

February 3, 2012

Attention: Ms. Tara Lyle  
State of West Virginia  
Department of Administration  
Purchasing Division  
2019 Washington Street, East  
Charleston, WV 25305-0130

RECEIVED

2012 FEB -6 AM 11:48

WV PURCHASING  
DIVISION

**RE: RFQ Number DEFK12012, Expression of Interest, Architecture/Engineering Services  
Camp Dawson Mail Processing and ID Card Issue Center**

Dear Members of the Selection Committee:

The GRW/AMEC team thanks you for giving us the opportunity to submit our qualifications for this project.

Our Project Team has recently provided design services for mail facilities and ID card issue facilities for the Army National Guard and we are very familiar with the current standards and requirements for such facilities. Our Project Team also has an excellent relationship with the Facility Engineering staff at Camp Dawson as a result of on-going projects at the installation. These factors will be a benefit to the West Virginia ARNG if we are selected for this assignment.

The following summarizes this Expression of Interest (EOI) for this project:

### **Experience with Similar Projects**

This EOI includes several project descriptions that describe our experience with National Guard design assignments in West Virginia and elsewhere in the country. Among these projects, there are four that have direct relevance to the proposed project at Camp Dawson:

- **Mail Processing Facility in Wing Headquarters Addition, KY ANG, Louisville, KY –**  
For the design of the 54,300 SF expansion of the Wing HQ to house a Contingency Response Group, GRW designed a mail processing facility to replace the base's non-compliant facility. The new facility was designed in accordance with DoD Postal Manual 4525.6-M, and originally was to be the installation's main mail center. It included primary and secondary screening areas, x-ray inspection and mail storage in a space that is structurally isolated from the main structure and has its own separate HVAC system. The x-ray screening was later eliminated from the project. Administrative areas (offices, break room, restrooms/locker room) are located in separate spaces jointly used by other CRG unit members in order to optimize construction costs.
- **ID Card Processing and Mail Room in Armed Forces Reserve Center, Bluegrass Army Depot, Richmond, KY –** This new KY ARNG facility is a BRAC project that replaced three smaller ARNG Armories and one former Army Reserve Center. Located near the main entrance to this active Army installation, it is the nearest military facility that guardsmen, reservists, retirees and federal employees can go to for ID cards. The

lobby area of this facility provides a waiting area and a nearby RAPIDS office (150 SF) includes a workstation equipped with photography equipment for ID card processing by a full-time guardsman. The mail room receives incoming mail that has already been screened by the Depot's postal center, and is equipped with secondary mail processing equipment and furnishings, and corridor-accessible secure mail boxes for ARNG and USAR staff. This room has its own HVAC system and exterior access. Rest rooms and other amenities are provided next to the lobby for visitors and staff.

- **ID Card Processing in Security Forces Facility, West Virginia ANG, Charleston, WV**  
For a current assignment to expand the existing SFS facility (B142) at this base, GRW is designing a modern ID card processing area that will be housed in this building that is located near the main gate to the base. The SFS staff will be able to provide one-stop ID card processing for guardsmen, retirees and other servicemen at a designated workstation located in the new lobby of this building. Visitor badges and vehicle passes will also be issued in this facility.
- **ID Card Processing Center and Mail Room in Armed Forces Reserve Center, Paducah, KY** – This new KY ARNG facility replaced two ARNG Armories and a small USAR Reserve Center and is located next to a municipal airport on state-owned property. The ID Card Processing Center in this facility is the only location within more than 100 miles that is available for guardsman and reservists to obtain ID cards. In addition to the normal space authorized as a RAPIDS Office (150 SF) there are spaces provided for a second photography workstation and files in the event that this facility is used as a deployment processing center. The mail room is designed as a structurally isolated space with a separate exterior access and its own dedicated HVAC system.

### Experienced Project Team

GRW has been providing AE services to the National Guard for more than 30 years, and the individual team members selected for this assignment have been working together for more than 5 years. Our team will perform under the supervision of Mr. Shane Lyle, AIA, Vice President, who is in charge of GRW's Architecture Division, and will include architectural and engineering staff who are currently providing design services at Camp Dawson.

### Capacity

With more than 220 employees, including a military design staff of more than 40 architects, structural, civil, mechanical and electrical engineers, GRW has the capacity to accomplish the workload anticipated for this assignment within the project schedule.

### Knowledge of Local Conditions

Our Project Team is currently completing other design assignments at Camp Dawson and we are very familiar with the installation and its infrastructure.

Augmenting GRW's knowledge and expertise, as described above, will be AMEC. Selected to provide site/civil, AT/FP and geotechnical engineering services, AMEC also has extensive knowledge of local conditions, having completed several projects at Camp Dawson.



Within the last two years, AMEC has been involved in the projects described below:

- Three were geotechnical studies conducted for proposed MILCON, including the Joint Interagency Training Center (JITC), and the Multipurpose Building (2 sites). Civil engineering site design was also provided by AMEC as part of the Multi-purpose Building.
- A fourth study was performed to evaluate a slope failure on the South Gate Road, and to design remedial measures to repair the slope and road.
- The fifth study was a hydrogeologic evaluation in which geologic, geotechnical and groundwater data were obtained so that groundwater modeling could be conducted, with the objective of managing ground water at construction sites. Surveying was conducted as necessary to support the design and modeling work.

### LEED Accredited Professionals

We are aware of the National Guard's requirement to provide facilities that include sustainable design and construction measures, especially the need for energy-efficient buildings. GRW has LEED accredited professions in all design disciplines who have assisted our NGB clients in attaining LEED certification and Silver ratings for their facilities.



We are exceptionally familiar with ARNG facility requirements and design guidelines. Our comprehensive library of applicable NGB and UFC publications, as well as our experienced staff, help ensure compliance with all current criteria. **The foundation of our design process is collaboration through clear and open lines of communication**, with the result being the elimination of unpleasant surprises and unexpected outcomes. GRW's commitment to you is a functional, cost-effective and energy-efficient facility, delivered on time and within budget.

We look forward to the next step in the selection process for this project. Please contact me if you have any questions regarding this EOI.

Sincerely,

A handwritten signature in dark ink that reads "Ron D. Gilkerson".

Ron Gilkerson, PE, President  
Email: rgilkerson@grwinc.com

## Expression of Interest

### Architecture and Engineering Services Camp Dawson Mail and ID Center

### West Virginia Army National Guard RFQ DEFK12012

#### Table of Contents

Section 1.0	Introduction to the GRW/AMEC Team
Section 2.0	Approach
Section 3.0	Experience with Similar Projects
Section 4.0	Project Team and Resumes
Section 5.0	Past Performance
Section 6.0	Proposal Forms



## 1.0 Introduction to the GRW/AMEC Team



Founded in 1965, GRW is a full service engineering, architecture and planning firm providing services to federal, state, municipal and private industry clients. With a staff of more than 220 professionals, GRW offers comprehensive technical expertise for all types of infrastructure design

from concept design through construction administration and inspection. GRW has nine office locations located in Kentucky, Indiana, Ohio, Tennessee and Texas.

Our vast project experience includes facility renovations and expansions, as well as new multi-million dollar facility construction for federal, local and state governments, and commercial markets.

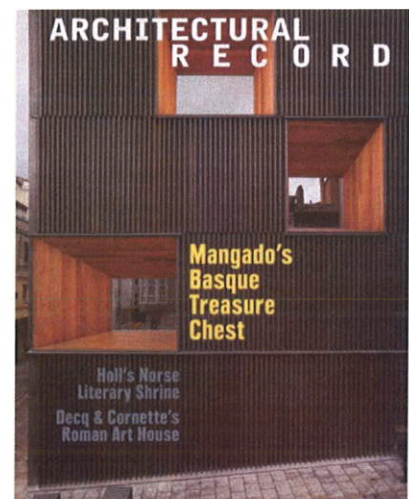
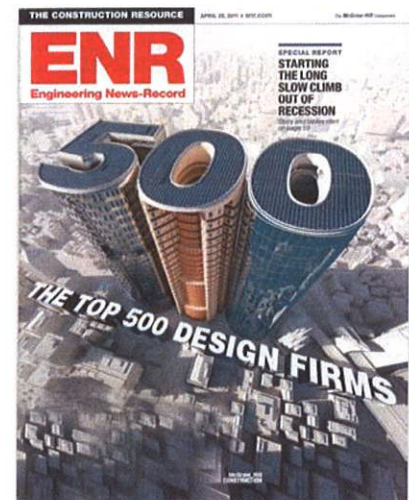
Using the principles of sustainable design, our architects and engineers improve the functionality, operating efficiency, aesthetics and long-term value of our clients' building projects. We have 13 LEED Accredited Professionals in key disciplines (architecture, electrical, mechanical, structural, sanitary and civil), and we have designed or are in the process of designing more than 1,800,000 SF of LEED registered projects.

GRW's dedication to service has resulted in repeat clients providing 90 percent of our current workload. The quality of our work is further demonstrated in the numerous awards our projects have won, both on national and state levels. Our projects have received awards from the American Institute of Architects, the American Council of Engineering Companies, the U.S. Air Force, the U.S. Army Corps of Engineers, and the U.S. Environmental Protection Agency. Also included are several national rankings.

- *Architectural Record* Top 250 Architecture Firms in the U.S.
- *Building Design and Construction's* Giants 300 report, GRW is 35<sup>th</sup> on the magazine's list of Top Engineer-Architect Firms
- *Public Works* a Top AEC Firm serving the government market.
- Top 100 Giants for Mechanical/ Electrical Engineering Consultants in *Consulting-Specifying Engineer*
- *Engineering News Record's* Top 500 Design Firms in the U.S., a ranking earned since 1972. GRW also is ranked in ENR as a Top 100 Green Design Firm and a Top 200 Environmental Firm

While our firm's history includes numerous awards and rankings, what keeps us on top is our quality of service. This means hiring and retaining the most talented minds and experienced problem-solvers, equipping them with the tools and resources they need to get the job done, and measuring our success by how well we exceed expectations.

**GRW's dedication to service has resulted in repeat clients providing 90 percent of our current workload**





## GRW Services

- Water, Wastewater and Stormwater System Engineering
- Civil/Site Engineering
- Transportation Engineering
- Structural Engineering
- Mechanical Engineering
- Electrical Engineering
- Architecture
- Master Planning
- Anti-Terrorist Force Protection and Physical Security
- Construction Administration and Resident Project Representation (Inspection)
- Operations & Management Support
- Cost Estimating
- Sustainable (Green) Design
- Geographic Information Services
- Aerial Mapping and Surveying
- AutoCAD, Microstation, and BIM Deliverables

GRW's corporate culture is one of close collaboration among our multidisciplinary project teams, combined with strong management leadership. Regardless of size or complexity, GRW is able to drive aggressive project schedules while keeping projects on budget and facilitating clear and open lines of communication. We are dedicated to delivering a solid return on your infrastructure investment.

## Team Sub-consultant

Teaming with GRW for the provision of services related to site/civil, utilities and AT/FP measures will be AMEC, one of the world's leading engineering, project management and consultancy companies. The firm delivers profitable, safe and sustainable projects and services for our customers in a wide range of markets. For the government sector, AMEC offers expertise from master planning, through to environmental analysis and permitting, engineering and design, construction, and well into operation. AMEC earned the US Army's highest honor in environmental stewardship and were presented with a Technology Merit Award from the Environmental Business Journal for the advancement of 'soil washing' as a range-remediation technique.



AMEC prides itself on having the highest of reputations and maintains long-term relationships with customers through quality work, as evidenced by our 25-year relationship with the Federal Government. AMEC also has an established track record of completing projects safely, on time and on budget.

## Environmental Services

- Environmental planning
- Natural and cultural resources management
- Environmental compliance
- Environmental restoration and remediation

## Construction and Operation

- Infrastructure construction
- Infrastructure operations maintenance

## Title I/II Design and Management Services

- Civil engineering and design
- Electrical and mechanical design
- Geotechnical engineering and design
- Construction management
- Program management

## Other Services

- Range management and sustainment
- Geographic Information Systems (GIS)



## 2.0 Approach

We recognize that each project has its own unique aspects and requirements, and we will adapt our approach to fit your requirements, schedule and needs. Ultimately, the design for this Mail Processing and ID Card Issue Facility will satisfy your programmatic, budget, and operational requirements, and will be both functional and aesthetically pleasing.

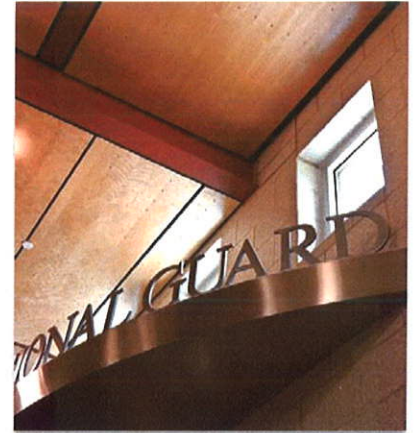
After we are selected for this assignment and before we submit our fee proposal for the required services, GRW will request a **Criteria Review Conference** to clarify key technical, deliverable and scheduling issues. The CRC will be held at Camp Dawson with Facility Engineering, Users and other key stakeholders to ensure that the scope of work and project schedule are well understood, and to ensure that our fee proposal is based on the requirements and expectations of the WV ARNG.

