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Header 01

List View

General Information Contact Default Values Discount Document Information Clarification Request

Procurement Folder: 1491143

SO Doc Code: CEOI

Procurement Type: Central Purchase Order

SO Dept: 0603

Vendor ID: 000000218570

SO Doc ID: ADJ2500000006

Legal Name: GRW ENGINEERS INC

Published Date: 8/14/24

Alias/DBA:

Close Date: 8/28/24

Total Bid: \$0.00

Close Time: 13:30

Response Date: 08/28/2024

Status: Closed

Response Time: 9:49

Solicitation Description: Building 215 Administration Wing Renovation-Camp Dawson CEOI

Responded By User ID: ksandino

Total of Header Attachments: 1

Total of All Attachments: 1

First Name: Karri

Last Name: Sandino

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

**State of West Virginia
 Solicitation Response**

Proc Folder: 1491143
Solicitation Description: Building 215 Administration Wing Renovation-Camp Dawson CEOI
Proc Type: Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2024-08-28 13:30	SR 0603 ESR08282400000001520	1

VENDOR
 000000218570
 GRW ENGINEERS INC

Solicitation Number: CEOI 0603 ADJ2500000006
Total Bid: 0 **Response Date:** 2024-08-28 **Response Time:** 09:49:40
Comments: GRW thanks you for this opportunity to share our EOI with you for design services at Building 215 Administration Wing Renovation Camp Dawson, Solicitation No.: CEOI 0603 ADJ2500000006

FOR INFORMATION CONTACT THE BUYER
 David H Pauline
 304-558-0067
 david.h.pauline@wv.gov

Vendor Signature X **FEIN#** **DATE**

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Building 215 Administration Wing Renovation- Camp Dawson				0.00

Comm Code	Manufacturer	Specification	Model #
81101508			

Commodity Line Comments: GRW thanks you for this opportunity to share our EOI with you for design services at Building 215 Administration Wing Renovation Camp Dawson, Solicitation No.: CEOI 0603 ADJ2500000006

Extended Description:

Provide professional architectural and engineering design services per the attached documentation.



EXPRESSION OF INTEREST

Building 215 Administration Wing Renovation - Camp Dawson | Kingwood, WV

WV Army National Guard | WV Department of
Administration | CE01 0603 ADJ25000000006

August 28, 2024



engineering | architecture | geospatial

GRW | 801 Corporate Drive Lexington, KY 40503 | 859.223.3999

COVER LETTER



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August 28, 2024

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

**RE: Building 215 Administration Wing Renovation – Camp Dawson
Solicitation No.: CEOI 0603 ADJ250000006**

Dear Mr. Pauline and Selection Committee Members:

Achieving the goals you've established for the renovation of the Administration Wing of Building 215 project at Camp Dawson is greatly dependent upon selecting the right A/E design partner. GRW would like to work with you on your project – and we believe we offer you the right experience and expertise to successfully deliver the results you require.

Experience & Familiarity

GRW is a full-service A/E design consulting firm that has been working with clients like you on similar projects throughout the region for more than 60 years. Our project team's experience with the National Guard in West Virginia is substantial and ranges from projects with Camp Dawson and the West Virginia Army National Guard, to the West Virginia ANG's 130th Airlift Wing, and 167th Airlift Wing. **See Sections 2.0 and 3.0.**

GRW and its subsidiary Chapman Technical Group (offices in St. Albans and Buckhannon, WV) also have extensive experience in developing projects through the WV Purchasing Division. For example, we have designed, bid, and constructed numerous, major Division of Natural Resources projects throughout the state, as well as projects for the Department of Highways. Although every agency has its own particulars with regard to bidding projects, our experience with the WVARNG and the State's Purchasing Division will help ensure effective and efficient project delivery.

Our Team Offers Architectural / Engineering Expertise

By selecting GRW, you will be working with a knowledgeable team who regularly work on the design of maintenance facility buildings. These professionals offer specialized experience with design services, construction documents, and current building codes. **Section 2.0** includes more information about our relevant project experience. You can read more about our team member qualifications in the resumes provided in **Section 3.0.**

A few of the projects featured in our EOI include:

- West Virginia ARNG JFHQ TAG Wing Renovation, Charleston, WV
- Weisberg Engineering Laboratory / Classroom Bldg, Marshall University
- Forestry Outreach Center, Berea College
- Nursing Bldg Renovation (Classroom), University of Kentucky
- Area Technology Center Renovation, Pulaski County Schools
- Police Training Academy, Lexington, KY

Our Understanding of Working with the West Virginia Guard

As mentioned, GRW has a long history with the National Guard in West Virginia. For example, a few of these projects include:

- Camp Dawson Relocation of Electrical Power and Communications Lines
- Camp Dawson Live Fire Exercise Shoot House
- Camp Dawson Ranges at Briery Mountain
- Camp Dawson Volkstone Training Area Utility Upgrade
- West Virginia ARNG Martinsburg Secure Facility Renovation
- West Virginia ARNG TAG Wing Renovation
- West Virginia ANG 130th Airlift Wing Building 107 Renovation
- West Virginia ANG 130th Airlift Wing Security Forces Squadron Facility Renovation and Expansion
- West Virginia ANG 167th Airlift Wing C-17 Composite Material Shop
- West Virginia ANG 167th Airlift Wing C-17 Corrosion Control Hangar Modifications
- West Virginia ANG 167th Airlift Wing C-17 Fuel Cell Hangar Modifications
- West Virginia ANG 167th Airlift Wing C-17 Maintenance Hangar Modifications

We Are Committed to Your Success

Taking care to meet your goals for your budget and schedule is a priority, as it is on every GRW project. The ultimate measure of success is how well the completed projects meet your needs and aspirations. To this end, our project team is committed to establishing an inclusive, methodical and logical approach to the design process. **See Sections 4.0 and 5.0.**

Thank you for your consideration and for the opportunity to work with you. We look forward to the next step in your selection process where we can present our additional ideas toward the successful completion of your project.

If you have questions about our qualifications or any other items, please feel free to call or email.

Respectfully submitted,



Shane Lyle, AIA, LEED AP BD+C
Senior Vice President

GRW | engineering | architecture | geospatial
801 Corporate Drive | Lexington, KY 40503
O 859-223-3999 | D 859-880-2439 | C 859-338-5840



Expression of Interest

Building 215 Administration Wing Renovation— Camp Dawson

CEOI 0603 ADJ2500000006

WV Department of Administration
WV Army National Guard

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SECTION 1.0 | **GRW Introduction**

1.0 GRW Introduction

About GRW

Founded more than 60 years ago, GRW is an employee-owned architectural, engineering and geospatial services firm with approximately 200 employees.

At GRW, we have the ability to address your projects from nearly every angle using our comprehensive in-house capabilities. We tailor our approach to each project, insuring that our teams deliver quickly, with greater potential for accurate cost estimates, and fewer change orders.

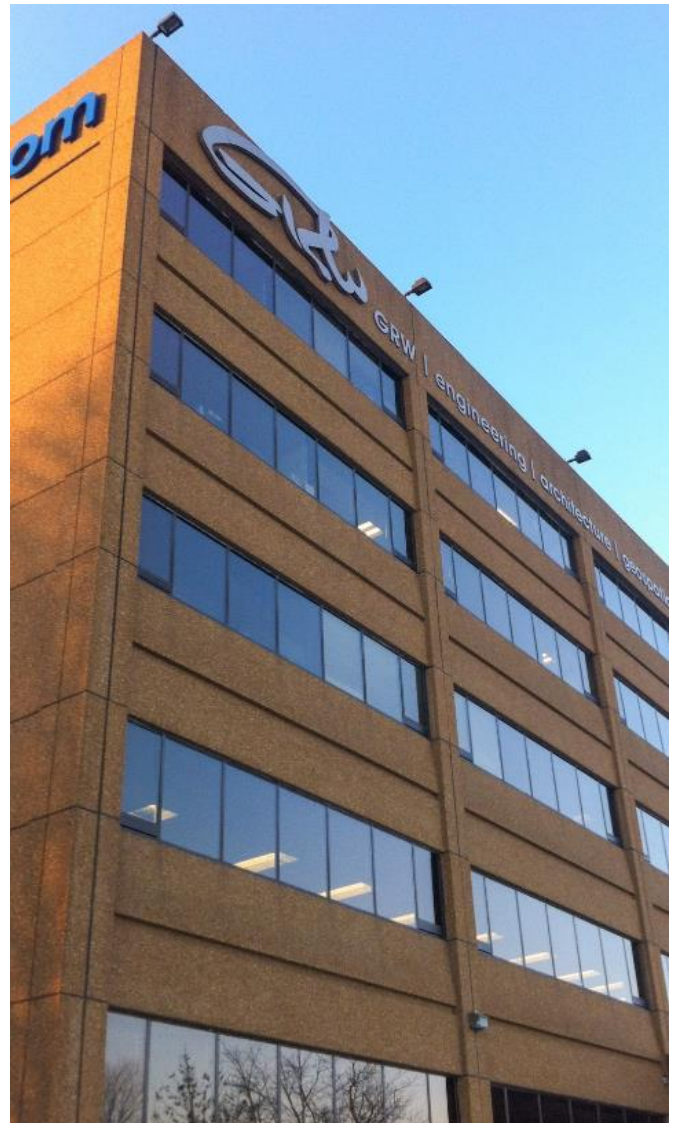
Among our achievements, GRW is listed in *Building Design + Construction's* *Giants 300* report as one of the nation's top Architecture-Engineering firms. Also, since 1972, GRW also has been recognized nationally as a top producing firm by *Engineering News-Record*.



Our Corporate Culture

Our corporate culture is based on collaboration. Our project managers and their project teams are completely hands-on, from planning through construction phases.

At GRW, we know that business relationships are built on trust – the ability to trust your business partner to deliver on their promises. By choosing GRW for your professional services, you are choosing a company that delivers on our promises. You can expect our full attention starting on day one and extending to the day of project completion and beyond. **Listening diligently to your needs, and those of your stakeholders, is the hallmark of our approach.** Delivering projects that meet our clients' goals – honestly, reliably, and efficiently, time after time – is the reason why GRW has achieved a 90% rate of repeat business.



Department of Defense Experience

GRW brings to the table a wide-ranging body of military experience that includes work for the National Guard, U.S. Army, U.S. Air Force, the U.S. Army Corps of Engineers, and the Naval Facilities Engineering Command (NAVFAC). These projects include renovation and new construction work, as well as military master plans, and a broad range of geospatial services.

The map below provides a general geographic overview of where we have provided services to the military.



* U.S Army Corps of Engineers work encompasses multiple IDIQs and task orders in 18 Districts
OCONUS Locations: Kadena Air Base, Okinawa, Japan and Camp Lemonnier, Djibouti

GRW's Experience with the West Virginia Army & Air National Guard – Partial List

GRW has a long history of experience with the West Virginia Army and Air National Guard. Examples of many of these projects are shown on these pages. *Please note that the contacts listed for some of these projects may have been promoted or reassigned since the time of project performance.*

West Virginia ARNG Camp Dawson Ranges at Briery Mountain, Kingwood, WV –

Project included design and construction of new Hand Grenade Familiarization Range and Live Fire Exercise Breach (LFEB) Training Range at Briery Mountain Training area to conform site to government standard Breach Range Design Requirements. Included design of access road to the remote site, electrical connections, breaching structures, open covered range operations and control shelter, storage building, dry latrine, covered viewing stands, and parking area. **Client Contact:** MAJ Robert Kincaid, Jr., Range Operations Manager, (304) 791-4459, robert.j.kincaid.mil@mail.mil

West Virginia ARNG Camp Dawson Live Fire Exercise Shoot House, Kingwood, WV –

Design for innovative re-use of a recently-acquired former industrial complex adjacent to Camp Dawson to provide a \$2 million Live Fire Exercise Shoot House, including shoot house to be housed in a metal warehouse, operations / storage, after action review (AAR) facility, ammunition breakdown facility, warehouse restroom renovation, access road and parking area, and utility services. Completed conceptual design for LFSH facility with final

design and construction of LFSH completed by selected vendor (design / build); balance of facilities delivered with traditional design / bid / build approach.

Client Contact: MAJ Robert Kincaid, Jr., Range Operations Manager, (304) 791-4459, robert.j.kincaid.mil@mail.mil

West Virginia ARNG Relocation of Camp Dawson Electrical Power and Communications Lines, Kingwood, WV –

Study and design for 4-phase construction program to relocate overhead electrical power lines and communications lines (telephone, data, etc) to underground duct banks in order to eliminate historic problems associated with overhead services. Phase 1: 3000 LF of power line relocation to new underground duct banks, with the associated replacement of pole-mounted transformers with pad-mounted transformers (1000 KVA to 50 KVA). Phase 2: Relocation of communications service to new underground duct banks along Phase 1 route. Phases 3 & 4: Relocation of approximately 2000 LF of overhead power lines and overhead communications lines to new duct banks, respectively.

