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Expression of Interest

Professional Consulting Services WVARNG Statewide Installation Master Plan Solicitation No.: CEOI ADJ2100000003

West Virginia Department of Administration West Virginia Army National Guard

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GRW | engineering | architecture | geospatial
801 Corporate Drive | Lexington, KY 40503
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August 19, 2020

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

**RE: WVARNG Statewide Installation Master Plan
Solicitation No.: CEOI ADJ2100000003**

Dear Ms. Lyle and Selection Committee Members:

Achieving the goals you've established to complete the WVARNG Statewide Installation Master Plan is important for the West Virginia Army National Guard's mission. GRW would like to work with you on this project – and we believe we offer you the right experience and expertise to successfully delivery the results you require.

Experience and Familiarity. GRW is a full-service A/E design consulting firm that has been working with clients like you on similar projects throughout the region for more than 50 years. For your upcoming master planning project, we've augmented our team with John Gallup & Associates (JG&A), an SDVOSB specializing in military planning and programming support. The firm's John Minter and Rick D'Arienzo, both experienced master planners and certified AICPs, will play key roles on our team in the development of your proposed Master Plan and related services.

Our project team's experience with the National Guard is substantial and ranges from projects for both the West Virginia Army and Air National Guard, as well as planning services for National Guard and other military locations around the country. **See Sections 1.0 and 2.0.** JG&A's Mr. D'Arienzo, a former GRW employee, was part of the GRW team during the completion of several master planning assignments for National Guard installations in Arizona, Hawaii, Indiana, Kentucky, North Dakota, and Utah. Several of these projects are included in Section 2.0.

GRW and its subsidiary Chapman Technical Group (offices in St. Albans and Buckhannon, WV) also have extensive experience in developing projects through the WV Purchasing Division. Our combined experience with the WVARNG and the State's Purchasing Division will help ensure effective and efficient project delivery.

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

Thank you for your consideration and for the opportunity to work with you. We look forward to the next step in your selection process where we can present our additional ideas toward the successful completion of your project. If you have questions about our qualifications or any other items, please feel free to call or email.

Respectfully submitted,

A handwritten signature in black ink that reads "Shane Lyle".

Shane Lyle, AIA, LEED AP BD+C
GRW Architect / Vice President

859-223-3999, ext. 251
slyle@grwinc.com

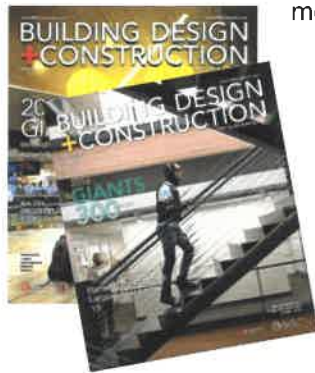
1.0 GRW Introduction & Experience with West Virginia National Guard

About GRW

Founded more than 50 years ago, GRW is an employee-owned architectural, engineering and geospatial services firm with more than 200 employees.

At GRW, we have the ability to address your projects from nearly every angle. Because of our in-house capabilities, we can more easily tailor our approach allowing our teams to deliver more quickly, with greater potential for accurate cost estimates, and fewer change orders.

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



more



Our Corporate Culture

Our corporate culture is one of close collaboration with an approach that gives our project managers and their project teams a hands-on approach, as needed, from planning through construction phases.

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

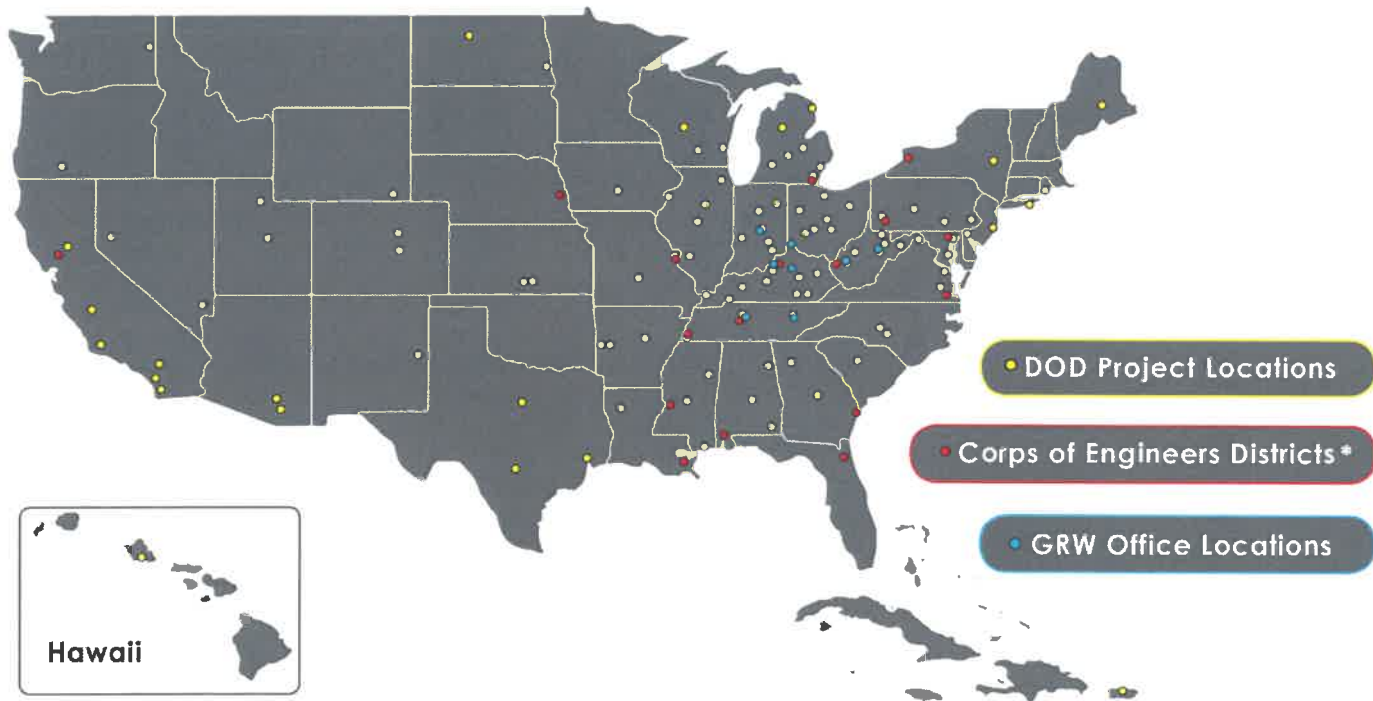


Department of Defense Experience

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



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



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

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 Squadron Operations Facility Repair, Charleston, WV

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

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

– Complete architectural and engineering Type A, B and C services for \$2 million renovation of 5,395 SF SFS facility (B142) including addition of 2,500 SF administrative and training space to better serve unit. Project (MILCON/SRM split funded) increases space and improves mission performance and operational efficiency for command and administrative functions in ways that are energy

efficient, code compliant and in accordance with current ANG policies. Project meets LEED Silver design criteria, and all AT/FP and ADAAG requirements.

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

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

West Virginia ANG 167th Airlift Wing C-5 Apron Repair, Martinsburg, WV

– Evaluation and design services to repair fractured/heaved C-5 apron caused by poorly draining base and sub base. Pavement repair of approximately 1,755 SY included demolition and removal of fractured and heaved pavement down to below original base and sub base, compaction of new material, placing of sub base and base and concrete pavement parking apron, asphalt shoulder stabilization, all constructed to support C-5 aircraft.

West Virginia ANG 167th Airlift Wing C-17 Fuel Cell Hangar Modifications, Martinsburg, WV

– Fast-track design of fuel cell hangar modifications required to meet 167AW's change in mission from C-5 to C-17 aircraft.

West Virginia ANG 167th Airlift Wing C-17 Maintenance Hangar Modifications, Martinsburg, WV

– Fast-track design of maintenance hangar modifications required to meet 167AW's change in mission from C-5 to C-17 aircraft.

West Virginia ANG 167th Airlift Wing C-17 Composite Material Shop, Martinsburg, WV

– Fast-track design of composite material shop to the existing corrosion control hangar required to meet 167AW's change in mission from C-5 to C-17 aircraft.

West Virginia ANG 167th Airlift Wing C-17 Corrosion Control Hangar Modifications, Martinsburg, WV

– Fast-track design of corrosion control hangar modifications required to meet 167AW's change in mission from C-5 to C-17 aircraft.

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

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

Master Planning Subconsultant | John Gallup & Associates



GRW is pleased to introduce our master planning subconsultant John Gallup & Associates, LLC (JG&A). The firm has produced 22 Real Property Development Plans for the US Army Reserve spanning major metropolitan areas, including Baltimore, MD and Washington, DC.

Additionally, JG&A has produced Area Development Plans (ADPs) for all four United States Regional Support Commands and multiple state-wide planning analyses.

Since 2000, JG&A has completed 96 task orders for USACE-Baltimore District, most of which were performed at locations within the State of Maryland.

JG&A has the experience to conduct facility conditions assessments analyze existing and future mission requirements and develop alternative development courses of action to prioritize short-range planning actions and mobilize for long-range project funding.



Among the many planning products JGA has executed are the following:

- | | | |
|------------------------------|--------------------------|--------------------------------|
| ▪ Real Property Master Plans | ▪ Economic Analysis | ▪ GIS Analysis |
| ▪ Planning Charrettes | ▪ DD Forms 1391 | ▪ Metroplex Studies |
| ▪ Requirements Analysis | ▪ Area Development Plans | ▪ Regional Consolidation Plans |

JG&A has successfully completed 246 Task Orders for Federal Clients during the past 20 years-including:

- | | | |
|----------------------------------|---------------------------------|---------------------------------------------------------|
| ▪ Installation Development Plans | ▪ AT/FP Studies | ▪ Reuse Studies |
| ▪ Design Guidelines | ▪ Programming Support Documents | ▪ DD Forms 1391 |
| ▪ Area Development Plans | ▪ Energy & Sustainability Plans | ▪ Economic Analyses, and other various planning actions |
| ▪ Feasibility Studies | ▪ Landscape & Forestation Plans | |
| ▪ National Cemetery Design | | |

Key Personnel

JG&A employs several experienced planners, including John Minter and Rick D'Arienzo, who are key members of our proposed WV ARNG GRW project team. Full resumes are provided in **Section 3.0**. JG&A's D'Arienzo, a former GRW employee, worked with the GRW team during the completion of several master planning assignments for National Guard installations in Arizona, Hawaii, Indiana, Kentucky, North Dakota, and Utah.



John Minter, AICP, CNU-A, LEED AP ND (Project Manager / ADPs / RAs / PCs): Mr. Minter, Principal of JG&A, has a combined 13 years of military and planning / programming experience and served as Project Manager for

every planning and design project JG&A has produced over the last five years including 44 ADPs / IDPs, 13 RAs, 29 complete DD Form 1391s, and 6 Full EAs. Mr. Minter's background lies in urban design and Geographic Information Systems (GIS) analysis. John served as a member of the Army for five years, honorably discharged at the rank of Captain.



H. Rick D'Arienzo, AICP, PLA (ADPs / RAs / PCs) Mr. D'Arienzo brings more than 39 years of diversified experience in Master Planning, project programming, and project management. He has served as Program/Project

Manager for three consecutive CEHNC MATOC contracts, providing high quality deliverables and customer service in compliance with project schedules. He served as a member of the US Armed Forces on Active Duty, in the Reserve, and in the National Guard for over 30 years, retiring in the grade of Colonel.

2.0 Project Experience

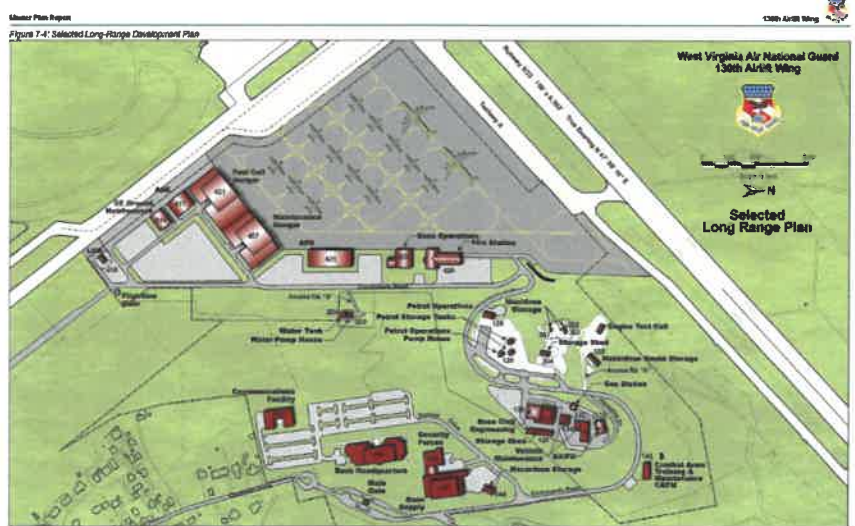
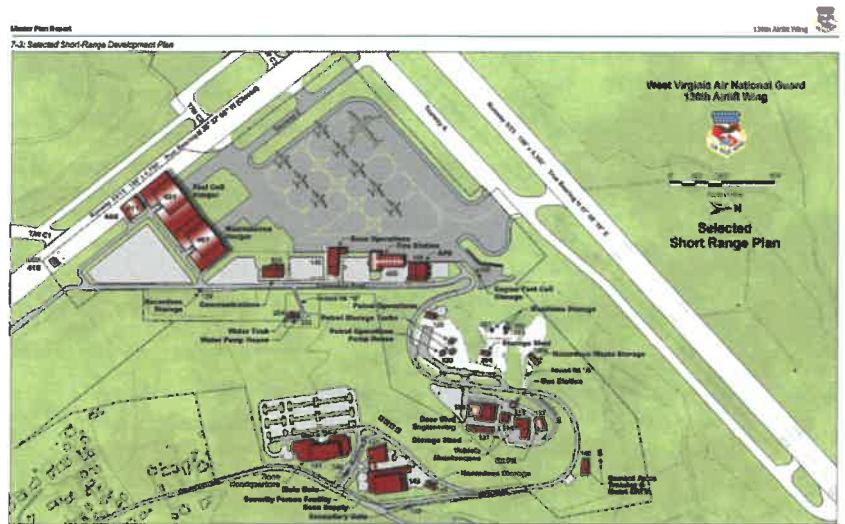
130th Airlift Wing Master Plan Update and CIP

West Virginia Air National Guard | Charleston, WV

GRW prepared a Web-Enabled Master Plan Update for the 130th Airlift Wing in Charleston. A GeoBase Common Installation Picture (CIP) was also provided. The purpose of the Master Plan was to evaluate benefits and impacts associated with acquiring additional airfield property. The Plan determined the best use of the additional property for aircraft parking, operations, and maintenance facilities. In addition, the Plan addressed the following elements:

- Identification of constraints and opportunities that apply to the 130th AW aircraft parking, operations and maintenance areas, including Anti-Terrorism/Force Protection (AT/FP) measures,
- Tabulation of the existing and required airfield facilities,
- Development of new alternatives for the long- and short-range plans, and
- Creation of plan tabs that depict the constraints and opportunities, the long- and short-range development plans, the land use and circulation plan, the real estate plan, and the facility utilization plan.

