

Expression of Interest to provide

**Architectural/Engineering Design Services
Access Road, Utility Upgrades and Site Grading**

**Charleston Armory Complex
Kanawha County, West Virginia
RFQ No. DEFK11024**

submitted to:

Ms. Tara Lyle

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

submitted by:

Michael Baker Jr., Inc.

5088 Washington Street West
Charleston, West Virginia 25313

Baker

January 25, 2011

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PURCHASING DIVISION
STATE OF WV

Baker

Michael Baker Jr., Inc.
A Unit of Michael Baker Corporation

5088 West Washington Street
Second Floor
Charleston, WV 25313

304.769.0821 Phone
304.769.0822 Fax

January 25, 2011

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

**RE: Expression of Interest to Provide Architectural / Engineering Design Services
DEFK11024 – Access Road, Utility Upgrades and Site Grading
Charleston Armory Complex, Kanawha County, West Virginia**

Dear Ms. Lyle:

Michael Baker Jr., Inc. (Baker) is pleased to present our qualifications and experience as they relate to the above referenced project for the West Virginia Army National Guard. During your review of the enclosed information, you will see that Baker has completed or is currently working on project assignments *identical* to those outlined in your solicitation.

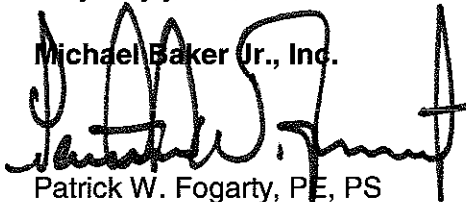
Baker is a national consulting firm of some 2,900 members in over 80 office locations and vast DOD experience with all branches of the military. We propose to manage this assignment from our Charleston office which employs over 35 individuals including engineers, landscape architects, planners, architects, surveyors, environmental specialists, and technicians.

We feel that our combination of DOD expertise, regional experience and close proximity is unique to Baker and will provide efficient, timely, personal, cost effective, and quality solutions for the West Virginia Army National Guard and the Division of Engineering and Facilities.

We continue to strive to be the best at what we do. No other firm can match our commitment. We would welcome the opportunity to personally present our qualifications and project approach. Should you have any questions or require additional information, please contact me at (304) 769-0821 or by e-mail at pfogarty@mbakercorp.com.

Very truly yours,

Michael Baker Jr., Inc.



Patrick W. Fogarty, PE, PS
Civil Services Group Manager

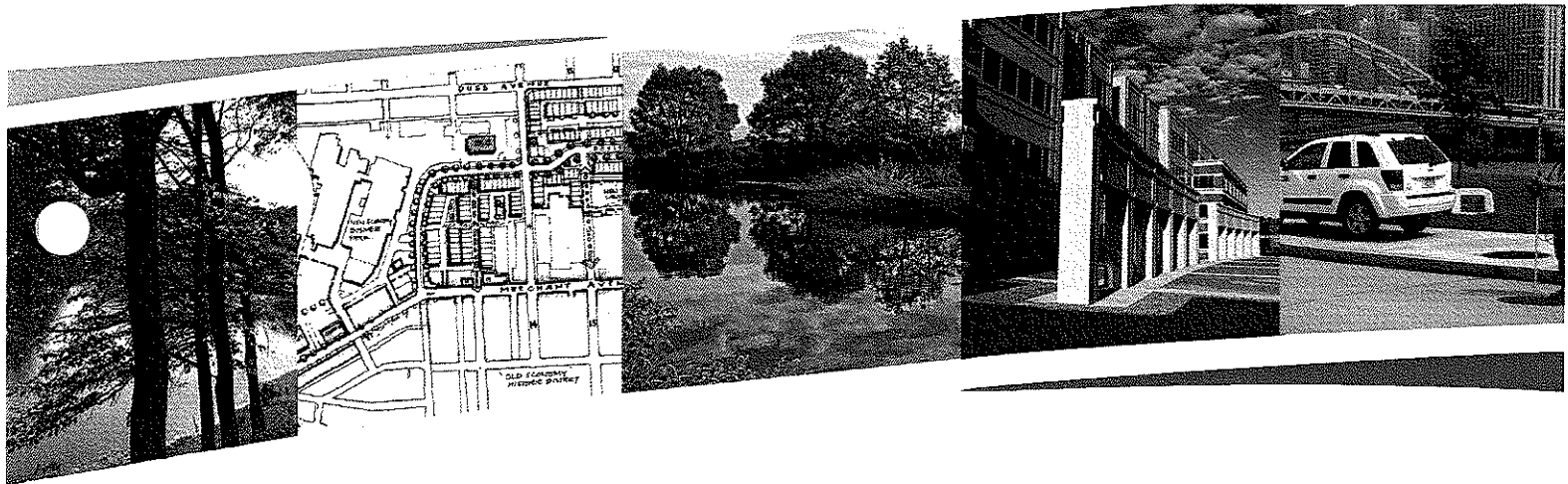


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Part 1 – Introduction

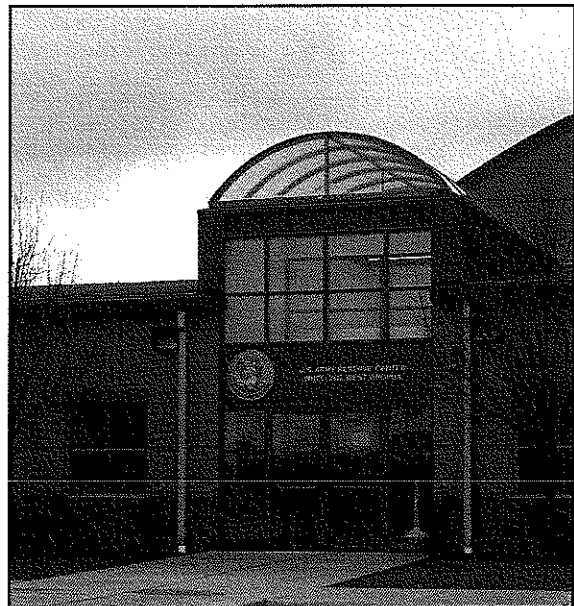
The Division of Engineering and Facilities, West Virginia Army National Guard is seeking a highly qualified firm experienced in program management, planning, design, and construction administration to provide A/E services for an access road, utility upgrades and site preparation at the Charleston Armory Complex in Kanawha County, WV. Michael Baker Jr., Inc. (Baker) is a highly qualified firm with extensive experience in providing these services, and we are extremely interested in continuing a professional relationship with the Division of Engineering and Facilities, West Virginia Army National Guard (WVArNG).

“... we are extremely interested in continuing a professional relationship with the WVArNG.”

Corporate Capabilities

Baker is a wholly owned subsidiary of the Michael Baker Corporation (a publicly owned company traded on the American Stock Exchange), employs over 2,900 people in 80 offices world-wide, and ranks in the top 10% of the nation's top 500 engineering firms. Baker provides consulting, engineering, architecture, operations, and technical services worldwide. The firm has a national practice with 50 offices throughout the U.S. from which to serve clients nationally. Our multi-national architectural/engineering services result in over \$400M gross revenue per year. Since our founding in 1940, Baker has compiled an outstanding record of transportation engineering design achievements including more than 1,000 bridges of every description and over 100,000 miles of roadway. We are committed to using computer technology and provide services in the areas of Water Resources, Environmental Design and Permitting, Geographic Information Systems, GPS and Field Data Collection, Infrastructure Management, Database Development, Computer/Web Programming, and CADD.

Baker has extensive resources and the required qualifications to provide planning and design services for the WVArNG for this important project. We have nationally recognized experts with the technical experience necessary for this assignment.

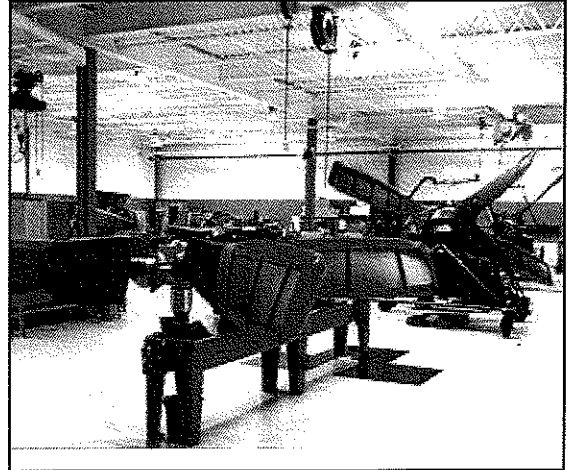


Design/Build of U.S. Army Reserve Training and Maintenance Center, Wheeling, WV

In addition, Baker's team of experienced professionals have an established record of delivering quality work products to our clients, on schedule and within budget.

In summary, Baker's staff can provide documentation of our extensive experience in the following areas for this project:

- Nationally recognized expertise in Program Management Assignments
- Facilities (Buildings, Access, Parking, Site Development) Plan Preparation
- Construction Administration and Construction Monitoring
- Coordination with State and Federal Agencies, as required



Aircraft Engine Inspection and Repair Shop, WV Air National Guard

Baker's Charleston office is a "single-stop resource" capable of providing comprehensive professional services, from environmental planning, final design, and construction management through operational support. From major new bridges and roadway designs to surface mine permitting, aviation, and water resource projects, Baker has evolved into one of the leading engineering and energy services firms by consistently providing targeted solutions for its clients most complex challenges.

Baker's clients for site development projects include, but are not limited to, counties, cities, towns, local municipalities, numerous state departments of transportation, military facilities, airport complexes, and private sector clients. Baker's geographic location and extensive experience enables us to quickly respond to wide-ranging scopes of service in order to meet our client's needs.

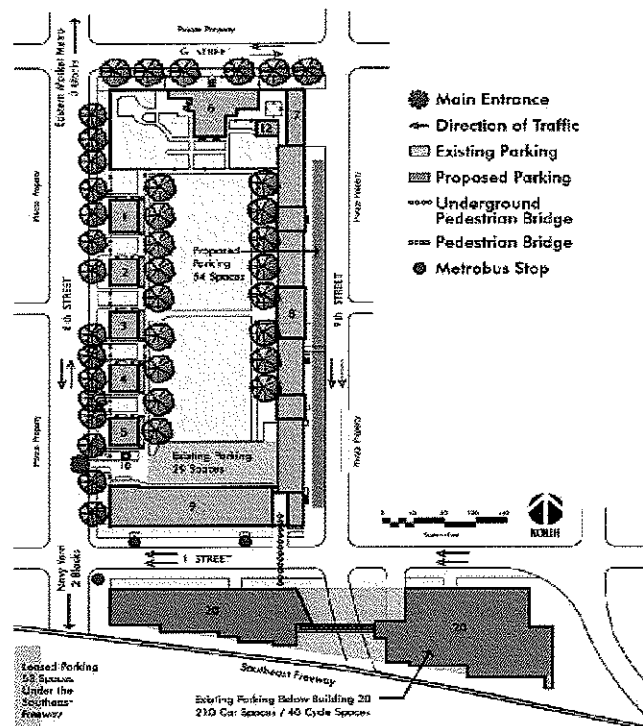


U.S. Army Reserve Readiness Training Center, OMS/AMSA, Wheeling, WV

Part 2 – Qualifications

Baker routinely provides architectural/engineering services and project management for the design of roads and bridges as well as the site preparation for future facilities, and the associated construction oversight when required. Project assignments have included maintenance facilities, garage facilities, emergency services facilities, and office buildings. Services for these assignments have included planning, surveying, mapping, right of way services, geotechnical design, architecture, civil, mechanical, electrical, plumbing and structural engineering, public safety programming, permitting and cost estimating. Specific project elements have included, architecture, landscaping, retainage structures, access road design, utility adjustment/relocation, storm drainage, water, and sewer connections, site design, parking, fire protection design, pump stations, electrical duct banks, gas mains, fiber optic communication systems, and corrosion control systems, HVAC design, oil/water separators, and security systems.

- Program Management
- Conceptual Planning
- Design Charrettes
- Coordination and Public Involvement
- Sub-surface Investigation
- Land Development Planning
- Building Facility Siting
- Architecture and MEP
- Screening and Noise Abatement
- Landscape Architecture
- Permitting
- Construction Cost Estimating
- Right of Way and Easements
- Pre-Bid Meeting
- Bidding and Contracting
- Construction Inspection Services



Naval Facilities Planning, Chesapeake, Virginia

In addition, and of particular importance to this project, Baker is committed to sustainable design and the reuse of recycled materials on all projects with client approval. We have numerous LEED® accredited professionals on staff who are completely familiar with the five elements of the Leadership in Energy and Environmental Design, Green Building Rating System.

Part 3 – Technical Expertise

Baker can offer the WVArNG proven experience in the following Professional Services consistent with the requirements of projects of the type identified in your Request for Proposals. These services are performed *The Baker Way* which means that our client benefits from the streamlined internal process of Project Management, Communication, Quality Assurance and Project Delivery.

“. . . which means that our client benefits from the streamlined internal process of Project Management, Communication, Quality Assurance and Project Delivery.”

Preliminary Planning and Costs

During this phase, Baker proposes to prepare a Preliminary Engineering Report, Subsurface Investigation (if required), Concept Plan, and Opinion of Probable Construction Cost. These documents will detail the individual elements required for the engineering, public safety, environmental and permitting issues associated with the proposed improvements.

Members of our Charleston office have recently completed both Design Development and Construction Document submissions for local clients in accordance with the WVArNG, and other local development agency requirements. These documents are currently awaiting the Bidding and Construction phases of the project. Detailed Cost Estimates for Construction, Operation and Maintenance, Engineering, Right of Way, and Utility Extensions/Relocations are prepared and included in the Preliminary Engineering Report submittals.

Plans and Specifications Preparation

Baker has vast experience in the development of construction plans, details, and technical specifications for all types of architectural and engineering projects. Initial survey data, topography, and physical features are collected electronically and downloaded into our CADD system for use by the designers. Plan and/or Profile sheets are then developed. Detail Sheets are created from our Detail Library then modified to suit specific project applications. Specifications are created from our Master Spec Library and tailored to meet individual project requirements.

During the project design phase, Baker routinely prepares permit applications for public and private clients. We have recently been involved in this process for local Towns and Public Service Districts. Permits which may be required for this project include:

- WV Department of Environmental Protection, NPDES Permit;

- WV Department of Health & Human Resources, Water or Sewer Permit;
- WV State Historic Preservation Office (SHPO) Section 106 Review;
- WVDOT/Division of Highways, MM-109 Permit.