Client Contact: MAJ Robert Kincaid, Jr., Range Operations Manager, (304) 791-4459, robert.j.kincaid.mil@mail.mil

West Virginia ARNG Camp Dawson Volkstone Training Area Utility Upgrade, Kingwood, WV –

Expansion of sewer (1,996 LF), water (1,996 LF) and electric (1,797 LF) to all existing and future buildings, unit training equipment site (UTES) and wash rack locations. Also included design of Forward Operating Base (FOB) including 20 14' x 16' wooden buildings, new bath house for approximately 200 people and pavilion. **Client Contact:** MAJ Robert Kincaid, Jr., Range Operations Manager, (304) 791-4459, robert.j.kincaid.mil@mail.mil

West Virginia ANG 130th Airlift Wing Master Plan Update and CIP, Charleston, WV –

Engineering consulting for preparation of a Web-Enabled Master Plan Update and GeoBase Common Installation Picture (CIP) for the 130th Airlift Wing in Charleston to evaluate benefits and impacts associated with acquiring additional airfield property for aircraft parking, operations, and maintenance facilities to meet current and future proposed missions. Identified constraints and opportunities that apply to the 130th AW aircraft parking, operations and maintenance areas, including Anti-Terrorism/Force Protection

(AT/FP) measures; quantified existing and required airfield facilities; developed new alternatives for long- and short-range plans; and created plan tabs that depict constraints and opportunities, long- and short-range development plans, land use and circulation plan, real estate plan, and facility utilization plan. **Client Contact:** Capt Harry Netzer, Deputy BCE, (304) 341-6649, harry.g.netzer.mil@mail.mil

West Virginia ANG 130th Airlift Wing Communications Duct, Charleston, WV – Concept Development Report to select a preferred concept for a new duct system for routing the base’s communications network to a new Communications Facility. New fiber optic cable for base network to consist of two ITNs (Information Transfer Nodes); ITN-1 in the new Communications Facility and ITN-2 in new hangar, Building 407. Duct bank designed to carry fiber optic lines, television and coaxial cabling; allows looping of current system; and provides redundancy of assets. **Client Contact:** LtCol Rick Thomas, Base Civil Engineer

West Virginia ANG 130th Airlift Wing Aboveground Fuel Storage Dispensing Facility, Charleston, WV – Design for a new aboveground fuel station for the installation’s government-owned vehicles, comprising two new aboveground tanks (1 diesel, 1 unleaded gasoline) and a new dispensing system, replacing an older fuel station that included underground fuel storage tanks. **Client Contact:** LtCol Rick Thomas, Base Civil Engineer

West Virginia ARNG Joint Armed Forces Reserve Center and Area Maintenance Support Activity, Ripley, WV –

Preparation of a Program Planning Document Charrette (PPDC) for replacement of two local armories and a USAR center with aging facilities and site limitations, with a new, \$17 million Joint Armed Forces Reserve Center and support facilities on a 94-acre site. Resulting plans include an Armed Forces Reserve Center (60,927 SF), unheated storage (6,000 SF), area maintenance support (4,500 SF) and helipad. **Client Contact:** MG Melvin Burch, (304) 561-6458, melvin.burch@us.army.mil

West Virginia ARNG Readiness Center Commissioning Projects, WV – LEED

Fundamental Commissioning for four building construction projects: Buckhannon AFRC - Phase I, 38,000 SF and \$13,150,000 construction cost; Morgantown Readiness Center, 58,520 SF and \$20,500,888 construction cost; Moorefield Readiness Center, 57,256 SF and \$17,725,351 construction cost; and Logan Readiness Center, 58,520 SF and \$14,296,326 estimated construction cost. Scope included all commissioning, coordination and documentation required for LEED certification on the HVAC systems and networked controls, the lighting control systems and the domestic hot water distribution systems. **Client Contact:** MAJ Daniel Clevenger, CFMO, (304) 561-6446, daniel.w.clevenger.mil@mail.mil

West Virginia ANG 130th Airlift Wing LOX Storage Relocation, Charleston, WV –

Type A and B design and construction administration services to relocate LOX function to south end of flight line to meet operational and installation development plan requirements. Facility included covered storage facility with adjacent tank storage canopy; elevated pads and spill containment structure for storage tanks; paved entry road; protective fencing; and utilities (electric and communications). **Client Contact:** Capt Harry Netzer, Deputy BCE, (304) 341-6649, harry.g.netzer.mil@mail.mil

West Virginia ANG 130th Airlift Wing Squadron Operations Facility Repair, Charleston, WV

– Design services for \$3 million renovation and energy-efficient improvements to 25,765 SF facility with history of remodeling activities resulting in a building that inadequately serves its users (Administration and Operations, Base Operations, Command Post, and Life Support and Fitness Center). Work included Charrette to develop alternative floor plans. Selected design allows for efficient use of space; HVAC, electrical and fire protection systems upgrade; and roof repairs. Designed to achieve USGBC LEED Certified rating, meet all ANG Sustainable Design criteria and utilize MILCON/SRM split funding. **Client Contact:** Capt Harry Netzer, Deputy BCE, (304) 341-6649, harry.g.netzer.mil@mail.mil

West Virginia ANG 167th Airlift Wing Basewide Sewer Line Repair, Martinsburg, WV –

Planning, design and construction administration services for replacement of sanitary sewer system, circa 1954. Pipe included combination of various construction materials including vitrified clay pipe (VCP) with dilapidated sections allowing high rates of inflow and infiltration during storm events. **Client Contact:** Col Rodney Neely, MSG Commander, (304) 616-5198

West Virginia ANG 167th Airlift Wing Maintenance Mall (Building 307) Repair, Martinsburg, WV –

Concept Development Report for C-5 aircraft complex which requires electrical modifications to meet needs of current occupants' activities, and investigation/resolution of temperature control in numerous locations. Report included detailed discussion of current electrical, architectural and HVAC system problems; recommendations to resolve large-system problems, as well as particular solutions for small areas; conceptual level drawings; conceptual level outline specification; and construction cost estimate. **Client Contact:** Col Rodney Neely, MSG Commander, (304) 616-5198

West Virginia ANG 130th Airlift Wing Communications Facility Code / Criteria Review, Charleston, WV –

Code/Criteria Review and LEED Update Report for facility designed to 65% three years prior under separate

GRW/NGB contract then put on hold pending funding. Twofold project goal included: 1) identify and delineate known codes/criteria that are either new or updated since 65% Design Submittal; and 2) describe revised LEED 3.0 criteria now in effect for project and outline points for LEED Silver certification, compared to LEED Silver 2.2 criteria in effect at the 65% design stage. **Client Contact:** LtCol Rick Thomas, Base Civil Engineer

West Virginia ANG 130th Airlift Wing Building 107 Consolidation Study, Charleston, WV –

Consolidation Study for historic hangar which will be renovated in phases to house Aero-Medical Evacuation Squadron, new Aerial Port Facility and Deployment Processing Center, and mobility storage for Security Forces Squadron. Work included floor plans for each phase as well as final floor plan and construction cost estimate. Major challenge involved consolidation of organizations with a total authorized area of over 50,000 SF into facility with 40,000 SF footprint - no additions were allowed. AT/FP, energy and ADA accessibility measures were incorporated, as well as current ANG guidelines. **Client Contact:** Capt Harry Netzer, Deputy BCE, (304) 341-6649, harry.g.netzer.mil@mail.mil

West Virginia ANG 130th Airlift Wing Security Forces Squadron Facility Renovation and Expansion, Charleston, WV –

Complete architectural and engineering Type A, B and C

services for \$2 million renovation of 5,395 SF SFS facility (B142) including addition of 2,500 SF administrative and training space to better serve unit. Project (MILCON/SRM split funded) increased space and improved mission performance and operational efficiency for command and administrative functions in ways that are energy efficient, code compliant and in accordance with current ANG policies. Project met LEED Silver design criteria, and all AT/FP and ADAAG requirements. **Client Contact:** Capt Harry Netzer, Deputy BCE, (304) 341-6649, harry.g.netzer.mil@mail.mil

West Virginia ANG 130th Airlift Wing Building 107 Renovation, Charleston, WV –

Scope of work included design services (LEED Silver design criteria) for two separately funded (MILCON/SRM) sub-projects to repurpose existing unoccupied hangar into space for the Aeromedical Evacuation Squadron (AES). Repairs and building repurposing included: new interior spaces within existing facility to accommodate new functions; building exterior repairs, new interior finishes; mechanical and electrical systems upgrade; fire alarm and fire protection systems repair; and site/building revisions to meet ATFP standards. New functional areas include spaces for medical simulation training, maintenance, operations, administration, storage, and other mission-related activities. **Client Contact:** Capt Harry Netzer, Deputy BCE, (304) 341-6649, harry.g.netzer.mil@mail.mil

West Virginia ANG 167th Airlift Wing C-5 Apron Repair, Martinsburg, WV – Evaluation and design services to repair fractured/heaved C-5 apron caused by poorly draining base and sub base. Pavement repair of approximately 1,755 SY included demolition and removal of fractured and heaved pavement down to below original base and sub base, compaction of new material, placing of sub base and base and concrete pavement parking apron, asphalt shoulder stabilization, all constructed to support C-5 aircraft. Utility and site improvements were also included. **Client Contact:** LtCol John Poland, Base Civil Engineer, (304) 616-5198, john.r.poland4.mil@mail.mil

West Virginia ANG 167th Airlift Wing C-17 Fuel Cell Hangar Modifications, Martinsburg, WV – Fast-track design of fuel cell hangar modifications required to meet 167AW's change in mission from C-5 to C-17 aircraft. **Client Contact:** Major Emerson Slack, Deputy Base Civil Engineer, (304) 616-5233, emerson.c.slack.mil@mail.mil

West Virginia ANG 167th Airlift Wing C-17 Maintenance Hangar Modifications, Martinsburg, WV – Fast-track design of maintenance hangar modifications required to meet 167AW's change in mission from C-5 to C-17 aircraft. **Client Contact:** Major Emerson Slack, Deputy Base Civil Engineer, (304) 616-5233, emerson.c.slack.mil@mail.mil

West Virginia ANG 167th Airlift Wing C-17 Composite Material Shop, Martinsburg, WV – Fast-track design of composite material shop to the existing corrosion control hangar required to meet 167AW's change in mission from C-5 to C-17 aircraft. **Client Contact:** Major Emerson Slack, Deputy Base Civil Engineer, (304) 616-5233, emerson.c.slack.mil@mail.mil

West Virginia ANG 167th Airlift Wing C-17 Corrosion Control Hangar Modifications, Martinsburg, WV – Fast-track design of corrosion control hangar modifications required to meet 167AW's change in mission from C-5 to C-17 aircraft. **Client Contact:** Major Emerson Slack, Deputy Base Civil Engineer, (304) 616-5233, emerson.c.slack.mil@mail.mil

West Virginia ANG 167th Airlift Wing Munitions Storage, Martinsburg, WV – New munitions inspection building, five magazines (all pre-manufactured modular units), new concrete pads (2,865 SF), all-weather pavement (5,566 SF) for vehicular access, gate/fencing, utilities, exterior lot lighting, communications, and security for the munitions area. **Client Contact:** Major Emerson Slack, Deputy Base Civil Engineer, (304) 616-5233, emerson.c.slack.mil@mail.mil

West Virginia ARNG Martinsburg Secure Facility, Martinsburg, WV – Renovations to 2-story area (6,200 SF per level) to provide new secure office space and related support spaces for specific using agency. Included HVAC replacement; new interior finishes (including raised access flooring), structural roof deck and roofing system, elevator and fire stairs, building security and cameras, and site security fencing, sliding vehicular security gates, exterior parking; and site utility and storm drainage improvements. **Client Contact:** Matthew Reynolds, Deputy Branch Chief - Design & Construction, (304) 561-6568, matthew.t.reynolds18nfg@mail.mil

SECTION 2.0 | **Project Experience**

2.0 Project Experience

Within this section, we have included examples of our recent relevant project experience for your review. We encourage you to contact any of our references to verify our performance.

Marshall University, Huntington WV

Weisberg Engineering Laboratory/Classroom Bldg

GRW was selected by Marshall University to masterplan and design the first phase for a new engineering complex on their main campus in Huntington, WV. This 16,000 SF teaching facility houses materials, soils, hydraulics, structural, and environmental laboratory space, as well as classroom space, public space for students and faculty offices, and a visualization lab. A building-wide access control system was provided to monitor usage and control entry.

The curved façade of the building was designed to create a park-like plaza along the north edge of 3rd Avenue, giving a softened edge to what previously had been parking lots and pavement. Brick and other exterior building materials were selected to complement the adjacent campus buildings, thus giving a more unified appearance to the campus.