The Master Plan Update provided long- and short-range development alternatives that meet or exceed the proposed development plans for the 130th AW. The proposed long-range alternatives for the 130th AW included a PAA of twelve C-130J-3 aircraft, and two C-5A aircraft. The short-range alternative proposed a strategy to best support the current mission of the 130th AW.



The information provided in this Master Plan Update will facilitate the 130th AW in their decision making as to which alternatives best fit the long- and short-range missions of the 130th AW.

Client Contact: Capt Harry Netzer, Deputy BCE, West Virginia Air National Guard, (304) 341-6649, harry.g.netzer.mil@mail.mil

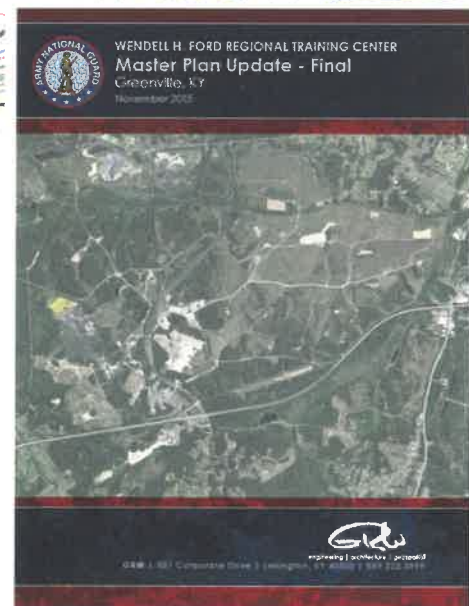
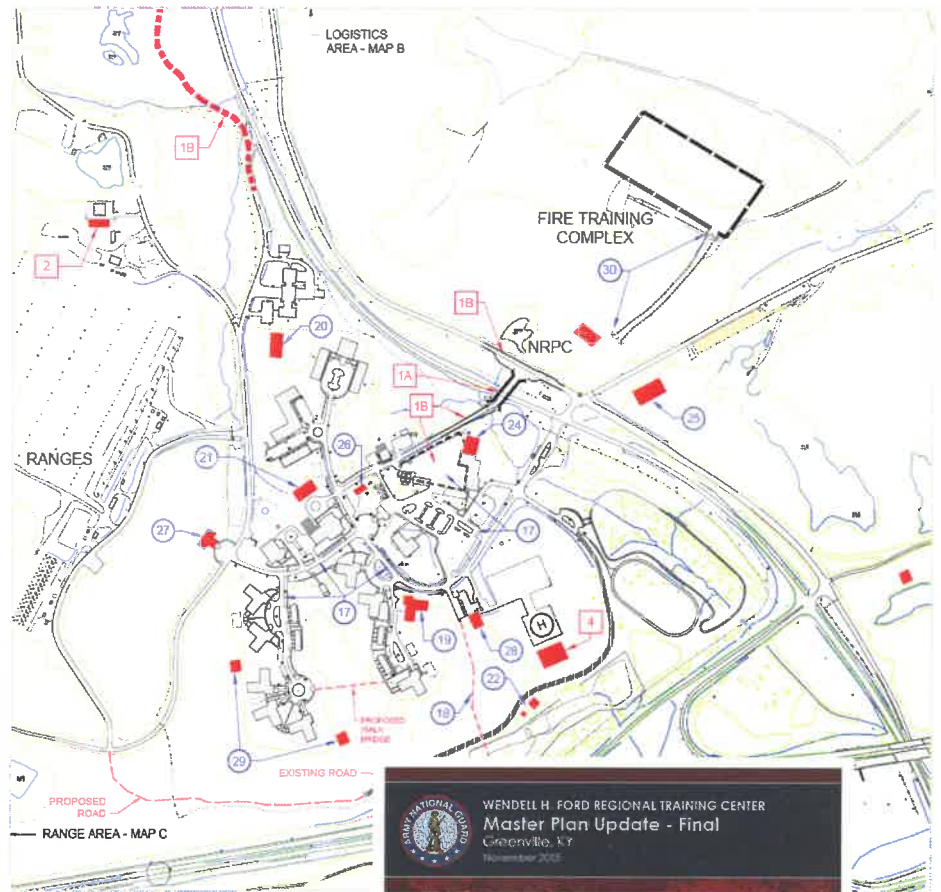
Wendell H. Ford Regional Training Center Master Plan Update Kentucky Army National Guard | Frankfort, KY

GRW updated the existing master plan for the Wendell H. Ford Regional Training Center located in Greenville, KY. Constructed on 8,500 acres of reclaimed strip-mine land, the training center has complete year-round accommodations including barracks and quarters for nearly 500 troops, a 400-seat dining hall, a drill hall, and a modern learning center for computer simulator training. The site also features live-fire ranges, hardened bivouac sites, a controlled humidity storage complex, complete maintenance facilities for military equipment, engagement skills training center, obstacle course and a 4,200-foot grass runway.

Work for the master plan update included the analysis of expansion for:

- Utilities
- Cantonment
- Range facilities
- Training barracks
- Maintenance and warehouse facilities

Client Contact: David Parker, PE, LSIT, LEED AP,
Master Planner, Kentucky Army National Guard, (502)
607-1770, david.m.parker147.nfg@mail.mil



Camp Dawson Volkstone Training Area Utility Upgrade West Virginia Army National Guard | Charleston, WV

Camp Dawson training complex near Kingwood, West Virginia. Volkstone is located west of the Camp Dawson main cantonment area and across the Cheat River. The WV ARNG hired **GRW** to design the extension to current and future areas of the Volkstone training facility.

The scope included sewer (1,996 LF), water (1,751 LF), and electric (1,797 LF) to all existing and future buildings, unit training equipment site (UTES) and wash rack locations. This project also includes design of Forward Operating Base (FOB) including 20 14' x 16' wooden buildings, new bath house for approximately 200 people and pavilion.

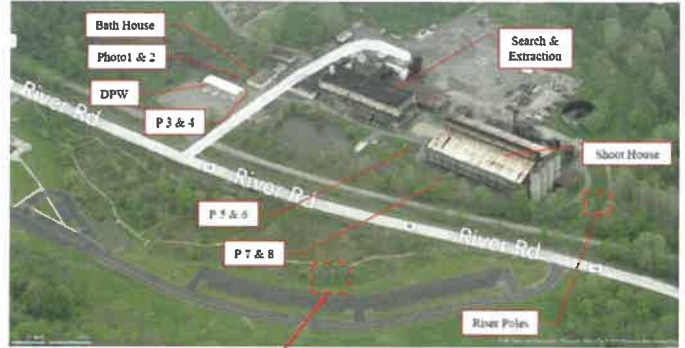
Design of water and sewer to the following:

- Existing Search and Extraction Building
- Existing Bath House
- Existing DPW Storage Building
- Future Barracks FOB Shower House

Water service is provided by extending the existing 6" water main, located near the Search and Extraction Building, to the edge of the CERF-P area and terminate at a fire hydrant there. Service lines for other areas will be extended off this main line. Water supply is provided to the FOB Shower House planning for 60 people at a time. Based on industry standards for this type of facility it is expected each person will use an average of 40 gallons per day (GPD). This is an average daily usage of at least 2,400 GPD.

Sewer service is provided by extending the existing sewer mains when possible. This main is located near the Search and Extraction building. The addition of a new pump station to serve the areas will be considered if the existing system is not capable of servicing the expanded areas. The scope of the sewer main work terminates at a stub-up near the buildings with new water and sewer service.

The existing three phase underground Volkstone power distribution system was expanded to



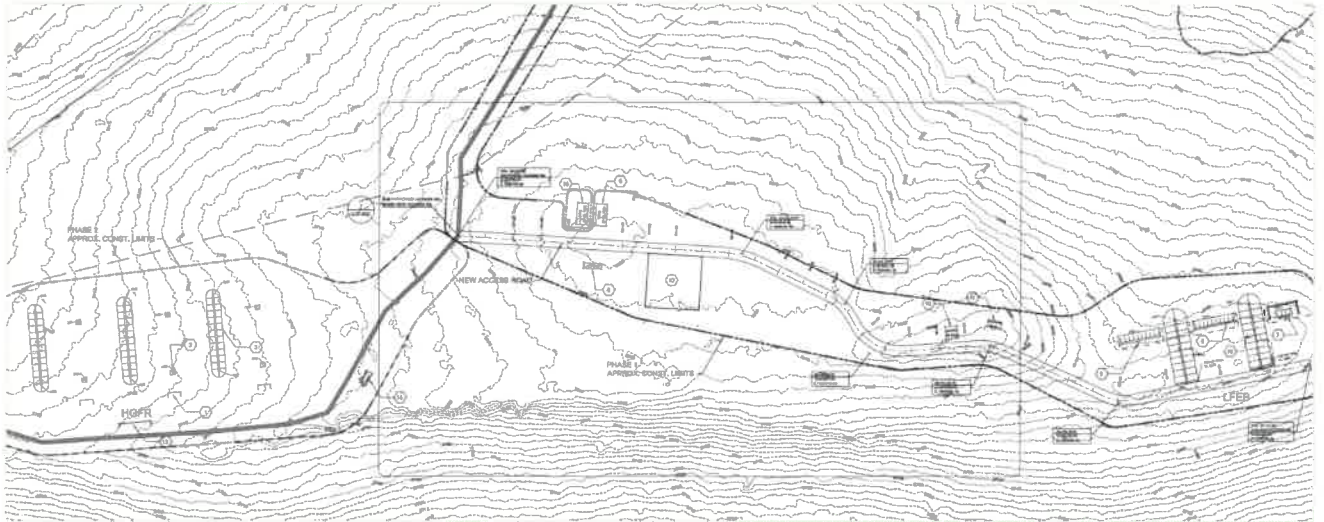
accommodate all existing and future structures and training areas including:

- Existing Search and Extraction Building
- Future FOB Headquarters Building
- Future FOB Barracks
- Future FOB Shower House
- New waste water pump station

Provisions for power to a future automated front gate will be installed in the future. All services will be either 240/120 volt or 208/120 volt single phase except the Search and Extraction Building which will be 480/277 volt, three phase and the DPW Storage Building which has an existing 208/120 volt, three phase service. The design complies with current West Virginia State codes.

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

Camp Dawson Ranges at Briery Mountain West Virginia Army National Guard | Charleston, WV



The scope of work for this project completed by **GRW** included the design and construction of a new Hand Grenade Familiarization Range and Live Fire Exercise Breach (LFEB) Training Range at the Briery Mountain Training Area to conform the site to government standard Breach Range Design Requirements. The project required construction of an access road to the remote site, electrical connections, breaching structures, open covered range operations and control shelter, storage building, dry latrine, covered viewing stands, and a parking area.

The project design schedule was nine months, including the design charrette, document development submittals and government reviews, one of which was on-site with user group representatives. The project was divided into seven

Contractor Performance Assessment Report (CPAR) from Contracting Officer Matthew Corcoran:

- Quality: Exceptional/Outstanding Overall Job
- Schedule: Exceptional/Outstanding Overall Job
- Cost Control: Exceptional/Outstanding Overall Job
- Management: Exceptional/Outstanding Overall Job
- Regulatory Compliance: Exceptional/Outstanding Overall Job

(Same ratings given for both Camp Dawson - Briery Mountain & Volkstone - projects)

additive bid options to enable the government to maximize the construction to available funds, avoid rebidding and as a hedge against an unpredictable construction market. Once bid, the construction schedule was developed to avoid disruption of an endangered species nesting cycle.