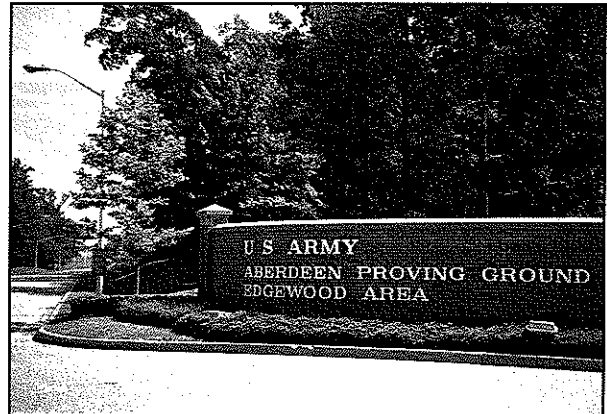
We have established relationships with each of these agencies which will streamline the permit acquisition process.

Construction Administrative Services

Baker is well equipped to provide the administration and inspection of construction projects. Pre-Construction and regular job-site meetings, as well as shop drawing review, requests for information, pay requests and all other construction-related correspondence will be the responsibility of the Project Manager. Resident inspection services will be conducted by Baker technicians or staff engineers trained in construction practices and certified, as required, for the particular type of installation (i.e. concrete placement, compaction, asphalt, trenching, etc.). Constant communication between field and office is essential and will be achieved via cellular telephone, internet access, and facsimile.



National Guard Bureau IDIQ, Design/Build RFQ/RFP Development for Statewide Construction Program, Pennsylvania



US Army Corps of Engineers, Baltimore District Aberdeen Proving Ground, Maryland

Part 4 – Management and Staffing Capabilities

The management approach for this assignment will follow *The Baker Way* which is the clearly defined and scalable internal process by which all projects are managed throughout Baker. This process requires administrative training for all Project Managers. This training module is known as *Baker BEST* (Business Enterprise Systems Training) and includes project setup, delivery, and billing modules.

Through better organization, tools and methods to monitor budgets, an emphasis on communication, and a structured approach to delivering quality; *The Baker Way* clearly provides considerable value to our clients.

Baker's Charleston office possesses a large and diverse engineering, architectural, and environmental planning staff. Baker's proposed team of experienced professionals has demonstrated the ability to deliver quality work products to our clients, on-time and within budget. While Baker can provide the entire depth of services necessary to complete the project, we will be willing to subcontract certain services (i.e., surveying, geotechnical engineering, inspection and testing, etc.) in an effort to control cost or to meet any small and/or disadvantaged business participation goals established by the WVArNG.

Each individual on this project team has extensive experience in their field of expertise and have demonstrated success on projects of similar size and scope. The following provides a brief discussion of each team member's experience base relevant to this project.

As Principal-In-Charge, **Russell Hall, PE, PS**, will ensure that all required resources including staff and equipment are available to the project manager to execute the project successfully. Mr. Hall has over 25 years of experience in transportation engineering working in both the government and private sectors. Mr. Hall has been responsible for the design and management of multiple transportation projects of varying size and complexity. His experience, understanding of project delivery and dedication to client satisfaction will guide this project.

Patrick W. Fogarty, PE, PS, is our Proposed Project Manager. Mr. Fogarty has over 26 years of experience with civil engineering projects of various size and levels of complexity. Mr. Fogarty will ensure that quality deliverables are submitted according to project schedule and within budget. Some of his notable projects that are directly related to the current proposed project are as follows:

- Camp Dawson Improvements, State Armory Board for West Virginia
 - Training Set Fire Observation Facility
 - Ammo Supply Point

- Fuel Supply Point
- Vehicle Storage Area Renovation
- 130th Airlift Wing, West Virginia Air National Guard
 - Aircraft Parking Apron Expansion
 - Squadron Operations Facility
 - Project 2000 Base Facilities Relocation
- Shop/Motor Pool Renovations, Barbour Amory
- Maintenance Shop and Parking Area Renovations, Clarksburg Armory
- Storm Water Management Planning, Eleanor Armory

Ronald M. Schirato, PE, LEED AP, will provide QA/QC for the project. Mr. Schirato has over 14 years of diverse civil engineering experience with numerous military facilities across the United States and overseas. Some of Mr. Schirato's directly related notable projects are as follows:

- Readiness Centers for PAARNG Stryker Brigade Combat Team (Lewistown, Butler, Hanover, Pennsylvania)
- Armed Forces Reserve Centers, Louisville District, U.S. Army Corps of Engineers (Various locations)
- Afganistan National Border Police Zone Command Projects, Middle East District, U.S. Army Corps of Engineers (Various locations)

R. Todd Schoolcraft, PLA, ASLA, will provide planning and design support. Mr. Schoolcraft has over 19 years of experience in military facilities planning and design. He will be responsible for coordinating the preparation of all site-civil related plans and documents and ensuring adherence to DOD standards. His experience includes numerous military installations, armories, and armed forces readiness center projects. Some of his notable projects that are directly related to the current proposed project are as follows:

- A/E Services for the Office of the Adjutant General, WVARNG DEF
- Alloy Armory Berm Repair, WVARNG DEF
- Parking Lot Expansion and ADA Accessibility Upgrade, FWAATS
- Robert E. Rooney Marshalling Yard & Rinse Facility, Port Ash Shuaybah, Kuwait
- Building 5 Command Group Renovations, Zone II, Camp Arifjan, Kuwait
- Port Shuaybah Pier Assessment, Port Ash Shuaybah, Kuwait

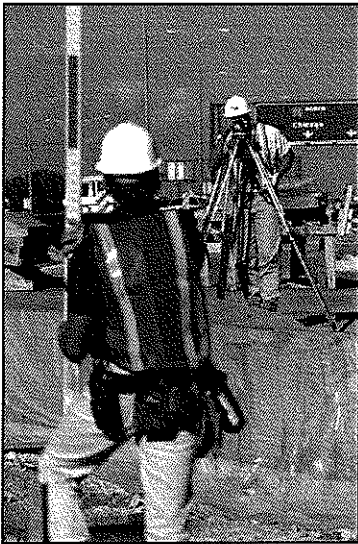
- APOD Consolidation Project, Kuwait City International Airport, Kuwait
- 130th Tactical Airlift Wing Project 2000, WVANG

Daniel Fint, P.E. Mr. Fint has over 11 years of experience in all aspects of roadway/highway design. Mr. Fint will support the design and plan preparation functions for the project.

Robert Holbert, P.E., will be primarily responsible for alignment geometrics and plan production for the project. Mr. Holbert has over 11 years of extensive experience with geometric design using MicroStation and Geopak design software.

Joseph L. Crowder, PS, will provide site surveying and base mapping duties. Mr. Crowder has over 18 years of surveying and topographical mapping experience as it relates to site-civil and architectural projects.

We propose to engage **NGE, PLLC**, a St. Albans, WV based and Certified DBE Geotechnical Engineering firm to provide drilling and subsurface investigation services, if necessary. Baker and NGE have worked successfully on numerous projects in the past.



Baker Surveying



Baker Construction Monitoring

Part 5 – Project Outline

Technical Approach

Pre-Design Planning

During this phase Baker will collect all available data including utility maps, property plats, record drawings, etc. We would have discussions with the WVArNG's selected groups for goals, aspirations, budget constraints and timelines. We will work with the WVArNG and the end users to develop the basic program and all other functional elements.

Preliminary Plans and Costs

Once all programming data has been acquired, we will work with the WVArNG to develop conceptual layouts for the access road and building pad.

Baker proposes to prepare preliminary site plans, plan and profile sheets and schematic details with supporting documentation. This document will describe the individual elements required for the



engineering, public safety, environmental and traffic issues associated with the proposed improvements.

Preliminary Cost Estimates for Construction will be prepared and included in the submittal.

Design Development Documents

Once concepts have been approved by the WVArNG, Baker will prepare the Design Development Plans and Specifications for client review. A 75% Design Submittal of the construction documents will also be prepared for review and approval.

Plan and Specification Preparation

Upon receipt of comments from the Design Development submittal, Baker will finalize the construction plans, technical specifications, bid documents, final construction estimates, and all necessary constructions permit applications. Initial survey data, topography, and physical features are collected electronically and downloaded into our CADD system for use by the designers. Plan and/or Profile sheets are then developed. Detail Sheets are created from our Detail

Library then modified to suit specific project applications. Specifications are created from our Master Spec Library and tailored to meet individual project requirements.

Baker generally makes use of E.J.C.D.C. and/or A.I.A. bidding and contracting documents, as normally dictated by the funding agencies. Blank copies of these forms are included in the Project Manual and made available to all plan holders during the bidding process to minimize the risk of confusion or controversy and "level the playing field" for all prospective bidders.

Project Bid Evaluation

During this phase, if needed, Baker will conduct the Pre-Bid Conference, answer any technical questions, and provide clarifications for the preparation of any necessary Addenda. Bids will be scrutinized by the Baker Project Manager and the WVArNG prior to recommendation of contract award.

Construction Administration and Inspection

Baker is well equipped to provide the administration and inspection of construction projects. Construction administration services may consist of shop drawing review, processing requests for information, monitoring construction progress, conducting construction meetings, processing payment applications, and Davis-Bacon compliance interviews.

Resident inspection services will be conducted by Baker technicians or staff engineers trained in construction practices and certified, as required, for the particular type of installation (i.e. concrete placement, compaction, asphalt, trenching, etc.). Constant communication between field and office is essential for a successful project.

Project Closeout

Baker will develop the final punch list for incomplete work. Once these items have been completed, we will coordinate a final walk through inspection with representatives of the WVArNG and the Contractor to ensure that improvements on the project site are complete and in a clean condition prior to releasing the Contractor.

The one-year warranty period will commence at that time. The WVArNG will be urged to contact the Baker Project Manager during that time should any problems arise. We will promptly respond with a confirmation site visit and follow-up with the Contractor to ensure compliance.

Part 6 – Related Prior Experience

The following Project Descriptions illustrate Baker's related prior experience. We have included examples of facilities used for emergency services, maintenance, training, parking and support functions for both military and civilian clients at various locations across the nation. Many of these projects are LEED® and/or SPiRiT (Sustainable Project Rating Tool) rated. We believe these projects show the depth of our expertise in all aspects of engineering and architecture. While we propose to conduct activities from our West Virginia operation, these diverse project locations are meant to emphasize our *One Baker* philosophy, which simply means that the WVArNG will have access to the human resources, expertise, and technology of all Baker locations as particular needs arise.

"...the WVArNG will have access to the human resources, expertise, and technology of all Baker locations should the need arise."

Mr. Patrick Fogarty, our proposed project manager, has provided program management services on architectural/engineering projects in West Virginia for the past 25 years. His experience includes numerous military facilities as well as access and site preparation for military, municipal, commercial, and industrial facilities with elements similar to those which will be required for this project.

In addition to this project experience, members of Baker's Charleston office have established relationships with the numerous funding and regulatory agencies including:

- West Virginia Bureau for Public Health
- Federal Highway Administration (FHWA)
- USDA Rural Utility Service
- US Department of Commerce E.D.A.
- US Environmental Protection Agency
- WV Department of Environmental Protection
- WV Department of Transportation / Division of Highways

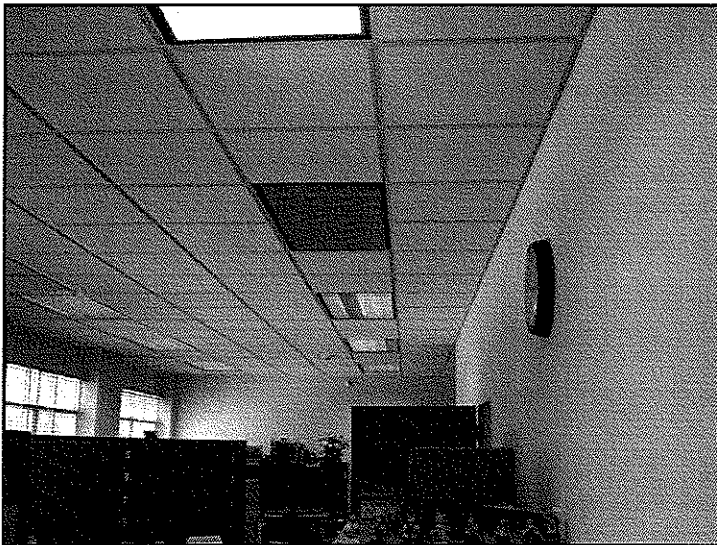
TAG Wing Renovations

Charleston, West Virginia

The State Army National Guard Headquarters in Charleston, West Virginia was originally constructed in the early 1960's. Over the years, there have been numerous upgrades to the facility. Baker was selected by the Division of Engineering and Facilities to provide complete design and construction administration services for the renovation of the first floor of the entire wing of the Office of the Adjutant General (TAG).

Baker worked closely with the Client during the planning phase to define a project scope that would upgrade the existing facility in a fashion consistent with previous renovations and within a limited budget.

Project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, several new wall partitions, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal.



Client

West Virginia Army National Guard
Division of Engineering and Facilities
1703 Coonskin Drive
Charleston, WV 25311-1085

Major Michael J. Beckner
Armory Facilities Manager
304-561-6333

Completion Date

Estimated: Spring 2008

Project Costs

\$225,000 (Estimated Construction)
\$25,500 (Fee)

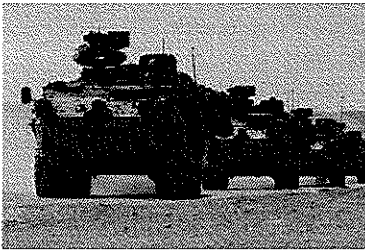
Baker's Role

- Planning
- Interior Design
- Asbestos Abatement
- Civil Engineering
- CADD Drafting
- Bidding
- Construction Administration



Design/Build RFQ/RFP Development for Statewide Construction Program PAARNG Stryker Brigade Combat Team, Statewide, PA

Under a National Guard Bureau IDIQ, Baker was selected by the United States Property and Fiscal Office for Pennsylvania (USPFO) and the Pennsylvania Army National Guard (PAARNG) to provide a series of defined and optional services for the development of Design/Build Requests for Proposals (RFPs) to support the PAARNG's 56th Brigade's conversion to a Stryker Brigade Combat Team (SBCT) for two sites, Erie and Philadelphia. Subsequently, Baker was selected for a "Stryker specific" indefinite delivery indefinite quantity (IDIQ) contract to support PAARNG's statewide Stryker transformation. In addition, Baker worked with the Pennsylvania Department of General Services (DGS) to create the program's Application for Qualification for potential design/build teams that wish to be considered for contracts under the program.