The first phase of this project included creating a 100+ parking lot for the facilities. The area selected for the parking lot consisted of demolished buildings and small parking areas at different elevations which required extensive geotechnical work to locate old foundations and uncompacted fill areas. The different elevations on the site required innovative design to match the streets adjacent to the site on three sites and incorporate pedestrian traffic to the adjacent lab.



Status: Complete **Cost:** \$3,604,067

Client Contact: Betsy Dulin, JD, MS, Former Dean, Marshall University College of Eng., 38th ED, LLC, (304) 561-7508, betsydulin@38thed.com

Berea College, Berea, KY

Forestry Outreach Center



GRW provided design and construction administration services for a building to serve as an educational and outreach center for the Berea College Forestry Department. GRW began its work on the project by leading a day-long charrette that involved Berea College students, faculty, sustainability / operations staff, and full GRW design team. The approximately 5,000 SF facility is located in the Berea College forest area adjacent to the trailhead of the Indian Fort Mountain Trails near Berea, KY.

The design includes the following key spaces:

- **Large conference room/classroom (room for 90)**
- Lobby with forest history display area
- Forester office suite for 3 fulltime forestry staff and 4 part-time student staff
- Warming kitchen and public restrooms
- A care taker apartment is incorporated into a second story of the building

- Interactive indoor and outdoor forest history installations.

Sustainability design features include a shed dormer clerestory, and provides natural light and ventilation. The building's long walls face south and north to maximize natural light. Lighting is LED and includes dimmable, function-focused lighting.

Audio/visual features can be found in the throughout the facility. For example, the large conference room / classroom (room for 90) is designed to accommodate predesigned audio visual services including projection screen, projector, sound, wireless access points, speakers. Lobby with forest history display area that incorporates both fixed art and video screens

Status: Complete **Cost:** \$1,672,439

Client Contact: Shane Wilkerson, Director of Facilities & Engineering, Berea College, (859) 985-4176, shane_wilkerson@bera.edu

University of Kentucky, Lexington, KY
Nursing Building Renovation



The University of Kentucky selected GRW to provide architectural and engineering services for the Phase II renovation of approximately 8,117 SF on the sixth-floor of the University's Main Nursing Building. The objective of the approximately \$650,000 fit-up was to accommodate the construction of a **144-seat computer classroom**. The computer classroom, which is used for computerized exams and lectures, includes several support functions: proctor/check-in room for access control and surveillance, a student belongings room with lockers, a processor room for the computer processors and CCTV surveillance equipment, as well as a corridor system to secure the floor after hours. The project also includes an IT office and a reading room with seating for 42.

The podium included a rack-mounted multimedia switch, SMART podium interactive display, gooseneck microphone, lavalier wireless system, audio system amplifier and input/outputs from owner-provided CPU/laptop and various auxiliary

sources.

Existing HVAC, plumbing, and fire protection systems were all reconfigured to accommodate the renovated areas. The project further involved the evaluation and design for upgrading the supply fan within the 35,000 cfm built-up air-handling system within the roof penthouse that serves the entire building. Preliminary testing, adjusting and balancing was performed and designs were prepared for evaluating the options of replacing the fan in-kind, modifying the unit for fan-wall technology, and repairing and upgrading the existing fan. Ultimately, the existing fan was repaired and upgraded to meet safety and performance requirements.

Status: Complete **Cost:** \$650,000

Client Contact: Sandy Redmon, Project Manager, University of Kentucky, (859) 218-3115, sredmon@email.uky.edu

WV Army National Guard

WVARNG TAG Wing Renovation, Charleston, WV



GRW provided architectural, mechanical and electrical engineering services for the renovation of the TAG Wing Headquarters in Charleston, WV.

This project renovated approximately 7,200 SF of office space that is occupied by the Adjutant General and staff. Renovated spaces include main lobby with reception, primary conference room, TAG office suite (including private restroom/shower), staff offices, break room, and restrooms.

Besides the general renovation work, GRW's services included custom built-in casework, finishes, refurbishing of existing terrazzo corridor floors, and new furnishings throughout the area.

New LED lighting was installed throughout. Electrical panels were installed to replace existing outdated panels, along with new data and communications wiring throughout.

STATUS: Complete

COST: \$1,750,000

CLIENT CONTACT: Jim Skaggs

(304) 561-6550

robert.a.skaggsii.nfg@army.mil



Pulaski County Schools, Somerset, KY

Area Technology Center Renovation



The Pulaski County Schools Area Technology Center is an approximately 38,200 SF, one-story building housing programs that help Pulaski County students earn college credit, prepare for careers, and obtain job placement. The educational space was originally a retail building. In keeping with changing programs, it has been renovated and updated several times since it was established.

For this project, GRW worked with the Pulaski County School District on a plan to further update the facility through the renovation of 6,000 SF. This space allows the addition of a new ATC program in industrial maintenance technology and associated lab space.

Spaces include:

- **Industrial technology classroom**
- Robotics tech lab
- Hydraulics tech lab

- Welding tech lab
- Electronics tech lab
- Support spaces

Other programs currently available at the center include welding technology, automotive technology, health sciences, construction carpentry, and natural gas technology.

GRW previously has completed the renovation of ATC's existing IT/data center, a renovation that accommodates the gas lab for the natural gas training program, and a canopy exhaust hood for the welding lab.

Status: Complete **Cost:** \$946,618

Client Contact: Pat Richardson, Superintendent, Pulaski County Schools, (606) 679-1123, patrick.richardson@pulaski.kyschools.us

Indiana Air National Guard

122nd Fighter Wing Security Forces Operations & Training Facility, Fort Wayne

GRW was selected by the 122nd FW to provide Type A and Type C A/E services for the design-build of a new 18,494 SF Security Forces Operations and Training Facility, including a **Combat Arms Training and Simulator/Combat Arms Training**

Maintenance (CATS/CATM) area, in Ft. Wayne, IN.

This facility includes offices for the Flight Chief, open office area for the base security forces, classrooms, workout room, locker room, weapons simulator room and weapons storage areas. The demolition of a 3,000 SF building was also included in the project.

The Security Forces facility includes the Central Security Control (CSC) system for the entire base. The Security Forces and CATS/CATM facilities are wired for communications, security monitoring, intrusion detection systems, LAN, intercom, CCTV, and CATV. The CATS/CATM houses a Weapons Simulator for security forces training.

Under this assignment, GRW developed a detailed conceptual design including design analysis, building descriptions and drawings. The conceptual design provided details of all rooms, along with their functional requirements in accordance with all applicable codes, criteria and ANG design standards. The objective of this effort was to ensure that a low life cycle cost, low maintenance, mission compliant



facility could be built within the Maximum Construction Cost (MCC) limitation of \$3.86 million based on FY07 construction, excluding contingencies.

STATUS: Complete | **COST:** \$3,919,498

"It is with pleasure that I highly recommend GRW. Your construction documents are always of the highest quality and you have met our budget and schedule needs, even at times when it has been necessary to make adjustments to our own funding and schedule requirements. Whether you have been tasked with planning services, design or construction administration, GRW has exceeded our expectations by continuously providing the expertise and guidance we have needed." Lt Col James W. Starnes, INANG, Base Civil Engineer

CLIENT CONTACT: Lt Col Chad Warren, Deputy Base Civil Engineer, Indiana Air National Guard, (260) 403-5883, chad.warren@inftwa.ang.af.mil

Indiana Army National Guard

76th Brigade Combat Team Readiness Center, Lawrence, IN

GRW provided A/E design, project management, and construction administration services for a new 109,555 SF two-story Army National Guard Readiness Center in Lawrence, a suburb of Indianapolis, IN. This facility is located on a site that was formerly part of Fort Benjamin Harrison. An 8,300 SF unheated storage facility is also included. This Readiness Center includes the following functional spaces and features:

- Classrooms, COMSEC training, library and training center, distance learning, training aid storage area, audiovisual area
- Private offices and administrative common spaces
- Assembly hall with fully functional kitchen and chair and table storage
- Locker rooms, medical section room
- Heated unit storage rooms, facility maintenance, arms vault, unheated storage building
- Building operating spaces and support spaces
- Tool rooms, battery room, mechanical and electrical system rooms, communications equipment rooms
- RAPIDS, family support and recruiting offices
- Spaces for the future installation of a simulator or indoor range
- Military and POV parking, wash platform, loading ramp and dock, access roads, helipad
- Site AT/FP measures, security lighting, utilities and landscaping
- Energy management and control system, lighting controls, intrusion detection system, mass notification system
- HVAC, plumbing and fire protection systems
- Emergency power generator
- Stormwater bio-retention pond

STATUS: Complete

COST: \$14,506,943

"I want to take this opportunity to express my appreciation and gratitude to you and your team



for what we feel will be a highly successful design of our Lawrence Readiness Center. The design process that your team led us through has been extremely productive and efficient. Their effectiveness was due in large part to the highly professional team you assembled for this project, and their willingness to meet the owner's requirements and timeline. We are anxious to see the project through to completion and the continued work with your staff throughout the process. Again thank you and the team at GRW for the hard work and professional approach to this design." - Steven Hines, Facilities Management Officer, Indiana ARNG

When asked to provide an overall rating of GRW's work performed on this project, the Indiana ARNG rated GRW (and Project Manager Jimmy Piper) as "Excellent", the highest available score in the government's Past Performance Questionnaire.

CLIENT CONTACT: Major Chris Purtell, Contracting Officer, Indiana Army National Guard, (317) 247-3514, chris.purtell@us.army.mil

Lexington-Fayette Urban County Government

Lexington Police Training Academy Feasibility Study, Lexington, KY

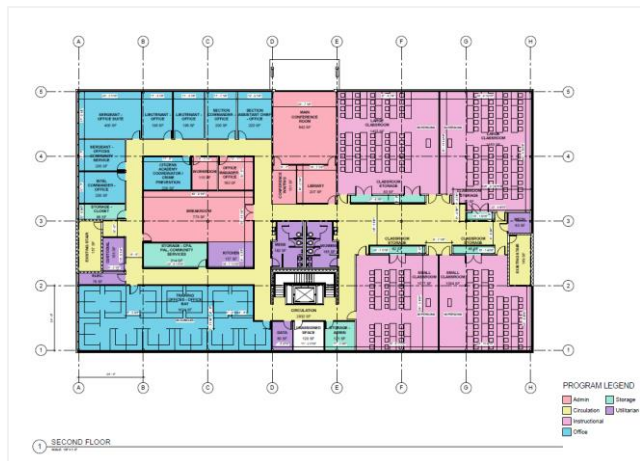


The City of Lexington selected GRW to complete a study to determine the feasibility of a building to be used as a new home for the Lexington Police Training Academy. The property is not currently owned by LFUCG, and this feasibility study will be used as one of many factors to determine if LFUCG will purchase the property. The existing facility is a 3-level structure built in 1998 with a total square footage of 41,650 SF. The lower level of the building is approximately 8,330 SF, as the middle and upper floors are 16,660 SF each.

Some concerns regarding the remaining useful life of the existing facility's major building components include the building's envelope, roof, HVAC, plumbing, electrical, data infrastructure, fixtures, equipment, elevator, interior surfaces, site utilities, storm, etc.

Beyond the required renovations and building modifications of the existing building, the Lexington Police Department would also be looking to **add an independent structure to serve as a multi-purpose training area. The stand-alone building would be approximately 7,500 SF** and would be located on the site in a way that maintains as much parking as possible.

GRW's services will include the following three stages:



- Building and site assessment:
- Feasibility of program and constructability:
- Final recommendations, executive summary, and project costs/ budget

STATUS: Schematic Design Options Complete

COST: N/A

CLIENT CONTACT: Chris Litton, AIA, LEED AP, Capital Program Manager, Lexington-Fayette Urban County Government, (859) 258-3932, clitton@lexingtonky.gov

SECTION 3.0 | **Staff Qualifications**

3.0 Staff Qualifications

For the Building 215 Administration Wing Renovation project at Camp Dawson each GRW team member has relevant experience and availability.

Our clients directly benefit from **GRW's one-stop business model and multidiscipline staff** who specialize in architecture,

engineering (mechanical, electrical, structural, civil/site, transportation, water resources), landscape architecture, survey, and interior design.