Following the successful negotiation of our contract for the required services, GRW will provide Type A and Type B architectural and engineering services as described in Chapter 11 of NG Pam 415-5, and as amended by specific State of West Virginia professional architectural and engineering design contractual requirements. For example, these services will include the following phases:

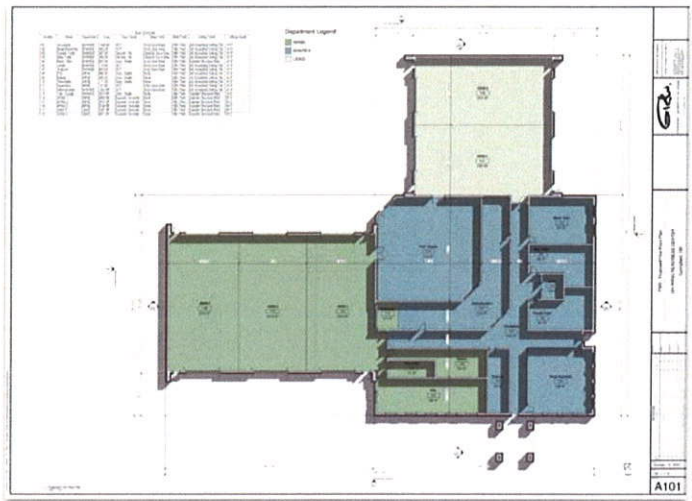
- **Type A – Program Planning Document Charrette – 15%**
- **Type A - Concept Design – 35%**
- **Type B – Preliminary Design – 65%**
- **Type B – Pre-Final Design – 95%**
- **Type B – Final Design -100%**
- **Type C – Construction Administration**

At the onset of Type A services, GRW will move forward with scheduling and conducting a **Program Planning Document Charrette (PPDC)** with your PM and the facility users. This Charrette will include an analysis of the project site (including a topographic survey, a preliminary geotechnical study, an environmental review, a description of site hydrology and natural conditions, information related to utility services and a legal property description), a discussion of facility requirements (space allowances per NG Pam 415-12 and other applicable design guides, functional requirements, adjacencies and spatial organization), a list of exceptions to criteria and a validation of the DD Form 1390/1391 project data (assigned personnel, space criteria) and a validation of the construction cost estimate.

Subsequent meetings will be held to confirm the detailed requirements for architectural finishes, electrical requirements, HVAC, communications, equipment and other elements of all spaces within the facility. We will use this information to prepare a Basis of Design that will be used in calculating



*All photos in this section illustrate GRW's accomplishments for the Ohio ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop in Springfield, OH. Read more about the project in Section 3.0, page 13.*







power, lighting, HVAC, fire protection and other services for the buildings. This information will also be used to confirm the final floor plan and finish schedule for the various spaces and functional areas in each building.

Through the course of the design, we will work with you to identify ways of saving O&M costs and reducing energy needs. We will also work to identify possible alternative construction materials. Some of these recommendations may reduce construction cost, reduce utility costs, or both. These recommendations will be provided for your consideration and, if accepted, incorporated into the design. The final construction documents will include Bid Options that will allow the opportunity to select items that enhance the facility while still staying within the Maximum Construction Cost approved for this project.

The design procedures we will follow are the same as those described in Chapter 11 of NG Pam 415-5, unless otherwise directed. These procedures will include the development of a **Conceptual Design**, which we will summarize and deliver in a **Concept Design Report**. This report generally represents 35% of the total design effort and serves as a bridge between the PPDC Report and the development of the construction documents.



The next step will be to incorporate the review comments from the Concept Design into a **Preliminary Design** submittal that represents approximately the 65% design completion of the construction documents. This submittal will include site and floor plans, building elevations, a room finish schedule, and descriptive information on the utility systems, HVAC and lighting systems, and other special systems. This submittal will also include preliminary technical specifications (CSI Divisions 2-16), general requirements (Division 1), an updated construction cost estimate, and supplemental design data and information, such as narrative descriptions of the building elements, engineering calculations and code analyses.

As the work progresses, an interim **95% Pre-Final Design** submittal will be provided for your review and approval. A **100% Final Design** submittal will be presented to include the resolution of review comments from the previous submittals, final plans and specifications, cost estimate, and supporting data as described in paragraph 11-3 of NG Pam 415-5.





Ohio ARNG Joint Armed Forces Reserve Center  
in Springfield, OH (see also page 13)

Following review and approval of the **Final Design** submittal, we will prepare a **final approved** set of plans, specifications and bidding documents for advertisement for bids, per paragraph 11-4 of NG Pam 415-5.

**QA/QC will be a continual process through the course of Type A and Type B services.** GRW's senior team leadership will conduct QA reviews for each milestone submittal prior to delivery to WV ARNG. Additionally,

AMEC will perform an **Independent Technical Review (ITR)** of the final deliverable, serving as an additional QA/QC crosscheck, with the ultimate goal being the minimization or elimination of construction change orders.

Copies of each design submittal will be furnished as hard copies and CDs, in the number needed for each agency to review. The project schedule will include time for reviews by each agency.

Since we assume this project will be advertised for bids through the state's Purchasing Division, the required bidding information will be prepared using the state's forms and contract documents. We are familiar with these documents from previous WV ARNG projects. Plan sets can be supplied to plan rooms and other locations where potential bidders and vendors can review them.

GRW will provide assistance during advertising and bidding of the project by answering RFIs, preparing Addenda, and attending the pre-bid site visit and bid opening. If requested, GRW will assist in evaluating the bids and will provide a tabulation of all bids.

As the project moves into construction, GRW will provide **construction administration services** in accordance with your requirements. These services will include, at minimum, regular visits to the site, review of shop drawing submittals, review of contractor's pay applications, and response to contractor RFIs. If desired, GRW will work with you to identify and retain the services of a local individual to provide resident inspection services.

These design procedures are not set in stone, as GRW prides itself on being a strong project manager driven organization without a lot of bureaucratic procedures that stifle creative people. We will work with you to make sure our design services meet the requirements of the WV National Guard and the State of West Virginia. At all times we will remain flexible to accommodate your needs. The bottom line is that GRW cares a great deal about your repeat business, and your satisfaction is therefore our paramount concern.



Shown above is a main entrance for the Ohio ARNG Joint  
Armed Forces Reserve Center in Springfield, OH.  
A project profile can be found in Section 3.0, page 13.



### 3.0 Experience with Similar Projects

The following pages include descriptions of selected projects that have relevance to the proposed Camp Dawson Mail and ID Center.

#### West Virginia ANG 130th Airlift Wing Security Forces Squadron Facility Renovation and Expansion

GRW was retained to provide complete architectural and engineering Type A, B and C services for the \$2 million renovation of the existing 5,395 SF (501 SM) Security Forces Squadron facility (B142) and the addition of 2,500 SF (232 SM) of new administrative space to this facility. The existing facility lacks the authorized space for this 101-member unit and is poorly configured for efficient operation and training.

GRW is designing a **modern ID card processing area** that will be housed in this building that is located near the main gate to the base. The SFS staff will be able to provide one-stop ID card processing for guardsmen, retirees and other service members at a designated workstation located in the new lobby of this building. Visitor badges and vehicle passes will also be issued in this facility.

The intent of this project is a renovated and expanded SFS facility which provides increased space for command and administrative functions, with spaces arranged for more effective mission performance and operational efficiency, and with mechanical, electrical and other facility support systems that are energy efficient, code compliant and in accordance with current ANG policies. **This project will meet LEED Silver measures for sustainable design.**

The existing facility will be re-configured to primarily provide command/administrative space with the relocation of the existing SFS support/storage functions to a renovated former maintenance hangar (B107) in the near future.

The addition to B142 will be for command/administrative space. The renovated and expanded facility will provide a total of 7,895 SF (733 SM) of command/administrative space, except for a small area to house cabinets for storage of equipment used during Unit Training Assemblies (UTAs) and a canopy-covered area used for the storage of the unit's utility vehicles.

Working closely with the Design Working Group (DWG) for this project, GRW has completed Type A-2 AE services, which included development of the basis of design for the facility, field investigations (topographical site survey, geotechnical investigations, geothermal test well study and a fire hydrant flow test), and the structural, mechanical and electrical system calculations for the new facility. **AT/FP, Sustainable Design** and ADAAG requirements were addressed. The next step will be the development of design documents (plans and specifications) in order to award this project for construction in FY12.

**Client Contact:** Lt. Col. John W. Dulin, Base Civil Engineer, West Virginia Air National Guard, 130th Airlift Wing, Charleston, WV; (304) 341-6270; john.dulin@ang.af.mil

**"From the Communications Building to the Master Plan, GRW has shown many of the traits that we look for in an A/E Firm. They have offered us outstanding solutions. They have shown their commitment to our unit by always going above and beyond; I know that I am extremely proud to have had them on our projects."**

*Comment from Lt. Col John Dulin 130th AW/CES*



## Kentucky ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop

GRW provided mechanical, electrical, fire protection and civil engineering design services as part of a Design-Build team for this \$14.7 million BRAC project. This project was managed by the Commonwealth of Kentucky Finance and Administration Cabinet on behalf of the Kentucky Army National Guard. This complex, which meets the **LEED Silver sustainable design** rating, is located in Paducah, KY, and serves units from the KY ARNG and U.S. Army Reserves. This facility replaced two ARNG Armories and a small USAR Reserve Center and is located next to a municipal airport on state-owned property.

The **ID Card Processing Center** in this facility is the only location within more than 100 miles that is available for guardsman and reservists to obtain ID cards. In addition to the normal space authorized as a RAPIDS Office (150 SF) there are spaces provided for a second photography workstation and files in the event that this facility is used as a deployment processing center. The **mailroom** is designed as a structurally isolated space with a separate exterior access and its own dedicated HVAC system.

The AFRC is a 66,035 SF facility. It includes administrative areas, educational spaces, operating and support spaces, an assembly hall and multiple storage spaces, including an arms vault.

The FMS is a 13,917 SF facility. It also includes administrative, educational, operating, support and storage spaces, as well as six vehicle work bays.

Several features of the overall AFRC/FMS complex include **site AT/FP measures, security lighting, utilities and landscaping; site lighting** (meets Dark Skies Initiatives), **occupancy sensor controlled interior lights, military and POV parking.**

**Client Contact:** LTC Steve King, CFMO, Kentucky Army National Guard, Boone National Guard Center, Frankfort, KY; (502) 607-1874; [steven.t.king@us.army.mil](mailto:steven.t.king@us.army.mil)

**First Place Award for Public Sector Projects over \$15 Million - Design-Build Institute of America, Ohio Valley Chapter**

**Design-Build Excellence Award - Design-Build Institute of America, Ohio Valley Chapter**





## Kentucky ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Bluegrass Army Depot

GRW served as the “Design Criteria Consultant” to the KY ARNG for the design-build of a new \$19.2 million Armed Forces Reserve Center (AFRC) and Field Maintenance Shop (FMS). This complex is designed to meet the **LEED Silver sustainable design** rating. The services provided by GRW included RFQ and RFP development, assistance in short-listing and final selection of the design-build team, construction administration and commissioning of the new facilities. These facilities serve units from the KY ARNG and US Army Reserves. This new KY ARNG facility is a BRAC project that replaced three smaller ARNG Armories and one former Army Reserve Center.

Located near the main entrance to this active Army installation, it is the nearest military facility that guardsmen, reservists, retirees and federal employees can go to for ID cards. The lobby area of this facility provides a waiting area and a nearby RAPIDS office (150 SF) includes a workstation equipped with photography equipment for **ID card processing** by a full-time guardsman. The **mailroom** receives incoming mail that has already been screened by the Depot’s postal center, and is equipped with secondary mail processing equipment and furnishings, and corridor-accessible secure mail boxes for ARNG and USAR staff. This room has its own HVAC system and exterior access. Rest rooms and other amenities are provided next to the lobby for visitors and staff.

The AFRC is a 63,250 SF facility. It includes administrative areas, educational spaces, operating and support spaces, an assembly hall and multiple storage spaces, including an arms vault.

The FMS is a 31,725 SF facility. It also includes administrative, educational, operating, support and storage spaces, as well as 12 vehicle work bays.

Two unheated storage facilities (4800 SF and 2600 SF) are also included.

Among the features of the overall AFRC/FMS complex are: **site AT/FP measures, security lighting, utilities and landscaping; military and POV parking**; flammable material storage and controlled waste facilities, energy management and control system; and mass notification system.

**Client Contact:** LTC Steve King, CFMO, Kentucky Army National Guard, Boone National Guard Center, Frankfort, KY; (502) 607-1874; [steven.t.king@us.army.mil](mailto:steven.t.king@us.army.mil)



"... you have provided us with outstanding service whenever we have called on you to respond to our needs. Your architects, engineers and other staff members are to be commended for their high level of expertise and professionalism. I will be pleased to recommend your firm to other states that are in the need of a design team for ARNG facilities."

-- Comment from LTC Brian S. Demers, AIA, USP&FO for Kentucky



## Kentucky ANG 123rd Airlift Wing Contingency Response Group Facility

GRW is designing a 54,400 SF addition and 3,000 SF of modifications to the Wing Headquarters Building to house personnel and equipment for the 123rd Airlift Wing Contingency Response Group (CRG) at Standiford Field in Louisville, KY.



GRW's design includes a **mail processing facility** to replace the base's noncompliant facility. The new facility was designed in accordance with DoD Postal Manual 4525.6-M, and originally was to be the installation's main mail center. It included primary and secondary screening areas, x-ray inspection and mail storage in a space that is structurally isolated from the main structure and has its own separate HVAC system. The x-ray screening was later eliminated from the project. Administrative areas (offices, break room, restrooms/locker room) are located in separate spaces jointly used by other CRG unit members **to optimize construction costs**.

This facility will include applicable **AT/FP measures**, and will be designed to adhere to the base's architectural, fire protection and communications standards.

The 123rd AW is the second Air National Guard unit of its kind in the nation to receive the CRG mission. The CRG is an "airbase in a box" and can mobilize to provide everything necessary to open a runway, load and unload aircraft, provide security, housing and all the necessities to run an airfield in the event of a natural disaster in the US or a deployment to a combat theater.

GRW led a Charrette to review the facility requirements with all user groups and other key stakeholders. A Concept Proposal Report and a Concept Development Report were prepared following the Charrette. Final Design is being completed by GRW in the next phase of the project. The selected alternative is a masonry and standing seam roof addition which includes approximately 24,600 SF of administrative, food service and training space, a 24,500 SF storage area for 200 tons of mobility equipment and a 2,300 SF dining facility addition. The facility is being designed to meet **USGBC LEED Silver design criteria**, EPA 2005 energy efficiency standards and EO 13423.

A critical feature of the design involved phasing the construction in order to minimize disruptions of on-going functions in the Wing HQ Building; provide flexibility for the relocation of CRG personnel and equipment from existing facilities; and match construction funds which were appropriated in two separate fiscal years.