The Stryker, first put into service in 2001, is the new lightweight tank with rubber tires that is designed for urban warfare maneuverability and portability to any place on Earth within 96 hours or less.

Baker's current work under the \$167,000,000 statewide construction program includes the development of program and project-level design/build RFP documents for sites throughout the Commonwealth of Pennsylvania. Key program components include two building types: Readiness Centers for the training of SBCT Soldiers and Field Maintenance Shops for the maintenance and storage of a variety of military vehicles, including the Stryker military vehicle. The Readiness Centers consist of administrative offices, training centers, and conference facilities, with support spaces such as kitchens and dining areas. The Field Maintenance Shops consist of vehicle maintenance bays, storage facilities, and support spaces. The sustainable design goal is for each finished facility to qualify for a SPiRiT Gold sustainable design rating for FY 2006 and FY 2007, and meet an equivalent LEED® Silver Rating for FY 2008.

Client

US Property and Fiscal Office for
Pennsylvania
PA Department of Military and
Veteran Affairs
Building S 0-47, Fort Indiantown
Gap
Anville, PA 17003-5003

Michael G. Koontz
Contracting Officer
717-861-8643

Completion Date

Estimated: 2007

Project Costs

\$97,300,000 (Construction)
\$3,933,188 (Fee)

Baker's Role

- Sustainable Design (SPiRiT/LEED®)
- Architecture
- Civil Engineering
- Structural Engineering
- Mechanical, Plumbing, and Fire Protection Engineering
- Electrical Engineering
- Outline Drawings and Specifications
- Cost Estimating
- Scheduling
- RFQ Development
- Construction Management Support Services
- Land Development
- Permitting

Baker's task orders include Design/Build RFP document development for structures at the following sites: Erie - a new Readiness Center and a new Field Maintenance Shop; Philadelphia - a new Readiness Center and Field Maintenance Shop; Elizabethtown - a new Readiness Center and a new Field Maintenance Shop; and Bradford and Huntingdon - new Readiness Centers.

Additionally, Baker is developing Design/Build RFP documents for the additions and alternations to Readiness Centers in Lewistown, Punxsutawney, Butler, Hanover, and Lebanon.

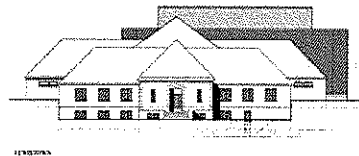
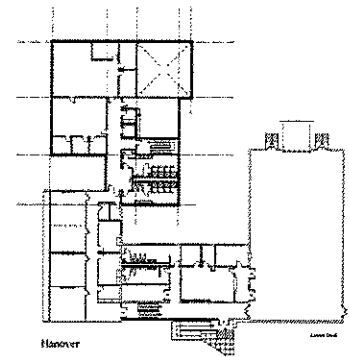
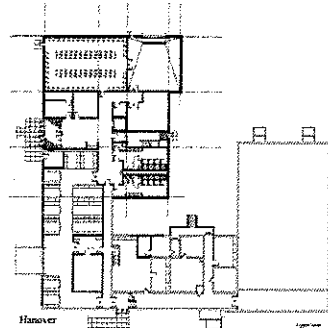
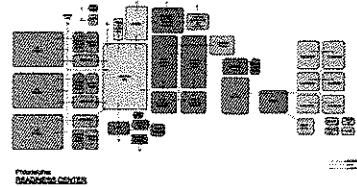
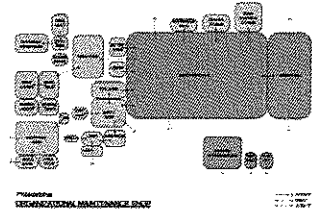
Baker's services include the following: site investigation, an on-site programming and design charrette for each site, significant architectural and structural engineering services, sustainable design focusing on the military's SPiRiT rating and LEED®, the development of outline specifications for multidiscipline engineering services in support of the design/build teams that will be selected later by the Pennsylvania DGS, "nearly complete" civil engineering and foundation design services, surveying and geotechnical engineering, land development, permitting, scheduling, cost estimating, and other related construction management support services.

In 2005, Baker's architectural space layouts, engineering requirements, and certain equipment and material selection modules that were prepared for the statewide program were incorporated into the Army National Guard's Design Guides.

Baker will also support the USPFO, the PAARNG, and their state partner, the Pennsylvania DGS, during their selection of the design/build teams that will carry forward Baker's Project Definition Documents to completed buildings. As construction at the various Pennsylvania sites takes place, Baker also anticipates being contracted to provide construction management services to DGS.

Project Features

Special Requirements: Design new and renovation of existing facilities to current building codes standards with particular attention paid to Anti-terrorism & Force Protection, security and intrusion detection, sustainable design (SPiRiT and LEED®) all while working within limited budgets.



U.S. Army Reserve Center OMS/AMSA/STRG

North Canton, Ohio

The U.S. Army Reserve required a Training Center and Organizational Maintenance Shop/Area Maintenance Support Activity (OMS/AMSA) facility for the 88 Reserve Support Command in North Canton, Ohio. The complex was to be of design-award-winning caliber as well as functional, durable, and easy to maintain while being sensitive to first costs, operating costs, and aesthetics. The 88th RSC includes the following units:

- 416th FETDA
- 192nd Company Petro Supply
- 762nd Transportation Company
- 758th Maintenance
- 256th CSH Hub Detachment 2
- 79th QM Company Detachment 2
- 447th MP Company
- AMSA 3-Canal Fulton

Approximately 400 reservists will work and train in the new facility. The Army Reserves units are currently housed in three government-owned facilities, two leased facilities, and one facility on leased land. The new complex will reduce operational costs to the government while significantly improving unit readiness and mobilization, and will increase the proficiency of service members.

This 61,344-gross-square-foot Training Center and OMS/AMSA comprise a one-story L-shaped building with a two-story element at the connection of two wings. Clerestory translucent panels were used in the maintenance bays and unit storage areas to allow the opportunity for daylighting and design expression.

The Training Center portion of the building houses offices and administrative spaces, caged unit storage, classrooms, library, learning center, physical readiness, engagement skills trainer, COMSEC training room, arms vault and armory's room, assembly hall, kitchen, toilets, lockers, showers, and building support functions.

The OMS/AMSA portion of the building houses office and administrative areas, tool and parts

Client

U.S. Army Corps of Engineers,
Louisville District
Room 821
600 Dr. Martin Luther King, Jr. Place
Louisville, KY 40201-0059

Joseph Gates

Project Manager
502-315-6849

Mary Ann Just

Project Engineer
502-315-6365

Completion Date

2006

Project Costs

\$11,051,699 (Construction)

Baker's Role

- Design/Build Delivery
- Architecture
- Architectural Renderings
- Mechanical Engineering
- Fire Protection and Plumbing Engineering
- Electrical Engineering
- Structural Engineering
- Site/Civil Engineering



storage, 10 work bays, one welding bay, controlled and flammable storage, wash bay, and building support functions. One drive-through bay is serviced by an overhead traveling crane.

The project also included paving design for on-site parking and storage for 238 military vehicles, including Hum-V's and trailers, along with 150 spaces for privately-owned vehicles. Additional on-site storage is provided by an unheated storage building, a long narrow pre-engineered metal building with two small enclosed spaces for the storage of fittings. The remainder of the building is open on one side and used for the storage of fuel bladders.

Design Charrette

An on-site design charrette kicked off the project and included all project stakeholders: the U.S. Army Reserves, the U.S. Army Corps of Engineers, and the design/build team members. The project's conceptual design was jointly developed, carrying forward and further developing the design intent established in an earlier phase.

The new energy-efficient facility was designed to achieve a Silver SPiRiT Rating for sustainability. Design considerations include water-efficient landscaping, use of recycled and sound-absorbing building materials, collection and storage area to accommodate a recycling program, and an overall design that will accommodate other potential building uses into the future.

The Design/Build Team

Baker teamed with New Era Builders, Inc. and Mascaro Construction Company for this design/build project, providing the architectural and engineering design services from 35% documents through construction.

Project Features

- Project improves mission readiness for the 88th RRC unit of the U.S. Army Reserve.
- Project provides modern and convenient training and maintenance facilities for the 88th RRC unit of the U.S. Army Reserve.
- Designed for the Silver SPiRiT sustainable rating.



U.S. Army Reserve Center OMS/AMSA/STRG Greenville, SC

Baker designed a replacement structure for the 1st Thomas Kukowski Army Reserve Center (Kukowski ARC) in Greenville, South Carolina. The facility, built in 1975, was determined to be in poor condition and didn't meet the minimum Department of Defense anti-terrorism/force protection standoff distance requirements for a primary gathering place, rendering the structure inadequate for expansion. Plans included demolishing the older facility and replacing it with a new 88,500-square-foot multi-story Training Center and Organized Maintenance Shop/ Area Maintenance Support Activity (OMS/AMSA), and Unheated Storage (STRG) to accommodate 600 reservists from the consolidation of the Kukowski ARC and two other ARCs.

The new permanent structures were designed with structural steel frames, masonry veneer exterior walls, and standing seam metal roofs. The project includes design of the HVAC mechanical, plumbing, fire suppression, electrical, and security systems, and has energy-efficient lighting, and automated building HVAC and lighting system controls. The Training Center and OMS/AMSA is equipped with a fire suppression sprinkling system. Interior design services are to follow furniture procurement package requirements for Army Reserve Centers, using the USAR Furniture Design Guide and USAR Furniture Standards Knoll Product Criteria.

Supporting facilities include site preparation, stormwater management plan, paving, fencing, security lighting, site signage, wash racks, storm drainage, and extension of utilities. Force protection measures were incorporated by using the maximum feasible standoff distances from roads, parking areas, and vehicle unloading areas.

Although asbestos and lead dust surveys had previously been performed by the government, Baker's state-accredited inspectors and environmental engineers took samples of suspected asbestos containing materials for testing at a NVLAP-accredited laboratory. An on-site inspection was also performed to identify potential PCB-containing equipment (e.g., transformers, light ballasts) to identify the extent of on-site hazardous materials requiring proper removal and disposal prior to demolition.

Client

U.S. Army Corps of Engineers,
Louisville District
Room 821
600 Dr. Martin Luther King, Jr. Place
Louisville, KY 40201-0059

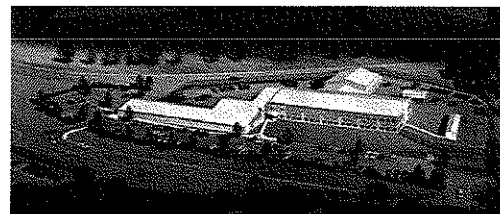
Mary Ann Just
Project Engineer
502-315-6365

Completion Date
2005

Project Costs
\$13,813,700 (Est. Construction)
\$1,338,640 (Fee)

Baker's Role

- Planning
- Design Charrette
- Site/Civil Engineering
- Hydraulics and Hydrology
- Stormwater Management
- Erosion and Sedimentation Control
- Permitting
- Utility Investigations/Relocation Design
- Geotechnical Engineering
- Anti-Terrorism/Force Protection
- Architecture
- Life Safety and ADA Compliance
- Structural Engineering
- Mechanical Engineering
- Plumbing Engineering
- Fire Protection Engineering
- Electrical Engineering
- Environmental Engineering
- Scheduling



This project is a Task Order under an Indefinite Delivery Indefinite Quantity Contract with the Louisville District, U.S. Army Corps of Engineers. Professional services range from conducting a design charrette to preparing construction bid documents, to performing construction administration. A complete design, including plans and specifications that meet a Gold SPiRiT rating, seismic analysis, bid schedule, an order of work clause, construction contractor submittal register, quantity and cost estimates, M-CACES construction cost estimates, proposed construction schedule, design analysis and calculations, design documentation report, and engineering considerations and instructions reports, as well as preparation of DD Form 1354 (Transfer of Real Property) are components of this project.

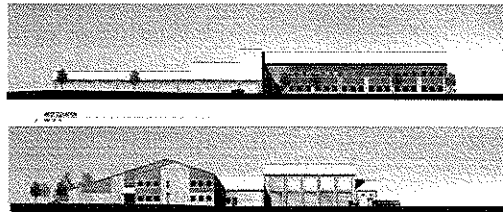
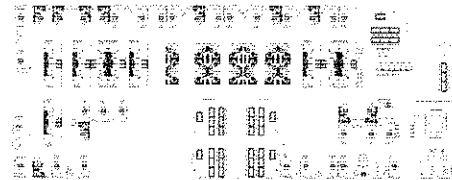
Project Features

Training Center is 67,000 square feet.

Organized Maintenance Shop is 18,000 square feet.

Unheated Storage Facility is 3,500 square feet.

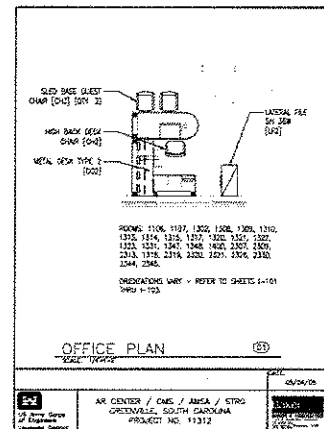
Building designs comply with Department of Defense Uniform Facilities Criteria and the Design Guide for U.S. Army Reserve Facilities, UFC 4-171-05, dated November 2003.