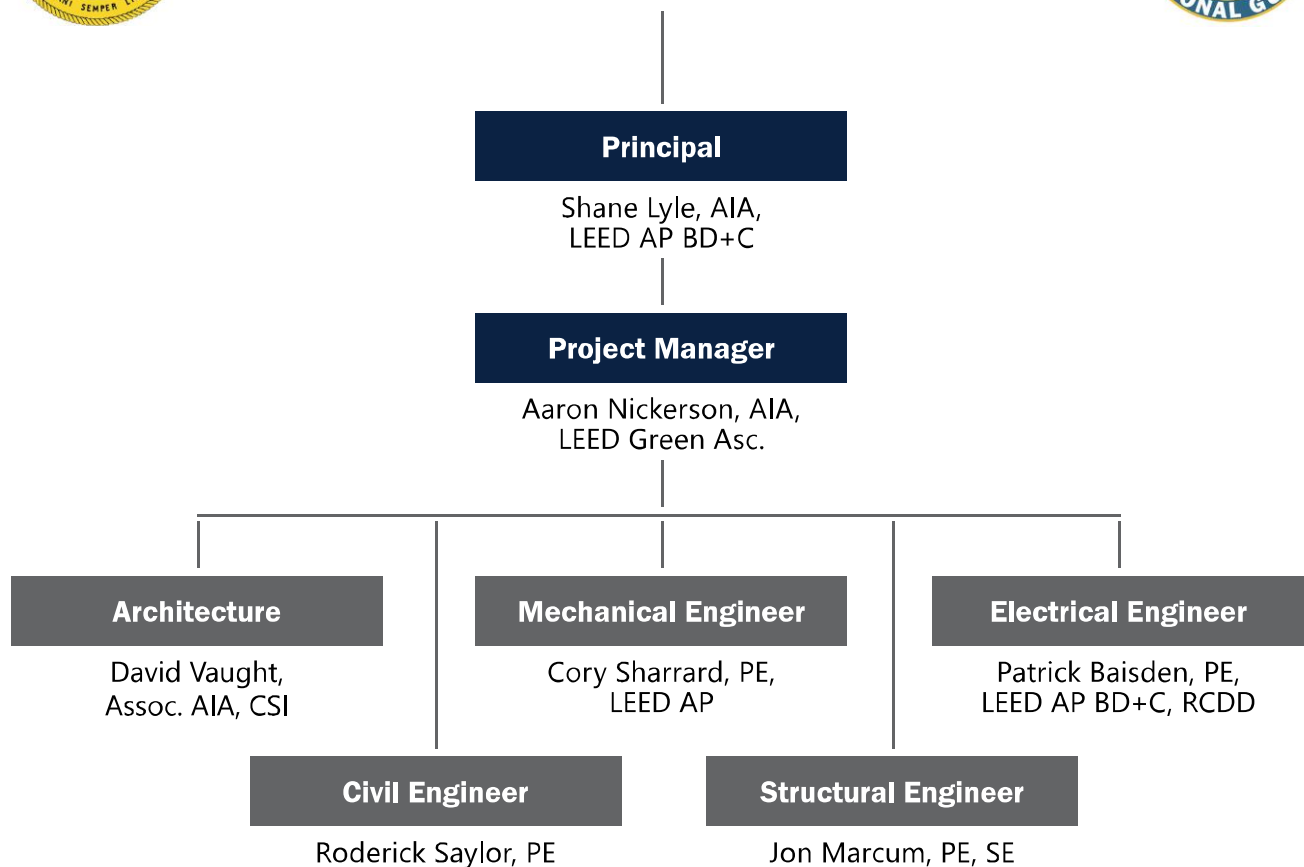
These capabilities allow our teams to **collaborate** more efficiently with you, which makes a

significant positive impact on your project experience.

Resumes are on the following pages. Read more about our **approach** and **methodology**, including an overview of key team member responsibilities in **Section 4.0**.



West Virginia Department of Administration and West Virginia Army National Guard





Shane Lyle, AIA, LEED AP BD+C GRW Principal

RELEVANT PROJECT EXPERIENCE

West Virginia ANG 130th Airlift Wing Building 107 Renovation, Charleston, WV – Principal. Scope of work included design services (LEED Silver design criteria) for two separately funded (MILCON/SRM) sub-projects to repurpose existing unoccupied hangar into space for Aeromedical Evacuation Squadron (AES). Repairs and building repurposing included: new interior spaces within existing facility to accommodate new functions; building exterior repairs, new interior finishes; mechanical and electrical systems upgrade; fire alarm and fire protection systems repair; and site/building revisions to meet ATFP standards. New functional areas include spaces for medical simulation training, maintenance, operations, administration, storage, and other mission-related activities.

West Virginia ARNG JFHQ TAG Wing Renovation, Charleston, WV – Project Manager. Work for 7,200 SF facility includes renovations of office areas, complete restroom renovations, and new interior LED lighting for these areas.

West Virginia ARNG Buckhannon Readiness Center Phase II Commissioning, Buckhannon, WV – Architect. Provided commissioning services during design, construction, and post-construction for the Phase 2 addition of Buckhannon Readiness Center.

West Virginia ARNG Martinsburg Secure Facility, Martinsburg, WV – Project Manager. Renovations to 2-story area (6,200 SF per level) to provide new secure office space and related support spaces for specific using agency. Includes HVAC replacement (including redundant HVAC systems for secure IT room and non-secure IT room); new DDC control system for all new equipment, new interior finishes (including raised access flooring), structural roof deck and roofing system, elevator and fire stairs, building security and cameras, and site security fencing, sliding vehicular security gates, exterior parking; and site utility and storm drainage improvements.

West Virginia ANG 167th Airlift Wing Munitions Storage, Martinsburg, WV – Architect. New munitions inspection building, five magazines (all pre-manufactured modular units), new concrete pads (2,865 SF), all-weather pavement (5,566 SF) for vehicular access, gate/fencing, utilities, exterior lot lighting, communications, and security for munitions area.

West Virginia ARNG Camp Dawson Volkstone Training Area Utility Upgrade, Kingwood, WV – Principal. Expansion of sewer (1,996 LF), water (1,996 LF) and electric (1,797 LF) to all existing and future buildings, unit training equipment site (UTES) and wash rack locations. Also included design of Forward Operating Base (FOB) including 20 14' x 16' wooden buildings, new bath house for approximately 200 people and pavilion.

West Virginia ANG 167th Airlift Wing C-17 Corrosion Control Hangar Modifications, Martinsburg, WV – Project Manager. Fast-track design of corrosion control hangar (B308) modifications required to meet 167AW's change in mission from C-5 to C-17 aircraft.

YEARS OF EXPERIENCE:

With GRW: 35

Total: 41

EDUCATION

Bachelor of Architecture (with honors), 1983, University of Kentucky

REGISTRATION

Registered Architect:

WV, KY, TN, AL, GA, IN, TX, MS, NC, SC, FL, MO, AZ, NM, CA, WA, KS, MD, NE

National Council of Architectural Registration Boards (NCARB) Certification

LEED Accredited Professional, Building Design + Construction

Certified Interior Designer: Kentucky

PROFESSIONAL AFFILIATIONS AND TRAINING

American Institute of Architects

Past President - AIA East Kentucky Chapter Board of Directors

American Correctional Association (ACA)

Member / Past Officer - UK College of Architecture Alumni Association

Life Member - UK Alumni Association

West Virginia ANG 167th Airlift Wing C-17 Composite Material Shop, Martinsburg, WV – Project Manager. Fast-track design of 7,600 SF composite material shop to existing corrosion control hangar required to meet 167AW's change in mission from C-5 to C-17 aircraft.

West Virginia ANG 167th Airlift Wing C-17 Maintenance Hangar Modifications, Martinsburg, WV – Project Manager. Fast-track design of maintenance hangar (B306) modifications required to meet 167AW's change in mission from C-5 to C-17 aircraft.

West Virginia ANG 167th Airlift Wing C-17 Fuel Cell Hangar Modifications, Martinsburg, WV – Project Manager. Fast-track design of fuel cell hangar (B305) modifications required to meet 167AW's change in mission from C-5 to C-17 aircraft.

West Virginia ARNG Camp Dawson Ranges at Briery Mountain, Kingwood, WV – Principal. Project includes design and construction of new Hand Grenade Familiarization Range and Live Fire Exercise Breach (LFEB) Training Range at Briery Mountain Training area to conform site to government standard Breach Range Design Requirements. Included design of access road to remote site, electrical connections, breaching structures, open covered range operations and control shelter, storage building, dry latrine, covered viewing stands, and parking area.

West Virginia ANG 167th Airlift Wing C-5 Apron Repair, Martinsburg, WV – Principal. Evaluation and design services to repair fractured/heaved C-5 apron caused by poorly draining base and sub base. Pavement repair of approximately 1,755 SY included demolition and removal of fractured and heaved pavement down to below original base and sub base, compaction of new material, placing of sub base and base and concrete pavement parking apron, asphalt shoulder stabilization, all constructed to support C-5 aircraft. Utility and site improvements were also included.

West Virginia ANG 130th Airlift Wing Security Forces Squadron Facility Renovation and Expansion, Charleston, WV – Principal. Complete architectural and engineering Type A, B and C services for \$2 million renovation of 5,395 SF SFS facility (B142) including addition of 2,500 SF administrative and training space to better serve unit. Project (MILCON/SRM split funded) increased space and improved mission performance and operational efficiency for command and administrative functions in ways that are energy efficient, code compliant and in accordance with current ANG policies. Project meets LEED Silver design criteria, and all AT/FP and ADAAG requirements.

West Virginia ANG 130th Airlift Wing Communications Facility Code / Criteria Review, Charleston, WV – Project Manager. Code/criteria review and LEED update report for facility designed to 65% three years prior under separate GRW/NGB contract then put on hold pending funding. Twofold project goal included: 1) identify and delineate known codes/criteria that are either new or updated since 65% design submittal; and 2) describe revised LEED 3.0 criteria now in effect for project and outline points for LEED Silver certification, compared to LEED Silver 2.2 criteria in effect at 65% design stage.

West Virginia ANG 167th Airlift Wing Maintenance Mall (Building 307) Repair, Martinsburg, WV – Principal. Concept development report for C-5 aircraft complex which required electrical modifications to meet needs of current occupants' activities, and investigation/resolution of temperature control in numerous locations. Report included detailed discussion of current electrical, architectural and HVAC system problems; recommendations to resolve large-system problems, as well as particular solutions for small areas; conceptual level drawings; conceptual level outline specification; and construction cost estimate.

West Virginia ANG 130th Airlift Wing Squadron Operations Facility Repair, Charleston, WV – Principal. Design services for \$3 million renovation and energy-efficient improvements to 25,765 SF facility with history of remodeling activities resulting in building that inadequately served its users (Administration and Operations, Base Operations, Command Post, and Life Support and Fitness Center). Work included Charrette to develop alternative floor plans. Selected design allowed for efficient use of space; HVAC, electrical and fire protection systems upgrade; and roof repairs. Designed to achieve USGBC LEED Certified rating, meet all ANG Sustainable Design criteria and utilize MILCON/SRM split funding.

West Virginia ARNG Joint Armed Forces Reserve Center and Area Maintenance Support Activity, Ripley, WV – Architect. Preparation of Program Planning Document Charrette (PPDC) for replacement of two local armories and USAR center with aging facilities and site limitations, with new, \$17 million Joint Armed Forces Reserve Center and support facilities on 94-acre site. Resulting plans included an Armed Forces Reserve Center (60,927 SF), unheated storage (6,000 SF), area maintenance support (4,500 SF) and helipad.

West Virginia ANG 130th Airlift Wing Communications Facility, Charleston, WV – Project Manager. Design (Type A and B, 65%) for a new \$3.6 million, 13,100 SF Communications Facility at Yeager Airport in Charleston for West Virginia Air National Guard, designed for LEED Silver rating, to provide centrally located common user communications system for both intra-base and off-base communications, with ground control of all ground point-to-point contact and air to ground point-to-point contact (such as radio, telephone, DISNET, etc.). Design paused at 65% to enable base's master plan and re-prioritize new capital improvements.



Aaron Nickerson, AIA, LEED Green Asc. GRW Project Manager

RELEVANT PROJECT EXPERIENCE

West Virginia ARNG JFHQ TAG Wing Renovation, Charleston, WV – Architect. Work for 7,200 SF facility includes renovations of office areas, complete restroom renovations, and new interior LED lighting for these areas.

West Virginia ANG 130th Airlift Wing Communications Facility, Charleston, WV – Architectural Designer. Design (Type A and B, 65%) for a new \$3.6 million, 13,100 SF Communications Facility at Yeager Airport in Charleston for West Virginia Air National Guard, designed for LEED Silver rating. Design paused at 65% to enable base's master plan and re-prioritize new capital improvements.

Jeffersontown Fire & EMS Station #54, Jeffersontown, KY – Project Manager. Complete A/E design services for new 17,500 SF city Fire and EMS station. Facility consists of two-story fire house, accessory 3-bay garage building, storage building, and full site development. Fire house has dorms, office, decontamination areas as well as a 3-bay pull through apparatus bay (storage of 7 vehicles), ICC-500 compliant tornado shelter, and building - wide natural gas generator.

Louisville MSD Morris Forman Water Quality Treatment Center and Central Maintenance Facility Entrance Enhancements, Louisville, KY – Project Manager. Full-service A/E design and construction administration services for replacement of guard facilities. Scope of work includes new guard buildings; access drives; security measures including access control, cameras, gates, and lighting; and utilities including data, power, generator backup, and plumbing.