**Client Contact:** Lt Col Phillip Howard, Base Civil Engineer, Kentucky Air National Guard, 123rd Airlift Wing, Louisville, KY; (502) 413-4461; Phillip.Howard@ang.af.mil

"Thank you for all the support on our most recent projects: the Installation Development Plan and the Contingency Response Group Facility. Your staff and subconsultants continue to go the extra mile providing collaborative thought during decision making periods, expertise and guidance, and accurate drawings and documents. GRW has exceeded our expectations in producing high quality, on-time and cost-effective products."

-- Comment from Lt Col Phillip R. Howard, Base Civil Engineer, KY ANG



## Texas ANG 136th Airlift Wing Security Forces Squadron Facility

GRW provided architectural and engineering services for a \$4.5 million 17,400 SF, 2-story addition to the base's Wing Headquarters Building to house personnel and equipment for the unit's Security Forces Squadron (SFS). These services were completed to develop the conceptual design and bridging documents for this Design/Build project at NAS JRB Fort Worth (Carswell Field).



This facility includes command, control and administrative office spaces, a weapons simulator, an arms vault, classrooms, weapons and equipment storage and maintenance areas, locker rooms and restrooms, a fitness room, mobility equipment storage and utility vehicle storage.

GRW completed an initial programming Charrette, a Concept Proposal Report and a Concept Development Report to prepare the Bridging Documents for the Design/Build RFP. Topographic surveys, geotechnical investigations and geothermal tests were completed to develop a site-specific RFP. New **utility systems** (electrical, natural gas, water, sanitary sewer, storm sewer, communications) were provided **with connection to base's DDC system to monitor and control energy utilization.**

The facility was designed to meet the **USGBC LEED Silver sustainable design criteria** and EPA 2005 energy efficiency standards. This facility includes applicable Anti-terrorism/Force Protection measures, and was designed to adhere to the base's architectural, fire protection and communications standards. GRW is providing construction administration services as the new facility is being built. Services include attendance at progress meetings, shop drawing reviews, periodic construction progress inspections, TAB and Commissioning witnessing and punch-list inspections.

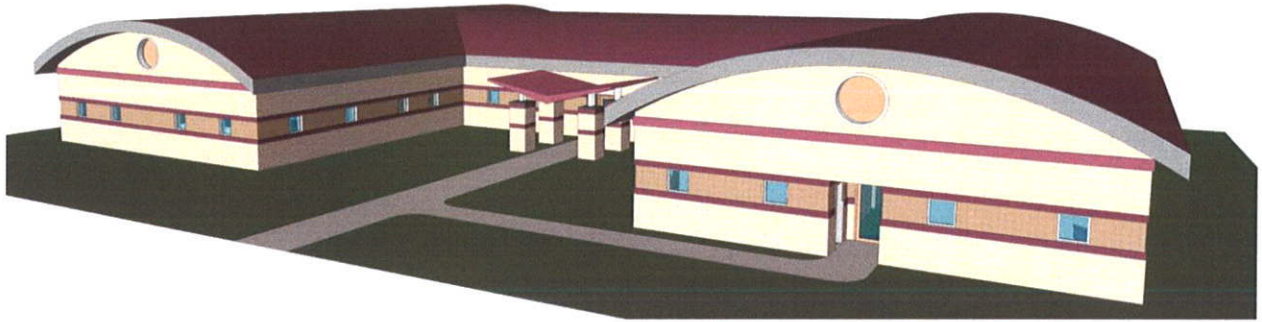
**Client Contact:** Major Kevin McKinney, Base Civil Engineer, Texas Air National Guard, 136th Airlift Wing, NAS JRB, Fort Worth, TX; (817) 852-3395; kevin.mckinney@ang.af.mil

"It is with great pleasure that I recommend GRW. Their technical experience and professionalism have provided superior design documents, exceeding my expectations. The Design/Build Bridging Documents that GRW developed for the construction of a LEED Certified Silver Air Force Security Forces Training Facility is one of the best that I have ever seen. The level of detail and thoroughness of the documents allowed me to successfully award within the program budget and schedule."

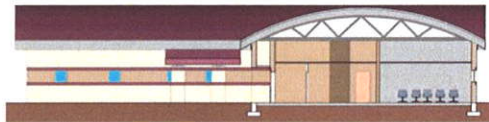
-- Major Kevin A. McKinney, Base Civil Engineer, 136th AW



## West Virginia ANG 130th Airlift Wing Communications Facility



GRW provided Type A and Type B design services for a new \$3.6 million Communications Facility at Yeager Airport in Charleston, WV. The initial program included an 8,000 SF Joint Operations Center (JOC) for use by the WV ANG and ARNG during emergencies; however, the JOC was later eliminated from the project.



This 13,100 SF (1,217 SM) LEED Silver facility was designed to provide a centrally located common user communications system for both intra-base and off-base communications.

The design of this facility also included **AT/FP measures**, fire detection and alarm, ADA compliance, **landscaping**, **utilities** (water, sewer, gas, electric, etc),

special hazardous materials storage spaces, **parking areas** and **exterior signage** and **lighting**. The design was stopped at 65% complete at the convenience of the government due to the need to update the base's master plan and re-prioritize new capital improvements.

This building includes space for:

- Telephone Exchange 1 (Base PBX Switching Gear)
- Defense Switched Network (DSN) Equipment
- Maintenance Functions
- Administrative Functions
- Audio/Visual Function
- Audio/Visual Library
- Graphic Arts Facility

**Client Contact:** Lt. Col. John W. Dulin, Base Civil Engineer, West Virginia Air National Guard, 130th Airlift Wing, Charleston, WV; (304) 341-6270; john.dulin@ang.af.mil

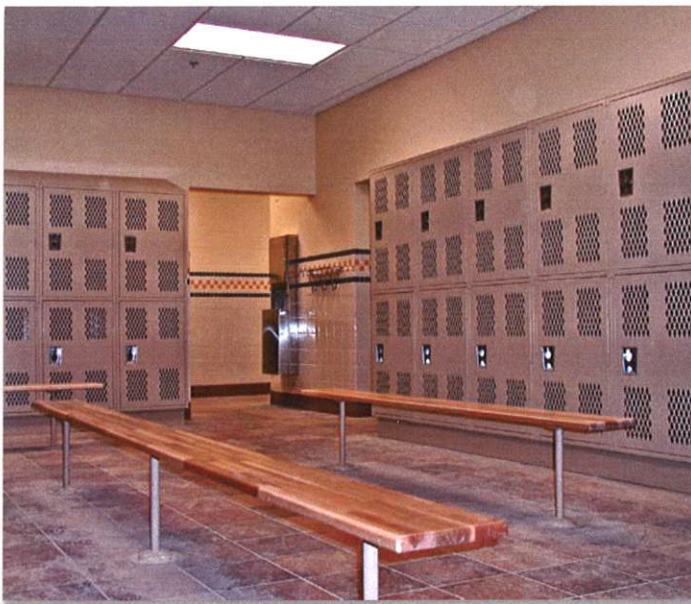


## Indiana ANG 122nd Fighter Wing Security Forces Operations and Training Facility

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 Operations and Training Facility is connected to a base-wide Energy Management Control System. 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 Project Book and concurrently completed a Type A1 Conceptual Design submittal. A preliminary construction cost estimate was also prepared. **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.**

The design-build Bridging Documents were prepared so that the actual construction cost (Base Amount plus Additive Bid Items), will not exceed the

MCC. The construction cost estimate separately identified the Base Bid Amount and each ABI. Each ABI was described on the drawings and listed in priority order so that they could be added to the project if the total cost remained within the MCC.

**Client Contact:** Lt Col James Starnes, Base Civil Engineer, Indiana Air National Guard, 122nd Fighter Wing, Fort Wayne, IN 46809. Telephone: (260) 478-3252



## Ohio ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex

GRW provided full-discipline A/E services for planning, design and construction of a new \$14 million LEED Silver 85,865 SF Joint Armed Forces Reserve Center (AFRC) and Field Maintenance Shop (FMS) for the OH ARNG and the US Army Reserves in Springfield, Ohio. These facilities are designed to match the architecture of the facilities on an adjacent site occupied by the Ohio Air National Guard. Two unheated storage facilities are also included. Prior to design, the GRW Team completed a Project Planning Document Charrette (PPDC) for this project.

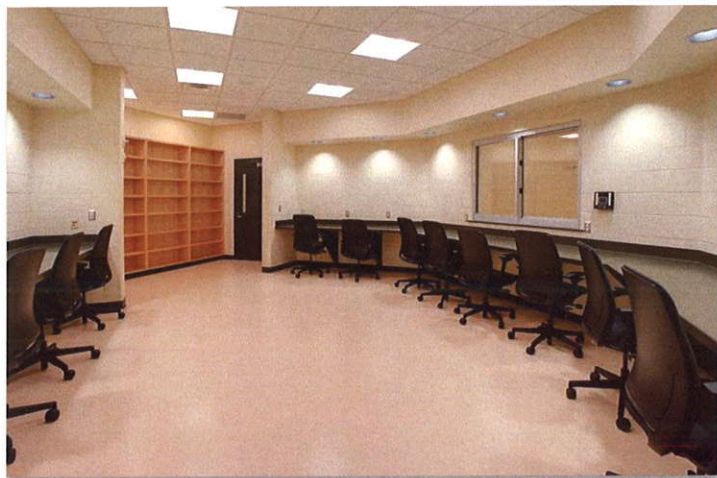
**Site AT/FP measures, security lighting, utilities and landscaping are included.**

The AFRC is a 60,902 SF facility. It includes the administrative areas, educational spaces, assembly hall and full kitchen; and storage areas, including an arms vault. The 24,963 SF FMS also includes administrative, educational and storage spaces, flammable material storage and controlled waste facilities, as well as 10 drive-through work bays.

Among the features of the overall AFRC/FMS complex are full cutoff luminaires for **site lighting**, occupancy sensor controlled interior lights, energy submetering, geothermal system for heating and cooling, and **military** and **POV parking**. Electrical design for the facility included a 1,000 amp, 480Y/277 volt main service entrance. An exterior, padmounted 750 KW generator with weatherproof sound enclosure is used for emergency power backup. The diesel unit has a base fuel tank and 1,000 amp automatic transfer switch.

**This project had a MCC of \$23 million. Using innovative design methods and alternative construction materials, GRW was able to optimize this project so that it was bid in September 2008 at \$14 million.**

**Client Contact:** George McCann, Project Manager, Ohio Army National Guard, Columbus, OH (614) 336-7413





## Indiana ARNG 76th Brigade Combat Team Readiness Center

GRW provided A/E design 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:

- Administrative areas: Private offices, administrative common spaces,
- Education spaces: Classrooms, COMSEC training, library and training center, distance learning, training aid storage area, audio/visual area
- Assembly hall with fully functional kitchen and chair and table storage
- Locker rooms, medical section room
- Storage areas: 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
- Flammable material storage and controlled waste facilities

This facility also includes the following features:

- **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, intrusion detection system, mass notification system
- Emergency power generator
- Stormwater bio-retention pond

**Client Contact:** COL (ret) Jack Noel, Indiana Army National Guard, 2002 South Holt Road, Indianapolis, IN 46241. Telephone: (317) 247-3106





## West Virginia ANG 130th Airlift Wing Squadron Operations Facility Repair

GRW is providing multi-discipline design and construction administration services for renovations and energy-efficient improvements to the 25,765 SF Squadron Operations Facility at the WV Air National Guard Base at Yeager Field, Charleston, WV (existing facility shown).

Constructed in 1977, this facility was built as a three-story, 18,265 SF building, and housed the Base Operations and Dining Area. In 1990, a two-story addition of 7,500 SF was constructed on the east end of the facility to increase space needed for airfield operations. The Dining Area was later relocated to another facility and its space was renovated for a Fitness Center and an Intelligence/Tactics unit. Other renovations and relocations made within the facility over the years have resulted in a building that now inadequately serves its current users, which include Administration and Operations (Category Code 141-753), Base Operations (141-453), Command Post (141-461), Life Support and Fitness Center (740-674).

The facility size meets the current ANG facility requirements (ANGH 32-1084) but the user spaces are not efficiently arranged, the HVAC and electrical systems are inadequate, roofs are in need of repair and the fire protection system does not comply with current codes. All of these factors contribute to a degradation of mission completion.

GRW began the project with a Charrette to review the facility requirements with a Design Working Group, consisting of user groups and other key stakeholders, to confirm the authorized functional space requirements of each activity in the facility, to develop alternative floor plans that overcome the current deficiencies, and to validate the Government's construction cost estimate. A Concept Proposal Report and a Concept Development Report were prepared following the Charrette.

After considering the alternative floor plans, a plan was selected that meets the goals of the project while also achieving a more energy-efficient, sustainable facility. The final design will allow for the efficient use of space for Squadron personnel to perform their operations, maintenance and training activities in a modern, comfortable environment that is conducive to effective mission execution.

**This project is being designed to achieve the USGBC LEED Certified rating and to meet other the requirements of the ANG Sustainable Design Policy. New, efficient HVAC, lighting and other support systems will be incorporated in the renovated facility. This facility will also meet the AT/FP requirements of UFC 4-010-01, and other applicable current ANG requirements and building codes including ADA accessibility guidelines.**

**Client Contact:** Lt. Col. John W. Dulin, Base Civil Engineer, West Virginia Air National Guard, 130th Airlift Wing, Charleston, WV; (304) 341-6270; john.dulin@ang.af.mil





## West Virginia ANG 130th Airlift Wing Building 107 Consolidation Study

GRW was selected by the 130th AW to provide a Consolidation Study for Building 107 (B107), the oldest hangar on the installation. Built in the 1950's, this facility (designated historic by the State Historic Preservation Office – *existing facility shown*) will be renovated to house an Aero-Medical Evacuation Squadron, a new Aerial Port Facility and Deployment Processing Center, and mobility storage for the Security Forces Squadron.