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

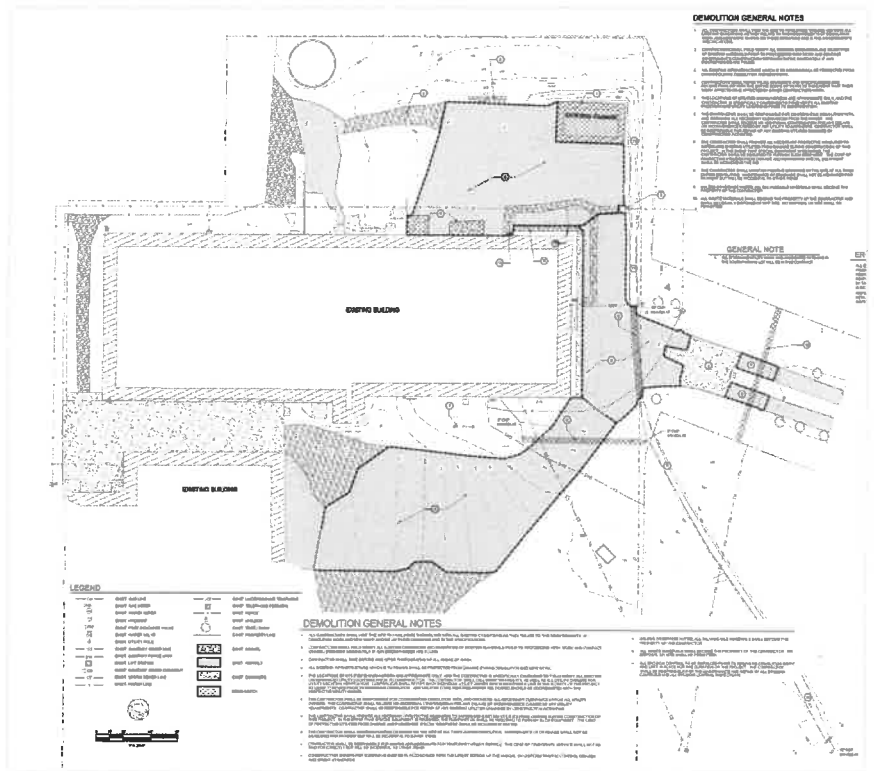
West Virginia Army National Guard Martinsburg Secure Facility West Virginia Army National Guard | Charleston, WV

GRW is designing renovations for a secure facility located adjacent to the Eastern WV Regional Airport in Martinsburg, WV.

The purpose of the renovation is to provide new secure office space, and related support spaces, for a specific using agency. The main renovated area is on two upper levels, containing approximately 6,200 SF per level.

The scope includes:

- Demolition of existing interior finishes and other improvements within the renovation area
- Complete replacement of the existing non-operational HVAC system with a new energy-efficient system
- New interior finishes throughout the areas, including raised access flooring throughout the renovated areas
- New structural roof deck and roofing system
- New elevator and fire stairs
- New site security fencing, sliding vehicular security gates, exterior parking, walkways, site utility improvements, and storm drainage improvements
- New building security and cameras



Client Contact: Matthew Reynolds, Deputy Branch Chief - Design & Construction, West Virginia Army National Guard, (304) 561-6568, matthew.t.reynolds18nfg@mail.mil

Alabama Army National Guard | Statewide Real Property Development Plan Alabama National Guard | Montgomery, AL

John Gallup & Associates (JG&A) led all efforts for this Statewide Real Property Development Plan (RPDP), which was intended to guide both short- and long-range development plans, programs, and objectives for the ALARNG. This effort reevaluated and updated state-level RPDP data to reflect facilities and real property holdings owned, leased, occupied and under control of the ALARNG.

This document provides updated existing conditions information, analysis, facility requirements analysis, and potential future development and is based on government furnished data supplemented by site investigations and interviews.

A survey of 95 locations was completed in January 2007. Existing facilities included within the study comprise approximately 4,380,919 gross square feet of space and 1,134 acres of property. The GPS field surveys determined that a significant amount of facility space and paved surfaces are currently not accounted for in the ALARNG Real Property Report. It was determined that approximately 444,480 gross square feet of additional building area and an additional 697,333 square yards of pavements exist that are not presently accounted.

This being the case, the ALARNG CFMO may be eligible to request additional sustainment funds beyond existing entitlements to properly maintain these existing assets. Using sustainment cost figures found in the July 2007 DoD Pricing Guide, an additional \$1.4 million may be warranted for facility sustainment and an additional \$382k may be warranted to maintain existing pavements. In total, an



additional entitlement of approximately \$1.8 million annually was discovered as a direct result of this study.

Effective military facility planning is a continuing process that responds to changes in missions, force structure, funding sources and levels, and political decisions. The RPDP was designed to facilitate the ALARNG planning process, identify solutions in both short- and long-range development, and provide an accurate accounting of Real Property assets.

Client Contact: CPT Michael L. Levingston, CFMO - Plans & Programs, Joint Forces HQ – Alabama; (334) 270-2932

Mobilization Training Center (MTC) Area Development Plans (Fort Hood, TX; JB Lewis-McChord, WA; Fort Bliss, TX; Fort Knox, KY; Army Support Activity Dix, NJ; Camp Atterbury, IN; Camp Shelby, MS) Installation Management Command (IMCOM) through Huntsville Engineering & Support Center



JG&A completed these Area Development Plans (ADPs) to effectively guide phased military construction in further developing enduring Mobilization Training Center (MTC) capabilities at seven locations throughout the nation.

Facilities are primarily needed to accommodate mobilization and demobilization activities for the Army National Guard (ARNG), Army Reserve, and Active Army Soldiers. Facilities will also support Annual Training (AT) for Army Reserve and ARNG Soldiers.

The documents define and illustrate real property planning for each MTC, and they specify development priorities and construction phasing that correlate with installation facility programming. The ADP serves as a roadmap to steer short- and long-range development and to provide an implementable capital investment strategy.

Each individual ADP proved to be a unique and comprehensive study. Although facilities requirements were similar for all locations, the way those requirements were accommodated differed based on availability and condition of existing assets.



Additionally, the setting varied dramatically from installation to installation. Differences were overcome using a consistent planning approach that was applied at each installation.

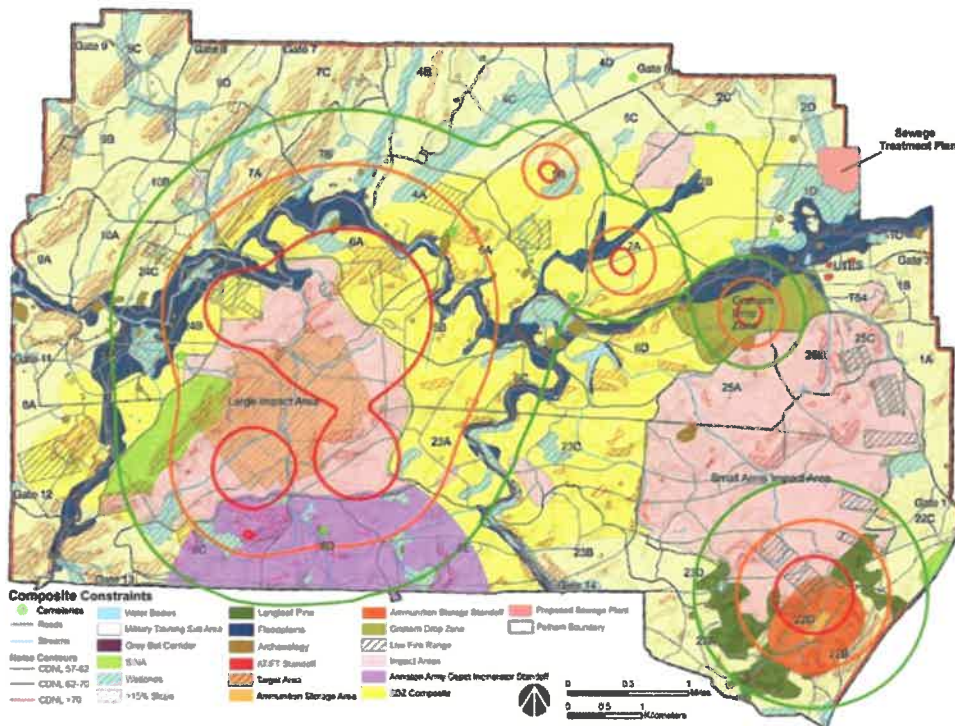
Use of a repeatable planning/design process at each installation led to a high-quality product that achieved user participation and endorsement.

Client Contact: Mr. J.D. Cabbage, Project Manager,
Huntsville Engineering & Support Center;
(502) 624-2889

Range Complex Master Plan (RCMP) for Pelham Range Alabama Army National Guard| Fort McClellan, AL

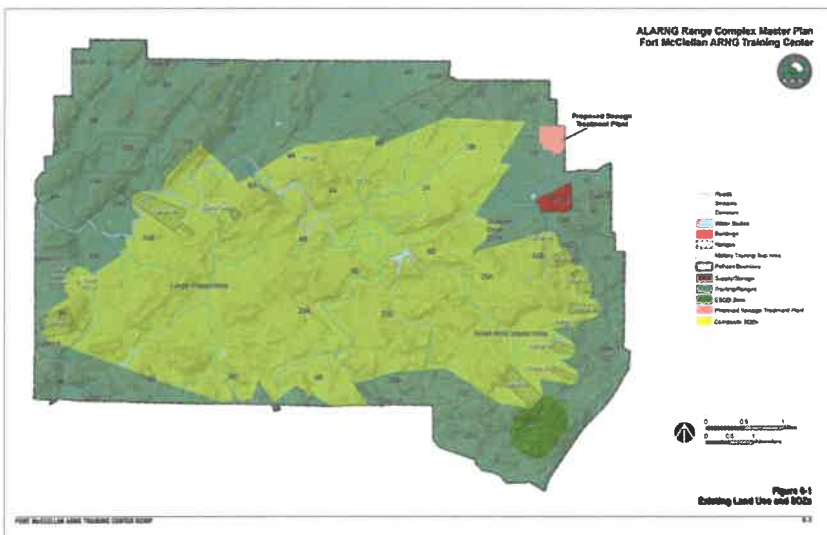
JG&A prepared a Range Complex Master Plan (RCMP) for the Alabama Army National Guard's 23,000-acre Pelham Range, located at the Fort McClellan Army National Guard Training Center.

RCMP requirements are outlined in accordance with Army Regulation (AR) 350-19, The Army Sustainable Range Program, and the associated Range and Training Land Program (RTLTP) Generic Methodology (GM). A baseline for the type and quantity of standard ranges to meet training requirements was determined, and training land requirements were then calculated.



The RCMP methodology achieved the desired objective of determining training needs and requirements by applying a standardized comprehensive utilization, requirements and alternatives analysis. As applied, the process methodology determined what training assets (ranges and training land) exist; their individual capacities; their utilization; and known operational and environmental constraints that are unique to Pelham Range.

The RCMP identified tenant units, proposed relocation of units, and projected changes in the facility training mission. The RCMP also assessed anticipated changes in transient units to include units identified for transformation and future potential increases or decreases in the overall number of units (to include influx in manpower) that traditionally utilize FM-ARNGTC as a training station.



that traditionally utilize FM-ARNGTC as a training station.

The assessment of the statewide range and training facilities identified required changes in number of live-fire ranges, types of ranges, and new training facilities in order to ensure tenant and transient units continue to train to Army standards.

Client Contact: CPT Michael L. Livingston, CFMO - Plans & Programs, Joint Forces HQ – Alabama; (334) 270-2932

Camp Withycombe Site Development Plan (SDP) Oregon Military Department | Camp Withycombe, OR



JG&A served as master planner for the Oregon Military Department (OMD)'s Site Development Plan (SDP), which fosters deliberate planning for required programming actions, and proposes a logical pace of development projected over the next 25 years.

The Camp Withycombe site comprises a total of 77 acres. It was originally a much larger active military training site; however, 156 acres of the northern portion of the site was recently transferred to the Department of Transportation to facilitate development of the Sunrise Corridor highway. The western portion of the Installation is primarily composed of a 215,382 GSF Armed Forces Reserve Center and supporting facilities, while the eastern portion of the Installation is primarily industrial in nature, composed of maintenance facilities and compound areas.

The SDP incorporated a Visioning Charrette, which culminated in the creation of a SDP Vision Statement and supporting goals and objectives to guide the development of alternative courses of action and eventually gain consensus on a preferred development plan.

The SDP includes Area Development Plans for the Maintenance and Logistics District to ensure the ability to accomplish various State missions on a much smaller footprint.

A variety of alternative development concepts were evaluated to determine how best to fulfill established goals. The Preferred Course of Action includes phased development plans and a Capital Investment Strategy with 20 essential short- and long-range projects.

Client Contact: Ms. Joanne Manson, Oregon Military Department; (583) 504-3560

The National Capital Region (NCR) Area Development Plan (ADP) | US Army Reserve Installation Management Directorate (ARIMD) | National Capital Region (NCR)

JG&A, as joint venture partner, produced a regional development plan for US Army Reserve (USAR) facilities in the Baltimore and Washington, D.C. metropolitan areas.