- UFC 1-200-1 Design: General Building Requirements (provides guidance for the use of model building codes for design and construction of DoD facilities)
- Public Law 104-113, National Technology Transfer and Advancement Act of 1995 requires Federal use of private sector consensus standards wherever practicable. The goal of the law is to reduce reliance on Federal standards by using industry standards when there is potential to simplify contracting, increase timeliness and cost effectiveness, and promote the safety and welfare of users
- The Louisville District Design Guide (LDDG)
- An important guidance document for doing business with the Louisville District and contains technical information, detailed requirements, and quality expectations supplemental
- Federal, state, and industry standards

Software that was used on project:

- SPECSINTACT
- M-CACES
- CADD Software: MicroStation

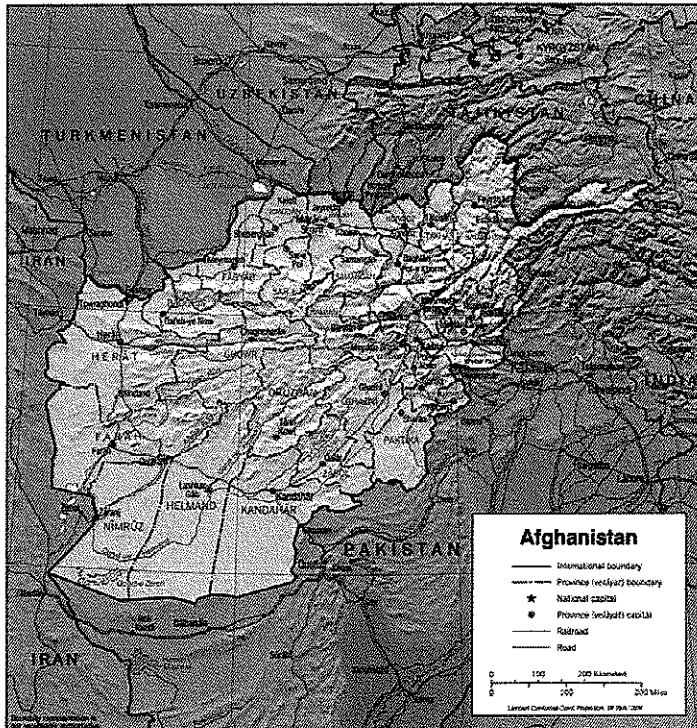


Afghanistan National Civil Order Police (ANCOP) Projects

Various Locations in Afghanistan

Baker prepared the Ready-to-Advertise complete designs, specifications, and construction cost estimates for three different sized standard Afghanistan National Civil Order Police (ANCOP) projects. The work was conducted for the Afghanistan Engineering Division (AED) of the U.S. Army Corps of Engineers (USACE) under the IDIQ contract that Baker has with the USACE – Transatlantic Programs Center (TAC) located in Winchester, Virginia. Each design was intended to function as a proto-typical design for use by AED, in Afghanistan, with final designs site adapted for use at any geographic location within the country by the successful contractor.

The structures were designed to house various functions for active duty personnel of the Afghan National Police. An important element of each design was the requirement that the compound be fully sustaining and self-sufficient, requiring that each compound design include electrical generation capability (diesel generators), fuel storage/dispensing facilities, water



Client

U.S. Army Corps of Engineers, TAC
TransAtlantic Division
P.O. Box 2250
Winchester, VA 22604-1450

John Babbs
Project Manager
540-665-3935

Dave Worthington
540-665-3775

Completion Date

Estimated: 2008
Actual: 2008

Project Costs

\$1,153,421 (Fee)

Baker's Role

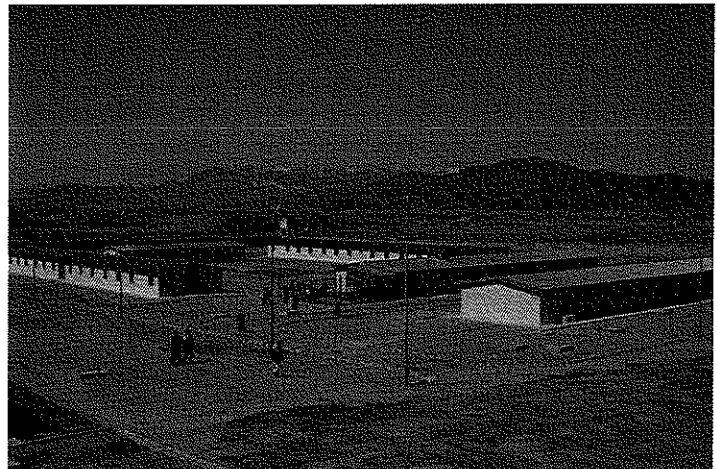
- Architecture
- Structural Engineering
- Mechanical Engineering
- Plumbing Engineering
- Electrical Engineering
- Site/Civil Engineering
- Anti-terrorism and Force Protection
- Construction Cost Estimates
- Infrastructure Engineering:
 - o Water Supply, Treatment, and Distribution Systems
 - o Sanitary Sewer Systems
 - o Roadway Engineering

supply, treatment and distribution systems, sanitary sewer systems and on-site sanitary treatment, provisions for stormwater management, primary and secondary entry control points, and an internal roadway system. Because of anticipated fuel shortages that could limit electric power availability, the water system design incorporated mechanical backups to maintain water supply and pressure without electric power, where practical.

Each design project included structures/buildings, infrastructure, and force protection requirements to house, feed, train, protect, maintain, and sustain elements of the National Civil Order Police. While many of the structures and facilities were similar, each design was adapted for specific occupancy levels. The three projects completed, and the corresponding design occupancy levels, were as follows:

- a. ANCOP Urban Unit (185 policemen)
- b. ANCOP Patrol Battalion (228 policemen)
- c. ANCOP Patrol Battalion and Brigade Headquarters (305 policemen)

The purpose and intent of the ANCOP design projects was to allow the immediate let for bidding and subsequent construction for utilization by the Afghan National Police as soon as possible. The compounds have various sizes and configurations depending on the size of the functional unit the compound will support, and in what general area of the country it will be located.



Force protection measures were incorporated into the design by including the maximum feasible standoff distances from the force protection perimeter wall.

Due to unknown conditions, the site layouts were developed using the smallest feasible footprints.

Several building types were included in each compound, including: Administration Building, Dining Facility (DFAC), Training Facility, Toilet and Shower building, Middle Barracks, Women's Barracks, Senior and High Barracks, Logistics Facility, Warehouse, Laundry building, Vehicle Maintenance Facility, Ammunition Supply Building, Guard Shack, Gate House, Guard Towers, Canopies, and Well House. The various structures were designed to take advantage of using typical details common to multiple building types. The sizes and general layouts of the facilities were developed in accordance with project requirements issued at the beginning of the project and confirmed through the Design Charrette.

Administration Building:

The Administration Building is a two-story building that houses office space in the form of private offices and open office space, interrogation and observations rooms, holding cells, weapons storage room, evidence storage room, commander's suite including sleeping quarters, toilet and shower, and office, conference room, situation room, toilet rooms, and interior stairways. The layout was organized around a central corridor with a stairway at opposite ends, and toilet rooms in the center. The design utilized exterior load-bearing CMU construction with each corridor wall being an interior load-bearing wall.

DFAC:

The Dining Facility is intended to be a pre-engineered metal building with interior CMU infill to obtain the required resistance to abuse. This will allow the DFAC to be a clear-span and to possibly be used for provincial gatherings and meetings. The DFAC has two separate seating areas (one for middle/ordinary ranks, and the other for senior/high ranks), food preparation area, office, cool storage with provisions for a future walk-in refrigerator/freezer, and an outside annex with wood-burning stoves and wood storage.

Training Facility:

The Training Facility is a pre-engineered metal building allowing a clear-span, and has the ability to be subdivided by way of an operable partition.

Toilet and Shower building:

The Toilet and Shower building contains separate areas for toilets, lavatories, showers, and ablution areas. These facilities are intended for middle/ordinary-ranked personnel. The design utilizes the same basic transverse section as the administration and other facilities, but is one story and has internal columns in lieu of the load-bearing interior walls. High windows are provided for natural light.

Middle Barracks:

The Middle Barracks is a one-story open plan utilizing exterior bearing wall construction with interior columns. It is sized for 50-60 occupants. There are varying quantities of barracks per compound depending on the quantity of middle/ordinary-ranked personnel assigned to it.



Women's Barracks:

The Women's Barracks is similar to the Middle Barracks with the following exceptions: toilet and shower facilities are integral to the barracks, and a separate room is provided for potential high-rank female personnel. The Women's Barracks only occur in BP Zone compounds.

Senior and High Barracks:

The Senior and High Barracks is a two-story design similar to the administration building in layout and construction. A central corridor with a stairway at opposite ends organizes the plan. Toilet and shower facilities are integral to the barracks. Private quarters are provided for senior personnel, and double rooms are provided for high-ranking personnel.

Logistics Facility:

The Logistics Facility contains two vehicle maintenance bays, an office, and warehouse space, and will utilize a pre-engineered metal building system with an increased height to allow for vehicles of up to four (4) meters high to enter the maintenance bays.

Warehouse:

The Warehouse is a small building with storage space for various types of goods. Designed for load-bearing CMU exterior walls, the warehouse also has an overhead coiling door.

Laundry Building:

The Laundry building houses multiple stainless steel laundry tubs in a design utilizing the standard transverse building section with load-bearing exterior CMU walls and interior columns. High windows are provided for natural light.

Vehicle Maintenance Facility:

The Vehicle Maintenance facility is a pre-engineered metal building to provide the required clear-span. Three maintenance bays are included along with an office, waste POL storage, tool room, and battery room. One maintenance bay includes a recessed service pit. Also included with the Vehicle Maintenance Facility is a POL building, which is a small CMU outbuilding for storage of POL products.

Ammunition Supply Building:

The Ammunition Supply Building is a reinforced concrete structure that will have earthen berms on three sides. The fourth side will have the entry door and will be situated so that the door faces the force protection perimeter wall. The building is split into two spaces, allowing for the proper separation of different classifications of ammunition.

Guard Shack:

Two Guard Shacks are provided at each compound. Each is a small one-room building with windows on all four sides. These buildings are used to house entry guards who inspect vehicles prior to entry through the primary entry control point.

Gate House:

The Gate House is situated just inside the force protection perimeter wall at the primary entry control point. It contains an office, a break room, and a storage closet.

Guard Towers:

Guard Towers are present on every outside corner of the force protection perimeter wall. They consist of an elevated enclosed platform with entry through an exterior stair, as well as an interior ladder with a hatch for emergency use. The towers have awning type windows with plastic glazing. A search light is mounted to the roof, allowing coverage along the outside of the force protection wall. An RPG standoff screen surrounds the outward facing facades of the towers.

Canopies:

A canopy is provided over the refueling point, the generators and switchgear, and the fuel storage tanks (which are all collocated). The canopy has a plywood ceiling that acts as a standoff against RGP rounds.

Well House:

The Well House is a small load-bearing CMU out-building used to protect the compound's water source.

To facilitate meeting the client's requirements, a Design Charrette was conducted shortly after project initiation and weekly telephone conferences were held to discuss and seek early resolution of design issues. Formal submittals included 65%, 95%, and pre-final designs for client review and comment. The final designs, specifications, and construction cost estimates were submitted following receipt and concurrence with the client's comments.

This project was performed in general accordance with current Transatlantic Programs Center (TAC) and Corps of Engineers criteria contained in engineering regulations, manuals, and other guidance. The design team strived to meet criteria that affect life safety at a minimum, and other facets of the applicable design criteria as are practical. It was not practical or feasible to meet all building codes and design criteria for accepted building practices in Afghanistan.

SpecsIntact software was used for the preparation of the project specifications in accordance with ER 1110-1-8155. TAC CADD standards were used as the basis for production of drawing files and layout to be completed and provided in AutoCAD. Construction cost estimates were prepared in accordance with USACE-TAC requirements using MCACES Gold software.

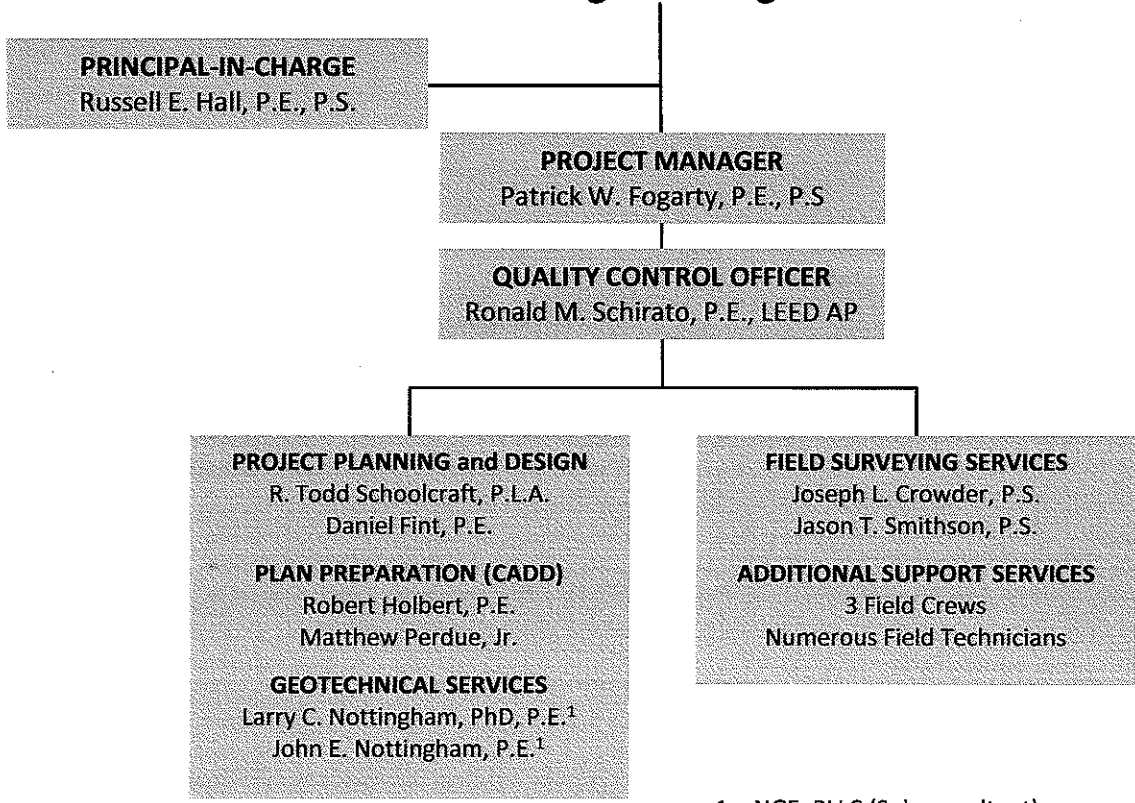
Project Features

- Provide Ready-to-Advertise designs to allow the immediate bidding and subsequent construction for utilization by the Afghan National Police as soon as possible.
- This project was performed in general accordance with current Transatlantic Programs Center (TAC) and Corps of Engineers criteria contained in engineering regulations, manuals, and other guidance.
- SpecsIntact software was used for the preparation of the project specifications in accordance with ER 1110-1-8155.
- TAC CADD standards were used as the basis for production of drawing files and layout to be completed and provided in AutoCAD™.
- Construction cost estimates were prepared in accordance with USACE-TAC requirements using MCACES Gold software.