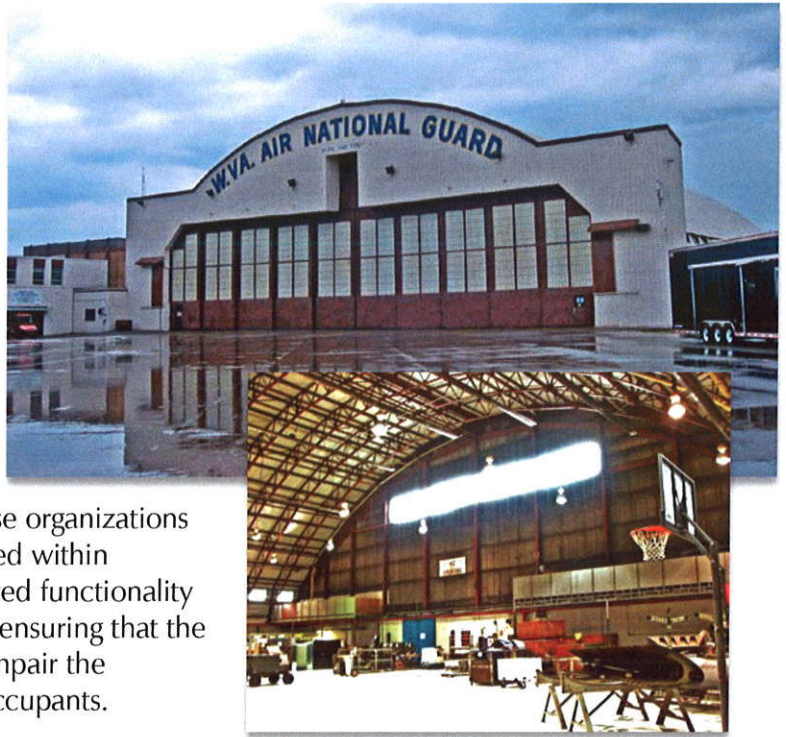
GRW will be developing a phased plan for the successful relocation of these organizations into B107. Each phase is to be completed within allowable budget limits and meet required functionality and allowable space criteria, while also ensuring that the development of later phases does not impair the operational effectiveness of the initial occupants.

Floor plans will be developed for each phase as well as the final floor plan and construction cost estimate. During the study, GRW will prepare several alternative floor plan scenarios, each allowing the project goals to be achieved, for review by the Design Working Group (DWG). It is anticipated that the initial phase will provide space for the Aero-Medical Evacuation Squadron, which is scheduled to be reassigned from the WVANG base in Martinsburg in 2012. The second phase is expected to provide for the Aerial Port/Deployment Processing operations, and the third phase, SFS storage area.

One of the challenges for this project will be to consolidate these organizations, for which a total authorized area of over 50,000 SF is to be provided, into this facility, which has a footprint of approximately 40,000 SF. The current building size is to be maintained (no additions are allowed to the building footprint); therefore it is likely that the interior of the facility will be modified to provide administrative spaces on two floors. Major renovations to the building's electrical, mechanical and plumbing systems are anticipated – the UTA occupancy of the facility is expected to exceed 200.

**AT/FP measures and energy measures are to be incorporated in the facility, as well as current ANG guidelines and building codes, including ADA accessibility guidelines.**

**Client Contact:** Lt. Col. John W. Dulin, Base Civil Engineer, West Virginia Air National Guard, 130th Airlift Wing, Charleston, WV; (304) 341-6270; john.dulin@ang.af.mil







## West Virginia ARNG Camp Dawson Storm Water Pollution Prevention Plan for Proposed MOS 21 Site 3 Training Area

AMEC was responsible for developing a comprehensive SWPPP for the proposed MOS 212 Site 3 training area located on the Pringle Property of Camp Dawson in Kingwood, WV. This site will be used for the training of guardsmen in the use of heavy earth moving equipment. To achieve this, the site, approximately 50 acres, will remain in a disturbed condition. To ensure that no sediment leaves the site, a comprehensive sediment capture system was developed for the site. This system consisted on bypass swales and permanent sediment settling basins. The bypass



swales are to direct clean storm water around the training site while the sediment basins will capture any sediment that is generated onsite during storm events.

AMEC met with the WV ARNG staff, including the eventual end users, to determine their needs for the training area and how to best implement the sediment capture and bypass swales to compliment the training mission. Once the basis of the plan had been agreed upon, AMEC developed plans and other documents for the SWPPP. AMEC worked closely with WV ARNG personnel during the plan development process to ensure that the eventual plan met their needs for the training area. Once the plan was complete, it was submitted to the West Virginia Department of Environmental Protection (WV DEP). AMEC coordinated with the WV DEP to ensure that the plan met their requirements and to ensure a timely approval of the plan. Once the plan was approved, AMEC worked closely with the WV ARNG end users to ensure that the sediment control measures were properly installed on site.

**Client Contact:** LTC Bill Suver, West Virginia Army National Guard, (304) 791-4457



## West Virginia ARNG Camp Dawson Multi-Purpose Building

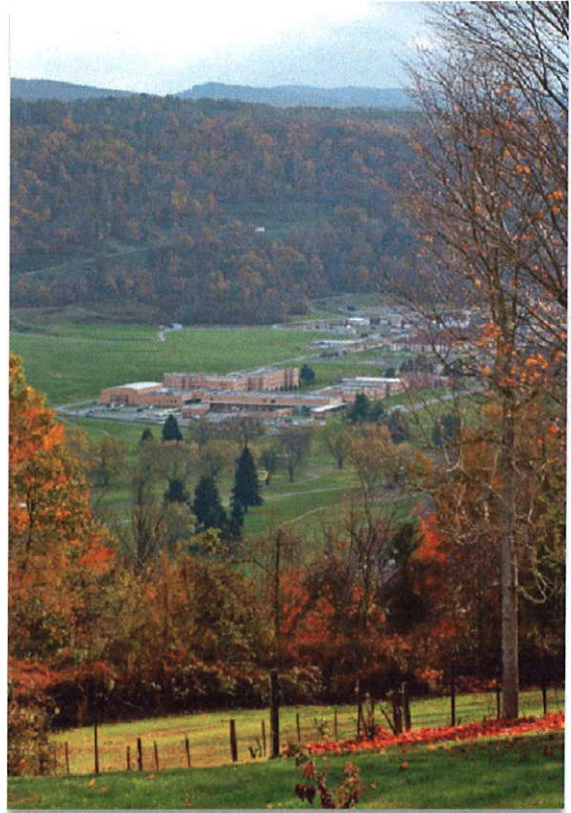


AMEC provided civil site design included grading, utility layout and relocation, storm water management and sidewalks for this project, which involved close coordination with the architect that was designing the building, as well as the WVARNG Maintenance, Facilities and Operations Department to ensure that all stakeholder needs were met. Civil engineering design and specifications were prepared to WVDOT standards. Project included surveying of the existing conditions of the site as well as geotechnical evaluation. Design was completed in 2009 and construction is ongoing.

Geotechnical borings including soil sampling, standard penetration tests and rock coring were completed. The drilling was conducted sequentially for all five projects in order to reduce mobilization fees and provide continuity of operations with Camp Dawson personnel.

The geotechnical explorations for three buildings resulted in recommendations for site preparation, seismic site classification, and shallow & deep foundation designs. The explorations demonstrated site subsurface conditions vary with relatively small distances at Camp Dawson, requiring different types of foundation systems, and allowed the design teams to choose the most cost-effective site location. Minimum footing sizes, frost embedment depths, and foundation construction quality control recommendations were provided. AMEC's civil site designers worked with the building architect to develop effective locations for site utilities.

**Client Contact:** COL Don Beightol, West Virginia Army National Guard, (304) 561-6447



## West Virginia ARNG Senior Officer's Quarters

AMEC provided civil site design including grading, utility layout and relocation, storm water management, driveway and parking lot layout, as well as ADA access compliance. The project consisted of constructing three new residential grade buildings that will serve as visitor's quarters for senior military staff members. The project included close coordination with the architect that was designing the officer's quarters, as well as the WVARNG Maintenance, Facilities and Operations Department to ensure that all stakeholder needs were met. Civil engineering design and specifications were prepared to WVDOT standards. Project included surveying of the existing conditions of the site as well as geotechnical evaluation of the level pad that was designed and constructed by WVARNG. Design is ongoing. Geotechnical borings including soil sampling, standard penetration tests and rock coring were completed. The geotechnical explorations resulted in recommendations for site preparation, seismic site classification, and shallow and deep foundation designs.

**Client Contact:** COL Don Beightol, West Virginia Army National Guard, (304) 561-6447



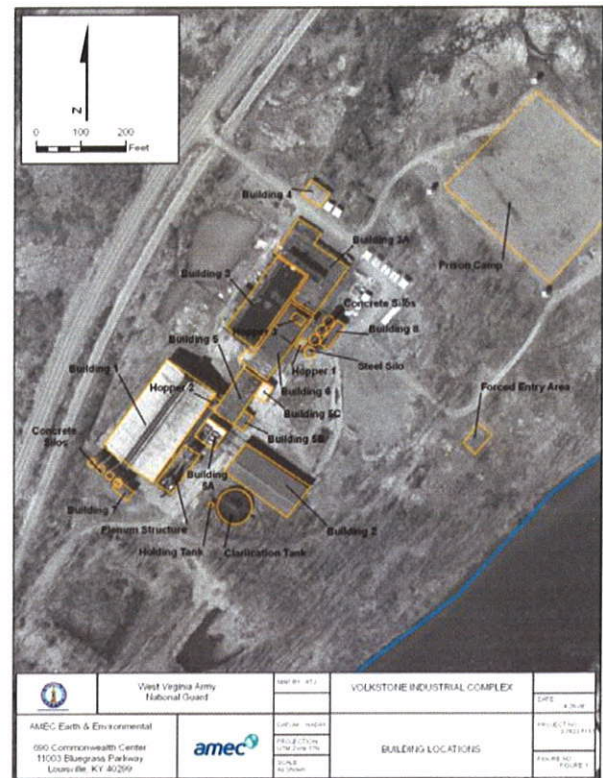
## West Virginia ARNG Camp Dawson Planning and Programming

Camp Dawson supports Special Operations training from Fort Bragg and the West Virginia Army National Guard selected AMEC to prepare a Training Site Master Plan for the Camp Dawson Collective Training Center in Kingwood, WV. The TSMP is built on the Concept Plan previously prepared by AMEC to assist in setting strategic goals for the mission and vision of Camp Dawson. Due to the exemplary work on the Concept Plan, AMEC was selected to create the Master Plan. Both the Concept Plan and the subsequent Master Plan were developed under the guidance of the Special Operations Command.

In addition to the Camp Dawson cantonment area, the master plan included the Volkstone Training Area, Pringle Tract, and Briery Mountain Training Area. Each of these properties with different training purposes and terrain was integrated into the overall master planning goals, objectives, and recommendations for Camp Dawson.

AMEC completed the master plan following guidance from AR 210-20, which included a discussion of the missions of the major commands that utilize the facilities at Camp Dawson; an assessment of current facilities and infrastructure at the installation; an analysis of physical and environmental constraints; and evaluation of noise and hazardous materials criteria. Charrettes with the leadership at Camp Dawson and Special Operations Command were held to determine mission requirements and development interests for Camp Dawson. The age and condition of existing structures were also assessed. Utilities and the transportation network were evaluated through surveys.

Significant effort was given to collecting new data and updating the PRIDE Database for Camp Dawson. The PRIDE rectification efforts helped to justify construction and improvements; support acquisition, utilization, and disposal of assets; and procure annual maintenance funding to the fullest extent. AMEC is intimately familiar with the key guidelines in the PRIDE process: NG PAM 210-20, AR 405-45, PAM 405-45, AR 415-28, and DA PAM 415-28.





Although separate from the PRIDE RPI database, the geospatial data associated with the real property is also critical information that must be managed appropriately. GIS data was collected and converted to be compliant with DoD's SDSFIE requirements, which standardize the organization of spatial data layers. The updated GIS data has been incorporated into routine Facilities and Environmental activities.

The Master Plan established a process for real property management and development; provided a framework for analyzing and justifying real property sustainment (i.e., maintenance and repair) resource allocation; identified constraints and deficiencies of current facility locations and provided solutions for mitigating siting problems; and established sustainable facilities and sites, which reduced impacts and life cycle costs, and increased the usability and value of the facilities.

AMEC also completed planning for the Modified Record Fire Range at Camp Dawson. As a part of this effort, AMEC provided front-end environmental investigations, an EA, site planning and selection, community involvement activities, a design Charrette, geotechnical investigations and the final design. AMEC utilized Microstation and our in-house non-proprietary Line of Sight software to complete the final design.

AMEC is currently preparing two environmental assessments for range plans on the Briery Mountain Training Area and Pringle Tract.

### Challenges and Resolutions

**Challenge:** Key decision-makers were not readily available. Gathered, analyzed, and incorporated the training requirements of Army units, federal agencies (State Department), and first responder agencies (police, fire) that use the facility annually.

**Resolution:** Conducted planning Charrettes for Camp Dawson cantonment area, Volkstone Training Area, Briery Mountain Training Area and Pringle Tract. Due to deployments, coordination and follow up with knowledgeable personnel had to be done long distance via e-mail and telephone follow up calls. AMEC was able to complete the project on time and within budget.

**Challenge:** Existing building inventory and functional use information was significantly out-of-date due to organization changes, new construction/renovation impacts, and lack of staffing.

**Resolution:** AMEC worked closely with FMO to update RPI and PRIDE Database and prepare functional use assessment. Numerous meetings, site visits, and correspondence were undertaken in a compressed time schedule to achieve project requirements. AMEC trained and educated WVARNG employees on the database and procedures to keep it current. Since AMEC identified more square footage, this resulted in an increase in O&M budget for the installation.

