7500

Owners

Karen Seim
Charleston Area Medical Center
Charleston, West Virginia
304.348.9740

Thomas E. Potter, Esq.
Jackson & Kelly
Charleston, West Virginia
304.340.1324

Architects

Donald Altemeyer
BSA Design
Indianapolis, Indiana
317.819.7878

Charles Barnhart
Sherman • Carter • Barnhart
Lexington, Kentucky
859.224.1351

SIGNIFICANT CONSTRUCTION MANAGEMENT PROJECTS

<u>Project</u>	<u>Const. Cost</u>	<u>Architect</u>
Laidley Tower Charleston, WV	\$18,500,000	Charles Barnhart Sherman • Carter • Barnhart Lexington, Kentucky 859.224.1351
Summers Square Office Bldg. Charleston, WV	\$4,000,000	Lloyd Miller N Visions Architects Charleston, WV 304.744.3654
WV High Tech Consortium Incubator & Innovation Bldgs. Fairmont, WV	\$8,300,000	Richard Forren The Omni Associates Fairmont, WV 304.367.1417
CASCI (Blue Cross) Bldg. Kanawha Boulevard Charleston, WV	\$6,750,000	Steve Branner ZMM, Inc. Charleston, WV 304.342.0159

CONSTRUCTION ANALYST PROJECTS

<u>Project</u>	<u>Const. Cost</u>	<u>Architect</u>
Mineral County High School	\$13,000,000	Greg Williamson Williamson • Shriver Charleston, WV 304.345.1060
Lenore K-8 School	\$7,600,000	Ted Shriver Williamson • Shriver Charleston, WV 304.345.1060
Morgan County Middle School	\$5,500,000	Ted Shriver Williamson • Shriver Charleston, WV 304.345.1060
Musselman High School	\$13,200,000	Greg Williamson Williamson • Shriver Charleston, WV 304.345.1060

FEASIBILITY STUDIES

<u>Project</u>	<u>Est. Cost</u>	<u>Owner</u>
Sears department store – Parkersburg conversion to office space	\$5,320,000	Larry Morehead
Sears department store – Charleston conversion to Blue Cross headquarters	\$6,750,000	Blue Cross of West Virginia
Kanawha Hotel upgrade and additions to first-class hotel	\$13,670,000	McCabe – Henley, LLC
Key West Steam Plant conversion to condominiums	\$12,200,000	Historic Tours of America
Stone & Thomas Building conversion to office space	\$8,100,000	State of West Virginia

CURRENT CONSULTING PROJECTS

<u>Project</u>	<u>Project Cost</u>	<u>Owner</u>
McDowell County school replacement and flood mitigation	\$62,300,000	McDowell County Board of Education
Robert C. Byrd Clinical Teaching Center	\$56,300,000	Charleston Area Medical Center
West Virginia University Biotech Research Park – Phase I	\$12,680,000	WVU Research Foundation

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE

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

Authorized Signature: *E.T. Boggess* Date: **April 9, 2010**

State of **West Virginia**

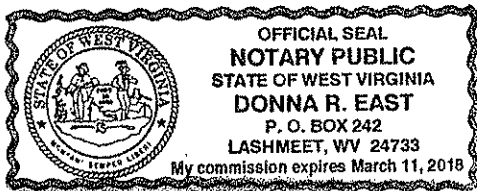
County of **Mercer**, to-wit:

Taken, subscribed, and sworn to before me this *9th* day of *April*, 20*10*.

My Commission expires **March 11**, 20**18**.

AFFIX SEAL HERE

NOTARY PUBLIC *Donna R. East*



STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Edward Tucker Architects Inc.

Authorized Signature: *Edward Tucker* Date: April 8, 2010

State of West Virginia

County of Cabell, to-wit:

Taken, subscribed, and sworn to before me this 8th day of April, 2010

My Commission expires 04/05/2016, 2016

AFFIX SEAL HERE

NOTARY PUBLIC *Rebecca Settee*