Part 7 – Organizational Chart / Resumes



West Virginia Army National Guard Division of Engineering & Facilities



1 – NGE, PLLC (Subconsultant)

Russell E. Hall, P.E., P.S.

Charleston Office Manager

General Qualifications

Mr. Hall is an experienced transportation engineer who has been involved in numerous bridge and highway design projects in West Virginia for over 24 years. His project management responsibilities involve overseeing staff from project inception through completion, and ensuring that the clients' needs and requirements are met.

He has over seven years of experience in office management as well. His office management responsibilities include financial oversight and accountability for a staff of over 45 engineers, scientists, and administrative personnel for Baker's Charleston office. His major strengths include organizing and managing a project team, quality control and quality assurance, and problem resolution. He provides overall direction and maintains direct communications with all clients.

Mr. Hall is very proud of the fact that he has been able to spend his entire career in West Virginia working to address West Virginia's transportation needs.

Experience

2004 to Present, Michael Baker Jr., Inc. – *Office Manager* for the Charleston, West Virginia office.

1998 to 2004, Neff, Longest, and Beam, L.L.C. – *Office Manager* for the Charleston, West Virginia office. Responsibilities included the duties of both project manager and office manager. The following is a list of representative projects:

- **WV 9, Charles Town Bypass to Virginia State Line, Jefferson County** – The project provided for the preparation of construction and right of way plans for an approximately five mile section of 4-lane highway. This project included the design of two interchanges, four bridges, and multiple intersections and access roads. This project was divided into seven construction contracts.
- **Fetterman Truss Bridge, Taylor County** – The project provided for the preparation of construction and right of way plans for the replacement of the existing Fetterman Bridge in Grafton, West Virginia. This project included the design of a multiple span curved bridge over the Tygart River and a 200,000 gallon CSO tank.
- **Corridor H, Hardy County** – The project provided for the preparation of construction and right of way plans for a two mile section of 4-lane divided highway. This project included the design of one interchange, two bridges, and multiple intersections and access roads. This project was divided into three construction contracts.
- **Wellington Bridge, Roane County** – The project provided for the preparation of construction and right-of-way plans for the replacement of the existing Wellington Bridge over Spring Creek.

Years with Baker: 6

Years with Other Firms: 18

Education

B.S., 1985, Civil Engineering, West Virginia Institute of Technology

Professional Registrations

Professional Engineer, West Virginia, 1990, 10947

Professional Surveyor, West Virginia, 1996, 1878

- **I-64 Widening, Putnam County** – This project provided for the preparation of a design report and contract plans for the upgrade of I-64 to six-lane for the proposed US 35 interchange to the existing six-lane section at the 25th Street Overpass Bridge. Neff is a subconsultant to Site-Blauvelt and is responsible for surveys, right-of-way plans, all bridges except the Kanawha River bridge crossing, and the St. Albans interchange. The project is in the final stage of the design report phase. The design report phase assesses the engineering and environmental impacts of multiple alignments and interchange configurations.
- **US 35/I-64 Interchange, Putnam** – Neff was a subconsultant to Baker responsible for all right-of-way plan development.
- **New River Parkway, Summers and Raleigh counties** – Neff is a subconsultant to Kimley-Horn responsible for all right-of-way plan development.
- **US 52, King Coal Highway, US 119 Mingo County to US 460 Mercer County** – Neff was program manager for the entire corridor. The responsibilities include all engineering design review and approval; develop and maintain schedules; and coordinate with all resource agencies, the WVDOH, and the public.
- **Statewide Services Contract** – Neff provided construction and right-of-way development and review on an as needed basis.

1996 to 1998, West Virginia Department of Transportation – *In-House Design Section Head* for the WVDOH. Responsibilities included the management of four design squads containing approximately 15 engineers and 10 engineering technicians. The In-House Design staff was responsible for the design and preparation of construction and right of way plans for multiple projects throughout the state.

1994 to 1996, West Virginia Department of Transportation – *Consultant Review Section Head* for the WVDOH. Responsibilities included the management of five project managers. Each project manager was responsible for the oversight, review, and approval of consulting engineers' design work. Each manager was responsible for several consultants, most with multiple projects.

1991 to 1994, West Virginia Department of Transportation – *Consultant Review Section Project Manager* for the WVDOH. Responsibilities included oversight, review, and approval of consulting engineers' design work. Each manager was responsible for several consultants, most with multiple projects.

1988 to 1991, West Virginia Department of Transportation – *In-House Design Section Squad Leader* for the WVDOH. Responsibilities included the management of one design squads containing approximately 3 engineers and 2 engineering technicians. The design squad was responsible for the design and preparation of construction and right of way plans for multiple projects throughout the state.

1988 to 1991, West Virginia Department of Transportation – *In-House Design Section Project Engineer* for the WVDOH. Responsibilities included the design and preparation of construction and right of way plans for multiple projects throughout the state.

Patrick W. Fogarty, P.E., P.S.

Civil Services Group Manager

General Qualifications

Mr. Fogarty is an asset to the Michael Baker Jr., Inc. team with over 24 years of project management experience. He is responsible for technical and management aspects of civil design and surveying projects within the office. Mr. Fogarty has designed and managed projects in numerous disciplines including civil, structural and transportation engineering, site development, planning and surveying. These projects have included retail/commercial site preparation, airports, streets/highways, bridges, parking lots, buildings, retaining walls/foundations, sanitary systems and structures, as well as boundary and topographic and photogrammetric surveys. Duties included field surveying, drawings and specification preparation, design, design drafting, construction inspection, quality control testing, shop drawing review, project management, contract administration and report preparation. Management duties include financial planning, management and staff utilization for two departments, human resource planning, marketing, and strategic planning.

Experience

On-Call Engineering/Architectural Services, Yeager Airport (CRW), Charleston, West Virginia. *Central West Virginia Regional Airport Authority.* Project Manager. Responsible for management planning and lead design for miscellaneous assignments. Additionally, provided engineering consultation on a current construction project as needed. Baker provided multi-discipline, on-call services to the Central West Virginia Regional Airport Authority (CWVRAA), which owns and operates Yeager Airport (CRW). Baker provided a full range of services to CWVRAA on an "On-Call/As-Needed" basis, including architecture, civil, structural, mechanical, electrical and environmental engineering, general engineering administration, surveying, and construction management.

Flood Protection Options Report-Bonham Elementary School, Kanawha County, West Virginia. *West Virginia Division of Homeland Security and Emergency Management.* Project Manager. Responsible for the development of a report listing potential flood protection options for the facility. Baker was retained by the West Virginia Division of Homeland Security and Emergency Management to prepare a report to address flood protection options for Bonham Elementary School in Kanawha County, West Virginia.

Years with Baker: 5

Years with Other Firms: 19

Education

B.S. 1985, Civil Engineering, West Virginia University Institute of Technology

Diploma 1993, Surveying and Mapping, International Correspondence Schools

Registrations

Professional Engineer, West Virginia

Professional Engineer, Kentucky

Professional Engineer, Virginia

Professional Engineer, Pennsylvania

Professional Engineer, Maryland

Professional Engineer, Ohio

Professional Engineer, North Carolina

Professional Surveyor, West Virginia, Kentucky and Ohio

Certifications

Laboratory Procedures, FAA 1992

Construction Document Technologist, CSI 1996

Roadway Worker for Rail Line Sites, CSX 2001

40 Hour HAZWOPER, OSHA 29 CFR 1910.120, OSHA 2001

Technician, PCC, Asphalt, Aggregate, Compaction, WVDOT 1991

Pennsylvania Avenue Tunnel, Kanawha County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Project Manager. Responsible for complete services toward the development of Right of Way and Construction Plans for the rehabilitation of a 1 lane, tunnel structure on County Route 6/6 near the City of St. Albans. Services included field surveying, right of way, utilities verification and relocation, storm drainage, traffic control, structural design and approach road design.

PRIOR BAKER EXPERIENCE

130th Airlift Wing West Virginia Air National Guard, Yeager Airport, Charleston, West Virginia
Provided planning, surveying, design, and construction administration services at this facility on numerous projects including:

- As a Field Engineer, provided full construction administration services to include inspection, quantity determination, specification interpretation, and the coordination of all testing for the 15,000 cy PCC pavement extension of the aircraft parking apron.
- As a Project Manager and Lead Designer, provided surveying and design services to include site, structural design, coordination with Architectural and MEP consultants and scheduling and budgeting for the 3-story addition to the Squadron Operations Facility.
- As a Project Manager and Lead Designer, provided complete services toward the development of construction plans and specifications for the 50 acre site preparation element of *Project 2000* (the relocation of all major base facilities from runway elevation to the former Coonskin Driving Range).

State Armory Board for West Virginia, Various Locations, West Virginia

Provided planning, design, and construction administration services while serving as Project Manager for assignments at numerous armory facilities including:

Camp Dawson, Kingwood, WV

- Training Set Fire Observation Facility
- Ammo Supply Point
- Fuel Supply Point
- Vehicle Storage Area Renovation

Barbour Armory, Huntington, WV – Shop/Motor Pool Renovations

Clarksburg Armory, Clarksburg, WV – Maintenance Shop and Parking Area Renovations

Elanore Armory, Elanore, WV – Storm Water Management Planning

Structures Resources, Inc., Huntington, West Virginia

As a Project Manager and Engineer of Record, provided design, administration and quality assurance services for numerous Site Development projects for various locations in Cabell, Putnam, Kanawha and Wayne Counties in West Virginia. Services included site layout, grading and drainage, utility design, road and parking layout, pavement design, site lighting, permitting and construction administration.

Notable sites have included the following:

- Commerce Park (40 Acres, Industrial, Commercial, Residential), Cabell and Wayne Counties;
- The Hamlets (10 Acres, Residential), Cabell County;
- Lakeview Manor (12 Acres Residential), Wayne County;
- Carriage Hill (10 Acres, Residential), Kanawha County;
- Teays Commons (8 Acres, Residential), Putnam County.

Municipal Planning and Design, Various Locations, State of West Virginia

Performed numerous assignments as Lead Designer and Project Manager for various municipalities over the past 20 years, including: Planning, and Bituminous and Concrete Pavement Design and Rehabilitation, Sidewalk Design, Storm Drainage Design and Stormwater Permitting, Wetlands Delineation and Mitigation, Equipment Specifications, Sanitary Sewage Collection and Potable Water Distribution Systems, Parking Lot Design, Security Lighting, Environmental Site Assessments, Pre-Bid Meetings, Bid Evaluation and Tabulation, Grant Applications, Construction Management, Pre-Construction Meetings, Construction Phasing Plans, Outlay Requests and Project Close-Out Packages.

Notable clients included the following:

Town of Poca

Town of Moorefield

City of Buckhannon

City of St. Albans

Town of Hambleton

City of Williamson

Town of Mason

Town of West Milford

City of Bridgeport

Professional Affiliations

American Society of Civil Engineers

Society of American Military Engineers

International Right of Way Association

Construction Specifications Institute

American Planning Association

American Water Works Association

West Virginia Society of Professional Surveyors

Kentucky Association of Professional Surveyors

West Virginia Airport Managers Association

Previous Work History

Triad Engineering, Inc., Vice President/Senior Engineer/Civil and Survey Manager, 1996-2005

Chapman Technical Group, Vice President Transportation Engineering, 1991-1996

Chapman Technical Group, Project Engineer, 1986-1991

Steel Service Company, Senior Steel Detailer, 1985-1986

Ronald M. Schirato, P.E., LEED AP

Civil Engineer

General Qualifications

Mr. Schirato is a civil engineer with a broad range of experience in environmental permitting and engineering for site development on commercial and military and residential properties. He has extensive experience in storm water management, best management practices, utility infrastructure design, engineering for transportation (roadways), computerized hydrology and hydraulics, and management.

Experience

U.S. Army Reserve Center OMS/AMSA/STRG, Greenville, South Carolina. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Civil engineer of record for this design-bid-build project. Prepared conceptual site layout and participated in multi-day Charrette to shape the design of this site from a civil engineering perspective. Charrette phase work included a preliminary site layout developed in accordance with current Department of Defense Anti-Terrorism/Force Protection Measures for Buildings, grading and engineering design analysis. Final design included civil engineering construction drawings and specifications for the proposed site. Engineering work included coordination and permitting with local and state agencies, demolition plan development, geometric site layout, utility infrastructure design, erosion and sediment control design, stormwater pollution prevention plan development, NPDES permit coverage, site grading and earthwork analyses, stormwater management design, coordination of landscape plan development. Participated in project design review meetings. Responsible for managing geotechnical and surveying subconsultants. Baker designed a new 88,500-square-foot multi-story Training Center, Organized Maintenance Shop/Area Maintenance Support Activity (OMS/AMSA), and unheated storage (STRG) to accommodate 600 reservists. The new structures consist of structural steel frames, masonry veneer exterior walls, and standing seam metal roofs. The OMS/AMSA houses office and administrative areas, tool and parts storage, 10 work bays, one welding bay, controlled and flammable storage, wash bay, and building support functions. One drive-through bay is serviced by an overhead traveling crane. The Training Center houses offices and administrative spaces, caged unit storage, classrooms, library, learning center, weapons simulation room, physical readiness area, engagement skills trainer, a COMSEC training room, an arms vault and armorer's room, an assembly hall, kitchen, and building support functions. The project also included paving design for on-site parking and storage for military vehicles and for privately owned vehicles. An integrated design approach was used to achieve a Gold SPiRiT sustainability rating.