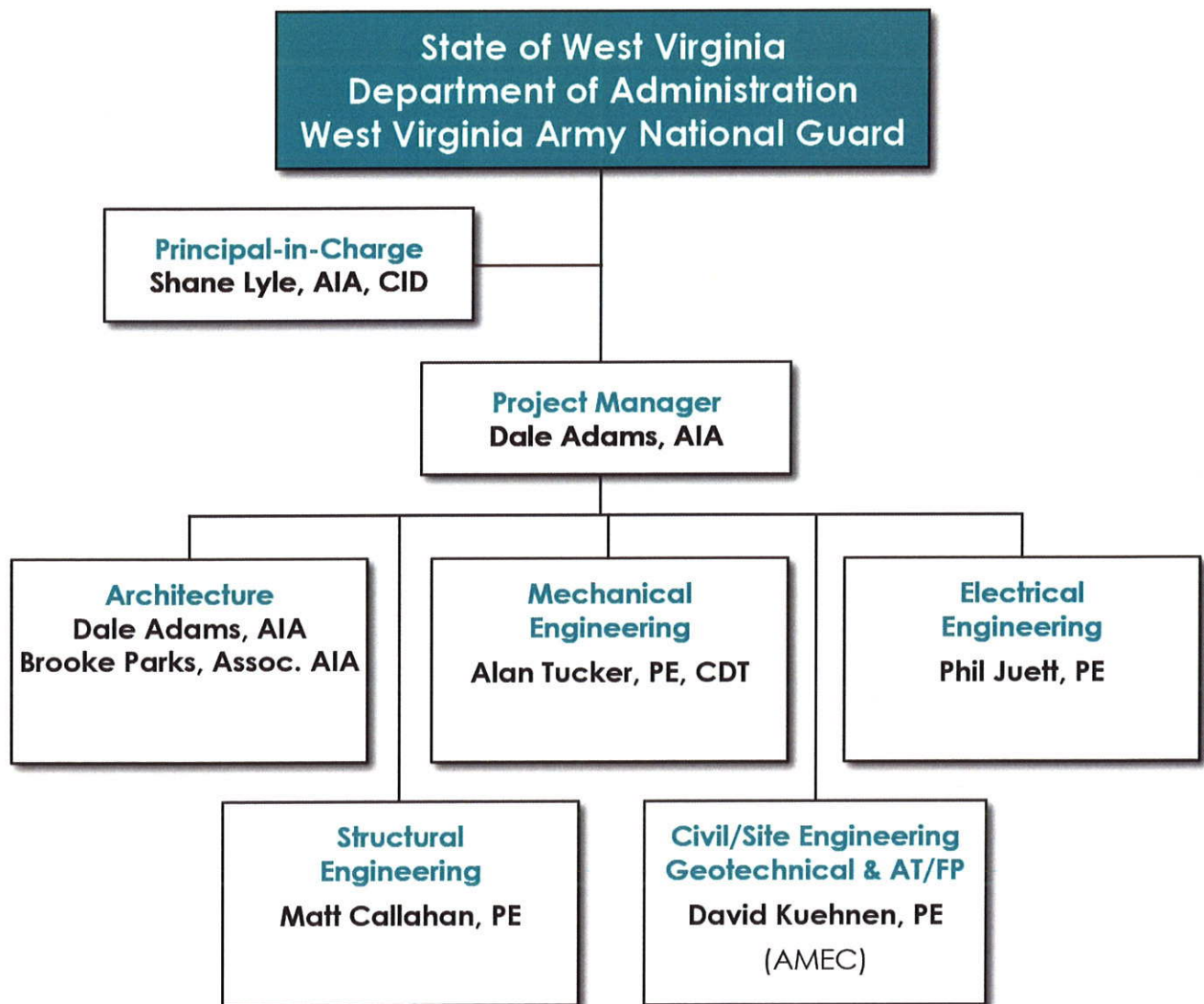
**Client Contact:** LTC Bill Suver, West Virginia Army National Guard, (304) 791-4457



## 4.0 Project Team and Resumes

GRW has assembled a project team of professionals with specific experience in the design of facilities for the Army National Guard. Each team member has unique architectural or engineering experience that is critical to the successful design of this project. As the lead firm, GRW will be the primary contact with the Owner. Our services will include project management; architecture, and mechanical, electrical, and structural engineering. Our subconsultant, AMEC, will provide services related to site/civil, geotechnical and AT/FP measures.

**Our team members' abbreviated resumes highlighting their most pertinent experience are provided on the pages following the organizational chart below.**





## Shane Lyle, AIA

### GRW Vice President/Principal-in-Charge



**Years of Experience:** 29   **Years with GRW:** 23

#### Education

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

#### Registration

Registered Architect: KY, WV, TN, AL, IN, TX, MS

National Council of Architectural Registration Boards (NCARB) Certification

Certified Interior Designer: Kentucky

#### Professional Affiliations

Past President - East Kentucky Chapter (Lexington), American Institute of Architects

Member / Past Officer - UK College of Architecture Alumni Association

Life Member - UK Alumni Association

#### Qualifications and Similar Project Experience

With nearly 30 years of experience, Mr. Lyle has had primary responsibility for a wide range of architectural projects for clients including the U.S. Armed Forces, the Federal Bureau of Prisons, universities, medical facilities, local and state governments, and private developers. His areas of responsibility typically include programming/planning, budget analysis, design, construction documents, client meetings, bidding/negotiation services, construction phase services, and code compliance.

**West Virginia ARNG Joint Armed Forces Reserve Center and Area Maintenance Support Activity, Ripley, WV** - Architect. 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.

**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 a 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.

**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.

**West Virginia ANG 167th Airlift Wing Maintenance Mall (Building 307) Repair, Martinsburg, WV** - Project Manager. Concept Development Report for facility 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.

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

Principal. 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 includes floor plans for each phase as well as final floor plan and construction cost estimate. Major challenge involves consolidation of organizations with a total authorized area of over 50,000 SF into facility with 40,000 SF footprint - no additions are allowed. AT/FP, energy and ADA accessibility measures will be incorporated, as well as current ANG guidelines.

**Ohio ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex,**

**Springfield, OH - Architect.** Project Planning Document Charrette and design for new LEED Silver 85,865 SF complex serving both Ohio Army National Guard and U.S. Army Reserves. 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.

**Barbourville Utility Commission Office Building, Barbourville, KY - Project Manager.** Design for a 5,300 SF office building for the local provider for cable TV, electric and internet service, providing a large public lobby, a teller area, drive-through window, conference room, multiple offices, support spaces, and vault.

**Corbin Utilities Office and Warehouse Buildings, Corbin, KY - Principal.** 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 a 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.

**Air Force Special Operations Command C-130 Hangar Complex, Cannon AFB, NM - Project Manager.** Concept design and Design-Build RFP to construct two of the first facilities supporting C-130 aircraft to be built at a new AFSOC base at Cannon AFB (NM), including a Corrosion Control Hangar (\$22 million, 57,700 SF) and a Fuel Cell Hangar (\$23 million, 31,100 SF), utility service, pavements and other site development features. Project designed to meet LEED Silver criteria.

**Berea Municipal Utilities and Street Department Operations Center, Berea, KY - Project Manager.** Retrofit and renovation of a 97,000 SF vacant manufacturing facility for reuse as a new city operations facility, including ADA and code/safety upgrades. Office space includes a public lobby, cashier stations for conducting city business.

**Aliceville Federal Correctional Institution and Satellite Camp, Aliceville, AL - Project Manager.** Design-build delivery of a \$188 million women's medium-security Federal Correctional Institution (70-acre site) and minimum-security Federal Prison Camp (20-acre site) totaling 624,312 SF, housing approximately 1,790 inmates. FCI includes three 4-story housing units. Complex buildings designed for LEED Certification and under Federal Leadership in High Performance Building Standards.



## Dale Adams, AIA

### GRW Architecture/Project Manager



**Years of Experience:** 26 **Years with GRW:** 3

#### Education

Bachelor of Architecture, 1985, University of Oklahoma

#### Registration

Registered Architect: KY

National Council of Architectural Registration Boards (NCARB) Certification

#### Professional Affiliations

American Institute of Architects

#### Qualifications and Similar Project Experience

Mr. Adams has more than 26 years of architectural experience including 18 years as a Registered Architect with involvement in various project types located across the United States. His responsibilities include fee proposals, proposal negotiations, Charrettes, schematic design, programming, project planning, design development and construction documents. His experience also includes RFP document preparations for the construction management team, including outline specifications and budget cost analysis. Mr. Adams has also provided on-site consultations and in-office construction administration services including RFI/OPR/CO preparation, submittal reviews and as-built drawing preparation.

**West Virginia ARNG Live Fire Exercise Shoot House, Camp Dawson, WV** - Project Manager. Design for innovative re-use of a recently-acquired former industrial complex adjacent to Camp Dawson. 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.

**West Virginia ANG 130th Airlift Wing Security Forces Squadron Facility Renovation and Expansion, Charleston, WV** - Project Manager. Complete architectural and engineering Type A, B and C services for the \$2 million renovation of 5,395 SF SFS facility (B142) and addition of 2,500 SF administrative space to better serve this 101-member unit. Designed to meet LEED Silver sustainable design criteria. Working closely with the Design Working Group, completed Type A-2 AE services and the structural, mechanical and electrical system calculations; also addressed AT/FP, Sustainable Design and ADAAG requirements.

**West Virginia ANG 130th Airlift Wing Squadron Operations Facility Repair, Charleston, WV** - Project Manager. Design and construction services (Type A, B & C) 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. Final design allows for efficient use of space; HVAC, electrical and fire protection systems upgrade; and roof repairs. Designed to achieve USGBC LEED Certified rating and ANG Sustainable Design criteria.

**West Virginia ANG 130th Airlift Wing Aboveground Fuel Storage Dispensing Facility, Charleston, WV** - Architect. 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.



**West Virginia ANG 130th Airlift Wing LOX Storage Relocation, Charleston, WV** - Architect. 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 includes covered storage facility with adjacent tank storage canopy; elevated pads and spill containment structure for storage tanks; paved entry road; protective fencing; and utilities.

**Kentucky ANG 123rd Airlift Wing Contingency Response Group Facility, Louisville, KY** - Project Manager. Type A, B and C A/E services for new \$12.6 million 54,300 SF masonry and standing seam roof addition and 3,000 SF of modifications to the Wing Headquarters Building to house personnel and equipment for the 123rd Airlift Wing Contingency Response Group. Includes applicable antiterrorism / force protection measures as well as design to meet the USGBC LEED Silver sustainable design criteria, EAct 2005 energy efficiency standards, and EO 13423.

**Kentucky ANG 123rd Airlift Wing Installation Development Plan and CIP, Louisville, KY** - Project Manager. Provided Installation Development Plan that allows base to undertake variety of future aircraft and mission options, and accommodate addition of contingency response mission. Developed a Common Installation Picture (CIP) to integrate a facility inventory system into the base-wide GeoBase GIS, providing a series of maps of the base, infrastructure, and facilities.

**Kentucky ANG 123rd Airlift Wing Roof Replacements, Louisville, KY** - Project Manager. Design for a \$900,000 replacement of roofs on the Wing Headquarters Building (non-ballasted fully adhered 0.60 mil single ply EPDM membrane roof system with mechanically fastened tapered, rigid insulation and perimeter cants) and the Maintenance Hangar.(0.60 mil single ply EPDM roof fully adhered with mechanically fastened rigid insulation designed to withstand a 90 mph wind resistance).

**Texas ANG 136th Airlift Wing Electronic Countermeasures (ECM) Shop, NAS JRB, Fort Worth, TX** - Project Manager. Programming Charrette, Concept Proposal Report and Concept Development Report to prepare Bridging Documents for Design/Build RFP of 4,700 SF ECM Shop to house personnel and equipment for ECM and Avionics shops to replace undersized and code non-compliant spaces that currently serve these functions. Project includes a geothermal-based HVAC system, photovoltaic system, vegetated roof and other sustainable design measures to meet ANG and USGBC LEED Platinum rating and EAct 2005 energy savings goals.

**Texas ANG 136th Airlift Wing Security Forces Squadron Facility, NAS JRB, Fort Worth, TX** - Project Manager. Design-build RFP and construction administration services for \$4.5 million, 17,400 SF, 2-story addition to the 136th Airlift Wing Headquarters Building to house personnel and equipment for the unit's Security Forces Squadron (SFS) at NAS JRB Fort Worth (Carswell Field). Provides command, control and administrative office space, weapons simulator, arms vault, classrooms, weapons and equipment storage / maintenance areas, locker rooms and restrooms, a fitness room, mobility equipment storage and utility vehicle storage. Site work included new utilities, stormwater controls, pavements, security fencing, grading and AT/FP measures. Designed to meet the USGBC LEED Silver sustainable design criteria and EAct 2005 energy efficiency standards.

**Texas ANG 147th Reconnaissance Wing Munitions Maintenance Shop, Ellington Field JRB, Houston, TX** - Project Manager. Design for a \$1.8 million, 3,100 SF munitions maintenance and inspection shop relocating activities from another building that does not meet explosive safety requirements for the current mission. Meets ANG Sustainable Design Criteria and EAct 2005 energy efficiency standards for an industrial facility, secure fenced perimeter, access road, parking lot and gates, and new utility services.



## Brooke Parks, Assoc. AIA

### GRW Architecture



**Years of Experience:** 5    **Years with GRW:** 5

#### Education

Bachelor of Architecture, 2007, University of Kentucky

#### Registration

Associate Member, American Institute of Architects

#### Qualifications and Similar Project Experience

Ms. Parks has experience working on a wide range of architectural projects for a variety of clients. Her areas of responsibility vary and typically include design and construction document work.

**West Virginia ANG 130th Airlift Wing Security Forces Squadron Facility Renovation and Expansion, Charleston, WV** - Architectural Designer. Complete architectural and engineering Type A, B and C services for the \$2 million renovation of 5,395 SF SFS facility (B142) and addition of 2,500 SF administrative space to better serve this 101-member unit. Designed to meet LEED Silver sustainable design criteria. Working closely with the Design Working Group, completed Type A-2 AE services and the structural, mechanical and electrical system calculations; also addressed AT/FP, Sustainable Design and ADAAG requirements.