Louisville MSD Morris Forman Water Quality Treatment Center and Central Maintenance Facility-Guard Facility Study, Louisville, KY – Project Manager. Programming report for investigation into replacement of guard facilities. Scope of work included investigations into current security measures, vehicle access, power and distribution requirements, and guard building accommodations for staff.

NYRA Belmont Park, Aqueduct Racetrack and Saratoga Race Course Improvements, Elmont, Queens & Saratoga Spri, NY – Architect. Improvement projects at Belmont Park include rebuilding main dirt track and two turf tracks; new pump house and irrigation system; widening of training track; and new three-bay vehicle maintenance and wash facility.

Wright-Patterson AFB Consolidate / Renovate Building 614, Wright-Patterson AFB, OH – Architect. Demolition of Building 745 CE Grounds Maintenance; consolidation and renovation of existing Building 614 CE Grounds Maintenance Shop; and addition to Building 614 in Area B. Design-build delivery.

Blue Grass Army Depot Personnel Support Facility, Richmond, KY – Project Manager. Design-build project of approximately 7,500 SF, pre-engineered metal building including space for field office activities, conference rooms, locker and changing areas, and laundry and storage.

YEARS OF EXPERIENCE:

With GRW: 18

Total: 19

EDUCATION

Bachelor of Architecture (with honors), 2006, University of Kentucky

Master of Architecture, 2007, University of Kentucky

REGISTRATION

Registered Architect:

WV, KY, TN, IN, FL, NY, WA, DE, AR, DC, KS

National Council of Architectural Registration Boards (NCARB) Certification

LEED Green Associate

Certified Interior Designer: Kentucky

PROFESSIONAL AFFILIATIONS AND TRAINING

American Institute of Architects (AIA)

U.S. Green Building Council (USGBC)

Society of American Military Engineers (SAME)

Nicholasville Fire Station No. 4, Nicholasville, KY – Project Manager. Facility programming, facility needs assessments, architectural and engineering design, and construction phase services for new 6,825 SF fire station with two pull-through apparatus bays, and vehicle storage for up to six vehicles. Facility includes controlled security lock systems for visitors; backup generator power for entire building, communications, electrical, and mechanical/HVAC; zoned sloped concrete floors with trench drain and oil/water separator system; high pressure washing system in apparatus bays; four zones of dedicated vehicle exhaust and makeup air units in vehicle maintenance area; high-speed, motorized overhead section doors; staff and visitor parking; concrete apparatus vehicle parking and driveways; staff assembly areas with sustainable stormwater including rain garden and vegetated filtration plantings.

Blue Grass Army Depot Visitor Control Center and Battlefield Memorial Highway Revisions, Richmond, KY – Architect. Design and construction administration services for design-build project at main visitor control center (VCC). Revisions involved removing, closing, and relocating VCC to current parking lot entrance, as well as widening and providing KYTC-required improvements, such as new traffic signals, warning signals, and revised signage to U.S. 421 at new entrance. VCC structures, signage, fencing, utilities, pavement, and pedestrian facilities improvements were also included.

Pulaski County Schools Bus Maintenance Garage, Somerset, KY – Construction Administration. New 11,036 SF, pre-engineered metal building with three drive-through maintenance bays equipped with motorized, vertical lift sectional doors with space for six buses; tire room; work room; parts room; toilets; break room; waiting area; office; and mezzanine storage/mechanical area. Also included 3 in-ground, adjustable bus lifts; concrete floor with trench drains and oil/water separator; fire suppression system; centralized vehicle fluids system piped to 4 central dispensing locations; compressed air system; vehicle exhaust systems; overhead radiant system and ventilation in bus bays; and complete HVAC in office areas.

Ohio ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Springfield, OH – Architectural Designer. Project Planning Document Charrette and design for new LEED Silver Certified 85,865 SF complex serving both Ohio Army National Guard and U.S. Army Reserves. Provided Joint Armed Forces Reserve Center (AFRC) totaling 60,902 SF, and Field Maintenance Shop (FMS) totaling 24,963 SF, with a construction bid of \$14 million (\$9 million under the MCC of \$23 million) due in large part to innovative design and alternative construction materials. Functional spaces include administrative, educational (classrooms, weapons simulator, distance learning, training-specific libraries, COMSEC), assembly hall and kitchen, general storage, flammable materials storage and controlled waste facilities, and 10 drive-through work bays (6 for ARNG, 4 for USAR). Site work included extension of utilities from adjacent ANG base, grading, drainage and stormwater detention, perimeter fencing and entry point control, parking and access roads, wash platform, AT/FP measures, and geothermal system for heating and cooling.



David Vaught, Assoc. AIA, CSI GRW Architectural Designer

RELEVANT PROJECT EXPERIENCE

West Virginia ANG 167th Airlift Wing C-17 Composite Material Shop, Martinsburg, WV – Architectural Designer. Fast-track design of 7,600 SF composite material shop to existing corrosion control hangar required to meet 167AW's change in mission from C-5 to C-17 aircraft.

West Virginia ANG 167th Airlift Wing C-17 Corrosion Control Hangar Modifications, Martinsburg, WV – Architectural Designer. Fast-track design of corrosion control hangar (B308) modifications required to meet 167AW's change in mission from C-5 to C-17 aircraft.

West Virginia ANG 167th Airlift Wing C-17 Fuel Cell Hangar Modifications, Martinsburg, WV – Architectural Designer. Fast-track design of fuel cell hangar (B305) modifications required to meet 167AW's change in mission from C-5 to C-17 aircraft.

West Virginia ANG 167th Airlift Wing C-17 Maintenance Hangar Modifications, Martinsburg, WV – Architectural Designer. Fast-track design of maintenance hangar (B306) modifications required to meet 167AW's change in mission from C-5 to C-17 aircraft.

Kenton County School District Transportation & District Support Facility, Fort Wright, KY – Architectural Designer. New approximately 80,578 SF transportation and support facility to support staff and operations for these critical district functions: transportation, maintenance, technology, and support operations. Spaces anticipated range from offices and conference rooms to a garage with eight drive-through bays, a food service area, a network operations center (NOC), specialized spaces (image room, bug rooms), and numerous other items.

Berea College Facilities Maintenance and Auxiliary Maintenance Buildings, Berea, KY – Architectural Designer. New 37,445 SF pre-engineered metal Facilities Maintenance (FM) and 15,504 SF pre-engineered metal Auxiliary Maintenance (AM) buildings to unify and improve efficiency for Facilities Maintenance Departments. FM building includes office space; office support spaces; maintenance work areas for each department; multipurpose lunchroom/classroom for 60+ staff; toilet/shower/locker area; general work/storage area; additional mezzanine storage area with freight service elevator access; unit heaters and exhaust/air circulation systems in shop areas; HVAC in office areas via one central roof top unit; and building wide fire suppression. AM building includes: vehicle repair area with two, slab-supported lifts; vehicle wash bay; bus storage; campus recycling center with industrial cardboard bailer and paper shredder; offices; bathrooms; additional overflow storage area; and 30 electric cart maintenance vehicle charging/parking spaces. Both buildings have card reader access, motorized overhead doors, man doors, concrete floors with trench drains where applicable, and oil/water separator systems.

YEARS OF EXPERIENCE:

With GRW: 26

Total: 26

EDUCATION

Bachelor of Architecture (Dean's List), 1998, University of Kentucky

Associates Degree, Applied Science, 1993, Lexington Community College

REGISTRATION

Associate Member, American Institute of Architects

PROFESSIONAL AFFILIATIONS AND TRAINING

Member, Construction Specification Institute (CSI)

Intern Development Program Completed

Roederer Correctional Complex Security Upgrades, LaGrange, KY –

Architectural Designer. New security perimeter around Unit 5 Building which houses 225 occupants. Improvements included: approximately 1,450 LF of perimeter fencing, gravel perimeter drive, vehicular sally port, exterior security lighting and cameras, and routing existing overhead power underground at fencing.

Aliceville Federal Correctional Institution and Satellite Camp, Aliceville, AL –

Architectural Designer. Design-build delivery of \$196 million, LEED Silver women's medium-security Federal Correctional Institution (70-acre site) and minimum-security Federal Prison Camp (20-acre site) totaling 665,889 SF, housing approximately 1,790 inmates. FCI includes three 4-story housing units and one single-story segregation unit dormitory. Complex includes food service (kitchen/dining), medical services, warehouses/sanitation, administrative, recreational, academic educational, industrial/vocational, personal services, vehicle maintenance, and central utilities plant.

Twin Lakes Emergency Services Building, Albany, KY –

Project Manager. Preliminary design services for new, 12,150 SF emergency services building providing 4 truck bays for firefighting, 6 truck bays for EMS, and 911 dispatch. Included storage areas, sleeping quarters, kitchen, conference and training room, and offices.

Ohio ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Springfield, OH –

Architectural Designer. Project Planning Document Charrette and design for new LEED Silver Certified 85,865 SF complex serving both Ohio Army National Guard and U.S. Army Reserves. Provided Joint Armed Forces Reserve Center (AFRC) totaling 60,902 SF, and Field Maintenance Shop (FMS) totaling 24,963 SF, with a construction bid of \$14 million (\$9 million under the MCC of \$23 million) due in large part to innovative design and alternative construction materials. Functional spaces include administrative, educational, assembly hall and kitchen, general storage, flammable materials storage and controlled waste facilities, and 10 drive-through work bays (6 for ARNG, 4 for USAR). Site work included extension of utilities from adjacent ANG base, grading, drainage and stormwater detention, perimeter fencing and entry point control, parking and access roads, wash platform, AT/FP measures, and geothermal system for heating and cooling.

Indiana ARNG 76th Brigade Combat Team Readiness Center, Lawrence, IN –

Architectural Designer. Planning, design and construction administration services for new 109,555 SF, 2-story Readiness Center and 8,300 SF unheated storage facility. Includes: administrative areas; classrooms, COMSEC training, library and training center, distance learning; assembly hall with fully functional kitchen; locker rooms, medical section room; heated unit storage and unheated storage rooms, facility maintenance, arms vault, tool rooms; RAPIDS, family support and recruiting offices; space for future indoor range or simulator; military and POV parking, wash platform, loading ramp and dock, helipad; site Antiterrorism / Force Protection (AT/FP) measures, security lighting; energy management and control system, intrusion detection system, mass notification system; stormwater bio-retention pond.



Cory Sharrard, PE, LEED AP

GRW Mechanical Engineer

RELEVANT PROJECT EXPERIENCE

West Virginia Division of Corrections HVAC Multiple Facilities, Multiple Locations, WV – Project Manager. Schematic design, design, development, construction documents, cost estimates, construction bid services, and construction administration services to replace the central air systems and building automation controls systems at ten (10) facilities across West Virginia including Lakin, Eastern Regional, Salem, Kuhn, Tiger-Morton, Chick-Buckbee, Rubenstein, Yeager, Shell, and Perdue.

West Virginia ARNG JFHQ TAG Wing Renovation, Charleston, WV – Mechanical Engineer. Work for 7,200 SF facility includes renovations of office areas, complete restroom renovations, and new interior LED lighting for these areas.

West Virginia ARNG Martinsburg Secure Facility, Martinsburg, WV – Mechanical Engineer. Renovations to 2-story area (6,200 SF per level) to provide new secure office space and related support spaces for specific using agency. Includes HVAC replacement (including redundant HVAC systems for secure IT room and non-secure IT room); new DDC control system for all new equipment, new interior finishes (including raised access flooring), structural roof deck and roofing system, elevator and fire stairs, building security and cameras, and site security fencing, sliding vehicular security gates, exterior parking; and site utility and storm drainage improvements.

West Virginia Division of Natural Resources Bath House Renovations, South Charleston, WV – Project Manager. Engineering and architectural services for the design of renovations to bathhouses and restrooms at 26 locations throughout the West Virginia parks systems. Renovations include new fixtures, finishes, and minor electrical and mechanical upgrades. The project also includes new modular bathhouses and restrooms, as well as ADA access improvements.

West Virginia State Capitol East Campus Warehouse/Grounds Building, Charleston, WV – Mechanical Engineer. Planning, design, and bidding services for a 26,771-SF warehouse facility with surplus and receiving, a warehouse store, office area, maintenance shop with welding, grounds mechanic shop for vehicle maintenance, and equipment storage facility serving the WV Department of Administration, General Services Division on the Capitol East Campus. Included are an open storage and bulk storage building on site as well as a separate building for Capitol mail room building.

West Virginia Division of Natural Resources Building 74 Renovation, South Charleston, WV – Project Manager. Evaluation and recommendations for possible improvements and upgrades to building systems in three-story, 37,000 SF, masonry-construction facility that houses approximately 100 employees. Among improvements selected for design are replacement of heating and cooling systems, windows, T5 lighting with LED fixtures, and replacement of ceilings and floor finishes, as well as new DDC controls throughout building.