Task 0016, Afghanistan Engineering District (AED), Planning and Design Assistance, Various Locations, Afghanistan. *U.S. Army Corps of Engineers, Middle East District (formerly TAC).* Civil Engineer. Provided civil engineering support and expertise to project staff. Under the management of the

Years with Baker: 7

Years with Other Firms: 7

Education

B.S.C.E.T., 1997, Civil Engineering Technology, University of Pittsburgh, Johnstown Campus

Master's Certificate, 2009, Project Management, University of Pittsburgh, Katz Graduate School of Business

Licenses/Certifications

Professional Engineer, Pennsylvania, 2002

Professional Engineer, Oregon, 2008

Professional Engineer, Oklahoma, 2008

Professional Engineer, New York, 2009

Professional Engineer, North Carolina, 2010

NCEES Certified, 2008

LEED Accredited Professional, 2009

NCI Charrette System Certificate

Afghanistan Engineer District and CETAC, a master planning team performed field surveys, planning, and design for solicitation documents for three design/build contracts for the Afghan National Army. Projects included three hospitals (Kandahar, Herat, and Gardez), a national maintenance center, gymnasiums, community centers, and other support facilities throughout Afghanistan. Baker provided expertise in architecture and landscape architecture, electrical, civil, and structural engineering, and cost estimating services.

Revitalization of Diamond U.S. Army Reserve Center, New Orleans, Louisiana. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Provided civil engineering support and expertise to project staff. Baker developed Design/Build RFP Documents for the revitalization of a facility that was severely damaged by Hurricane Katrina. The project included the demolition of the 37,000-square-foot Fleming Reserve Center that was destroyed by the hurricane. The resulting facility, remodeled to suit the needs of the newly formed and consolidated Army Reserve Units, is an integrated, consolidated, regional, 54,300-square-foot training building, 6,600-square-foot vehicle maintenance shop, 12,600-square-foot warehouse, and 5,000-square-foot unheated storage building for training and mobilization and to provide for the storage, inspection, maintenance, and repair of combat and tactical vehicles and equipment associated with the regional deployment of Army Reserve units.

U.S. Armed Forces Reserve Center, Rutland, Vermont. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Responsibilities included preparation of the civil engineering component of the design-build Request for Proposal (RFP), participating in multi-day design Charrette meetings, utility coordination, site layout and parking geometrics, preliminary grading, earthwork calculations. Also responsible for interpreting and applying current Department of Defense Anti-Terrorism Standards for Buildings into site layout and building locations. Baker developed Design/Build RFP Documents for a new 600-member Armed Forces Reserve Center meeting Silver LEED® standards. A 97,634-square-foot training building (AFRC), a 14,600-square-foot multi-use classroom, a 7,302-square-foot Organized Maintenance Shop (OMS), and a 3,113-square-foot unheated storage (UHS) building is included in the RFP package. The center accommodates training and mobilization, and provides for the storage, inspection, maintenance, and repair of combat and tactical vehicles and equipment associated with the regional deployment of Vermont Army National Guard and Army Reserve units. The RFP development consists of conducting a design charrette, providing a topographical survey and geotechnical investigation, performing a utility survey, developing conceptual site plans, floor plans, and building elevations, developing RFP specifications, preparing DD Form 1354 – Transfer of Real Property, and providing a PACES construction cost estimate.

U.S. Armed Forces Reserve Center, Bristol, Pennsylvania. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Responsibilities included providing technical design consultations to the core team members and conducting interdisciplinary technical quality reviews of the design. Baker developed Design/Build RFP Documents for a new 600-member Armed Forces Reserve Center with Organized Maintenance Shop (OMS) and an Unheated Storage (UHS) building that realigns Army Reserve and Marine Reserve units as directed by BRAC 05. The facility will provide administrative, educational, assembly, library, learning center, vault, weapons simulator, and physical fitness areas for eight Army Reserve units and three Marine units, as well as provide adequate parking for all military and privately-owned vehicles. A 94,500-square-foot training building (AFRC), an 8,900-square-foot Maintenance Shop (OMS), and a 2,900-square-foot unheated storage (UHS) building was included in the RFP package. The buildings will be permanent construction with reinforced concrete foundations, concrete floor slabs, and will include mechanical, electrical, and information systems including SIPRNET rooms, as required. Supporting facilities will include site preparation, paving, fencing, and extension of utilities to serve the project. The facility was designed to meet Silver LEED® standards and be ADA compliant.

U.S. Armed Forces Reserve Center, Scranton, Pennsylvania. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Responsibilities included providing technical design consultations to the core team

members and conducting interdisciplinary technical quality reviews of the design. Baker developed Design/Build RFP Documents for a new 650-member Armed Forces Reserve Center with Organized Maintenance Shop (OMS) and an Unheated Storage (UHS) building that realigns Army Reserve and National Guard units as directed by BRAC 05. The facility provides administrative, educational, assembly, library, learning center, vault, weapons simulator, and physical fitness areas for eight Army Reserve units and four Pennsylvania Army National Guard units, as well as provides adequate MEP and POV parking. A 166,000-square-foot training building (AFRC), a 7,300-square-foot multi-use classroom, a 6,400-square-foot Organized Maintenance Shop (OMS), and a 1,700-square-foot unheated storage (UHS) building was included in the RFP package. The buildings are permanent construction with reinforced concrete foundations, concrete floor slabs, and include mechanical, electrical, and information systems including SIPRNET rooms, interior finishes, window systems, roof decks with 50-year asphalt shingles, and exterior finishes. Supporting facilities include site preparation, paving, fencing, and extension of utilities to serve the project.

Task 0029, Final Design, Afghanistan National Civil Order Police (ANCOP) Projects, Winchester, Virginia. *U.S. Army Corps of Engineers, Middle East District (formerly TAC).* Civil Engineer. Provided civil engineering support and expertise to project staff. Responsible for Independent Technical Review of civil engineering design. Baker prepared the Ready-to-Advertise complete designs, specifications, and construction cost estimates for three different sized standard Afghanistan National Civil Order Police (ANCOP) projects. Each design was intended to function as a proto-typical design for use by AED, in Afghanistan, and included structures/buildings, infrastructure, and force protection requirements to house, feed, train, protect, maintain, and sustain elements of the National Civil Order Police. Several building types were included in each compound, including: Administration Building, Dining Facility (DFAC), Training Facility, Toilet and Shower building, Middle Barracks, Women's Barracks, Senior and High Barracks, Logistics Facility, Warehouse, Laundry building, Vehicle Maintenance Facility, Ammunition Supply Building, Guard Shack, Gate House, Guard Towers, Canopies, and Well House.

Task 0030, Final Design, Afghanistan National Border Police (BP) Zone Command Projects, Various Locations in Afghanistan. *U.S. Army Corps of Engineers, Middle East District (formerly TAC).* Civil Engineer. Provided civil engineering support and expertise to project staff. Responsible for Independent Technical Review of civil engineering design. Baker prepared the Ready-to-Advertise complete designs, specifications, and construction cost estimates for two different sized standard Afghanistan National Border Police Zone Command (BP Zone) projects. Each design was intended to function as a proto-typical design for use by AED, in Afghanistan, and included structures/buildings, infrastructure, and force protection requirements to house, feed, train, protect, maintain, and sustain elements of the National Border Police Zone Command. Several building types were included in each compound, including: Administration Building, Dining Facility (DFAC), Training Facility, Toilet and Shower building, Middle Barracks, Women's Barracks, Senior and High Barracks, Logistics Facility, Warehouse, Laundry building, Vehicle Maintenance Facility, Ammunition Supply Building, Guard Shack, Gate House, Guard Towers, Canopies, and Well House.

U.S. Armed Forces Reserve Center, White River Junction, Vermont. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Responsibilities included providing technical design consultations to the core team members and conducting interdisciplinary technical quality reviews of the design. Baker developed Design/Build RFP Documents for a new 300-member Armed Forces Reserve Center (AFRC), meeting Silver LEED® standards. An 88,400-square-foot training building (AFRC), a 4,600-square-foot Organized Maintenance Shop (OMS), and a 9,900-square-foot unheated storage (UHS) building is included in the RFP package.

Unit Operations Facilities, SATOC TO #4, Fort Bliss, El Paso, Texas. *U.S. Army Corps of Engineers, Tulsa District.* Design Review Manager. Responsibilities included providing technical design consultations to the core team members and conducting interdisciplinary technical quality reviews of the design. Projects constructed under this task order include Brigade Combat Team (BCT) Tactical Equipment Maintenance

Facilities (TEMF). TEMFs provide facilities for the purpose of maintaining and repairing vehicles, complete with equipment and parts storage, and administrative offices. Task Order No. 0004 was for the design/build delivery of a medium-sized, 32,290-square-foot TEMF, a 6,300-square-foot Organizational (Deployment) Storage facility, a 540-square-foot oil storage facility, and a 540-square-foot building for hazardous materials storage. Facility designs are required to meet or exceed a Silver LEED® certification.

U.S. Army Reserve Center, Willow Grove, Pennsylvania. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Responsibilities included providing technical design consultations to the core team members and conducting interdisciplinary technical quality reviews of the design. Baker developed Design/Build RFP Documents for a new 800-member U.S. Army Reserve Center (USARC) with Organized Maintenance Shop and an Unheated Storage building. The USARC provides administrative, educational, assembly, library, learning center, vault, weapons simulator, physical fitness areas, and adequate MEP and POV parking.

Task 0038, Hazardous Waste Incinerator, RFP Document Preparation, LSA Anaconda, Balad Airbase, Iraq. *U.S. Army Corps of Engineers, Middle East District (formerly TAC).* Civil Engineer. Responsibilities included providing civil engineering design support to the core team members and conducting interdisciplinary technical quality reviews of the design. Baker prepared design-build documents for the design and construction of a turnkey hazardous waste incinerator facility at LSA Anaconda, Balad, Iraq, complete with ash collector on a concrete pad, storage areas with secondary containment, sunshade, modular administration trailer and modular characterization lab at designated location. The HAZMAT incinerator was capable of burning a daily rate of 12 tons, minimum. Documents were prepared as Ready to Advertise (RTA) for Government construction solicitation process. This project included stand-alone power generation, fuel storage, site preparation, perimeter fence, force protection to provide a complete and useable, hazardous waste incinerator. Physical security and anti-terrorism/force protection measures were incorporated. Sustainable principles were integrated into the development, design, and construction of the project.

U.S. Armed Forces Reserve Center, Naval Station Newport, Rhode Island. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Civil engineer of record for this design/build project. Prepared conceptual site layout and participated in multi-day charrette to shape the design of this site from a civil engineering perspective. Charrette phase work included a preliminary site layout developed in accordance with current Department of Defense Anti-Terrorism/Force Protection Measures for Buildings, grading and engineering design analysis. Final design included civil engineering construction drawings and specifications for the proposed site. Engineering work included coordination and permitting with local and state agencies, demolition plan development, geometric site layout, utility infrastructure design, erosion and sediment control design, stormwater pollution prevention plan development, NPDES permit coverage, site grading and earthwork analyses, stormwater management design, coordination of landscape plan development. Participated in project design review meetings. Responsible for managing geotechnical and surveying subconsultants. Baker was tasked to provide design-bid-build documents for a 400-member, 64,828-square-foot U.S. Army Reserve project. The new 7.5-acre site was developed to include three structures including a USARC Readiness Training Center, Organizational Maintenance Shop, and an Unheated Storage facility. Sustainable Design and Development and Energy Policy Act of 2005 features were provided to meet the Silver level of LEED® certification.

U.S. Armed Forces Reserve Center Engineering and Design Services, Brownsville, Texas. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Responsible for engineering management of civil, landscape architecture and environmental permitting for the project. Provided civil support and expertise to project staff completing various task in the development of construction documents. Responsible for Independent Technical Review of the overall civil engineering design. Baker is preparing design plans and specifications for a new joint Armed Forces reserve center. The new facilities will include a 45,395-square-foot training building, a 4,763-square-foot vehicle maintenance

shop, a 2,860 square-foot organizational unit storage facility, and 13,018 square yards of organizational vehicle parking on an eight-acre site. Services include topographic surveys; geotechnical investigations; utility coordination; preliminary and final design; comprehensive interior design; quantity and cost estimates; scheduling; and life safety and fire protection, handicapped accessibility, and sustainable design. Baker is designing the facilities for Silver LEED® certification, showcasing sustainable features including the use of recycled, low-emitting materials and finishes. The facility also features preferred parking spots for alternative and hybrid vehicles and bike racks with changing rooms.

Tactical Equipment Maintenance Facility, White Sands Missile Range, New Mexico. *U.S. Army Corps of Engineers, Tulsa District.* Design Review Manager. Responsibilities included providing technical design consultations to the core team members and conducting interdisciplinary technical quality reviews of the design. Under a design/build ID/IQ SATOC, Task Order No. 0006, the team of Baker and Walbridge Aldinger Company is delivering a Brigade Combat Team (BCT) Tactical Equipment Maintenance Facilities (TEMF) at White Sands Missile Range, NM. The project includes one medium-sized 35,290-square-foot TEMF with a 10-ton bridge crane, to accommodate approximately 437 organizational vehicles. Additional structures that are a part of this facility include a 1,560-square-foot POL storage facility, a 1,560-square-foot building for hazardous materials storage, and an 11,550-square-foot organizational storage building.

TO 0001– Planning and Programming Reports, Bagram Air Base, Afghanistan. *U.S. Army Corps of Engineers, Middle East District (formerly TAC).* Civil Engineer. Responsibilities included reachback support for civil engineer in country preparing Planning and Programming (P&P) Reports for ten facilities at Bagram AB, Afghanistan. Provided support for civil engineer preparing multiple conceptual site layouts and design analysis to support Department of Defense 1391 cost projections. Under an IDIQ contract, Baker prepared Planning and Programming (P&P) Reports for ten facilities at Bagram AB, Afghanistan. In order to establish facility requirements and scope, Baker's four-person project team conducted a one-week on-site visit, and met with key stakeholders and functional experts. The team collected Base master planning information, satellite photographs, available site utilities and other information, as required, for each of the facilities. The purpose of the P&P Reports was to provide the Air Force with complete and accurate project documentation to assist with planning future-year projects for design and construction. The completed reports provided the Air Force with a general scope of work for follow-on development of design/build specifications to be used for selection of a contractor for the final design and construction.

Design and Construction of a New Armed Forces Reserve Center, Round Rock, Texas. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Responsible for engineering management of civil, landscape architecture and environmental permitting for the project. Provided civil support and expertise to project staff completing various task in the development of construction documents. Responsible for Independent Technical Review of the overall civil engineering design. Baker is the designer of record for the design-build delivery of a new 1,000-member Armed Forces Reserve Center (AFRC). The complex consists of a new 74,540-square-foot two-story AFRC (training center), a 23,928-square-foot heated storage building, a 21,400-square-foot field maintenance shop, and a 4,960-square-foot unheated storage building. All buildings are designed to comply with anti-terrorism/force protection standards and to achieve LEED® Silver certification.