**Kentucky ANG 123rd Airlift Wing Contingency Response Group Facility, Louisville, KY** - Architectural Designer. Type A, B and C A/E services for new \$12.6 million 54,300 SF masonry and standing seam roof addition and 3,000 SF of modifications to the Wing Headquarters Building to house personnel and equipment for the 123rd Airlift Wing Contingency Response Group. Includes applicable antiterrorism / force protection measures as well as design to meet the USGBC LEED Silver sustainable design criteria, EPC Act 2005 energy efficiency standards, and EO 13423.

**Kentucky ANG 123rd Airlift Wing Renovation Projects, Louisville ANG Base, KY** - Architectural Designer. Fast-track design for upgrade and renovation projects under an indefinite delivery indefinite quantity National Guard Bureau contract, including fire suppression systems in two buildings, new lights in several rooms of two buildings, relocation of a LOX storage facility, remodeling of the Command Post for the Wing Operations Center, and remodeling the Operations Center for the Critical Response Team, all ready for bid solicitation within 30 days of notice-to-proceed.

**Brownsburg Parks and Recreation Maintenance Building, Brownsburg, IN** - Architectural Designer. Full-service A/E design, bidding and construction administration for a three-bay, 6,500 SF vehicle maintenance building that contains administrative support spaces, mechanical room and a storage mezzanine.

**Robertson County Fire Department and Community Center, Mt. Olivet, KY** - Architectural Designer. Planning, design and construction administration services for a 5,368 SF, single-story, wood-framed facility with metal roof and siding, providing a 3,000 SF fire station with 3 emergency vehicle bays with dual (front and rear) entrances, mezzanine storage, fire chief's office and conference room, and a corridor with restrooms connecting vehicle bays to a 1,183 SF community room with seating for 96 attendees, warming kitchen and janitor closet.

**Corbin Utilities Office and Warehouse Buildings, Corbin, KY** - Architectural Designer. 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 a 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.

**Michigan ARNG Design & Renovation of 8 Facilities at Ft. Custer, Camp Grayling, Grayling Army Airfield and Midland, , MI** - Architectural Designer. Architectural and engineering design for 8 "fast track" projects for Michigan Army National Guard scattered throughout the state. Completed design, permitting, and master planning for future expansion and/or facilities in 10 weeks, in time to meeting funding deadlines for bid advertisements.

**Aliceville Federal Correctional Institution and Satellite Camp, Aliceville, AL** - Architectural Designer. Design-build delivery of a \$188 million women's medium-security Federal Correctional Institution (70-acre site) and minimum-security Federal Prison Camp (20-acre site) totaling 624,312 SF, housing approximately 1,790 inmates. FCI includes three 4-story housing units. Complex buildings designed for LEED Certification and under Federal Leadership in High Performance Building Standards. Highlights in sustainable design include: recycled and treated laundry waste water; stormwater detention ponds design to allow on-site infiltration to reduce runoff and pollution of receiving streams; water efficient landscaping; 30% reduction of water use resulting from low-flow plumbing fixtures; on-site renewable energy and measurable optimized energy performance; and attention to indoor environmental quality.

**California ARNG Infantry Platoon Battle Course, Camp Roberts, CA** - Architectural Designer. Design for a new, \$2.7 million infantry platoon battle course providing stationary and moving infantry and armor targets, machine gun observation bunkers, tactical trenching obstacles and mortar simulation devices in six separate obstacles. Site support including parking, roads, and power plant.

**VA Medical Center IDIQ Contract for A-E Services, Lexington, KY** - Architectural Designer. Comprehensive architecture and engineering services under an IDIQ contract for two VA Medical Centers in Lexington. Delivery orders have included: Leestown Campus Building One Radiology Renovation; Cooper Drive Data Center Upgrade of HVAC, electrical and fire suppression systems; and Leestown Campus Parking Improvements.

**UK Nursing Building Renovation, Lexington, KY** - Architectural Designer. Architectural and engineering services for the Phase II renovation of approximately 8,117 SF on the sixth-floor of the University's Nursing Building. Design consists of combined schematic and design development phase and construction documents in accordance with University/Med Center standards and procedures.

**Del Rio Police Station, Del Rio, TX** - Architectural Designer. Site selection, needs assessment, design and construction documents for a new 27,000 SF city police station with detention area and 7,000 SF secured evidence space, including design provision for future expansion, and security systems for access control and intrusion detection, intercom, and multiple CCTV/DVR systems.

**Monroe County Wellness Center, Tompkinsville, KY** - Architectural Designer. Preliminary program and design studies to support multiple fundraising opportunities, and final design of two-phase, 27,000 SF family wellness center; constructed 6,900 SF, \$1.7 million phase includes racquetball court, reception/check-in station, offices, support spaces, equipment storage, and two multi-purposes classrooms with an adjoining warming kitchen.



system, photovoltaic system, vegetated roof and other sustainable design measures to meet ANG and USGBC LEED Platinum rating and EPA 2005 energy savings goals.

**Ohio ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Springfield, OH** - Mechanical Engineer. Project Planning Document Charrette and design for new LEED Silver 85,865 SF complex serving both Ohio Army National Guard and U.S. Army Reserves. 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.

**Corbin Utilities Office and Warehouse Buildings, Corbin, KY** - Mechanical 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 a 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.

**South Kentucky RECC Headquarters, Somerset, KY** - Mechanical Engineer. Engineering design for South Kentucky Rural Electric Cooperative Corporation's new campus which includes corporate headquarters facility, and warehouse and vehicle maintenance facility. HVAC systems feature geothermal VAV for all office areas, and used-oil heaters for vehicle maintenance areas.

**Fort Gillem, Army Corps of Engineers, Army Reserve Office Building, Atlanta, GA** - Lead Mechanical Engineer for the design of a new office and associated support buildings of an Army Reserve office complex. The \$24 million facility included centrifugal water cooled chillers and associated cooling towers. Chilled water pumps (primary / secondary) supplied VAV air handling units. A gas fired boiler with associated primary / secondary pumping also served the air handling units and other heating needs. DDC was employed for the control and coordination of the HVAC systems. Life cycle cost analysis (LCCA) was performed in the selection of the most appropriate equipment to serve the facilities. Fire protection and plumbing were also included in the design.

**Aliceville Federal Correctional Institution and Satellite Camp, Aliceville, AL** - Mechanical Engineer. Design-build delivery of a \$188 million women's medium-security Federal Correctional Institution (70-acre site) and minimum-security Federal Prison Camp (20-acre site) totaling 624,312 SF, housing approximately 1,790 inmates. Complex buildings designed for LEED Certification and under Federal Leadership in High Performance Building Standards.

**Yazoo City U.S. Penitentiary and Satellite Camp, Yazoo City, MS** - QA/QC. Design services for design/build delivery of a \$175 million medium-security main complex (USP) and minimum-security prison camp (FPC), on track for LEED Certification, with a gross building area of 780,000 SF and housing approximately 1,200 inmates. USP includes six, 2-story housing units, a secure housing unit, and program and multipurpose functions in rectangular campus layout enclosing a central secure compound.





## Phil Juett, PE

### GRW Electrical Engineer

**Years of Experience:** 25   **Years with GRW:** 5

#### Education

B.S., Electrical Engineering, University of Kentucky

#### Registration

Professional Engineer (Electrical): KY

#### Professional Affiliations

Kentucky Society of Professional Engineers

National Society of Professional Engineers

#### Qualifications and Similar Project Experience

Mr. Juett has more than 25 years of electrical engineering experience including power, lighting, telecommunications, grounding and lightning protection, fire detection and alarm, security, and auxiliary systems for new construction and renovation projects.

#### **West Virginia ARNG Live Fire Exercise Shoot House, Camp Dawson, WV - Electrical Engineer.**

Design for innovative re-use of a recently-acquired former industrial complex adjacent to Camp Dawson. 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.

#### **West Virginia ARNG Relocation of Camp Dawson Electrical Power and Communications Lines, Kingwood, WV - Project Manager.**

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.

#### **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 the \$2 million renovation of 5,395 SF SFS facility (B142) and addition of 2,500 SF administrative space to better serve this 101-member unit. Designed to meet LEED Silver sustainable design criteria. Working closely with the Design Working Group, completed Type A-2 AE services and the structural, mechanical and electrical system calculations; also addressed AT/FP, Sustainable Design and ADAAG requirements.

#### **West Virginia ANG 130th Airlift Wing LOX Storage Relocation, Charleston, WV - Electrical Engineer.**

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 includes 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).

#### **West Virginia ANG 130th Airlift Wing Communications Duct, Charleston, WV - Electrical Engineer.**

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 will consist of two ITNs (Information Transfer Nodes); ITN-1 in the new Communications Facility and ITN-2 in new hangar, Building 407. Duct bank will carry fiber optic lines, television and coaxial cabling; allows looping of current system; and provides redundancy of assets. A 4-duct and a 12-duct PVC conduit system with inter-duct is proposed.



**West Virginia ANG 130th Airlift Wing Squadron Operations Facility Repair, Charleston, WV -** Electrical Engineer. Design and construction services (Type A, B & C) 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). Designed to achieve USGBC LEED Certified rating and ANG Sustainable Design criteria.

**Texas ANG 136th Airlift Wing Security Forces Squadron Facility, NAS JRB, Fort Worth, TX -** Electrical Engineer. Design-build RFP and construction administration services for \$4.5 million, 17,400 SF, 2-story addition to the 136th Airlift Wing Headquarters Building to house personnel and equipment for the unit's Security Forces Squadron (SFS) at NAS JRB Fort Worth (Carswell Field). Site work included new utilities, stormwater controls, pavements, security fencing, grading and AT/FP measures. Designed to meet the USGBC **LEED Silver** sustainable design criteria and EPA 2005 energy efficiency standards.

**Texas ANG 136th Airlift Wing Electronic Countermeasures (ECM) Shop, NAS JRB, Fort Worth, TX -** Electrical Engineer. Programming Charrette, Concept Proposal Report and Concept Development Report to prepare Bridging Documents for Design/Build RFP of 4,700 SF ECM Shop to house personnel and equipment for ECM and Avionics shops to replace undersized and code non-compliant spaces that currently serve these functions. Project includes a geothermal-based HVAC system, photovoltaic system, vegetated roof and other sustainable design measures to meet ANG and USGBC LEED Platinum rating and EPA 2005 energy savings goals.

**Texas ANG 147th Reconnaissance Wing Munitions Maintenance Shop, Ellington Field JRB, Houston, TX -** Electrical Engineer. Design for a \$1.8 million, 3,100 SF munitions maintenance and inspection shop relocating activities from another building that does not meet explosive safety requirements for the current mission. Meets ANG **Sustainable Design Criteria and EPA 2005** energy efficiency standards for an industrial facility, secure fenced perimeter, access road, parking lot and gates, and new utility services.

**Indiana ARNG 76th Brigade Combat Team Readiness Center, Lawrence, IN -** Electrical Engineer. Planning, design and construction administration services for a 109,555 SF, 2-story Readiness Center and 8,300 SF unheated storage facility. Includes site AT/FP measures, security lighting; energy management, intrusion detection system, mass notification system; stormwater bio-retention pond.

**Ohio ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Springfield, OH -** Electrical Engineer. Project Planning Document Charrette and design for new LEED Silver 85,865 SF complex serving both Ohio Army National Guard and U.S. Army Reserves. 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.

**Kentucky ARNG Readiness Centers HVAC Replacement, Jackson and Williamsburg, KY -** Electrical Engineer. Design for HVAC systems renovation for two small Army National Guard Readiness Centers in different Kentucky cities (Jackson and Williamsburg), totaling 32,000 SF.

**Kentucky ANG 123rd Airlift Wing Contingency Response Group Facility, Louisville, KY -** Electrical Engineer. Type A, B and C A/E services for new \$12.6 million 54,300 SF masonry and standing seam roof addition and 3,000 SF of modifications to the Wing Headquarters Building to house personnel and equipment for the 123rd Airlift Wing Contingency Response Group. Includes applicable antiterrorism / force protection measures as well as design to meet the USGBC LEED Silver sustainable design criteria, EPA 2005 energy efficiency standards, and EO 13423.



## Matt Callahan, PE

### GRW Structural Engineer



**Years of Experience:** 25   **Years with GRW:** 5

#### Education

M.S., Structural Engineering, 1998, University of South Carolina

B.S., Civil Engineering, 1979, Syracuse University

B.S., Wood Products Engineering, 1979, SUNY College of Environmental Science

#### Registration

Professional Engineer: KY, OH, GA, WV, TN, IN, AL, TX, MS

#### Qualifications and Similar Project Experience

Mr. Callahan has 25 years of experience in structural analysis and design for industrial, commercial, institutional and residential projects using steel, reinforced concrete, prestressed concrete, masonry and wood as structural materials. His areas of technical expertise include foundation design and analysis; superstructure design and analysis; new design and renovation of existing structures; repair of distressed structures; and code compliance.

#### **West Virginia ARNG Live Fire Exercise Shoot House, Camp Dawson, WV - Structural Engineer.**

Design for innovative re-use of a recently-acquired former industrial complex adjacent to Camp Dawson. 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.

#### **West Virginia ANG 130th Airlift Wing Security Forces Squadron Facility Renovation and Expansion, Charleston, WV - Structural Engineer.**

Complete architectural and engineering Type A, B and C services for the \$2 million renovation of 5,395 SF SFS facility (B142) and addition of 2,500 SF administrative space to better serve this 101-member unit, increasing space and improving 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. This project will meet LEED Silver measures for sustainable design. Working closely with the Design Working Group, completed Type A-2 AE services and the structural, mechanical and electrical system calculations; also addressed AT/FP, Sustainable Design and ADAAG requirements.

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

Structural Engineer. Design and construction services (Type A, B & C) 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. Final design allows for efficient use of space; HVAC, electrical and fire protection systems upgrade; and roof repairs. Designed to achieve USGBC LEED Certified rating and ANG Sustainable Design criteria.

#### **West Virginia ANG 130th Airlift Wing LOX Storage Relocation, Charleston, WV - Structural**

Engineer. 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 includes covered storage facility with adjacent tank storage canopy; elevated pads and spill containment structure for storage tanks; paved entry road; protective fencing; and utilities.