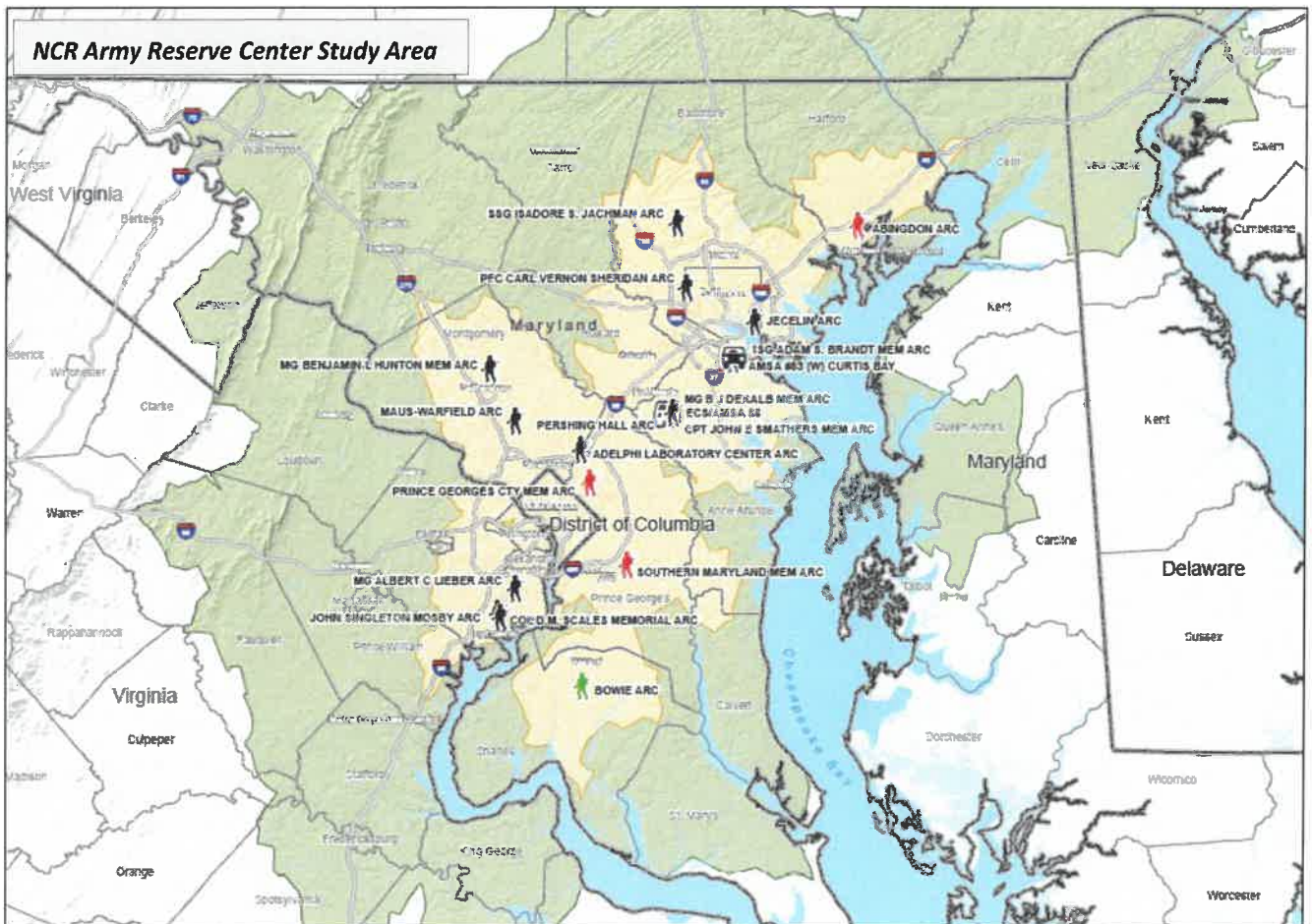
The ADP serves to update and consolidate the Baltimore Metroplex Plan (August 2007) and the Washington DC Metroplex Plan (January 2008) through analysis of force structure, space utilization data, and facility condition. The ADP proposes rebalancing unit assignments to maximize use of existing facilities, while identifying several development sites to relieve overcrowded conditions and accommodate future anticipated growth. It also identifies several non-enduring facilities as disposal candidates.

Land use, environmental constraints, and traffic patterns were all analyzed in providing the groundwork for the development of alternative courses of action.

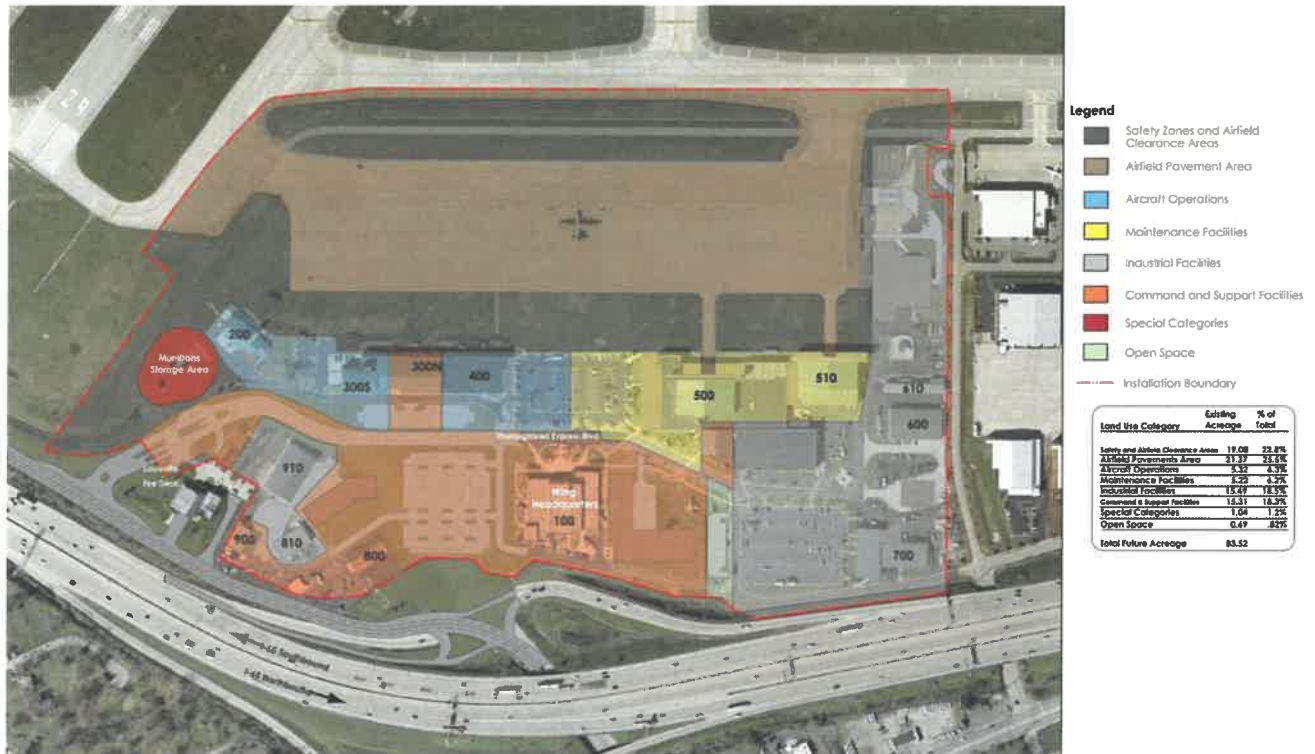
The ADP includes site surveys and multiple charrettes with USAR, 99th RSC, and user-level stakeholders to ensure the CoAs and Preferred Development Plan align with mission objectives and vision set forth by the 99th RSC. One key component of the ADP is a strategy to maximize existing Special Compartmented Information Facility (SCIF) space within the DeKalb ARC and optimizing training and operations space for the Military Intelligence Readiness Command (MIRC) assigned to Mosby ARC at Fort Belvoir, Virginia

GIS applications were used to determine Soldier 20- and 60- minute drive-sheds for recruiting potential and Soldier retention. The ADP assessed 16 USAR sites in the State of Maryland and three in Virginia.

Client Contact: Mr Sean L. Martin, AICP, PMP Senior Planner-Master Planning Team, Installation Support Division, CEMP-CI-P, HQ US Army Corps of Engineers, (202) 761-5876



123rd Airlift Wing Installation Development Plan and CIP Kentucky Air National Guard | Louisville, KY



GRW provided a series of master planning services for the Air National Guard under the firm's nationwide A/E services IDIQ contract with the National Guard Bureau. These master plans are updates to previous plans many of which were previously done by GRW several years ago. The updated plans are all web-based documents which allow the installation to update and modify the plans with their own resources over time as mission changes and planned facilities are built.

The 123rd AW had never updated its initial plan since relocating to the south side of the Louisville International Airport in the mid-1990s. GRW provided a plan that allows the base to undertake a

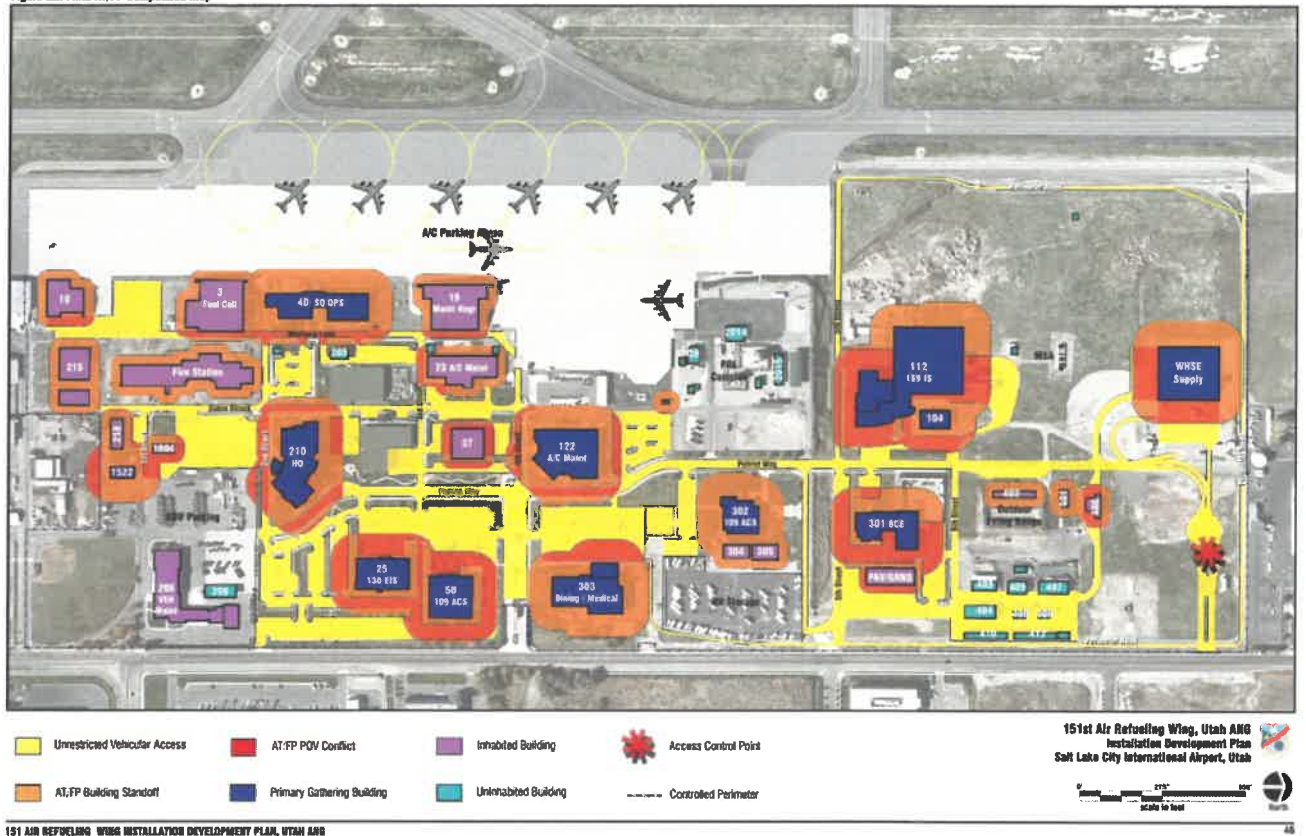
variety of future aircraft and mission options, and to accommodate the addition of a contingency response mission. A Common Installation Picture (CIP) was developed by GRW to integrate a facility inventory system into the base-wide GeoBase GIS. The CIP (a GeoBase series of maps of the base, its facilities and infrastructure) forms the backbone of the Master Plan and provides rapid access to GIS databases for detailed information on real property, utility systems, real estate and other assets that are vital to the base's mission capability.

Client Contact: Lt Col Phillip Howard, Base Civil Engineer, Kentucky Air National Guard, (502) 413-4461, Phillip.Howard@ang.af.mil

151st Air Refueling Wing Installation Development Plan

Utah Air National Guard | Salt Lake City, UT

Figure 22: Final AT/FP Compliance Map



GRW, including Master Planner **Rick D'Arienzo**, a former GRW employee, provided a series of master planning services for the UT ANG, which is co-located at the Salt Lake City IAP and has a current mission of eight (8) KC-135R primary assigned aircraft (PAA). GRW's master planning task involved the development of phased short- and long-range plan alternatives and a selected plan as the mission of the 151st move toward the future. The installation development plan is a web-based document supported by a series of geo-referenced maps of the base, including all buildings, infrastructure and related facilities needed for the successful conduct of base operations and maintenance functions.

Client Contact: Col Jack Wall, 151 MSG/CC, Salt Lake City IAP, (801) 245-2293, jack.wall@ang.af.mil



154th Wing Installation Development Plan Hawaii Air National Guard | Hickam AFB, HI

Figure 4-4: Development Concept A



GRW, including Master Planner **Rick D'Arienzo**, a former GRW employee, prepared an Installation Development Plan (IDP) or master planning services for the HI ANG, which currently supports three different missions and airframes: KC-135 tankers, C-17 cargo planes, and F-15 fighters. The 154th is located at Hickam AFB where the KC-135 and C-17 airframes are supported in USAF facilities and the F-15 airframes are supported in ANG facilities. The installation has an approved F-22 aircraft Beddown Plan and is in the process of transitioning from F-15 to F-22 aircraft.

GRW's IDP task involved the development of conceptual alternatives and a selected plan as the three missions of the 154th move forward. The IDP is a web-based document supported by a series of geo-referenced maps of the base, including all buildings, infrastructure and related facilities needed for the successful conduct of base operations and maintenance functions.