Armed Forces Reserve Center, Grand Prairie, Texas. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Responsible for managing civil engineering, surveying and geotechnical subconsultants for the project. Prepared conceptual site layout and participated in multi-day charrette to shape the design of this site from a civil engineering perspective. Charrette phase work included a preliminary site layout developed in accordance with current Department of Defense Anti-Terrorism/Force Protection Measures for Buildings. Performed QA/QC reviews of subconsultant designs after charrette phase. Baker, serving as the designer-of-record on a design build team, was selected to construct a new Armed Forces Reserve Center (ARFC) for units of the U.S. Army Reserve (USAR) and the Texas Army National Guard (TARNG) at the Grand Prairie

Reserve Complex. The USAR uses the AFRC for administrative activities, to plan and support operations, and to train unit personnel in their engineering specialties. Four separate buildings were constructed on the Grand Prairie Reserve Complex, including a new 78,600-square-foot Administration building, 30,070-square-foot Storage building, 30,450-square-foot Facility Maintenance Storage (FMS) building, and a 4,900-square-foot Unheated Storage building.

Armed Forces Reserve Center, McAlester, Oklahoma. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Provided civil engineering support and expertise to project staff. Responsible for Independent Technical Review of civil engineering design. The Korte-Baker design/build team is constructing a new 200 member Armed Forces Reserve Center (AFRC) for the United States Army Reserve (USAR) and the Oklahoma National Guard (OK ARNG) on approximately 15.5-acre site at the McAlester Army Ammunition Plant outside of McAlester, Oklahoma. The complex consists of an Armed Forces Reserve Center (Training Center), a Vehicle Maintenance Shop (VMS) that is a combined organizational maintenance shop and Field Maintenance Shop, and an Unheated Storage Building (UHS). The facility was designed to achieve a Silver LEED® sustainable rating; sustainable features include highly-efficient mechanical systems, recycled content materials, low-VOC materials, and efficient site usage.

Armed Forces Reserve Center, Fort Allen, Puerto Rico. *U.S. Army Corps of Engineers, Louisville District.* Project Manager. Performed project management duties over a multi-discipline design/build project team constructing a new 126-member Armed Forces Reserve Center for the United States Army Reserve and Puerto Rico Army National Guard. Responsible for project design schedule, budget and quality control. The Korte-Baker design/build team is constructing a new 126-member Armed Forces Reserve Center (AFRC) for the United States Army Reserve (USAR) on approximately 8.5-acres of Army National Guard property within Fort Allen, near Ponce, Puerto Rico. The project will provide a critical training center, administration offices, education facilities, assembly area, library, learning center, arms vault, physical fitness areas, and storage facility for USAR units, and a PRARNG unit, in the Ponce area. Primary facilities will include a 49,320-square-foot AFRC and a 150-square-foot unheated storage building, designed for Silver LEED® certification. Baker is providing architectural and interior design; structural, mechanical, electrical, plumbing, and communications design; permitting; site survey; and geotechnical engineering.

Readiness Center for PAARNG Stryker Brigade Combat Team, Lewistown, Pennsylvania. *US Property and Fiscal Office for Pennsylvania.* Civil Engineer. Responsibilities included preparation of the civil engineering component of the design-build Request for Proposal (RFP), participating in multi-day design Charrette meetings, processing plans through the local municipality, attending public hearings, utility coordination, site layout and parking geometrics, grading, earthwork calculations, and supervising the erosion and sediment pollution control design, stormwater management design, environmental permitting and landscaping design. Also responsible for interpreting and applying current Department of Defense Anti-Terrorism Standards for Buildings into site layout and building locations. Managed site surveying and geotechnical services required for project. Baker developed the conceptual design and Design/Build RFP documents for the conversion of the PAARNG's 56th Brigade to a Stryker Brigade Combat Team (SBCT). Key program components include two building types: Readiness Centers (RC) for the training of SBCT Soldiers and Field Maintenance Shops (FMS) for the maintenance and storage of a variety of military vehicles, including the Stryker military vehicle. The existing historic 15,000-square-foot Lewistown Armory, was transformed to house diverse units with 240 soldiers. The renovated RC provides 52,501 square feet of vehicle maintenance training bays, administrative, classroom, and storage areas. The project meets a Gold SPiRiT sustainability rating.

Readiness Center for PAARNG Stryker Brigade Combat Team, Butler, Pennsylvania. *US Property and Fiscal Office for Pennsylvania.* Civil Engineer. Responsibilities included preparation of the civil engineering component of the design-build Request for Proposal (RFP), participating in multi-day design Charrette meetings, processing plans through the local municipality, attending public hearings, utility coordination, site

layout and parking geometrics, grading, earthwork calculations, and supervising the erosion and sediment pollution control design, stormwater management design, environmental permitting and landscaping design. Also responsible for interpreting and applying current Department of Defense Anti-Terrorism Standards for Buildings into site layout and building locations. Managed site surveying and geotechnical services required for project. Baker developed the conceptual design and Design/Build RFP documents for the conversion of the PAARNG's 56th Brigade to a Stryker Brigade Combat Team (SBCT). Key program components include two building types: Readiness Centers (RC) for the training of SBCT Soldiers and Field Maintenance Shops (FMS) for the maintenance and storage of a variety of military vehicles, including the Stryker military vehicle. The existing 30,055-square-foot Armory is being renovated to support a total unit strength of over 161 soldiers. The new RC will provide an approximate additional 6,275 square feet of space necessary for adequate administrative, training, parking, and storage areas required for achieving proficiency in training tasks. The sustainable design goal is for the finished facility to qualify for a Silver SPiRiT rating.

Readiness Center for PAARNG Stryker Brigade Combat Team, Hanover, Pennsylvania. *US Property and Fiscal Office for Pennsylvania.* Civil Engineer. Responsibilities included preparation of the civil engineering component of the design-build Request for Proposal (RFP), participating in multi-day design Charrette meetings, processing plans through the local municipality, attending public hearings, utility coordination, site layout and parking geometrics, grading, earthwork calculations, and supervising the erosion and sediment pollution control design, stormwater management design, environmental permitting and landscaping design. Also responsible for interpreting and applying current Department of Defense Anti-Terrorism Standards for Buildings into site layout and building locations. Managed site surveying and geotechnical services required for project. Baker developed the conceptual design and Design/Build RFP documents for the conversion of the PAARNG's 56th Brigade to a Stryker Brigade Combat Team (SBCT). Key program components include two building types: Readiness Centers (RC) for the training of SBCT Soldiers and Field Maintenance Shops (FMS) for the maintenance and storage of a variety of military vehicles, including the Stryker military vehicle. The existing 18,000-square-foot Hanover RC will be renovated in order to meet current building codes and to add 7,000 square feet of space, providing adequate administrative, training, and storage areas to accommodate a unit strength of 85. The new facility was designed to meet a LEED®-Certified sustainability rating.

R. Todd Schoolcraft, PLA, ASLA

Landscape Architect

General Qualifications

Mr. Schoolcraft has over 18 years of experience in the fields of landscape architecture and land planning, with over 26 years of experience in the building and construction industry. Mr. Schoolcraft has extensive experience managing complex projects and leading multi-disciplined teams of professionals resulting in the successful delivery of numerous quality projects on-time and on-budget. Major areas of specialty include commercial development, military installation design, land planning, public development, site planning and design, park and recreation design, trails and greenways, streetscape design and urban planning, and residential subdivision layout. Mr. Schoolcraft is a retired U.S. Army Officer, holding the rank of Major, with over 23 years of time in service in the U.S. armed forces. In the last years of service, he held the position of Operations Officer with the newly formed Chemical, Biological, Radiological, Nuclear or High Yield Explosive Enhanced Response Force Package Team (CERFP Team) with the West Virginia Army National Guard. Prior to this, he was a combat engineer with the Design Section of the 111th Engineer Group, West Virginia Army National Guard. The 111th Engineer Group served in the Middle East in support of Operation Iraqi Freedom and Operation Enduring Freedom. During that time, Mr. Schoolcraft was awarded the Bronze Star Medal for meritorious service associated with a multitude of engineering and architectural projects in Kuwait and Iraq. Mr. Schoolcraft has been appointed to the West Virginia State Board of Landscape Architects by Governor Joe Manchin, and currently serves as Secretary of the Board.

Experience

Lost Creek Train Depot Improvements, Lost Creek, West Virginia. *Town of Lost Creek and the Harrison County Commission.* Project Landscape Architect. Responsible for concept planning design and document quality oversight. The Town of Lost Creek retained Baker for the planning and design of the rehabilitation of a historic train depot adjacent to the Harrison County Rail Trail. Phase I involved foundation work associated with the structure. The existing building was constructed of non-dimensional timber framing and board with batten siding. The perimeter posts were originally buried below grade and the primary floor beams rested on the ground. Over the years, surface drainage had migrated under the building and deteriorated many of the posts and portions of the beams. Baker prepared a plan to raise the structure, make repairs to the deteriorated timber, excavate and place the concrete foundation system, then lower the structure to rest on the new foundation. The foundation system included a new perimeter concrete wall foundation to support the posts and exterior floor beams. The interior beam was supported by concrete piers on spread footings. The perimeter concrete wall will raise the finish floor elevation by 12" and provide a barrier against storm water intrusion. Unit costs and additive/deductive alternates were

Years with Baker: 2

Years with Other Firms: 16

Education

- B.S. Landscape Architecture, West Virginia University, 1991
- Safe Spaces: ASLA Security Design Symposium, Chicago, IL, 2004
- AQUA Conference Educational Sessions, Las Vegas, NV, 2005
- CERFP Team Training, WV Army National Guard, 2006

Registrations

- PLA, West Virginia, 1995
- PLA, Ohio, 2002
- CLARB Certified, 2001

Professional Affiliations

- WV State Board of Landscape Architects
- American Society of Landscape Architects
- WV Chapter – American Society of Landscape Architects
- Associate Member – AIA West Virginia
- Society of Military Engineers
- National Guard Association
- WV Rails-to-Trails Society
- Elkland Pool Board

used in the bidding of the project, allowing the Town flexibility in final bid award to meet the extensive Transportation Enhancement Grant funding limitations. Baker will provide construction administration and inspection services as well as periodic site review during construction.

A/E Services for the Office of the Adjutant General, West Virginia Army National Guard, Division of Engineering and Facilities, Charleston, West Virginia. *State of West Virginia, Division of Engineering and Facilities.* Project Manager. Responsible for design and document quality oversight. The Facilities Management Officer (FMO) for the State of West Virginia, Division of Engineering and Facilities (DEF), West Virginia Army National Guard (WVARNG) selected Baker for a lump sum/fixed fee contract for architectural and engineering services. The State Army National Guard Headquarters in Charleston, West Virginia was originally constructed in the early 1960's. Over the years, there have been numerous upgrades to the facility. Baker was selected by the Division of Engineering and Facilities to provide complete design and construction administration services for the renovation of the first floor of the entire wing of the Office of the Adjutant General (TAG). The Owner requested the need for modernization of approximately 12,000 square feet of existing outdated office space. Project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal. Baker worked closely with the client during the planning phase to define a project scope that would upgrade the existing facility in a fashion consistent with previous renovations and within a limited budget.

Non-Baker Project Experience

Alloy Armory Berm Repair, West Virginia Army National Guard, Alloy, West Virginia. *State of West Virginia, Division of Engineering and Facilities.* Project Manager. Responsible for site-civil design and document quality oversight. The existing facility had been home to various armored cavalry units of the West Virginia Army National Guard (WVARNG) over the years, and the armory and motorpool was situated directly in front and adjacent to a large stream susceptible to high-water events. During a recent flood event, the berm protecting the facility was severely damaged. A new berm was designed with gabion basket reinforcing, and a new concrete-lined trapezoidal channel was proposed to safely redirect the stream flow away from the armory and motorpool.

Parking Lot Expansion and ADA Accessibility Upgrade, Fixed Wing Army Aviation Training Site (FWAATS), Benedum Airport, Bridgeport, West Virginia. *State of West Virginia, Division of Engineering and Facilities.* Project Manager. Responsible for site-civil design, construction document preparation and construction administration. Conceptual and final detailed design services were provided to expand the main parking area, maintain Section 504 ADA compliance, and improve site drainage and landscaping. Recommendations for improvements to the traffic flow at the loading dock and plans for pavement striping were also developed.

Robert E. Rooney Marshalling Yard and Final Rinse Facility, Port Ash Shuaybah, Kuwait. *US Army Corp of Engineers.* Project Manager. Responsibilities included leading a design team with the 111th Engineer Group, West Virginia Army National Guard (WVARNG) in the development a master plan, final construction documents, bidding assistance, and construction oversight. This project involved the development of a Sea Port of Embarkation (SPOE) Sterile Storage Area and Final Rinse Facility in the Persian Gulf area for use by Coalition Forces during Operation Iraqi Freedom. The improvements proposed included installation and construction of a rinse facility capable of serving all categories of military vehicles, trailers, towed equipment and storage containers for final rinse before being loaded onto transport vessels. The area also included sterile storage areas for redeployment and temporary storage areas for deployment operations. The project was taken on as a joint effort with the Army Corp of Engineers/GRE project. The project mission included the design, planning and coordination with local

contractors and the USACE in the construction of the two-acre concrete final rinse facility, 26-acre asphalt sterile storage area, and 47-acre marshalling area in three separate phases. Construction cost: \$5.54 Million U.S. dollars.

Building 5 Command Group Renovations, Zone II, Camp Arifjan, Kuwait. *Third Army, United States Army Central (USARCENT), Coalition Forces Land Component Command (CFLCC).* Project Manager. Project responsibilities included site surveying and base map preparation, site civil and architectural plan preparation, detailing, bidding, and construction administration for renovations required by CFLCC C-7 for the Command Group move from Camp Doha, Kuwait, to Camp Arifjan, Kuwait. Elements of the project included second floor 11-foot expansions on the north and south wings with structural layout, two new stairwells, expansion of existing office space, installation of men's and lady's restrooms, renovations to electrical, communications, and fire detection and suppression systems, extension of water service, sewer line design, and other amenities as needed. Periodic construction administration services were included during construction. Construction cost: \$267,000.00 U.S. dollars.