**West Virginia ANG 130th Airlift Wing Building 107 Consolidation Study, Charleston, WV** - Structural Engineer. 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. AT/FP, energy and ADA accessibility measures will be incorporated, as well as current ANG guidelines.

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

**Del Rio Police Station, Del Rio, TX** - Structural Engineer. Site selection, needs assessment, design and construction documents for a new 27,000 SF city police station with detention area and 7,000 SF secured evidence space, including design provision for future expansion, and security systems for access control and intrusion detection, intercom, and multiple CCTV/DVR systems.

**Indiana ARNG 76th Brigade Combat Team Readiness Center, Lawrence, IN** - Structural Engineer. Planning, design and construction administration services for a new 109,555 SF, 2-story Readiness Center and 8,300 SF unheated storage facility. Includes site AT/FP measures.

**Kentucky ANG 123rd Airlift Wing Contingency Response Group Facility, Louisville, KY** - Structural Engineer. Type A, B and C A/E services for new \$12.6 million 54,300 SF masonry and standing seam roof addition and 3,000 SF of modifications to the Wing Headquarters Building to house personnel and equipment for the 123rd Airlift Wing Contingency Response Group. Designed to meet USGBC LEED Silver design criteria, EPA 2005 energy efficiency standards, and EO 13423.

**Ohio ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Springfield, OH** - Structural Engineer. Project Planning Document Charrette and design for new LEED Silver 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. 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.

**Texas ANG 136th Airlift Wing Electronic Countermeasures (ECM) Shop, NAS JRB, Fort Worth, TX** - Structural Engineer. Programming Charrette, Concept Proposal Report and Concept Development Report to prepare Bridging Documents for Design/Build RFP of 4,700 SF ECM Shop to house personnel and equipment for ECM and Avionics shops to replace undersized and code non-compliant spaces that currently serve these functions. Project includes a geothermal-based HVAC system, photovoltaic system, vegetated roof and other sustainable design measures to meet ANG and USGBC LEED Platinum rating and EPA 2005 energy savings goals.

**Texas ANG 147th Reconnaissance Wing Munitions Maintenance Shop, Ellington Field JRB, Houston, TX** - Structural Engineer. Design for a \$1.8 million, 3,100 SF munitions maintenance and inspection shop relocating activities from another building that does not meet explosive safety requirements for the current mission. Meets ANG **Sustainable Design Criteria and EPA 2005** energy efficiency standards for an industrial facility; includes secure fenced perimeter, access road, parking lot and gates, and new utility services.



## David K. Kuehnen, PE

### AMEC Civil Engineer



#### Professional summary

Mr. Kuehnen has 18 years experience in civil and environmental engineering, completing projects for both public and private clients. His work for the Federal Government includes completing projects for the Army Corps of Engineers and other agencies involving the design of firing ranges, recreational facilities and transportation facilities. Mr. Kuehnen has also completed numerous health care, industrial, commercial, and residential site development plans for the private and public sectors. Mr. Kuehnen's areas of expertise are in civil site design and site master planning. Additionally, he has 18 years of experience in Computer Aided Design and Drafting (CADD) as well as 15 years of experience with Inroads and Siteworks land development software.

#### Professional qualifications/Registration(s)

Professional Engineer: TN, KY, IN

#### Education

Bachelor of Science, Civil Engineering, University of Memphis, Memphis, TN, 1992

#### Memberships/Affiliations

American Society of Civil Engineers (ASCE)

#### Representative projects

**Modified Record Firing Range (MRFR), WV ARNG, Camp Dawson, Kingwood, WV** - Senior Civil Engineer responsible for the design and plan production for multi-lane firing range complex. The range is a 16-lane facility located at the Briery Mountain training site. Due to the rugged terrain, a detailed line of sight analysis was completed to ensure each target could be engaged from each firing point and to optimize the earthwork to construct the range in order to keep the project under budget. A Storm Water master plan was prepared and a construction storm water approval from the State of West Virginia was obtained for the project.

**Pringle Tract Motor Pool Storm Water Management Plan, WV ARNG, Camp Dawson, Kingwood, WV** - Senior Civil Engineer responsible for design and plan production of the erosion control and process sedimentation basins to support the construction of a proposed heavy vehicle storage area. Design included the site grading and stormwater management devices including several sedimentation traps. A NPDES permit was obtained for the site.

**Southern Command Headquarters RFP, USACE, Miami, FL** - Senior Civil Engineer responsible for production of the civil, site utility and anti-terrorism and force protection portions of a design-build request for proposal for the United States Corps of Engineers. Included in the work was the coordination with the existing utility companies and other municipal and state agencies to ensure that the proposed headquarters building would have adequate utilities as well as met all local and state agency requirements.

**Ripley Readiness Center Charrette, WV ARNG, Ripley, WV** - Senior Civil Engineer responsible for facilitating a week-long design Charrette for a new multi-use readiness center to be located in Ripley, WV. From data received from the client, conceptual site and building plans were created for the proposed facility. The site plan reflected an optimised location for the facility, parking areas and equipment storage. The layout of the site was determined by existing conditions such as topography, existing utilities and floodplains. The plan also included the required adjacencies between different buildings as well as Anti Terrorism and Force Protection (AT/FP) measures.



**Buckhannon Readiness Center Charrette, WV ARNG, Ripley, WV** - Senior Civil Engineer responsible for facilitating a week long design Charrette to ascertain the West Virginia National Guard's needs for a new multi-use readiness center to be located in Buckhannon, WV. From data received from the client, conceptual site and building plans were created for the proposed facility. The site plan reflected an optimised location for the facility, parking areas and equipment storage. The layout of the site was determined by existing conditions such as topography, existing utilities and floodplains. The plan also included the required adjacencies between different buildings as well as Anti Terrorism and Force Protection (AT/FP) measures.

**Bayonet Assault Course, NM ARNG, Onate Military Training Complex, Santa Fe, NM** - Civil Engineer responsible for planning and design of a design build 300-meter Bayonet Assault course. The design included multiple obstacles including specific bayonet objectives with replaceable targets. Also included was drainage design.

**Marine Special Operations Command (MARSOC), USN, Camp Lejeune, NC** - Senior Civil Engineer to support the design of firing ranges and training facilities for a new complex to support approximately 2,000 MARSOC Marines at Camp Lejeune. The project included a fully enclosed 50 yard firing range, a live fire multi-storey urban trainer, a live fire shoot house and a breacher facility, as well as operational/training facilities, site utilities, and infrastructure.

**Combat Readiness Training Center, GA ANG, Savannah International Airport, Savannah, FL** - Senior Civil Engineer responsible for design and plan production for the construction of a replacement outdoor firing range. The replacement range was designed to replace the existing 25-meter range with a new, fully contained range that meet all of the requirements of ETL 06-11. A design Charrette was held prior to the design to ensure that the replacement range would meet the requirements of the end users. A key feature in this range was the reuse of existing baffle material from an existing range that reduced the overall construction cost of the new facility.

**A A Birch Building, Davidson County Government, Nashville, TN** - Civil Engineer responsible for the design and plan production of the public plaza, grading, drainage and utilities for the new Metro Davidson County courthouse building. The new structure was constructed on the site of an existing parking structure that was demolished. The building was built on a steep site, which required extensive design to provide an ADA accessible plaza as well as an ADA accessible drop off lane. The plaza was extensively landscaped and its design was coordinated with the building design to ensure that they were integrated.

**Dollar General Corporate Headquarters, Dollar General Corporation, Goodlettsville, TN** - Civil Engineer responsible for the design of a 300,000 square foot corporate headquarters complex including layout, utilities, grading and drainage, as well as site Master Plan. The ultimate project included two office buildings, a storage facility, a satellite earth station and a day care facility. The playground facility was designed to include multiple play structures, multiple zones for different age groups and a sand play area. The site for the campus was heavily wooded with over 100 feet of vertical relief. The challenge of the design was to minimize the disturbance to the site while maintaining the required access to the building and underground parking garage.



## 5.0 Past Performance

GRW has a proven record of delivering quality services to our clients nationwide. We adhere to well-developed policies and procedures to ensure quality control, quality of work, compliance with performance schedules and customer satisfaction. This section describes these policies and procedures. Copies of recent Letters of Appreciation from National Guard clients are provided to illustrate their satisfaction in our performance.

### Cost Control

GRW's experience with cost control for military projects began when the firm started serving the DOD in the early 1970's. Now, almost 40 years later, we prioritize this element of a project on an equal level with the quality of our work. We recognize the significance of cost control as a key measure in successfully executing projects, allowing our DOD clients to meet their own budget and schedule requirements and to receive design and construction funds in their programmed fiscal year.

We begin cost control in the early planning stages of each project, often during the Criteria Review Conference when the scope is resolved and the fee proposal is developed. At this time our Principle-In-Charge, the selected Project Manager and key discipline leaders meet with the Contracting Officer, Contracting Officer's Representative and other Design Working Group members at the installation to visit the project site, review available information, and develop an agreed-upon technical approach for the project.

This allows us to reduce design costs if, for example, recent site surveys or soils investigations negate the need for us to conclude these tasks as part of the project. Based on experience with similar projects, we also look to find ways to site-adapt facilities where possible and to re-use conceptual designs completed for similar projects.

### Quality of Work

The quality of our work is best demonstrated by the recognition we receive from the design profession and by the numerous awards our projects have won, both on a national and state level. Our projects have received awards from the US Air Force, the US Army Corps of Engineers, the American Institute of Architects, the American Council of Engineering Companies, and the US Environmental Protection Agency. Some of these awards are listed below:

- **DBIA Award** – Kentucky ARNG Armed Forces Reserve Center and Field Maintenance Shop, Paducah, KY
- **USAF Design and Construction Awards** – GA ARNG B-1B Beddown Plan; NV ANG Master Plan; USAF Academy General Plan; and Housing Redevelopment Plan, Kadena AB, Okinawa, Japan.
- **USAF Agent and Design Excellence Award** – PACAF Award for Housing Redevelopment Plan, Kadena AB, Okinawa, Japan.
- **USAF Citation Award for Planning Studies and Design Guides** – Nevada ANG Master Plan, Reno/Tahoe IAP, NV
- **ACEC Honor Award, Associated General Contractor's Excellence in Construction Award, AGC National Partnering Award, DBIA National Award, and three other awards** – US Penitentiary and Satellite Camp for US Bureau of Prisons, McCreary County, KY.





## Compliance with Performance Schedules

Schedule control begins at the Criteria Review Conference with the Design Working Group. We confirm the critical interim milestone dates for deliverables at this meeting. We also include dates for review comment feedback and progress meetings at the site. Dates are also established for Charrettes, both at the project site and at the JFHQ or NGB if needed. This schedule is verified in the project proposal and it becomes part of the Project Award and NTP.

We then prepare a Work Breakdown Structure (WBS) that subdivides each work element into manageable units of work, thus allowing all Project Team members to understand how their portion of a project fits into and coordinates with all of the other work elements being completed by others on the team.

This procedure has successfully allowed GRW to meet the National Guard's schedule requirements, even if it becomes necessary to accelerate the schedule due to delays in the TO Award or NTP. GRW understands the crucial importance of schedule maintenance on DoD projects, and we are committed to meeting your critical schedule milestones.

## Customer Satisfaction

GRW enjoys one of the highest percentages of repeat business in the A/E industry. Our clients recognize the superior quality of our work and the commendations we receive are a testament to the staff of GRW. We are continually rated by the industry journal *Engineering News-Record* and other professional publications as one of the best A/E firms in the country.

While our total revenues are not at the same level as firms with tens of thousands of employees, our clients have found that GRW's size has nothing to do with the firm's performance on their projects. Instead, it is the close, personal service provided by our staff; our frequent, focused communication; and our attention to detail that result in the repeat retention of GRW for new contracts and tasks.

This record is the result of hard work by the GRW management and staff. We accomplish these results by focusing on the following:

- **Providing dedicated, experienced project personnel** who are committed to meeting the challenges of providing innovative, cost-effective designs.
- **Training our staff** to ensure they have the most effective design tools available for use, while remaining current with our client's design criteria and the application of new building codes and other evolving standards.
- **Maintaining strong and frequent lines of communication**, not only among members of the design team but also with our clients' key stakeholders.
- **Following up with our clients after facility occupancy**, not just to see if there are any unresolved construction issues but correcting any problems and finding ways to operate and maintain facilities more economically and effectively.



These efforts have been acknowledged by GRW's many ANG and ARNG clients.

**"I would like to commend you for all of the excellent engineering services GRW has rendered to the 130<sup>th</sup> Airlift Wing. From the Communications Building to the Master Plan, GRW has shown the traits we look for in an A/E firm. You have shown a commitment to our unit by always going above and beyond our expectations. I look forward to working with you in the future."**

Lt Col John W. Dulin, Base Civil Engineer, 130<sup>th</sup> AW, WV ANG

**"I want to express my appreciation and gratitude for the highly successful design of our Lawrence Readiness Center. The process you used was extremely productive and efficient, due to the highly professional team assembled for this project and their willingness to meet our requirements and timeline. We are anxious to continue working with GRW."**

LTC Steven R. Hines, Facilities Management Officer, IN ARNG

**"I am pleased to highly recommend your firm to other states that are in need of a design team for ARNG facilities. Your team has been an excellent resource to us, and your architects, engineers and other staff are to be commended for their high level of expertise and professionalism."**

MAJ Brian S. Demers, AIA, Construction and Facilities Management Officer, KY ARNG

**"GRW worked tirelessly with the members of the 126<sup>th</sup> ARW during the design of our Flight Line Buildings. They stepped up to the challenge of the compressed schedule, completing each design phase in a timely manner. The acceptance of 'ownership' of this project resulted in an extremely good working relationship with the 126<sup>th</sup>."**

Lt Col William Mell, Base Civil Engineer, 126<sup>th</sup> AW, IL ANG, Scott AFB

**"The conversion of the GA ANG from F-15's to B-1B bombers and their relocation to Robins AFB was an extremely complex undertaking, further complicated by an expedited schedule. You not only met the schedule but also provided the base with an efficient Master Plan and facilities designs that are essential to us."**

Colonel Grant Smith, GA ANG

**"The Fuel System Maintenance and Corrosion Control Hangar designed by GRW was the best project ever done at this base, and was the only one done within budget and on time."**

Clarence Deason, Construction Manager BCE Office, KY ANG, Louisville

**"It's been a real pleasure working with you. What a difference it makes working with someone who knows how our side of the deal works vs. someone who doesn't. Thanks."**

MSgt Tina Kubik, Contracting Officer, 130<sup>th</sup>MSC/MSG, WV ANG

**The following pages include letters of appreciation written by  
several of our recent ARNG and ANG clients.**





**DEPARTMENT OF THE AIR FORCE  
130<sup>th</sup> CIVIL ENGINEER SQUADRON (AMC)  
1679 COONSKIN DRIVE  
CHARLESTON, WV 25311-5005**

30 September 2008

MEMORANDUM FOR Mr. Pete Johnson, Director-Military Programs, GRW Inc.