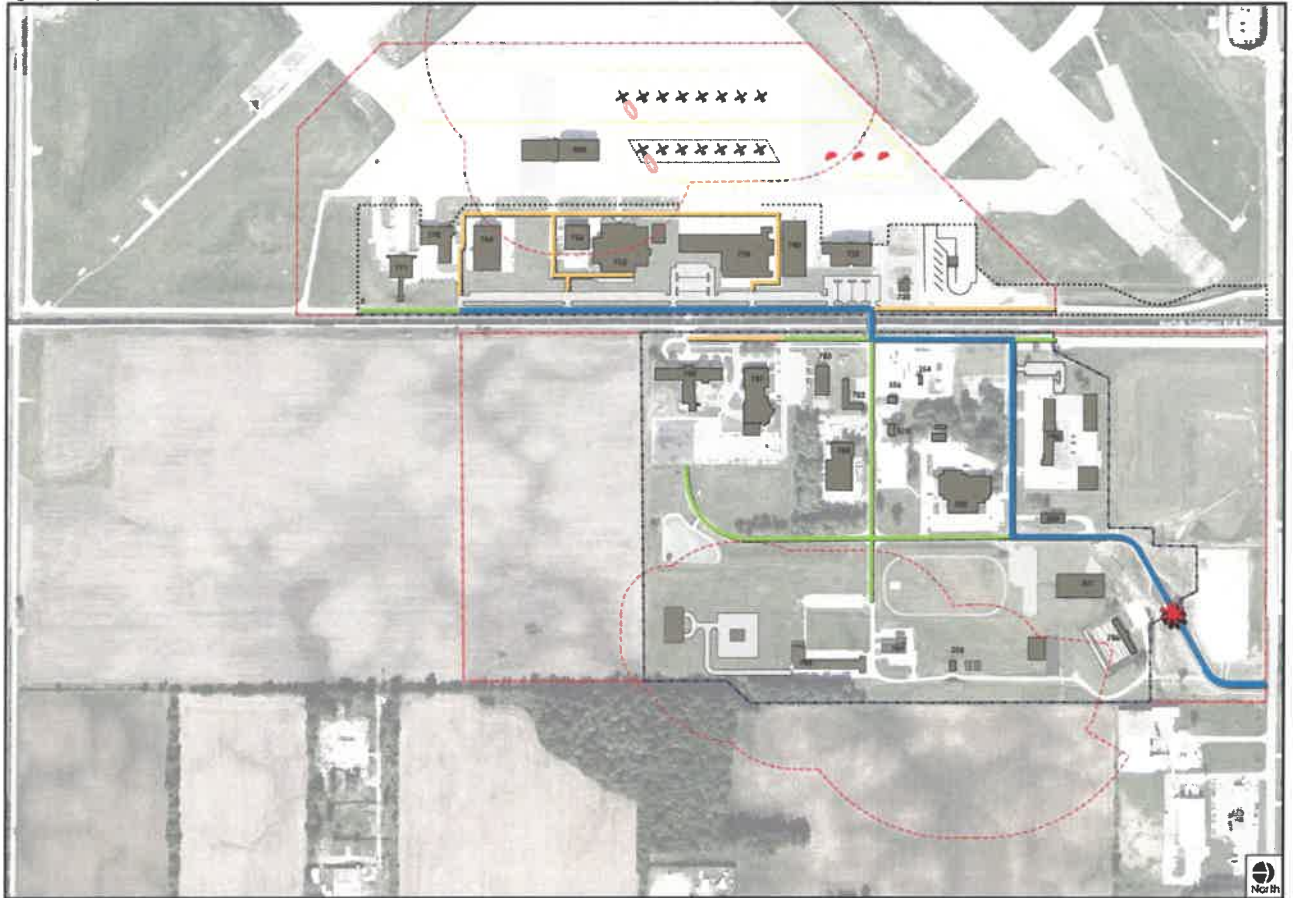
Because the current arrangement of ANG facilities and the separation of functions are inefficient and costly, one goal of the IDP was to identify ways to create campus settings that co-locates mission support and other functions for the three squadrons in proximity to each other and separate from the operational activities for the flying missions. Another goal was to ensure that planned facilities incorporate sustainable design, and AT/FP measures.

As the base's "road map" for new construction and renovation projects for the next 20 years, the IDP addresses both goals by considering ways to consolidate duplicate activities and to integrate active duty and ANG personnel and functions.

Client Contact: LtCol Cyrus Lung, 154 CES/CC, JBPHH, (808) 636-5959, cyrus.lung@hickam.af.mil

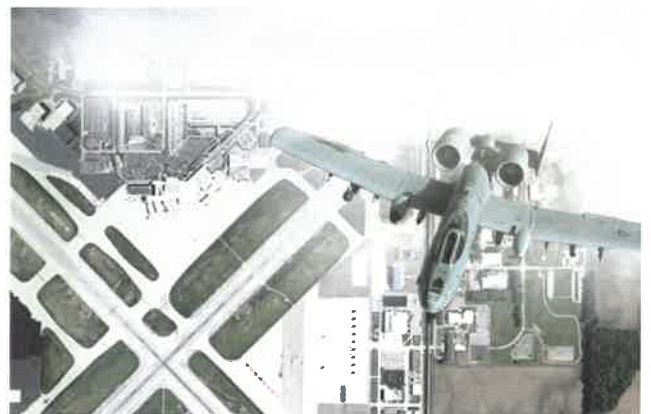
122nd Fighter Wing Installation Development Plan Indiana Air National Guard | Fort Wayne, IN

Figure 21: Proposed Circulation Plan



This Installation Development Plan (IDP) provided a strategy for optimizing space usage as the mission transitioned from A-10 to more A-10s to F-15E and later to F-35A or joint cargo aircraft (JCA) over the next 15-20 years, while also accommodating a future Red Horse Beddown.

The updated plan, prepared by **GRW**, including Master Planner **Rick D'Arienzo**, a former GRW employee, provides web-based documents which allow for the installation to update and modify the plan with their own resources over time as mission changes and planned facilities are built. The IDP was coordinated with a Common Installation Picture (CIP), a GeoBase series of maps of the base, its facilities and infrastructure. The CIP forms the backbone of the IDP and provides rapid access to GIS databases for detailed information on real property, utility systems, real estate and other assets that are vital to the base's mission capability.



A challenge to this plan was the presence of a commercial rail line that bisects the base, requiring special attention to AT/FP measures.

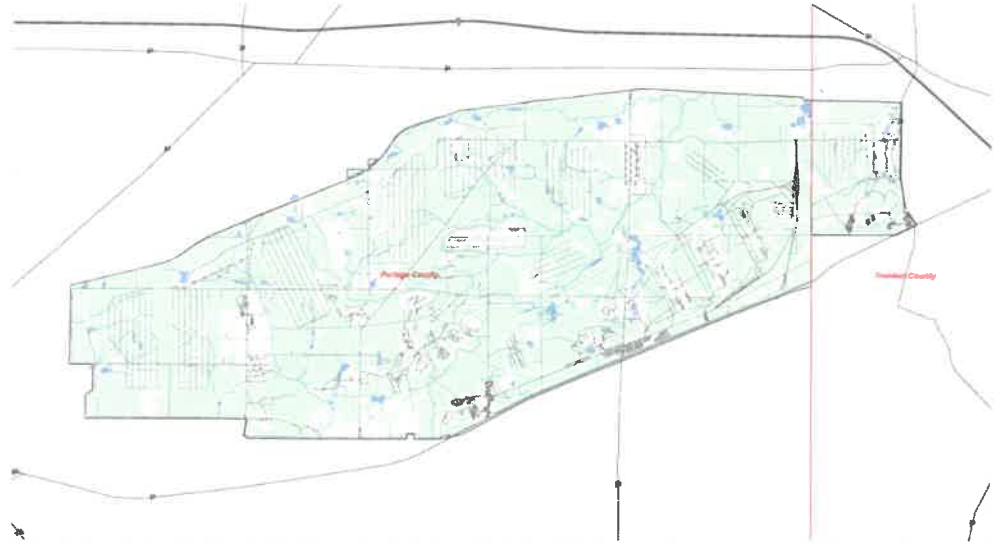
Client Contact: Lt Col James Starnes, Defense Logistics Agency, (269) 961-5661, James.Starnes@dla.mil

Training Site Master Plans: Camp Ravenna Joint Military Training Center & Camp Perry Joint Training Center Ohio Army National Guard | Columbus, OH

GRW was selected by the Ohio Army National Guard to complete Training Site Master Plans (TSMPs) for the Training Centers near Ravenna and Port Clinton, Ohio. The purpose of each master plan was to identify all of the missions, requirements, constraints, and conditions at both sites and to generate comprehensive, single source documents on how to best develop each site for use by federal, state, and local government agencies over the next twenty years.

Camp Ravenna is a 21,683 acre site that is used principally by National Guard units throughout Ohio and surrounding states, as well as other Reserve and Active Components. The site also provides a training venue for Homeland Defense, Emergency Response, Public Safety and other local, state and federal government agencies and civic groups. The installation was used in WWII for munitions manufacturing and was taken over from DA in the late 1990s by OHARNG with the goal of converting it to a viable military training site.

Camp Perry is approximately 579 acres on the southern shore of Lake Erie and is the primary location in Ohio and the surrounding region for small arms and simulation device training. Camp Perry includes the largest outdoor rifle range in the world and is the home of the National Rifle Association's National Rifle Matches. Its mission is to provide facilities and authorized training center management for the conduct of weapons qualification, training exercise and DA supported marksmanship programs.



Each master plan was a comprehensive analysis of existing site conditions and opportunities for future development. The plans included an analysis of facilities, utilities, transportation, land use, and unit mission space requirements. Each plan described the installation real property and environmental stewardship requirements and the suitability of facilities to support mission training requirements. Project site plans were prepared that show the appropriate location of mission essential facilities.

To complete each plan, GRW participated in a series of meetings, planning charrettes and site visits with OHARNG planning staff and key installation stakeholders. Facility related requirements were quantified and verified using a two-step process where a survey questionnaire was distributed to all units and organizations that regularly use the facilities at each installation. Follow-up interviews were then held with the respondents to confirm their requirements. Each final master plan included an Executive Summary, Current Condition Assessment, Environmental Conditions and Development Constraints, Capital Investment Strategy, Alternative Development Plans and Selected Project Site Plans, and a Plan Summary.

Combined Arms Collective Training Facility Master Plan Indiana Army National Guard | Indianapolis, IN

The Indiana ARNG retained GRW for a series of A/E services related to the planning and design of the world's largest Combined Arms Collective Training Facility (CACTF), located in Muscatatuck, Indiana, to provide Military Operations in Urban Terrain (MOUT) training. This facility is located on an 850-acre rural site in southern Indiana that was formerly the grounds of a state mental hospital campus that operated from the 1920's through 2003.

During the period that the IN ARNG was acquiring the Muscatatuck property, the IN ARNG requested GRW to assess the condition of the 65 administrative, operational, staff housing, and dormitory buildings.

On-site utilities include a central heating plant, a surface water treatment plant, a wastewater treatment plant, and their associated distribution systems. The property includes the Brush Creek Reservoir and a low head dam that supplies drinking water to the water plant and the nearby City of North Vernon. The master plan included preliminary analysis of each utility system's ability to meet future demands either through expansion or connection to nearby city or utility systems.

GRW was initially tasked to prepare a Master Plan for the conversion of the hospital complex into a CACTF. The primary purpose of the CACTF will be to increase the combat readiness of IN ARNG troops, as well as other soldiers and facility users from anywhere in the world, to operate in varied urban environments. The CACTF will be designed to conduct multi-echelon, full-spectrum operations up to battalion task force level with each leader or commander capable of evaluating unit urban operations efficiency. In addition, the CACTF will be able to support Infantry



Fighting Vehicle (IFV), Tank, Artillery and Aviation positioning and maneuvers.

The planning effort included both Long and Short Range Development Plans; a Capital Investment Strategy; new aerial photography and digital mapping; and an extensive GIS system to support future development of the installation. The Master Plan is being used as the basis for programming, design, funding and construction of this complex.

The Master Plan identified specific facilities on the Muscatatuck site for renovation and conversion into the CACTF training facilities. Other facilities required for new construction to support the CACTF were also identified in the Master Plan (see illustration).

The CACTF will be a 23-building, \$16.1 Million complex constructed by renovating many of the existing buildings at the site. Eventually, as build-out of the entire site takes place, the CACTF will be one component of this complex, which is programmed to develop into a \$100 - \$200 Million training center of more than 400 buildings simulating various types of urban environments, each with automated targeting systems and special effects.

WV DOT District 1 Campus Master Plan

West Virginia Department of Transportation | Charleston, WV



Chapman Technical Group, a division of GRW based in St. Albans, WV, worked with the West Virginia Division of Highways team to create the master plan for the redevelopment of its District 1 campus in downtown Charleston.

Chapman Technical Group's architects evaluated several existing buildings and determined which ones could be renovated and which were beyond their useful lives and should be demolished. They also provided all of the necessary documentation to the State Historic Preservation Office for the historic structures.

Chapman Technical Group then developed a phased development plan to prioritize demolition projects, new building construction and renovations. All activities had to be planned so that the operations of the District could continue uninterrupted.

As part of the infrastructure upgrades, Chapman Technical Group designed all parking and vehicular circulation, as well as all of the utility upgrades. The campus also suffers from occasional flooding so Chapman Technical Group designed a stormwater detention system to help alleviate flooding.

The final phase of the project will be the design of a streetscape including underground utilities, decorative paving and site amenities. Chapman Technical Group initiated coordination with the City of Charleston which resulted in a cooperative effort to provide a comprehensive streetscape (entire block of Smith Street from Morris Street to Ruffner Street) beyond the boundaries of the District 1 campus project.