YEARS OF EXPERIENCE:

With GRW: 5

Total: 25

EDUCATION

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

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

REGISTRATION

Professional Engineer:

WV, KY, IN, OH, NY, FL, TN

NCEES Member allows
reciprocity with other states

LEED Accredited Professional

PROFESSIONAL AFFILIATIONS AND TRAINING

Kentucky Local Correctional
Facilities Construction Authority
Board (through 2023)

American Society of Heating,
Refrigerating and Air-
Conditioning Engineers
(ASHRAE) - Board of Governors,
Bluegrass Chapter

Kentucky Society of Professional
Engineers (KSPE) - Professional
Development Committee (Vice
Chair), Bylaws & Operational
Procedures Committee, Ethical
Practices Committee

Society of American Military
Engineers (SAME)

Society of Marketing
Professional Services (SMPS) -
Past President

West Virginia Department of Highways District 1 Vehicle Maintenance and Equipment Shops Building, Charleston, WV – Mechanical Engineer. Approximate 35,000 SF facility includes: 8 heavy vehicle repair bays; 6 light vehicle repair bays; 2 welding bays; wash bay; small engine shop; parts and tire storage areas; offices; 2 cranes serving repair bays; 1 crane serving entire weld shop area; freight elevator; perimeter fencing; keycard entry system; and generator. Structure features cavity walls with concrete panel backup, petroleum resistant concrete floors, and metal roofing over rigid insulation, metal decking, and bar joists.

Kenton County School District Transportation & District Support Facility, Fort Wright, KY – Mechanical Engineer. New approximately 80,578 SF transportation and support facility to support staff and operations for these critical district functions: transportation, maintenance, technology, and support operations. Spaces anticipated range from offices and conference rooms to a garage with eight drive-through bays, a food service area, a network operations center (NOC), specialized spaces (image room, bug rooms), and numerous other items.

Jeffersontown Fire & EMS Station #54, Jeffersontown, KY – Mechanical Engineer. Complete A/E design services for new 17,500 SF city Fire and EMS station. Facility consists of two-story fire house, accessory 3-bay garage building, storage building, and full site development. Fire house has dorms, office, decontamination areas as well as a 3-bay pull through apparatus bay (storage of 7 vehicles), ICC-500 compliant tornado shelter, and building - wide natural gas generator.

Berea College Facilities Maintenance and Auxiliary Maintenance Buildings, Berea, KY – Mechanical Engineer. New 37,445 SF pre-engineered metal Facilities Maintenance (FM) and 15,504 SF pre-engineered metal Auxiliary Maintenance (AM) buildings to unify and improve efficiency for Facilities Maintenance Departments. FM building includes office space; office support spaces; maintenance work areas for each department; multipurpose lunchroom/classroom for 60+ staff; toilet/shower/locker area; general work/storage area; additional mezzanine storage area with freight service elevator access; unit heaters and exhaust/air circulation systems in shop areas; HVAC in office areas via one central roof top unit; and building wide fire suppression. AM building includes: vehicle repair area with two, slab-supported lifts; vehicle wash bay; bus storage; campus recycling center; offices; bathrooms; additional overflow storage area; and 30 electric cart maintenance vehicle charging/parking spaces. Both buildings have card reader access, motorized overhead doors, man doors, concrete floors with trench drains where applicable, and oil/water separator systems.

Pulaski County Schools Bus Maintenance Garage, Somerset, KY – Mechanical Engineer. New 11,036 SF, pre-engineered metal building with three drive-through maintenance bays equipped with motorized, vertical lift sectional doors with space for six buses; tire room; work room; parts room; toilets; break room; waiting area; office; and mezzanine storage/mechanical area. Also included 3 in-ground, adjustable bus lifts; concrete floor with trench drains and oil/water separator; fire suppression system; centralized vehicle fluids system piped to 4 central dispensing locations; compressed air system; vehicle exhaust systems; overhead radiant system and ventilation in bus bays; and complete HVAC in office areas.



Patrick Baisden, PE, LEED AP BD+C, RCDD GRW Electrical Engineer

RELEVANT PROJECT EXPERIENCE

West Virginia ANG 167th Airlift Wing Maintenance Mall (Building 307)

Repair, Martinsburg, WV – Electrical Engineer. Concept development report for C-5 aircraft complex which required electrical modifications to meet needs of current occupants' activities, and investigation/resolution of temperature control in numerous locations. Report included detailed discussion of current electrical, architectural and HVAC system problems; recommendations to resolve large-system problems, as well as particular solutions for small areas; conceptual level drawings; conceptual level outline specification; and construction cost estimate.

West Virginia ARNG JFHQ TAG Wing Renovation, Charleston, WV –

Electrical Engineer. Work for 7,200 SF facility includes renovations of office areas, complete restroom renovations, and new interior LED lighting for these areas.

West Virginia ARNG Martinsburg Secure Facility, Martinsburg, WV –

Electrical Engineer. Renovations to 2-story area (6,200 SF per level) to provide new secure office space and related support spaces. Includes HVAC replacement (including redundant HVAC systems for secure IT room and non-secure IT room); new DDC control system for all new equipment, new interior finishes (including raised access flooring), structural roof deck and roofing system, elevator and fire stairs, building security and cameras, and site security fencing, sliding vehicular security gates, exterior parking; and site utility and storm drainage improvements.

West Virginia State Capitol East Campus Warehouse/Grounds Building, Charleston, WV –

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

West Virginia Department of Highways District 1 Vehicle Maintenance and Equipment Shops Building, Charleston, WV –

Electrical Engineer. Approximate 35,000 SF facility includes: 8 heavy vehicle repair bays; 6 light vehicle repair bays; 2 welding bays; wash bay; small engine shop; parts and tire storage areas; offices; 2 cranes serving repair bays; 1 crane serving entire weld shop area; freight elevator; perimeter fencing; keycard entry system; and generator. Structure features cavity walls with concrete panel backup, petroleum resistant concrete floors, and metal roofing over rigid insulation, metal decking, and bar joists.

West Virginia ANG 167th Airlift Wing Munitions Storage, Martinsburg, WV –

Electrical Engineer. New munitions inspection building, five magazines (all pre-manufactured modular units), new concrete pads (2,865 SF), all-weather pavement (5,566 SF) for vehicular access, gate/fencing, utilities, exterior lot lighting, communications, and security for munitions area.

YEARS OF EXPERIENCE:

With GRW: 15

Total: 27

EDUCATION

B.S., Electrical Engineering, 1997,
University of Kentucky

REGISTRATION

Professional Engineer, Electrical:
WV, KY, IN, OR, NM, SC,
TN, VA, NY

NCEES Member allows
reciprocity with other states

LEED Accredited Professional,
Building Design + Construction

Registered Communications
Distribution Designer

West Virginia ARNG Camp Dawson Ranges at Briery Mountain, Kingwood, WV – Electrical Engineer. Project includes design and construction of new Hand Grenade Familiarization Range and Live Fire Exercise Breach (LFEB) Training Range.

West Virginia ANG 167th Airlift Wing C-17 Corrosion Control Hangar Modifications, Martinsburg, WV – Electrical Engineer. Fast-track design of corrosion control hangar (B308) modifications required to meet 167AW's change in mission from C-5 to C-17 aircraft.

West Virginia ANG 130th Airlift Wing Security Forces Squadron Facility Renovation and Expansion, Charleston, WV – Electrical Engineer. Complete architectural and engineering Type A, B and C services for \$2 million renovation of 5,395 SF SFS facility (B142) including addition of 2,500 SF administrative and training space to better serve unit. Project meets LEED Silver design criteria, and all AT/FP and ADAAG requirements.

West Virginia ANG 130th Airlift Wing Squadron Operations Facility Repair, Charleston, WV – Electrical Engineer. Design services for \$3 million renovation and energy-efficient improvements to 25,765 SF facility with history of remodeling activities resulting in building that inadequately served its users (Administration and Operations, Base Operations, Command Post, and Life Support and Fitness Center). Design allowed for efficient use of space; HVAC, electrical and fire protection systems upgrade; and roof repairs. Designed to achieve USGBC LEED Certified rating, meet all ANG Sustainable Design criteria and utilize MILCON/SRM split funding.

Jeffersontown Fire & EMS Station #54, Jeffersontown, KY – Electrical Engineer. Complete A/E design services for new 17,500 SF city Fire and EMS station. Facility consists of two-story fire house, accessory 3-bay garage building, storage building, and full site development. Fire house has dorms, office, decontamination areas as well as a 3-bay pull through apparatus bay (storage of 7 vehicles), ICC-500 compliant tornado shelter, and building - wide natural gas generator.

Nicholasville Fire Station No. 4, Nicholasville, KY – Electrical Engineer. Facility programming, facility needs assessments, architectural and engineering design, and construction phase services for new 6,825 SF fire station with two pull-through apparatus bays, and vehicle storage for up to six vehicles.

Indiana ARNG 76th Brigade Combat Team Readiness Center, Lawrence, IN – Electrical Engineer. Planning, design and construction administration services for new 109,555 SF, 2-story Readiness Center and 8,300 SF unheated storage facility. Includes: administrative areas; classrooms, COMSEC training, library and training center, distance learning; assembly hall with fully functional kitchen; locker rooms, medical section room; heated unit storage and unheated storage rooms, facility maintenance, arms vault, tool rooms; RAPIDS, family support and recruiting offices; space for future indoor range or simulator; military and POV parking, wash platform, loading ramp and dock, helipad; site Antiterrorism / Force Protection (AT/FP) measures, security lighting; energy management and control system, intrusion detection system, mass notification system; stormwater bio-retention pond.



Roderick Saylor, PE

GRW Civil Engineer

RELEVANT PROJECT EXPERIENCE

West Virginia ANG 130th Airlift Wing Aboveground Fuel Storage Dispensing Facility, Charleston, WV – Civil Engineer. Design for new aboveground fuel station for installation's government-owned vehicles, comprising two new aboveground tanks (1 diesel, 1 unleaded gasoline) and new dispensing system, replacing older fuel station that included underground fuel storage tanks.

West Virginia ANG 130th Airlift Wing Security Forces Squadron Facility Renovation and Expansion, Charleston, WV – Civil Engineer. Complete architectural and engineering Type A, B and C services for \$2 million renovation of 5,395 SF SFS facility (B142) including addition of 2,500 SF administrative and training space to better serve unit. Project (MILCON/SRM split funded) increased space and improved mission performance and operational efficiency for command and administrative functions in ways that are energy efficient, code compliant and in accordance with current ANG policies. Project meets LEED Silver design criteria, and all AT/FP and ADAAG requirements.

West Virginia ANG 167th Airlift Wing Munitions Storage, Martinsburg, WV – Civil Engineer. New munitions inspection building, five magazines (all pre-manufactured modular units), new concrete pads (2,865 SF), all-weather pavement (5,566 SF) for vehicular access, gate/fencing, utilities, exterior lot lighting, communications, and security for munitions area.

Bowling Green Municipal Utilities Water & Maintenance Crews Facility Conceptual Design, Bowling Green, KY – Project Manager. Architectural and engineering services for conceptual site and building design services providing BGMU with a detailed preliminary design report (PDR) to identify critical project components and allow BGMU to make informed project decisions on timing, staging, current and future uses of the property. PDR shall include the items such as existing site characteristics and challenges, conceptual site & building floor plan, potential phasing options, opinion of probable costs, permitting, etc.

Kenton County School District Transportation & District Support Facility, Fort Wright, KY – Civil Engineer. New approximately 80,578 SF transportation and support facility to support staff and operations for these critical district functions: transportation, maintenance, technology, and support operations. Spaces anticipated range from offices and conference rooms to a garage with eight drive-through bays, and a food service area.

Jeffersontown Fire & EMS Station #54, Jeffersontown, KY – Civil Engineer. Complete A/E design services for new 17,500 SF city Fire and EMS station. Facility consists of two-story fire house, accessory 3-bay garage building, storage building, and full site development. Fire house has dorms, office, decontamination areas as well as a 3-bay pull through apparatus bay (storage of 7 vehicles), ICC-500 compliant tornado shelter, and building - wide natural gas generator.

YEARS OF EXPERIENCE:

With GRW: 19

Total: 19

EDUCATION

B.S., Civil Engineering, 2006,
University of Kentucky

REGISTRATION

Professional Engineer: KY, FL, IN,
OH, KS, MD, NY, NE, TN

PROFESSIONAL AFFILIATIONS AND TRAINING

KYTC Complete Streets, Roads,
and Highways Manual Training
(10/27/23)

NYRA Belmont Park, Aqueduct Racetrack and Saratoga Race Course Improvements, Elmont, Queens & Saratoga Spri, NY – Project Manager. Improvement projects at Belmont Park include: rebuilding main dirt track and two turf tracks (wider turf track allows for more turf racing and better surfaces); new pump house and complete irrigation system including a new irrigation pond to accommodate wider turf track; widening of training track from approximately 60 feet to range of 70 to 90 feet along with new outside rail and new safety rail on inside; and new three-bay vehicle maintenance and wash facility.