FROM: BCE

SUBJECT: Letter of Commendation

1. I would like to commend you and your company for all of the excellent engineering services that they have rendered the 130<sup>th</sup> Airlift Wing. From the Communications Building to the Master Plan, GRW has shown many of the traits that we look for in an Architectural/Engineering Firm. They have shown their patients with our never ending changes and have each time rose to the occasion and offered us outstanding solutions. They offer their engineering and personal expertise ensuring successful completion on each project. They have shown their commitment to our unit by always going above and beyond our expectation.
2. GRW and its employees should be proud of the professional services that they have given to our unit and the nation; I know that I am extremely proud to have had them on our projects. I look forward to working with you and your team in the future.

  
JOHN W. DULIN, LtCol, WVANG  
Base Civil Engineer





**DEPARTMENT OF THE ARMY**  
**HEADQUARTERS, KENTUCKY ARMY NATIONAL GUARD**  
**BOONE NATIONAL GUARD CENTER**  
**100 MINUTEMAN PARKWAY**  
**FRANKFORT, KENTUCKY 40601-6168**

25 May, 2007

Mr. Pete Johnson, PE  
Director of Military Programs  
GRW, Inc.  
801 Corporate Drive  
Lexington, KY 40503

RE: GRW Architectural and Engineering Services  
Armed Forces Reserve Center and Field Maintenance Shop  
KY ARNG, Blue Grass Army Depot, Richmond, KY

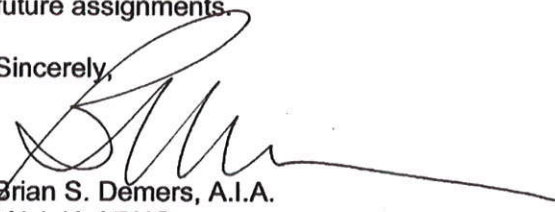
Dear Mr. Johnson:

I am pleased to write this **Letter of Recommendation** on behalf of the Kentucky Army National Guard for the excellent A/E services that GRW has provided for the development of the Design/Build documents for the Blue Grass Army Depot AFRC and FMS project.

Your firm has demonstrated excellent an understanding and knowledge of the requirements for this project and you have provided us with outstanding service whenever we have called on your firm to respond to our needs. Your design team has been an excellent resource for us, and your architects, engineers and other staff members are to be commended for their high level of expertise and professionalism. We look forward to a continuing relationship with GRW on this project and others in the future.

I will be pleased to highly recommend your firm to other states that are in need of a design team for ARNG facilities. Please do not hesitate to us me as a reference for such future assignments.

Sincerely,

  
Brian S. Demers, A.I.A.  
MAJ, KyARNG  
Construction and Facilities Management Officer  
Kentucky Army National Guard  
(502) 607-1481





INDIANA  
JOINT FORCES HEADQUARTERS  
NATIONAL GUARD  
2002 SOUTH HOLT ROAD  
INDIANAPOLIS, INDIANA 46241-4839



9 October 2008

JFHQ-IN-FMO

PETER F. JOHNSON, P.E.  
Director of Military Programs  
GRW, Inc.  
801 Corporate Drive  
Lexington, KY 40503

Dear Mr. Johnson

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. There 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 of this facility.

Sincerely

A handwritten signature in black ink, appearing to read "S. Hines", with a long horizontal flourish extending to the right.

Steven R. Hines  
Facilities Management Officer  
Indiana Army National Guard





**INDIANA AIR NATIONAL GUARD**  
**HEADQUARTERS 122D FIGHTER WING (ACC)**  
**FORT WAYNE INTERNATIONAL AIRPORT (IAP)**  
**FORT WAYNE INDIANA 46809-3158**

1 September 2010

Lt Col James W. Starnes  
Base Civil Engineer and Commander  
122nd CES, Indiana Air National Guard  
3005 Ferguson Road  
Fort Wayne, IN 46809

Peter F. Johnson, PE, LEED AP  
Director of Military Programs  
GRW Engineers, Inc  
801 Corporate Drive  
Lexington, KY 40503

RE: Letter of Recommendation

Dear Mr. Johnson:

It is with pleasure that I highly recommend GRW Engineers, Inc. for A/E services. Your staff has provided, and continues to provide, exceptional service to the Indiana Air National Guard on projects such as our Security Forces Facility, our Installation Development Plan and our Aircraft Shelter project. Whether you have been tasked with planning services, design or construction administration for our projects, GRW has exceeded our expectations by continuously providing the expertise and guidance we have needed.

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.

Your work has been appreciated by my staff and the leadership of the 122<sup>nd</sup> Fighter Wing. Please do not hesitate to refer future clients to me for further details. I can be reached at 260-478-3252 or [james.starnes@ang.af.mil](mailto:james.starnes@ang.af.mil).

A handwritten signature in black ink, appearing to read "J. Starnes", with a long horizontal flourish extending to the right.

JAMES W. STARNES, LT COL, INANG  
Base Civil Engineer



**DEPARTMENT OF THE AIR FORCE**  
123D CIVIL ENGINEER SQUADRON

27 August 2010

Lt Col Phillip R. Howard  
Commander  
1101 Grade Lane  
Louisville, KY 40213

Mr. Pete Johnson  
Director of Military Programs  
GRW Inc.  
801 Corporate Drive, Suite 400  
Lexington KY 40503

Dear Mr. Johnson

Thank you for all the support on our most recent projects, the Installation Deployment Plan and the Contingency Response Group Facility. Your staff and sub-consultants continue to go the extra mile providing collaborative thought during decision making periods, expertise and guidance and accurate drawings and documents. GRW has exceeded our expectations in producing high quality, on time and cost-effective products for the Kentucky ANG.

We've come to expect high quality work, GRW delivered for us in the past on projects like our Fuel Cell Maintenance and Corrosion Control Hangar Facility, and many other smaller projects. Please accept my appreciation for your outstanding efforts.

Sincerely,

A handwritten signature in cursive script, reading "Phillip R. Howard".

PHILLIP R. HOWARD, Lt Col, KYANG  
Base Civil Engineer

cc: file



## 6.0 Proposal Forms

This section includes the forms required by the State's Purchasing Division, as indicated in the Request for Quotation. These forms include the following:

- RFQ Forms
- Purchasing Affidavit
- Addendum Acknowledgement





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

## Request for Quotation

RFQ NUMBER

DEFK12012

PAGE

1

ADDRESS CORRESPONDENCE TO ATTENTION OF:

TARA LYLE  
304-558-2544

RFQ COPY

TYPE NAME/ADDRESS HERE

GRW

801 Corporate Drive

Lexington, KY 40503

(800) 432-9537 / Fax (800) 223-8917

DIV ENGINEERING & FACILITIES  
ARMORY BOARD SECTION

1707 COONSKIN DRIVE

CHARLESTON, WV

25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS		
12/22/2011						
BID OPENING DATE: 02/07/2012		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-07		
A/E SERVICES						
EXPRESSION OF INTEREST (EOI)						
THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, DIVISION OF ENGINEERING & FACILITIES, WV ARMY NATIONAL GUARD, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ARCHITECTURAL ENGINEERING DESIGN SERVICES FOR A MAIL PROCESSING CENTER AND ID CARD ISSUE CENTER AT CAMP DAWSON LOCATED IN KINGWOOD, WV PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO TARA LYLE VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, VIA FAX AT 304-558-4115, OR VIA EMAIL AT TARA.L.LYLE@WV.GOV.						
DEADLINE FOR ALL TECHNICAL QUESTIONS IS 01/20/2012 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.						
CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE <i>Ken D. Silken</i>		TELEPHONE (800) 432-9537		DATE 02/03/2012		
TITLE President		FEIN 61-0665036		ADDRESS CHANGES TO BE NOTED ABOVE		

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





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

## Request for Quotation

RFQ NUMBER

DEFK12012

PAGE

2

ADDRESS CORRESPONDENCE TO ATTENTION OF:

TARA LYLE

304-558-2544

RFQ COPY

TYPE NAME/ADDRESS HERE

GRW

801 Corporate Drive

Lexington, KY 40503

(800) 432-9537 / Fax (800) 223-8917

DIV ENGINEERING & FACILITIES  
ARMORY BOARD SECTION

1707 COONSKIN DRIVE

CHARLESTON, WV

25311-1099

304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS		
12/22/2011						
BID OPENING DATE: 02/07/2012		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER:-----TL/32-----</p> <p>RFQ. NO.:-----DEFK12012-----</p> <p>BID OPENING DATE:-----02/07/2012-----</p> <p>BID OPENING TIME:-----1:30 PM-----</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY</p>						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE <i>Don D. Silberman</i>		TELEPHONE (800) 432-9537		DATE 02/03/2012		
TITLE President		FAX 61-0665036		ADDRESS CHANGES TO BE NOTED ABOVE		

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





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

## Request for Quotation

RFQ NUMBER

DEFK12012

PAGE

3

ADDRESS CORRESPONDENCE TO ATTENTION OF:

TARA LYLE

304-558-2544

RFQ COPY

TYPE NAME/ADDRESS HERE

GRW

801 Corporate Drive

Lexington, KY 40503

(800) 432-9537 / Fax (800) 223-8917

DIV ENGINEERING & FACILITIES  
ARMORY BOARD SECTION

1707 COONSKIN DRIVE

CHARLESTON, WV

25311-1099

304-341-6368

V  
E  
N  
D  
O  
RS  
H  
I  
P  
T  
O

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS		
12/22/2011						
BID OPENING DATE: 02/07/2012		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
TO CONTACT YOU REGARDING YOUR BID: Please contact Mr. Shane Lyle, AIA, CID ----- CONTACT PERSON (PLEASE PRINT CLEARLY): Mr. Shane Lyle, AIA, CID - GRW Vice President ----- 801 Corporate Drive, Lexington, KY 40503 (800) 432-9537; Fax (859) 223-8917 slyle@grwinc.com  ***** THIS IS THE END OF RFQ DEFK12012 ***** TOTAL: _____						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE <i>Ken D. Silveira</i>		TELEPHONE (800) 432-9537		DATE 02/03/2012		
TITLE President		FEIN 61-0665036		ADDRESS CHANGES TO BE NOTED ABOVE		

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



000015

RFQ No. DEFK12012STATE OF WEST VIRGINIA  
Purchasing Division**PURCHASING AFFIDAVIT**

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

**DEFINITIONS:**

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

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

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

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

**WITNESS THE FOLLOWING SIGNATURE**Vendor's Name: GRWAuthorized Signature: Ken D. Silbert Date: 02/03/2012State of KentuckyCounty of Fayette, to-wit:Taken, subscribed, and sworn to before me this 3 day of Feb., 20 12My Commission expires July 6, 20 14

AFFIX SEAL HERE

NOTARY PUBLIC

Chris Grobbs



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

## Request for Quotation

RFQ NUMBER

DEFK12012

PAGE

1

ADDRESS CORRESPONDENCE TO ATTENTION OF:

TARA LYLE  
304-558-2544

RFQ COPY

TYPE NAME/ADDRESS HERE

GRW

801 Corporate Drive

Lexington, KY 40503

(800) 432-9537 / Fax (800) 223-8917

DIV ENGINEERING & FACILITIES  
ARMORY BOARD SECTION

1707 COONSKIN DRIVE

CHARLESTON, WV

25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS		
01/20/2012						
BID OPENING DATE: 02/07/2012		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
1. QUESTIONS AND ANSWERS ATTACHED.						
2. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID.						
END OF ADDENDUM NO. 1						
001	1	JB		906-07		
A/E SERVICES						
***** THIS IS THE END OF RFQ DEFK12012 ***** TOTAL:						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE <i>Ken D. Gilman</i>		TELEPHONE (800) 432-9537		DATE 02/03/2012		
TITLE President		FEIN 61-0665036		ADDRESS CHANGES TO BE NOTED ABOVE		

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



**DEFK12012****ADDENDUM NO. 1****Questions:**

Q1: We frequently submit our printed responses in a spiral bound format. Would something like that be acceptable?

A1: A spiral bound format is acceptable.

Q2: We are required to submit two originals and it says in a paper notebook. Would you clarify what that means please (loose leaf in a three ring binder, printed and not bound, printed, bound without a slick/hard cover, etc).

A2: The proposals may be submitted in a three-ring binder or spiral bound format. Just be sure to send two (2) original copies plus one (1) CD containing a single PDF file.

\*\* The bid opening remains 02/07/2012 at 1:30 pm. \*\*

EXHIBIT 10

REQUISITION NO.: DEFK12012

ADDENDUM ACKNOWLEDGEMENT

I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED  
ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY  
PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.

ADDENDUM NO.'S:

NO. 1 ☒

NO. 2 .....

NO. 3 .....

NO. 4 .....

NO. 5 .....

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE  
ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS. VENDOR  
MUST CLEARLY UNDERSTAND THAT ANY VERBAL  
REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY  
ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES  
AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE  
INFORMATION ISSUED IN WRITING AND ADDED TO THE  
SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.



SIGNATURE

GRW

COMPANY

02/03/2012

DATE

REV. 11/96