Client Contact: Travis Knighton, PE, District Engineer, West Virginia Department of Transportation, (304) 356-3771, Travis.W.Knighton@wv.gov

3.0 Staff Qualifications

By choosing GRW, you have access to some of the most qualified and knowledgeable military design consultants in the region. **Shane Lyle**, AIA, LEED AP BD+C, will be the overall leader of the design team and directly involved with you through every stage of the project. He regularly provides architectural leadership for complex building projects, and he has overseen additions and renovations to several West Virginia National Guard buildings.

Our team’s discipline leaders – and their backup team members – are equally experienced and will work closely with Shane. Furthermore, our team’s local knowledge and capacity has been strengthened by GRW’s recent acquisition of Chapman Technical Group, a 20-person St. Albans, WV-based firm.

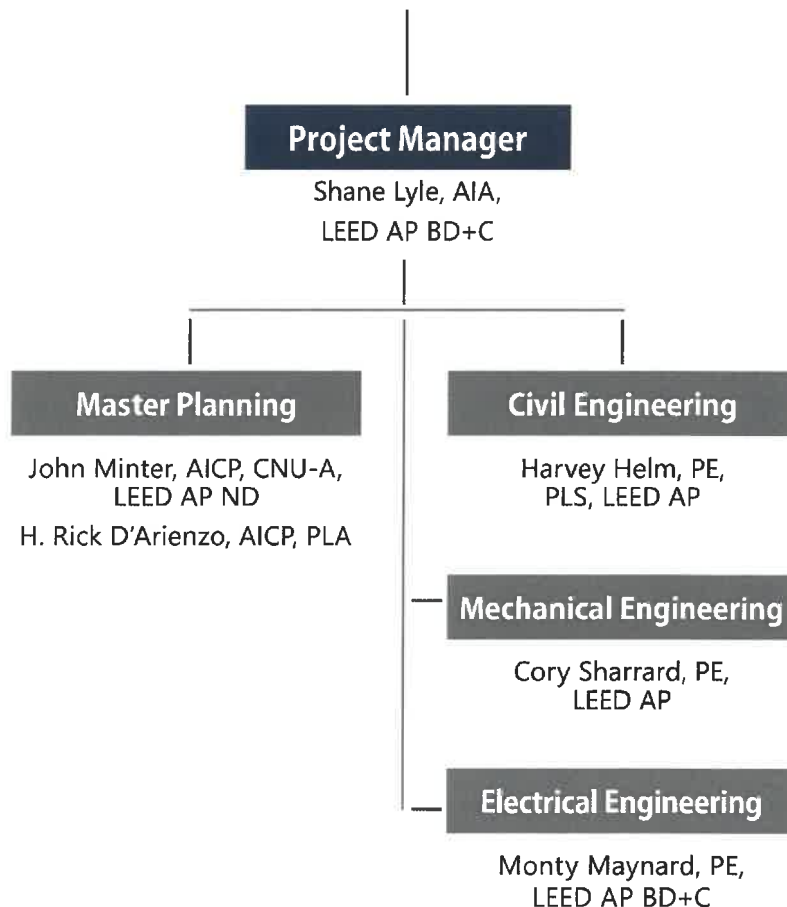
We’ve augmented our team with **John Gallup & Associates**, an SDVOSB specializing in military planning and programming support. Both master planners **John Minter**

and **Rick D’Arienzo**, will play a key role on our team in the development the WVARNG’s proposed Master Plan and related services.

Mr. D’Arienzo, a former GRW employee, was part of the GRW team during the completion of several master planning assignments for National Guard installations in Arizona, Hawaii, Indiana, Kentucky, North Dakota, and Utah. Several of these projects are included in **Section 2.0**.



West Virginia Department of Administration and West Virginia Army National Guard



Shane Lyle, AIA, LEED AP BD+C | GRW Architect



YEARS OF EXPERIENCE:

With GRW: 31

Total: 37

EDUCATION

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

REGISTRATION

Registered Architect: KY, WV, TN, AL, GA, IN, TX, MS, SC, FL, MO, AZ, NM, CA, WA, KS

National Council of Architectural Registration Boards (NCARB) Certification

LEED Accredited Professional, Building Design + Construction

Certified Interior Designer: Kentucky

PROFESSIONAL AFFILIATIONS AND TRAINING

American Institute of Architects

Past President - AIA East
Kentucky Chapter Board of Directors

American Correctional Association (ACA)

Member / Past Officer - UK
College of Architecture Alumni Association

Life Member - UK Alumni Association

RELEVANT PROJECT EXPERIENCE

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

West Virginia ARNG Camp Dawson Volkstone Training Area Utility Upgrade, Kingwood, WV – Principal. Expansion of sewer (1,996 LF), water (1,996 LF) and electric (1,797 LF) to all existing and future buildings, unit training equipment site (UTES) and wash rack locations.

West Virginia ARNG Camp Dawson Ranges at Briery Mountain, Kingwood, WV – Principal. Project includes design and construction of new Hand Grenade Familiarization Range and Live Fire Exercise Breach (LFEB) Training Range at Briery Mountain Training area to conform site to government standard Breach Range Design Requirements.

West Virginia ANG 167th Airlift Wing Maintenance Mall (Building 307) Repair, Martinsburg, WV – Principal. Concept Development Report for C-5 aircraft complex which requires electrical modifications to meet needs of current occupants' activities, and investigation/resolution of temperature control in numerous locations.

Wendell H. Ford Regional Training Center Master Plan Update, Greenville, KY – Principal. Master plan update for the entire facility covering training center located on 8,500 acres and including barracks and quarters for nearly 500 troops, live-fire ranges, maintenance facilities for military equipment, and 4,200-foot grass runway. Work for master plan update includes expansion analysis of utilities and buildable sites for areas such as the cantonment, range facilities areas and training barracks facilities.

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. Design paused at 65% to enable base's master plan and re-prioritize new capital improvements.

West Virginia ANG 130th Airlift Wing Building 107 Consolidation Study & Renovation, 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. Study included floor plans for each phase as well as final floor plan and construction cost estimate. Major challenge involved consolidation of organizations with a total authorized area of over 50,000 SF into facility with 40,000 SF footprint - no additions were allowed. AT/FP, energy and ADA accessibility measures were incorporated, as well as current ANG guidelines. Repairs and building repurposing includes: new interior spaces within existing facility to accommodate new functions; building exterior repairs, new interior finishes; mechanical and electrical systems upgrade; fire alarm and fire protection systems repair; and site/building revisions to meet ATFP standards. New functional areas include spaces for medical simulation training, maintenance, operations, administration, storage, and other mission-related activities.

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

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

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

Kentucky Fire Commission/Kentucky ARNG Master Plan & Master Plan Update for Fire Center for Excellence, Greenville, KY – Principal. Preparation of Master Plan for proposed Fire Center for Excellence on 25-acre site at National Responder Preparedness Center located on WHFRTC campus. Plan and cost estimates incorporated variety of emergency training scenarios such as aircraft, helicopter, rail, automobile, and building rescue, as well as road network, driving course, and storage facilities.



John Minter AICP, CNU-A, LEED AP ND Master Planner

Over the last five years, John has provided military planning for 44 DOD Installation Development Plans or Area Development Plans and completed 15 Requirements Analyses, 35 DD Form 1391s, and 12 Full Economic Analyses. John maintains



diversified experience in project management, planning, programming, and urban design. John serves as the Program Manager for JG&A's USACE-Baltimore District Master Planning IDIQ #W912DR-15-R-0017, Nationwide VA-CFM national cemetery design contract #VA101F-17-D-2829. John facilitates planning charrettes within an emphasis on stakeholder participation and leadership involvement to produce implementable design solutions. John served in the Army for five years, honorably discharged at the rank of Captain.

Education

- BA, Political Science
- MCRP, City and Regional Planning

Registrations

- American Institute of Certified Planners, [REDACTED]
- Congress for New Urbanism - Accredited
- LEED Accredited Professional with a Neighborhood Development Specialty, GBCI: 10829583

[8] years with firm

[14] years' experience

Project Experience

Site Development Plan | Oregon Military Department

Camp Withycombe, OR | 2014

Master Planner. This SDP provides a phased development strategy for OMD to recapitalize underutilized land for tactical equipment staging and maintenance operations to support US Army National Guard and US Army Reserve training and operational requirements. **Responsibilities:** Responsible for the facilitation of a planning charrette, generating the Vision Statement, supporting Goals and Objectives, data collection, assimilation of tenant mission requirements, and identifying future development alternatives supporting the Installation Vision. Conducted existing conditions analysis and developed innovative solutions to maximize quality-of-life initiatives in a largely industrial built environment. Led a sustainability workshop to ensure future development prioritizes natural and cultural resources in compliance with environmental laws and ongoing sustainability as a net-zero installation under the OMD consolidated net-zero initiative.

The National Capital Region (NCR) Area Development Plan (ADP) | US Army Reserve Installation Management Directorate (ARIMD)

National Capital Region (NCR) | 2015

Master Planner. Regional development plan for US Army Reserve facilities in the Baltimore and Washington, D.C. metropolitan areas. **Responsibilities:** Responsible analysis of force structure, space utilization data, and facility condition. Balanced excesses and shortfalls against future requirements; assessed sustainability of existing USAR Training Centers; and recommended renovation or divestiture of individual facilities in support of the Preferred Development Plan.

Wheeler Army Airfield Area Development Plan, Requirements Analysis, and DD1391s | US Army Garrison – Hawaii

Schofield Barracks, Hawaii | 2018

Master Planner. Provided comprehensive master planning and programming support to US Army Garrison-Hawaii (USAG-HI), at Wheeler Army Airfield and Schofield Barracks, Hawaii. This project was managed by the US Army Corps of Engineers, Fort Worth District and in association with Huntsville Center Corps of Engineers. This project received the 2020 Outstanding Federal Program Merit Award. **Responsibilities:** Responsible for the production of the Wheeler Army Airfield Flightline District ADP; Schofield Barracks Kolekole District ADP; Aviation Maintenance Facilities Requirements Analyses (RA); and DD Forms 1391s for three hangar facilities, rotary wing apron, taxiways, helipads, and 25th Combat Aviation Brigade TEMF facilities. John facilitated planning workshops and led all site planning efforts for RAs and DD Form 1391s. Mr. Minter also led the team charged with producing the DD Form 1391s and uploading to the PAX Processor. The proposed rotary wing apron is funded for construction this fiscal year.

Planning and Programming Support for Camp Buckner and Camp Natural Bridge | USACE-New York District

US Military Academy – West Point | 2019

Master Planner. In support of a West Point Military Complex initiative to replace aging and obsolete training assets, this effort developed facility requirements and produced programming documents to guide a funding and construction strategy for Camp Buckner and Camp Natural Bridge **Responsibilities:** Responsible for the production of four DD Form 1391s comprising 14 individual projects to revitalize the USMA Cadet Basic Training, Cadet Field Training, Cadet Leader Development Training, and Task Force (Cadet Trainers) Operational Readiness Training Complex (ORTC). The project included providing Real Property Planning and Analysis System (RPLANS) facility requirements edits to capture the actual training requirements at USMA.



Rick D'Arienzo AICP, RLA

Master Planner

Rick D'Arienzo has prepared a total of 44 DOD IDPs/ADPs over the last decade. Rick facilitates planning charrettes and vision workshops with stakeholders and provides leadership to develop DD 1391s, to arrive at an installation-level vision and develop installation framework plans. He oversees analysis of existing constraints and opportunities and is integral in development of alternative courses of action. Rick's 30-year military career spans time with Active USAF, US Air Force Reserve, and Air National Guard and retired at the rank of Colonel. This unique experience provides a solid understanding of how military planning and programming criteria are developed and implemented for DOD installations. He has earned several industry awards including USAF National Design Awards for the IDP at North Dakota ANG (Hector IAP) and the Community Support District ADP and Landscape Development Plan at McConnell AFB.



Education

- BLA, Landscape Architecture
- MBA, Business Administration

Registrations

- American Institute of Certified Planners, [REDACTED]
- Registered Landscape Architect, CA [REDACTED] IN (0213); GA [REDACTED]

[14] years with firm
[38] years' experience

Project Experience

Site Development Plan (SDP) | Oregon Military Department Camp Withycombe, OR | 2014

Master Planner. This SDP provides a phased development strategy for OMD to recapitalize underutilized land for tactical equipment staging and maintenance operations to support US Army National Guard and US Army Reserve training and operational requirements. **Responsibilities:** Facilitation of a planning charrette, generating the Vision Statement, supporting Goals and Objectives, data collection, assimilation of tenant mission requirements, and identifying future development alternatives supporting the Installation Vision. Conducted existing conditions analysis and developed innovative solutions to maximize quality-of-life initiatives in a largely industrial built environment. Led a sustainability workshop to ensure future development prioritizes natural and cultural resources in compliance with environmental laws and ongoing sustainability as a net-zero installation under the OMD consolidated net-zero initiative.