Corbin Utilities Office and Warehouse Buildings, Corbin, KY – Civil Engineer. Design for building renovation on site of former automobile dealership, involving exterior site work, exterior and interior finishes, and demolition and replacement of existing mechanical and electrical systems. Initial work in 30,500 SF building provides a spacious public lobby, cashier's counter for walk-in customers, offices, employee shower and locker room facilities, two drive-thru bays for customer convenience, secure parking for employees, as well as storage and maintenance space for utility vehicles. Project includes hydronic geothermal system, direct digital control (DDC) system, high-efficiency plumbing fixtures, and high-efficiency lighting and lighting controls.

Utah ANG 151st Air Refueling Wing Installation Development Plan, Salt Lake City IAP, UT – Civil Engineer. Master planning for Air National Guard unit co-located at Salt Lake City International Airport, with current mission of eight KC-135R primary assigned aircraft (PAA) and planning for increase to twelve KC-135 PAA. Involved development of phased short- and long-range plan alternatives and selected plan to accommodate mission changes, providing web-based Installation Development Plan supported by series of geo-referenced maps of base, including all buildings, infrastructure and related facilities needed for successful conduct of base operations and maintenance functions.

Ohio ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Springfield, OH – Civil Engineer. Project Planning Document Charrette and design for new LEED Silver Certified 85,865 SF complex serving both Ohio Army National Guard and U.S. Army Reserves. Provided Joint Armed Forces Reserve Center (AFRC) totaling 60,902 SF, and Field Maintenance Shop (FMS) totaling 24,963 SF, with a construction bid of \$14 million (\$9 million under the MCC of \$23 million) due in large part to innovative design and alternative construction materials. Functional spaces include administrative, educational (classrooms, weapons simulator, distance learning, training-specific libraries, COMSEC), assembly hall and kitchen, general storage, flammable materials storage and controlled waste facilities, and 10 drive-through work bays (6 for ARNG, 4 for USAR). Site work included extension of utilities from adjacent ANG base, grading, drainage and stormwater detention, perimeter fencing and entry point control, parking and access roads, wash platform, AT/FP measures, and geothermal system for heating and cooling.



Jon Marcum, PE, SE GRW Structural Engineer

RELEVANT PROJECT EXPERIENCE

West Virginia ARNG Martinsburg Secure Facility, Martinsburg, WV – Structural Engineer. Renovations to 2-story area (6,200 SF per level) to provide new secure office space and related support spaces for specific using agency. Includes HVAC replacement (including redundant HVAC systems for secure IT room and non-secure IT room); new DDC control system for all new equipment, new interior finishes (including raised access flooring), structural roof deck and roofing system, elevator and fire stairs, building security and cameras, and site security fencing, sliding vehicular security gates, exterior parking; and site utility and storm drainage improvements.

Kenton County School District Transportation & District Support Facility, Fort Wright, KY – Structural Engineer. New approximately 80,578 SF transportation and support facility to support staff and operations for these critical district functions: transportation, maintenance, technology, and support operations. Spaces anticipated range from offices and conference rooms to a garage with eight drive-through bays, a food service area, a network operations center (NOC), specialized spaces (image room, bug rooms), and numerous other items.

Jeffersontown Fire & EMS Station #54, Jeffersontown, KY – Structural Engineer. Complete A/E design services for new 17,500 SF city Fire and EMS station. Facility consists of two-story fire house, accessory 3-bay garage building, storage building, and full site development. Fire house has dorms, office, decontamination areas as well as a 3-bay pull through apparatus bay (storage of 7 vehicles), ICC-500 compliant tornado shelter, and building - wide natural gas generator.

NYRA Belmont Park, Aqueduct Racetrack and Saratoga Race Course Improvements, Elmont, Queens & Saratoga Spri, NY – Structural Engineer. Improvement projects at Belmont Park include: rebuilding main dirt track and two turf tracks (wider turf track allows for more turf racing and better surfaces); new pump house and complete irrigation system including a new irrigation pond to accommodate wider turf track; widening of training track from approximately 60 feet to range of 70 to 90 feet along with new outside rail and new safety rail on inside; and new three-bay vehicle maintenance and wash facility. Track work at Aqueduct includes: rehabilitation of main/outer dirt track (5,940 feet/9 furlongs) by replacing existing surface and dirt surface; rebuilding of middle dirt track (5,280 feet/8 furlongs) with new stone base and new turf surface; and improvements at inner turf track (4,663 feet/7 furlongs). Improvements at Saratoga Race Course includes: grading, drainage, and geometry for reconstruction of main track surface and Oklahoma training track, and replacement of inside track rail with rider safety protection system.

YEARS OF EXPERIENCE:

With GRW: 7

Total: 26

EDUCATION

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

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

REGISTRATION

Professional Engineer/Structural
Engineer: KY

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

NCEES Member allows
reciprocity with other states

Nicholasville Fire Station No. 4, Nicholasville, KY – Structural Engineer. Facility programming, facility needs assessments, architectural and engineering design, and construction phase services for new 6,825 SF fire station with two pull-through apparatus bays, and vehicle storage for up to six vehicles. Facility includes station captain's office, training room, sleeping quarters for two companies (total of 10 staff), dayroom/break area, and dedicated Personnel Protection Gear (PPE) gear and laundry spaces. Also includes controlled security lock systems for visitors; backup generator power for entire building, communications, electrical, and mechanical/HVAC; zoned sloped concrete floors with trench drain and oil/water separator system; high pressure washing system in apparatus bays; four zones of dedicated vehicle exhaust and makeup air units in vehicle maintenance area; high-speed, motorized overhead section doors; staff and visitor parking; concrete apparatus vehicle parking and driveways; staff assembly areas with sustainable stormwater including rain garden and vegetated filtration plantings.

Berea College Facilities Maintenance and Auxiliary Maintenance Buildings, Berea, KY – Structural Engineer. New 37,445 SF pre-engineered metal Facilities Maintenance (FM) and 15,504 SF pre-engineered metal Auxiliary Maintenance (AM) buildings to unify and improve efficiency for Facilities Maintenance Departments. FM building includes office space; office support spaces; maintenance work areas for each department; multipurpose lunchroom/classroom for 60+ staff; toilet/shower/locker area; general work/storage area; additional mezzanine storage area with freight service elevator access; unit heaters and exhaust/air circulation systems in shop areas; HVAC in office areas via one central roof top unit; and building wide fire suppression. AM building includes: vehicle repair area with two, slab-supported lifts; vehicle wash bay; bus storage; campus recycling center with industrial cardboard bailer and paper shredder; offices; bathrooms; additional overflow storage area; and 30 electric cart maintenance vehicle charging/parking spaces. Both buildings have card reader access, motorized overhead doors, man doors, concrete floors with trench drains where applicable, and oil/water separator systems.

Pulaski County Schools Bus Maintenance Garage, Somerset, KY – Structural Engineer. New 11,036 SF, pre-engineered metal building with three drive-through maintenance bays equipped with motorized, vertical lift sectional doors with space for six buses; tire room; work room; parts room; toilets; break room; waiting area; office; and mezzanine storage/mechanical area. Also included 3 in-ground, adjustable bus lifts; concrete floor with trench drains and oil/water separator; fire suppression system; centralized vehicle fluids system piped to 4 central dispensing locations; compressed air system; vehicle exhaust systems; overhead radiant system and ventilation in bus bays; and complete HVAC in office areas.

Pulaski County Schools Area Technology Center Renovation, Somerset, KY – Structural Engineer. Design for 6,000 SF renovation of approximately 38,000 SF facility. Spaces include industrial technology classroom, robotics tech lab, hydraulics tech lab, weld tech lab, electronics tech lab, and support spaces.

SECTION 4.0

Approach & Methodology for Meeting Goals & Objectives

4.0 Approach & Methodology for Meeting Goals & Objectives

The West Virginia Department of Administration along with the West Virginia Army National Guard are embarking on an important project at the Camp Dawson Building 215 to renovate and update the Administration Wing in order to facilitate building use and meet current building codes.

We understand your current goals and objectives for this project include:

- Investigate and identify existing geotechnical conditions, utilities, and other site conditions relating to the renovation project.
- Adjust or replace existing HVAC systems to allow for more energy efficient operations.
- Replace all interior lighting with new LED fixtures.
- Replace existing interior doors.
- Upgrade existing restrooms.
- Upgrade finishes and flooring.
- Bring the building into current building code compliance.

We also understand we will be responsible for:

- Multiphase submittal including 35%, 65%, 95%, and 100%, and provide cost estimates with each submittal.
- Provide bidding and construction administration services.

An Approach Based on Respect & Clarity

Our approach to accomplishing these goals and objectives for your project is straightforward:

- 1) assemble the best and brightest design talent with knowledge of the national guard/military projects;
- 2) bring an open mind and fresh perspectives; and
- 3) remain accountable to you throughout the process for cost control/budget.

The cornerstone of the GRW design approach is collaboration, which we believe is key to our relationship with you. Communicating in an open dialog helps to vest everyone in the project's success and is a prerequisite to ensuring buy-in from all.

A Project Team You Can Count On

Our assigned project manager is key to our approach.



Leading you and our team as our project manager will be GRW's Vice President in charge of Architecture, **Aaron Nickerson**. A **Morgantown WV native** with 18 years of experience, he'll provide overall supervision for the design team and

be directly involved with you through every stage of the project. Aaron regularly manages teams on projects ranging in scope from \$2.3 million to as high as \$182 million. We believe you will find him a knowledgeable architect and a valuable partner. Aaron's logical and methodical approach will provide a steady hand guiding the team and the WVARNG through the design process to a successful conclusion. He'll work to balance vision with a realistic and practical assessment of cost and schedule.

In addition to Aaron, our architectural services are bolstered by **Shane Lyle** and **David Vaught** who bring a balance of WVARNG familiarity and the latest architectural design skills.

Closely supporting Aaron to ensure efficiency, effectiveness, and code compliance of mechanical systems will be **Cory Sharrard**. Our electrical engineer **Patrick Baisden** will apply his experience with power, lighting, and communications systems. Both will ensure code compliance and well-coordinated system upgrades.

Our in-house structural engineer, **Jon Marcum**, and civil engineer, **Roderick Saylor**, will address any site utilities issue for your project. All four have the experience you need and are accustomed to working on complex, systems-oriented, code-oriented projects. They all also have experience with WV National Guard projects.

Project Goals & Objectives

GRW is familiar with the project goals and objectives as provided in the Building 215 Administration Wing Renovation - Camp Dawson RFQ. The following approach is a summary of GRW's proposed scope of services including our design approach.

Kickoff Meeting / Capture Existing Building Information

Upon receiving notice to proceed, GRW will set up a kickoff meeting and site visit with the WVARNG Project Manager. GRW will utilize this meeting to review existing information, and talk to WVARNG personnel about the proposed requirements for the project. This meeting can take the form of a formal design charrette, or a simple meeting, whichever is preferred by WVARNG. We will focus on your likes and dislikes – what's working and what isn't. This will give us a solid foundation for the design work as we move forward.

During this visit, GRW will utilize our lidar camera system to capture a precise as-built digital model of the existing facility

We will then compare the digital model captured by the lidar camera with any existing as-built drawings, and investigate any conflicts.

Project Area Survey - Utilities

GRW will complete a utility survey of the site if/as required to complete the work of this project. Based on the outcome of this utility survey, we will collaborate with WVARNG staff to determine the initial alignment of any new utilities.

Having worked on previous utility projects at Camp Dawson, we are aware of the somewhat undocumented nature of the utility systems at the base, and if needed we will use a utility location subconsultant to assist with the utility survey.

GRW will provide a PDF file to WVARNG upon completion of any survey activities.

35% Design

Using the information from the Kickoff Meeting and analysis of existing conditions, we continue through

the 35% design phase and present the **schematic design** concept to you through the use of drawings, product information sheets, written narratives and an initial cost estimate. After your review of the material, we will meet together to go over the design review comments, review the budget, and document any desired revisions. We will repeat this process as needed to reach an acceptable solution that meets your goals and budget.

We will also discuss with you potential construction phasing opportunities, if/as needed. We will document each step of the process with thorough meeting minutes.

Geotechnical Services

During the 35% design process, we will determine whether or not geotechnical services are needed to complete the design work. If so required, we will retain a geotechnical firm to complete the necessary geotechnical investigations. The results of any geotechnical investigations will be included in the 65% Design Submittal.

65%, 95%, & 100% Design

Using the approved **schematic design** documents, the design team will proceed with **65% design development** documents which will be issued for Owner/User review and approval before proceeding to **95% pre-final construction documents** and then finally to completion of **100% final construction documents** for bidding.