The National Capital Region (NCR) Area Development Plan (ADP) | US Army Reserve Installation Management Directorate (ARIMD)

National Capital Region (NCR) | 2015

Master Planner. Regional development plan for US Army Reserve facilities in the Baltimore and Washington, D.C. metropolitan areas. **Responsibilities:** Managed analysis of force structure, space utilization data, and facility condition. Balanced excesses and shortfalls against future requirements; assessed sustainability of existing USAR Training Centers; and recommended renovation or divestiture of individual facilities in support of the Preferred Development Plan

Mobilization Training Center (MTC) ADPs | Installation Management Command (IMCOM) – Huntsville Civil Engineer Center

Fort Hood, TX; JB Lewis-McChord, WA; Fort Bliss, TX; Fort Knox, KY; Army Support Activity Dix, NJ; Camp Atterbury, IN; Camp Shelby, MS | 2012

Master Planner. ADPs serve as a roadmap to steer short- and long-range development and to guide military construction of Army National Guard MTC assets at seven military installations. **Responsibilities:** Responsibilities included facilitating planning charrettes, developing space planning criteria, conducting site analysis to determine developable area, and creating a phased development approach to guide funding and eventual construction of all training assets.

Range Complex Master Plan (RCMP) for Pelham Range | Alabama Army National Guard

Fort McClellan, AL | 2008

Master Planner. This Range Complex Master Plan (RCMP) was intended to determine training assets (ranges and training land) exist, their individual capacities, their utilization, as well as known operational and environmental constraints unique to the Pelham Range. This document identified required changes in number of live-fire ranges, types of ranges, and new training facilities in order to ensure tenant and transient units continue to train to Army standards. It also assessed anticipated changes in transient units to include units identified for transformation and future potential increases or decreases in the overall number of units (to include influx in manpower) that traditionally utilize FM-ARNGTC as a training station. **Responsibilities:** Managed the survey of 95 facilities and training assets, totaling 4,380,919 square feet across 1,134 acres of installation area. Developed existing and future land use data, developed a phased development strategy to meet training and operational mission requirements, and produced a capital investment strategy to guide implementation of the plan over the long-range timeframe.

Harvey Helm, PE, LEED AP, PLS | GRW Civil Engineer



YEARS OF EXPERIENCE:

With GRW: 46

Total: 46

EDUCATION

B.S., Civil Engineering, 1977,
University of Kentucky

REGISTRATION

Professional Engineer: KY, TN,
IN, OH, MS, GA, NC, AL, AR, WV,
NY, VA, NM, AZ, TX

LEED Accredited Professional

Professional Land Surveyor: KY

PROFESSIONAL AFFILIATIONS AND TRAINING

National Society of Professional
Engineers

Kentucky Society of Professional
Engineers

Soil and Water Conservation
Society

RELEVANT PROJECT EXPERIENCE

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

West Virginia ANG 130th Airlift Wing Communications Facility, Charleston, WV – Civil Engineer. 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.

Wendell H. Ford Regional Training Center Master Plan Update, Greenville, KY – Civil Engineer. Master plan update for the entire facility covering training center located on 8,500 acres and including barracks and quarters for nearly 500 troops, live-fire ranges, maintenance facilities for military equipment, and 4,200-foot grass runway. Work for master plan update includes expansion analysis of utilities and buildable sites for areas such as the cantonment, range facilities areas and training barracks facilities.

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

Kentucky ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Bluegrass Army Depot, Richmond, KY – Civil Engineer. Design Criteria Consultant for design-build delivery of a new \$19.2 million complex encompassing a 63,250 SF Armed Forces Reserve Center (AFRC) and a 31,725 SF Field Maintenance Shop (FMS), both designed to meet LEED Silver sustainable design rating. Provided RFQ and RFP development, assistance in short-listing and final selection of the design/build team, construction administration and commissioning of the new facilities that included administrative, training, assembly, storage, and vehicle workbays.

Alabama Air National Guard Master Plan, Birmingham, AL – Civil Engineer. Master planning and digital mapping services to assess the existing physical character of the installation, to determine the ANG's existing needs and potential, and to plan for an orderly and comprehensive future development to accommodate the current mission, programmed mission changes, and probable future missions.

Arkansas Air National Guard Master Plan, Little Rock, AR – Civil Engineer. Comprehensive master planning and digital mapping services to assess the existing physical character of the installation, to determine the ANG's existing needs and potential, and to plan for an orderly and comprehensive future development to accommodate the current mission, programmed mission changes, and probable future missions.

USACE, Louisville District Indefinite Delivery Contract for Real Property Master Planning, KY – Civil Engineer. Military master planning, architecture, and civil, mechanical and environmental engineering to accomplish Expansion Capability Studies (Campbell Army Airfield, Destiny Heliport and Sabre Heliport, Ft. Campbell, KY); Long Range Development Plan and Environmental Overlay (Rock Island Arsenal, IL); Capital Investment Strategy (Rock Island Arsenal, IL); Site Planning at Rock Island Arsenal for Central Heating Plant Coal Stockpiles; Northeast Sector Stormwater Master Plan, Ft. Campbell, KY; and Boundary Survey, Ft. Campbell, KY.

North Dakota ANG 119th Fighter Wing Installation Development Plan, Fargo, ND – Civil Engineer. Master planning under a nationwide IDIQ contract with the National Guard Bureau, updating Common Installation Plans (CIP), the backbone of the Master Plan, through web-based documents enabling installation staff to modify plans as missions change and facilities constructed.

Edwards Air Force Base Comprehensive Base Master Plan, Palmdale, CA – Civil Engineer. Comprehensive master planning, GIS development, natural and cultural resources services, environmental, and facility and infrastructure analysis services over a 7-year period at a 470-square-mile California air base, integrating the interests of myriad Air Force organizations, government agencies of multiple levels, civic and community organizations, and neighboring military installations. Addressed comprehensive issues in multiple plan documents, including an Energy Plan that reduced energy costs by 30%.

Indiana ANG 122nd Fighter Wing Security Forces Operations and Training Facility, Fort Wayne, IN – Civil Engineer. Conceptual design for design-build bridging document for a \$3.86 million (FY07), 18,494 SF Security Forces Operations and Training Facility, including aCATS/CATM area.

Michigan ARNG Design & Renovation of 8 Facilities at Ft. Custer, Camp Grayling, Grayling Army Airfield and Midland, , MI – Civil Engineer. Architectural and engineering design for 8 "fast track" projects for Michigan Army National Guard scattered throughout the state, including: new Bachelor Officer Quarters at Fort Custer, Camp Grayling and Grayling AAF; an addition to the Range Control Building and a new Logistics Facility at Fort Custer; a new General Officers BOQ at Camp Grayling; a new Company Operations Facility at Grayling AAF; and kitchen and other renovations to an existing armory in Midland that required lead and asbestos abatement.

California ARNG Urban Assault Course, Camp Roberts, CA – Civil Engineer. Design for a \$1.5 million 5-station Unit Assault Course for Camp Roberts, including Range Operations and Control Area totaling 800 SF (ROCA); Ammunition Breakdown Building (120 SF); Individual and Team Trainer (3-room 810 SF structure); Squad and Platoon Trainer (4-building 741 SF structure); Grenadier Gunnery Trainer; Urban Offense/Defense Trainer (2-story building with a basement); and Underground Trainer (network of 2,550 LF of 4'-and 3'-diameter pipe with no targetry).

Monty Maynard, PE, LEED AP BD+C | GRW Electrical Engineer



YEARS OF EXPERIENCE:

With GRW: 24

Total: 43

EDUCATION

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

REGISTRATION

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

NCEES Member allows
reciprocity with other states

LEED Accredited Professional,
Building Design + Construction

PROFESSIONAL AFFILIATIONS AND TRAINING

Design-Build Institute of
America

National Fire Protection
Association

International Society of
Automation

American Institute of Architects

American Council of
Engineering Companies

National Council of Examiners
for Engineering and Surveying

Air National Guard Civil
Engineering Association Life
Member (Associate)

Society of American Military
Engineers

American Water Works
Association

RELEVANT PROJECT EXPERIENCE

West Virginia ANG 130th Airlift Wing Communications Facility, Charleston, WV – Electrical Engineer. 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 ARNG Joint Armed Forces Reserve Center and Area Maintenance Support Activity, Ripley, WV – Electrical Engineer. 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.

Michigan ARNG Joint Forces HQ Complex Planning/Programming Charrette, Lansing, MI – Electrical Engineer. Evaluation of size, condition, and capacity of facilities (42-acre site with four buildings comprising 300,000 SF) acquired from State of Michigan proposed for occupancy by MI ARNG. Included on-site 3-day charrette to determine space requirements and special needs of users. Developed cost estimates associated with renovation of facilities, and reviewed DD Forms 1390/91 and related documentation.

Ohio ARNG Regional Training Institute, USP&FO Office/Warehouse and Combined Support Maintenance Site (Phase 2) Construction Services, Columbus, OH – Electrical Engineer. Commissioning services and construction observation/documentation services for a 123,000 SF, \$13.9 million Regional Training Institute, a 69,880 SF, \$7.5 million USP&FO Office/Warehouse, and Phase 2 of a 97,635 SF, \$19.3 million Combined Support Maintenance Site, all located at the Defense Supply Center Columbus (DSSC).

Indiana ARNG Combined Arms Collective Training Facility Project, Planning Design Charrette, Muscatatuck, IN – Electrical Engineer. Design and engineering consulting to conduct a multi-agency collaborative Project Planning Document Charrette (PPDC), for development of a Combined Arms Collective Training Facility (Muscatatuck CACTF) and to validate a \$16.1 million project award estimate, involving senior leadership, key staff, other stakeholders, ARSC-TPIO-Live, USACE Huntsville Division MCX (CEHNC), and DAMOTRS. Confirmed project development cost and facilities needs and recommended major renovation / conversion of 23 of 70 existing buildings and new construction.

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

Kentucky ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Bluegrass Army Depot, Richmond, KY – Project Manager. Design Criteria Consultant for design-build delivery of a new \$19.2 million complex encompassing a 63,250 SF Armed Forces Reserve Center (AFRC) and a 31,725 SF Field Maintenance Shop (FMS), both designed to meet LEED Silver sustainable design rating. Provided RFQ and RFP development, assistance in short-listing and final selection of the design/build team, construction administration and commissioning.

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 Certified 85,865 SF complex serving both Ohio Army National Guard and U.S. Army Reserves. Provided Joint Armed Forces Reserve Center (AFRC) totaling 60,902 SF, and Field Maintenance Shop (FMS) totaling 24,963 SF, with a construction bid of \$14 million (\$9 million under the MCC of \$23 million) due in large part to innovative design and alternative construction materials.

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

California ARNG Urban Assault Course, Camp Roberts, CA – Electrical Engineer. Design for a \$1.5 million 5-station Unit Assault Course for Camp Roberts.

California ARNG Infantry Squad Battle Course, Camp Roberts, CA – Electrical Engineer. Design and engineering for a \$1.78 million infantry squad battle course for Camp Roberts, including Range Operations and Control Area (ROCA).

California ARNG Infantry Platoon Battle Course, Camp Roberts, CA – Electrical Engineer. Design for a new, \$2.7 million infantry platoon battle course providing stationary and moving infantry and armor targets

Cory Sharrard, PE, LEED AP | GRW Mechanical Engineer



YEARS OF EXPERIENCE:

With GRW: 1

Total: 21

EDUCATION

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

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

REGISTRATION

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

NCEES Member allows
reciprocity with other states

LEED AP

PROFESSIONAL AFFILIATIONS AND TRAINING

Kentucky Local Correctional
Facilities Construction Authority
Board (through 2023)

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

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

Society of American Military
Engineers (SAME)

Society of Marketing
Professional Services (SMPS) -
Past President

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

RELEVANT PROJECT EXPERIENCE

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

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

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

Lexington Federal Medical Center Electrical Study/Assessment, Lexington, KY – Mechanical Engineer. Study included preventative maintenance testing of medium voltage distribution equipment in six areas, as well as priority recommendations for all found deficiencies. Work included testing/inspection of medium voltage power distribution equipment located in identified areas. Ten priority repairs were identified from highest priority to lowest and conceptual level drawings defining proposed revisions/scope of work were prepared, along with estimated construction performance time and cost analysis.

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

Rocky Mountain ATV/MC Distribution Building 3 Distribution Center Expansion, Winchester, KY – Mechanical Engineer.

Pulaski County Schools Maintenance Projects, Somerset, KY – Mechanical Engineer. Projects included: Northern Middle School masonry removal and repairs, metal roof flashing replacement, hot water heater replacement, and asphalt paving resurface; Oak Hill Elementary School roof replacement; Memorial Education Center roof replacement; and Day Treatment Center (alternative school) masonry replacement, roof replacement, door and window replacement, and replacement of two rooftop mechanical units.

Petersburg Federal Correction Institution Food Service Building, Hopewell, VA – Mechanical Engineer. Demolition and replacement of existing aged 22,000 SF dining and food service building with new 23,500 SF medium-security facility completed in two phases to accommodate Owner's funding allocation. Includes new food preparation area (including kitchen, coolers/freezers, dry storage, food prep areas, and dishwash); main dining hall with serving line for approximately 400 persons; separate staff dining area for approximately 40 persons; dock and receiving area; new security fencing and gates; reconfiguration of existing site utilities; and complete integration of new security electronics system with existing campus-wide system.

Fayette County Public Schools Facility Surveys, Lexington, KY – Mechanical Engineer.

Lewis County Schools Facilities Surveys, Tollesboro, KY – Mechanical Engineer.

Scott County Schools Facility Surveys, Georgetown, KY – Mechanical Engineer.

Frankfort Public Safety Facility and Emergency Operations Center, Frankfort, KY – Mechanical Engineer.