The **estimate of probable cost** is updated at each design review submittal to check the estimate against the drawings and specs, to make sure the work remains within budget. We will also reconfirm final decisions on materials, equipment, and finishes.

If needed, we will incorporate a phasing plan into the final documents to minimize the impact of construction on the facility's day-to-day operations.

The **final construction documents** will consist of bid-ready drawings, specifications, and instructions to bidders.

Bid Services & Construction Phase

The same Project Manager you worked with throughout design continues as your point of contact through the entire bidding and construction process. Also, the original designers are the team we use to review shop drawings, attend meetings and observe the work in progress. This provides a continuity that benefits the project, and is an integral part of our quality control process.

GRW manages and tracks our construction administration and resident inspection responsibilities using **Newforma®** Project Center (project information management software); this ensures that the process is transparent to all parties. Newforma has built-in modules specifically developed for the A/E industry. **Using this system, Owners, Design Team, and Contractor/GC all have access to real-time logs showing the current status of all construction-related activities.**

During project construction, GRW provides consultation and advice on construction matters including visits to the site to check work progress and quality and to evaluate general conformance with the contract documents.

In addition, we review equipment and materials related to the submittals. Once reviewed, copies of submittals, with comments, are distributed to the team members (Owner, Contractor, etc.) for appropriate action. A comprehensive submittal file is maintained in the Newforma software.

Our team members review and recommend progress payments to the construction contractor based on observation of the work in-place. Project costs automatically update for tracking of project budgets.

Our team performs semifinal inspections of the project and creates a list of work yet to complete prior to the final technical inspection. Upon completion, we will provide a set of record drawings based on mark-ups from the contractor, to show field changes made during construction. These drawings are reviewed by the Project Manager and serve as the record drawings for the project and are suitable for facility management.



GRW and its subsidiary Chapman Technical Group (offices in St. Albans and Buckhannon, WV) have extensive experience in developing projects through the WV Purchasing Division. For many years, we have designed, bid, and constructed numerous, major Division of Natural Resources projects throughout the state. The West Virginia Division of Highways (DOH) recently began working with the State's Purchasing Division for building projects, and our \$10 million equipment shop building for District One was the first project that the DOH bid through the WV Purchasing Division. Our knowledge and experience of the State's purchasing procedures made this an easy transition for all stakeholders. Although every agency has its own particulars with regard to bidding projects, our experience with the West Virginia Purchasing Division will help ensure effective and efficient project delivery.

Management Approach

Our project planning and organizational approach to assuring completion of multiple tasks is based on the centralized development of uniform procedures. This approach assures consistency in the conduct of multiple activities. The elements of this project planning and organization approach include:

- Establishment of clear lines of project team responsibility and authority.
- Establishment of clear lines of project team communication.
- Development and dissemination of project-wide procedures for implementation at individual task levels.
- Development and dissemination of procedures for cost and schedule control.
- Establishment and implementation of a Total Quality Management program.
- Establishment of the project management and technical staffing requirements.

SECTION 5.0 | **Project Management &
Quality/Cost Control**

5.0 Quality/Cost Control

At GRW, cost control, scheduling and value engineering are daily components of our design process. Project planning decisions are assessed in weekly project meetings with all A/E disciplines to confirm budgets and schedules will be met. During these sessions, project status is discussed to direct adequate resources to meet the project schedule. The issues tracking list we create is reviewed to ensure problems are resolved before they impact the schedule or budget. Our vision as your full-service architectural and engineering design firm is to partner with you to simplify the design and construction process for the results you intend.

Quality Control

Aaron Nickerson, Project Manager, has primary responsibility for the daily management and coordination of the project team. With over 18 years of experience, he has a clear understanding of the most effective methods for maintaining the programming, planning, and design schedule.

COMMUNICATION: At GRW, our highest project-management priority is focused on maintaining clear and effective communication throughout the entire project. This focus includes our communication with you and your stakeholders, with the Contractor, and with our internal design team members. Key to this effort is our use of Newforma project information management software, which allows the storage, sharing, and retrieval of project information both internally and externally.

PROJECT MANAGER: Our process begins initially with the assignment of an experienced Project Manager who is responsible for organizing the design effort and who manages the Quality Control process. While a project design team may involve many different departments or groups, the Project Manager has the ultimate authority over the project at all times.

A key element in effective Quality Assurance/Quality Control (QA/QC) is the use of regularly scheduled progress meetings. A kickoff meeting between key members of GRW's proposed project team and your management and staff will be held to ensure a common understanding of the goals and objectives among all project partners. These issues will be reviewed, and the work plan will be discussed in detail. Regular meetings will then be scheduled

throughout the project to report on project progress and to review technical issues. These meetings provide a forum for discussing concerns and ideas. The assigned Project Manager is the primary conduit for communication between you and the design team.

TEAM MANAGEMENT: QA/QC is enhanced at GRW since most design disciplines are in-house. Because of this, scheduling internal team meetings or over-the-shoulder reviews is greatly simplified. On this project, the Project Manager will conduct weekly team meetings with the design team members to facilitate coordination of design issues. Any design problems are identified along with a path for their correct resolution. A checklist managed by the Project Manager is used to track the resolution of issues from meeting-to-meeting.

SCHEDULE MANAGEMENT: No QA/QC process can succeed without allocating sufficient time for internal review. The Project Manager will develop a proposed internal design schedule at the beginning of the project for appropriate time for internal review. These internal reviews typically occur prior to normal design submittal dates for the project.

QUALITY CONTROL REVIEWS: QC reviews at GRW includes desk-to-desk, task-to-task, and person-to-person crosschecking of work that takes place on a regular basis within the company. Impromptu meetings to discuss specific issues take place as often as needed. The peer review personnel are determined by the Project Manager at the beginning of the project, and remain consistent throughout the course of the project.

PROGRAMMATIC OVERSIGHT: The Project Manager is tasked with maintaining oversight of the

project as the design develops, to insure that the design decisions are in keeping with the programmatic criteria developed with you at the project's initiation. At each interim submittal, the Project Manager takes a step back, and looks at the project in broad terms to insure that the design is progressing in accordance with the original criteria.

Cost Control

PROJECT BUDGET ACCOUNTABILITY:

Government officials are accountable to the public for the expenditure of public monies. The GRW team understands this obligation and develops a project design that is cost-effective and delivers an efficient and appropriate use of funds assigned to the military. Rarely do projects have sufficient budget to accommodate everything on the programmatic *wish list*. Reconciling the program against the project budget is done early and often in order to guide the project to a successful

conclusion. GRW approaches this process in a pragmatic and open manner. This subject will be on the agenda of every project meeting we have with you for open and frank discussion so that everyone is kept abreast of any potential concerns. Prioritizing the program relative to the budget can be a difficult task, with different stakeholders sometimes at odds over how to resolve differences of opinion. GRW excels at guiding this process and helping you to resolve these differences.

GRW has a strong history of successful estimating of projects, and our design experts will draw upon this knowledge during the development of our construction cost estimates.

We can also develop a list of possible value-engineering for consideration to help manage construction costs and give you the most construction value for your dollar.



GRW provided design and construction phase services for the WV ANG's 130th Airlift Wing Building 107 Renovation.

With a construction budget of \$5M, the awarded bid was \$4,941,290, and the final construction cost was \$4,991,876 (within 1% of awarded bid).



SECTION 6.0 | References

6.0 References

GRW understands that professional consulting begins as a relationship built on trust. We fully understand the importance of gaining your respect,

proving our worth, and being there long after your successful project is completed. With repeat clients providing more than 90 percent of GRW's current workload, we believe this is a testament to our business philosophy of providing close, personal, high quality service. We invite you to contact our references to verify GRW's performance.

West Virginia Army National Guard

Jim Skaggs
(304) 561-6550
robert.a.skaggsii.nfg@army.mil

Jeffersontown Fire and EMS

LT COL Joey Lamb
Assistant Chief of Fire
(502) 267-7300 ext. 1102
jklumb@jeffersontownfire.com

KY Division of Engineering & Construction

Anne St-Aignan Muller
Statewide Project Manager
(502) 401-9839 (cell)
anne.muller@ky.gov

Louisville Metropolitan Sewer District

John Loechle
Engineering Technical Services Director
(502) 523-1218
john.loechle@louisvillemisd.org



SECTION 7.0 | **West Virginia EOI Forms**



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

**State of West Virginia
 Centralized Expression of Interest**

Proc Folder: 1491143			Reason for Modification:
Doc Description: Building 215 Administration Wing Renovation-Camp Dawson CEOI			
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2024-08-14	2024-08-28 13:30	CEOI 0603 ADJ2500000006	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code: 000000218570
Vendor Name : GRW Engineers, Inc.
Address : 801 Corporate Drive
Street :
City : Lexington
State : Kentucky **Country :** USA **Zip :** 40503
Principal Contact : Shane Lyle, AIA, LEED AP BD+C
Vendor Contact Phone: (859) 880-2439 **Extension:**

FOR INFORMATION CONTACT THE BUYER

David H Pauline
 304-558-0067
 david.h.pauline@wv.gov

Vendor
 Signature X

FEIN# 61-0665036

DATE 08/28/2024

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

ADDITIONAL INFORMATION

CEOI

The West Virginia Purchasing Division, for the agency, the West Virginia Army National Guard, Construction and Facilities Management Office, is soliciting Expressions of Interest from qualified firms to provide professional design services to develop construction documents to renovate the Administration Wing of Building 215, on the Camp Dawson garrison, at Camp Dawson, near Kingwood WV, per the attached documentation.

INVOICE TO	SHIP TO
ADJUTANT GENERALS OFFICE 1707 COONSKIN DR CHARLESTON WV 25311 US	CAMP DAWSON ARMY TRAINING SITE 240 ARMY RD KINGWOOD WV 26537-1077 US

Line	Comm Ln Desc	Qty	Unit Issue
1	Building 215 Administration Wing Renovation-Camp Dawson		

Comm Code	Manufacturer	Specification	Model #
81101508			

Extended Description:

Provide professional architectural and engineering design services per the attached documentation.

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
-------------	--------------	-------------------

	Document Phase	Document Description	Page
ADJ2500000006	Final	Building 215 Administration Wing Renovation-Camp Dawson CEOI	3

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

**ADDITIONAL TERMS AND CONDITIONS
(Architectural and Engineering Contracts Only)**

1. PLAN AND DRAWING DISTRIBUTION: All plans and drawings must be completed and available for distribution at least five business days prior to a scheduled pre-bid meeting for the construction or other work related to the plans and drawings.

2. PROJECT ADDENDA REQUIREMENTS: The Architect/Engineer and/or Agency shall be required to abide by the following schedule in issuing construction project addenda. The Architect/Engineer shall prepare any addendum materials for which it is responsible, and a list of all vendors that have obtained drawings and specifications for the project. The Architect/Engineer shall then send a copy of the addendum materials and the list of vendors to the State Agency for which the contract is issued to allow the Agency to make any necessary modifications. The addendum and list shall then be forwarded to the Purchasing Division buyer by the Agency. The Purchasing Division buyer shall send the addendum to all interested vendors and, if necessary, extend the bid opening date. Any addendum should be received by the Purchasing Division at least fourteen (14) days prior to the bid opening date.

3. PRE-BID MEETING RESPONSIBILITIES: The Architect/Engineer shall be available to attend any pre-bid meeting for the construction or other work resulting from the plans, drawings, or specifications prepared by the Architect/Engineer.

4. AIA DOCUMENTS: All construction contracts that will be completed in conjunction with architectural services procured under Chapter 5G of the West Virginia Code will be governed by the attached AIA documents, as amended by the Supplementary Conditions for the State of West Virginia, in addition to the terms and conditions contained herein. The terms and conditions of this document shall prevail over anything contained in the AIA Documents or the Supplementary Conditions.

5. GREEN BUILDINGS MINIMUM ENERGY STANDARDS: In accordance with West Virginia Code § 22-29-4, all new building construction projects of public agencies that have not entered the schematic design phase prior to July 1, 2012, or any building construction project receiving state grant funds and appropriations, including public schools, that have not entered the schematic design phase prior to July 1, 2012, shall be designed and constructed complying with the ICC International Energy Conservation Code, adopted by the State Fire Commission, and the ANSI/ASHRAE/IESNA Standard 90.1-2007: Provided, That if any construction project has a commitment of federal funds to pay for a portion of such project, this provision shall only apply to the extent such standards are consistent with the federal standards.

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

(Printed Name and Title) _____

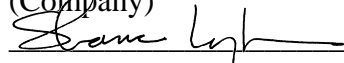
(Address) _____

(Phone Number) / (Fax Number) _____

(email address) _____

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

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

(Company)


(Signature of Authorized Representative)

(Printed Name and Title of Authorized Representative) (Date)

(Phone Number) (Fax Number)

(Email Address)