4.0 Project Management & Approach/ Methodology for Meeting Goals & Objectives

Understanding of WV ARNG Goals:

Your stated goal for the project is the development of a Statewide Installation Master Plan (IMP) for your identified Army National Guard Facilities across the state. The IMP would be a real property management tool that would include:

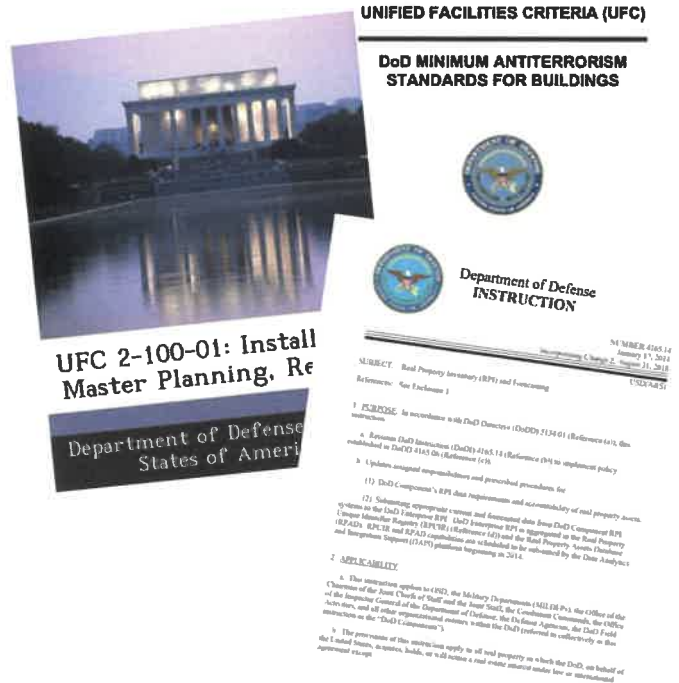
- Overall installation real property operations and management;
- A vision for near-term and longer-term future development, with a ten-year planning strategy;
- Consideration of potential privatization and/or realignment; and
- Site clean-up and disposal.



Guiding Criteria:

The master planning efforts for your project would be governed by the applicable Army Regulations, Department of Defense (DoD) standards, Unified Facilities Criteria (UFC). These standards and criteria would include, but not necessarily be limited to:

- UFC 2-100-01 Installation Master Planning
- DOD Instruction 4165.14 Real Property Inventory
- DOD Real Property Category Codes (CATCODE)
- AT/FP Criteria
- Mission Critical Infrastructure

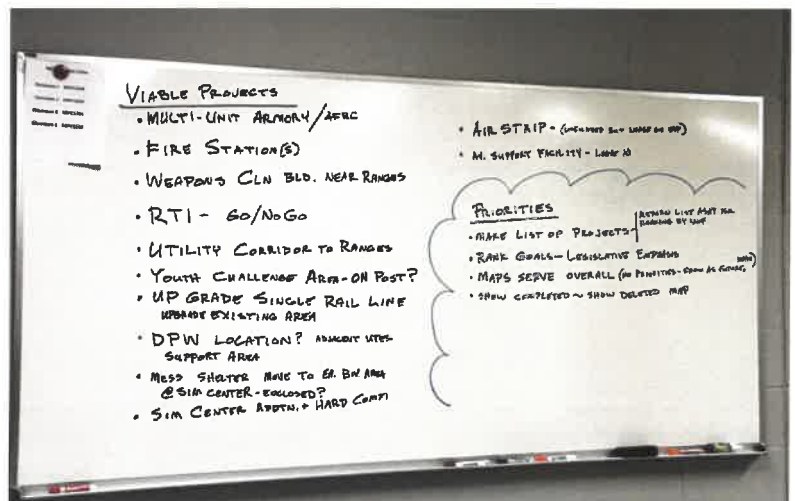


UFC 2-100-01
12 DECEMBER 2015



Initial Consulting and Information Gathering:

We envision an initial meeting with you to discuss the overall project goals, confirm the desired schedule and methodology, and to begin the initial process of gathering information on your various installations. The most important take-away from this initial meeting is that everyone comes away with a common understanding of the desired process and end goals for the master planning effort.



Planning Workshop(s):

Master planning for your installations begins with site analyses and stakeholder participation. We place an emphasis on interactive charrettes and consensus-building toward a clearly defined real property vision.

Our team has skilled workshop facilitators with experience in reaching consensus among diverse groups of stakeholders. We strive to guide the implementation of installation planning documents through an attainable set of goals and

Our goal is to envision long-range, transformative development patterns with a keen eye on short- and mid-range implementation strategies.

objectives, as defined during the planning charrette(s). Our standard process for interactive charrettes is designed to create buy-in among workshop participants and implementation becomes the logical path forward.

Our goal is to envision long-range, transformative development patterns with a keen eye on short- and mid-range implementation strategies. We try to create places that service-members and DOD civilians deserve to experience. We understand that a long-range vision is the goal, but the immediate priority is always short-range planning actions -or- incremental development solutions.

Once the long-range vision is defined, short-range development actions are much more confidently planned and programmed. We strive to create implementable, requirements-based, plans to serve as a catalyst to intentional development.

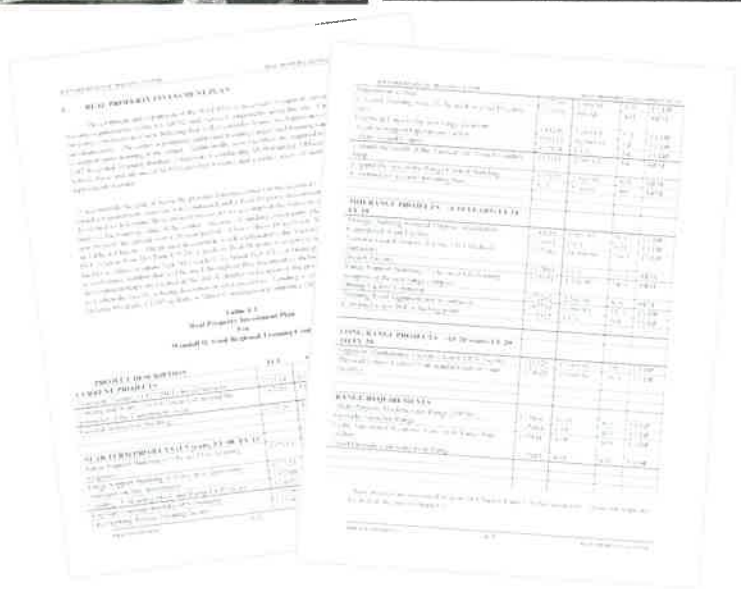
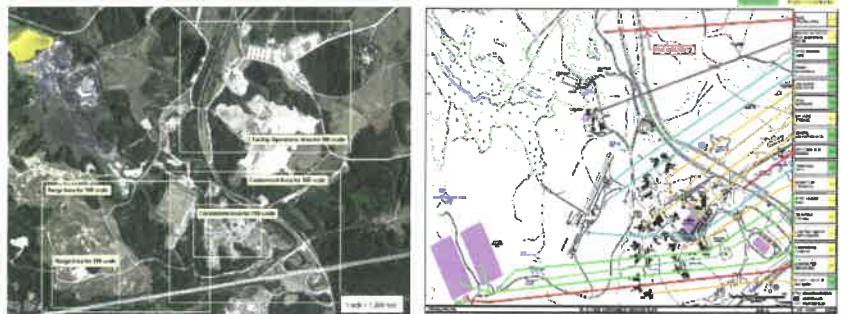
Our team features experienced planners capable of producing Installation Development Plans, Vision Plans, detailed Area Development Plans, and site-specific Requirements Analyses, and DD Form 1391s. Our team is fluent in planning standards and Unified Facilities Criteria guidance to prepare fully auditable development strategies.

You will be kept in the loop through-out the process, including thorough meeting minutes, and receipt of draft copies of all documents for your review and comment.

Deliverables:

The final format for the master planning deliverables can be refined during our initial discussions with you, but we envision that they would include:

- Graphic and written material, appropriately bound, conveying the 10-year vision, along with identified short-term and/or incremental development needs for each property.
- Providing a framework for analyzing and justifying real property sustainment (SRM) resource allocation.
- Identifying critical deficiencies in your real property, including but not limited to infrastructure vulnerability and AT/FP.
- Identifying potential opportunities for privatization and/or realignment.
- Identifying potential need for site clean-up/disposal.



5.0 Quality/Cost Control

Quality Control

Quality Control on your masterplanning project will be maintained using two key concepts.

The first key is continuity. We will provide continuity of personnel throughout the course of the effort. You will be working with the same Team from the initial kickoff meeting through the delivery of the final master plan documents.

Our Team has a well-established history of working together on many previous master plans, and we bring to the table a cohesive and comfortable working relationship.

The second key is communication. Master planning efforts can only be successful if all key stakeholders are

given the opportunity to express their vision through a transparent communication process.

Our job is first to facilitate that process, and then to clearly document those discussions through clear meeting minutes. At each critical interim milestone, you will be given the opportunity to review drafts of the master plan deliverables, and offer comments and corrections as needed.

Once we reach the conclusion of the process, you will feel confident that the final delivered master plan documents are complete, and that all key stakeholders have had an opportunity to have a voice in their development.

Project Budgeting and Design Schedule

Project Budgeting

We understand that a critical part of this master planning effort will be to identify potential SRM projects and to provide projected budgets for those potential projects. This budgeting has to be done from a conservative perspective, since it may be several years before an identified project is actually funded and implemented. We will work with you to make sure that the scope for each potential project is clearly understood, and that the identified budget for each potential project accounts for inflation and other contingencies.

Design Schedule

Our project manager, has primary responsibility for the daily management and coordination of the master planning team, including the overall design schedule. He has worked on military design and master planning projects for much of his career, and he brings to the table a commitment for meeting the agreed-upon schedule for developing and delivering your master plan.

At the project kickoff, he will meet with you to determine not only the desired overall schedule for the design effort, but also to identify key interim milestones throughout the process. Having interim milestones is a great time management tool that gives you the assurance that the design effort is on track and proceeding according to the overall design schedule.

6.0 References

GRW understands that professional consulting begins as a relationship built on trust. We fully understand the importance of gaining your respect, proving our worth, and being there long after your successful project is completed. With repeat clients providing more than 90 percent of GRW's current workload, we believe this is a testament to our business philosophy of providing close, personal, high quality service. We invite you to contact our references to verify GRW's performance.

West Virginia Army National Guard

Matthew T. Reynolds
(304) 561-6568
matthew.t.reynolds18nfg@mail.mil

West Virginia Air National Guard

Maj. Emerson C. Slack, Deputy BCE
(304) 616-5233
emerson.c.slack.mil@mail.mil

Kentucky Army National Guard

David Parker, PE, LSIT, LEED AP, Master Planner
(502) 607-1770
david.m.parker147.nfg@mail.mil

Kentucky Air National Guard

Alan M Wade, SMSgt 123 MSG/MSC
Base Contracting Officer
(502) 413-4439
Alan.Wade@ang.af.mil

Oregon Military Department

Ms. Joanne Manson
(583) 504-3560
joanne.manson1.nfg@mail.mil

Installation Support Division, HQ US Army Corps of Engineers

Mr. Sean L. Martin, AICP, PMP
Senior Planner-Master Planning Team
(202) 761-5876
sean.l.martin@usace.army.mil





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

State of West Virginia
 Centralized Expression of Interest
 02 – Architect/Engr

Proc Folder: 761839

Doc Description: WVARNG Statewide Installation Master Plan

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2020-07-30	2020-08-19 13:30:00	CEOI 0603 ADJ2100000003	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Name, Address and Telephone Number:

GRW
 801 Corporate Drive
 Lexington, KY 40503
 (859) 223-3999

FOR INFORMATION CONTACT THE BUYER

Tara Lyle
 (304) 558-2544
 tara.l.lyle@wv.gov

Signature X

FEIN # 61-0665036

DATE 8/19/2020

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

ADDITIONAL INFORMATION:

The West Virginia Purchasing Division, for the agency, the West Virginia Army National Guard, Construction and Facilities Management Office soliciting Expressions of Interest from qualified firms to provide professional consulting services to develop a Statewide Installation Master Plan for the West Virginia Army National Guard, per the attached documentation.

INVOICE TO		SHIP TO	
DIVISION ENGINEERING & FACILITIES ADJUTANT GENERALS OFFICE 1707 COONSKIN DR		DIVISION ENGINEERING & FACILITIES ADJUTANT GENERALS OFFICE 1707 COONSKIN DR	
CHARLESTON	WV25311	CHARLESTON	WV 25311
US		US	

Line	Comm Ln Desc	Qty	Unit Issue
1	WVARNG Statewide Installation Master Plan		

Comm Code	Manufacturer	Specification	Model #
81101508			

Extended Description :

Provide professional consulting services per the attached documentation.

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 17-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code § 5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

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

DEFINITIONS:

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

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

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: GRW

Authorized Signature: [Signature] Date: 8/17/2020

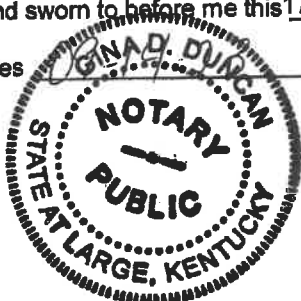
State of Kentucky

County of Fayette, to-wit:

Taken, subscribed, and sworn to before me this 17th day of August, 2020.

My Commission expires [Signature], 2023.

AFFIX SEAL HERE



NOTARY PUBLIC [Signature]

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

(Name, Title)
Shane Lyle, AIA, LEED AP BD+C, GRW Vice President

(Printed Name and Title)
801 Corporate Drive, Lexington, KY 40503

(Address)
(859) 223-3999 / (859) 223-8917

(Phone Number) / (Fax Number)
slyle@grwinc.com

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

GRW

(Company)

(Authorized Signature) (Representative Name, Title)

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

(Printed Name and Title of Authorized Representative)

8/19/2020

(Date)

(859) 223-3999 / (859) 223-8917

(Phone Number) (Fax Number)