Port Shuaybah Pier Assessment, Port Ash Shuaybah, Kuwait. *Third Army, United States Army Central (USARCENT), Coalition Forces Land Component Command (CFLCC).* Project Manager. While on deployment in the Middle East with the Design Section of the 111th Engineer Group, West Virginia Army National Guard (WVARNG) was tasked to perform a conditional survey of the existing pier area at the Port of Shuaybah, on the Persian Gulf, Kuwait. The facility had been used by the U.S. Military since November 2002. The 143 TRANSCOM, in charge of deployment and redeployment operations in the area, had been utilizing the facilities owned by the Kuwaiti Government. Over time, some damage had occurred in the areas of U.S. Military operations. The survey was executed to document the conditions of the pier area, evaluate damaged areas, and recommend construction methods for repair. The inventory walk-thru began in Pier Area 12, continuing counter-clockwise through Pier Area 20. Each damaged area was photographed, measured, located with GPS, and filmed by digital video. Thirty-one (31) areas of damage/deterioration were identified. Conclusions and recommended actions were made in the final report.

Building 5 & 6 Renovations and Electrical Upgrades, Zone II, Camp Arifjan, Kuwait. *Third Army, United States Army Central (USARCENT), Coalition Forces Land Component Command (CFLCC).* Project Manager. Project responsibilities included site surveying and base map preparation, site civil and architectural plan preparation, detailing, bidding, and construction administration of renovations required for the main body CFLCC move from Camp Doha, Kuwait, to Camp Arifjan, Kuwait. Elements of the project included converting 3 bays of existing warehouse space into office space including conference rooms, private offices, cubicle layouts, acoustical ceiling installation, construction of men's and lady's restroom complex, renovations to electrical, communications, and fire detection and suppression systems, extension of water service, extension of sewer line service, extensive modifications to the primary power supply for Building 5 and 6, design of a T-SCIF area, extension of main communications and fiber optics lines from Zone I of Camp Arifjan to Zone II, and other amenities and infrastructure as required, including periodic construction administration services. Construction cost: \$7.34 Million U.S. dollars.

Aerial Port of Debarkation (APOD) Consolidation Project, Kuwait City International Airport, Kuwait. *Third Army, United States Army Central (USARCENT), Coalition Forces Land Component Command (CFLCC).* Lead Designer. Project responsibilities included site surveying and base map preparation, site planning and civil design for the relocation of deployment and redeployment facilities at Camp Wolverine as requested by the Kuwaiti Ministry of Engineering.

Camp Arifjan Truck and Contractor Access Road, Greater Camp Arifjan Area, Kuwait. *Third Army, United States Army Central (USARCENT), Coalition Forces Land Component Command*

(CFLCC). Project Manager. Project responsibilities included site surveying and base map preparation, site civil design and detailing to include, horizontal alignment, vertical alignment, grading and drainage design, cross section preparation, pavement design, construction observation and administration, and construction of the 2.4 kilometers of 10-meter wide asphalt road with associated shoulders and intersections. Estimated construction cost: \$1.5 Million U.S. dollars.

DPW Office Parking Area, Zone I, Camp Arifjan, Kuwait. *Directorate of Public Works, Post Engineer.* Project Manager. Project responsibilities included site surveying and base map preparation, site civil design and detailing to include layout, grading and drainage, pavement design, construction observation and administration, and construction of the 1,000-square meter parking area and 168 lineal meters of precast concrete curbing.

Various Military Installation Improvements, Camp Arifjan, Kuwait. *Directorate of Public Works, Post Engineer.* Project Manager. While on deployment in the Middle East with the 111th Engineer Group, West Virginia Army National Guard (WVARNG) was tasked to perform various improvements to Camp Arifjan through the Directorate of Public Works (DPW) and the Post Engineer. Projects included the Camden Yard Engineer Troop Wash Point; DPW Morale, Welfare and Recreation (MWR) Restroom Facility; DPW Third Country Nationals (TCN) Restroom Additions; and many other improvements.

130th Tactical Airlift Group Project 2000, Charleston, West Virginia. *West Virginia Air National Guard.* Construction Manager. Working with the United States Property and Fiscal Office (USPFO) and the 130th Tactical Airlift Group (TAG), to provide as-needed design and detailing services, periodic construction observation and resident inspection services for the construction of Project 2000, the relocation of all major base facilities from runway elevation to the former Coonskin Driving Range in the valley below.

Offices Held

- Current Secretary, WV State Board of Landscape Architects
- Past Treasurer, WV State Board of Landscape Architects
- Current Secretary, WV Chapter American Society of Landscape Architects
- Past President, WV Chapter American Society of Landscape Architects
- Past Treasurer, WV Chapter American Society of Landscape Architects
- Past Secretary, WV Chapter American Society of Landscape Architects

Honors and Awards

- WV Chapter – American Society of Landscape Architects; 2008 Merit Award – Kanawha & Putnam County Bicycle – Pedestrian Master Plan
- WV Chapter – American Society of Landscape Architects; 2005 Merit Award – Russell Residence House and Site Improvements
- United States Army; 2003 Bronze Star – Operation Iraqi Freedom
- American Society of Landscape Architects; 1999 Medallion Award – Charleston Village District Streetscapes
- WV Chapter – American Society of Landscape Architects; 1999 Merit Award – Tamarack: The Best of West Virginia
- WV Chapter – American Society of Landscape Architects; 1995 Honor Award – NorthGate Business Park

Joseph Crowder, P.S.
Surveyor

General Qualifications

Mr. Crowder is currently employed as a surveyor at the Charleston, West Virginia office of Baker's South Region. Mr. Crowder has over 18 years of diverse experience that includes assignments in civil design, surveying, construction inspection and field testing.

Experience

CAMC-Flood Protection Project-Phase 1. *CAMC.* Surveyor. Assisted with field work during survey process. Also served as instrument person.

Coal River Energy-Aldrich Branch Permit. *Coal River Energy, LLC.* Surveyor. Assisted in GPS survey control for project. Also served as Instrument Person and Survey Party Chief during field surveys.

Commonwealth of Kentucky-Upper Cane Creek of Red River. *Commonwealth of Kentucky.* Surveyor. Participated as Instrument Person and Survey Party Chief to physically locate streams during survey. Also participated with GPS Surveying of control for Lidar Mapping of project.

Town of West Milford-Sidewalk Improvements, West Milford, West Virginia. *Town of West Milford.* Surveyor. Participated in construction stakeout and monitoring. Baker performed complete planning, design and construction management services for new sidewalks along U.S. Route 270 (Main Street) for the Town of West Milford. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, "ladder-style" crosswalks and storm drainage design. Baker provided Construction Administration and resident inspection services as well as periodic site review during construction.

Miscellaneous Surveying and Mapping Projects, Various Locations. *Columbia Gas Transmission Corporation.* Surveyor. Participated in duration of complete survey. Responsible for courthouse research, helped with actual field locations and mapping and plotting of deeds. Also, assisted in writing of legal description. Over the past nine years, Baker has performed well over 120 miles of extensive gas line surveys and mapping projects throughout the Columbia Gas System.

Non-Baker Project Experience

DuPont, near Washington Works Plant, Wood County, WV. Sampling of water wells. Assisted in gathering data from residents, locating potential sample points, such as old drilled water wells, cisterns, and springs. Assisted in actual water sampling using various methods - bailers, air pumps, etc.

Winfield ACF Site, ACF/Corps of Engineers, Winfield, WV. Work included Boundary, Topographic, Construction Layout, and Sample Point Layout of 15 acres along the Kanawha River. This project had over 12,000 sample points laid out on a 3' grid.

Years with Baker: 2

Years with Other Firms: 16

Education

A.S., 1989, Computer Aided Drafting, West Virginia State University

Licenses/Certifications

Real Estate License, West Virginia

Registered Land Surveyor, West Virginia

Poor Charlie, Riverside Site, Glasgow, WV; Poor Charlie, Sattes Site, Nitro, WV; Poor Charlie, Cramer Metals Site, Parkersburg, WV. Work included Boundary, Topographic, Location and Boring Stakeout of various VERA sites and adjoining properties.

Elkem Metals Disposal Facility, Elkem Metals, Alloy, WV. Work included Control Network, Boundary, Topographic Surveys, and yearly volume reports.

Solutia, Nitro, WV. Work included Boundary, Topographic and Location Surveys for various projects, disposal facility caps, charcoal filtering systems, and monitoring well control network throughout the site and adjoining properties.

Nicholas County Landfill, Summersville, WV. Work included Control Network, Boundary and Topographic Surveys for expansion of cells and yearly volume reports.

Pocahontas County Landfill, Pocahontas County, WV. Work included Control Network, Boundary and Topographic Surveys for expansion cells and yearly volume reports.

Fleming Landfill, WVDEP, Sissonville, WV. Work included Boundary and Topographic Surveys, along with control network and baseline stakeout for landfill closure.

Cunard Landfill, WVDEP, Fayetteville, WV. Work included Topographic and Construction Layout for landfill closure.

Mingo County Landfill, J & B Contracting, Mingo County, WV. Work included Topographic and Construction Layout for landfill closure.

Mercer County Landfill, Jimmy Dunn, Mercer County, WV. Work included Topographic and Construction Layout for landfill closure.

Merritts Creek Connector Road, WVDOT, Barboursville, West Virginia. Preliminary route survey of 2.2 miles of four-lane roadway. Work included courthouse research, property owner questionnaires, stake proposed centerline, tie to properties, set and reference construction control points. Crew Chief/Project Manager.

Bentons Ferry Bridge Replacement, WVDOH, Fairmont, West Virginia. Work included Topo survey of project area, property owner questionnaires, tie to property lines, river cross sections, stake and reference centerline and construction control points. Crew Chief/Project Manager.

North Bridgeport Connector Road, WVDOH, North Bridgeport, West Virginia. Work included GPS control survey of project area, preliminary route survey of centerline, tie to property lines, stake and reference centerline and construction control points, courthouse research, property owner questionnaires. Crew Chief/Project Manager.

Corridor H, WVDOH, Section 15, Elkins, West Virginia. Work included courthouse research, property owner questionnaires, GPS control of project area, preliminary route survey of 2.2 miles of centerline, tie to property lines, stake and reference centerline and construction control points. Crew Chief/Project Manager.

Corridor D, WVDOH, Martown Section, Parkersburg, West Virginia. Work included courthouse research, property owner questionnaires, GPS control of project area, preliminary route survey of 2.2 miles of centerline, tie to property lines, stake and reference centerline and construction control points. Crew Chief/Project Manager.

Martha Truss Bridge Replacement, WVDOH, Milton, West Virginia. Work included Topo survey of project area, property owner questionnaires, tie to property lines, river cross sections, stake and reference centerline and construction control points. Crew Chief/Project Manager.

Martha Girder Bridge Replacement, WVDOH, Milton, West Virginia. Work included Topo survey of project area, property owner questionnaires, tie to property lines, river cross sections, stake and reference centerline and construction control points. Crew Chief/Project Manager.

Smith Bridge, WVDOH, Wetzel County, West Virginia. Work included Topo survey of project area, property owner questionnaires, tie to property lines, river cross sections, stake and reference centerline and construction control points. Project Manager.

Opaquen Bridge, WVDOH, Wetzel County, West Virginia. Work included topographic survey of project area, property owner questionnaires, tie to property lines, river cross sections, stake and reference centerline and construction control points. Project Manager.

King Coal Highway, WVDOH, Mingo County, West Virginia. Work included courthouse research, property owner questionnaires, GPS control of project area, preliminary route survey of 2.2 miles of centerline, tie to property lines, stake and reference centerline and construction control points. Project Manager.

Sharon Heights Connector Road, WVDOH, Mingo County, West Virginia. Work included courthouse research, property owner questionnaires, GPS control of project area, preliminary route survey of 2.2 miles of centerline, tie to property lines, stake and reference centerline and construction control points. Project Manager.

Kanawha Turnpike, WVDOH, Charleston, West Virginia. Work included courthouse research, property owner questionnaires, GPS control of project area, preliminary route survey of 2.2 miles of centerline, tie to property lines, stake and reference centerline and construction control points. Project Manager.

East Huntington Bridge, WVDOH, Huntington, West Virginia. Work included annual bridge inspection survey of cable stay bridge over the Ohio River. Crew Chief/Surveying Supervisor.

Cogentrix Energy, Cogentrix, Marshall County, West Virginia. Work included GPS control survey of project area, boundary survey of 292 acres, topographic survey of 177 acres for site construction, courthouse research. Surveying Supervisor.

Big Sandy Peaker Plant, Constellation Power, Cabell County, West Virginia. Work included GPS control survey of project area, boundary and topographic of 42 acres, boundary and route survey for 1 mile of transmission lines, construction stakeout. Crew Chief/Surveying Supervisor.

Paintsville Power Plant, Energy Services, Paintsville, Kentucky. Work included control and topographic survey of a 180-acre site for proposed power plant, construction stakeout. Survey Supervisor.

Greenbrier Pipeline, Dominion, West Virginia, Virginia, and North Carolina. Work included control and preliminary route survey of a 264-mile pipeline running from Corton, West Virginia to Raleigh, North Carolina. Survey Supervisor.

Upshur County Power Plant, Dominion, Upshur County, West Virginia. Work included control survey and construction survey of a 170-acre power plant. Survey Supervisor.

Cellular telephone tower sites, Nextel, West Virginia, Kentucky, and Ohio. Work included courthouse research, boundary and topographic survey for 86 tower locations. Crew Chief/Survey Supervisor.

West Virginia-American Water Company. Work included boundary survey for 180 water tank sites throughout West Virginia. Crew Chief/Survey Supervisor.

National Lumber Plant Site, Roane County, West Virginia. Work included boundary and topographic survey, construction stakeout for plant site. Crew Chief/Survey Supervisor.

Buckskin Council Boy Scout Camp, Boy Scouts of America, Pocahontas County, West Virginia. Work included topographic survey and construction stakeout for new water and sewer system. Survey Supervisor.

Hampton-Clarke, Philips Lighting Company, Fairmont, West Virginia. Work included boundary and topographic survey, construction stakeout for cullet pile of hazardous waste site. Crew Chief/Survey Supervisor.

BIDCO, Kanawha County, West Virginia. Work included boundary and topographic survey of several parcels in the development, also stakeout of spec building and parking lots.

University of Charleston, Charleston, West Virginia. Work included boundary survey of several parcels of land for student housing and parking lot. Crew Chief/Survey Supervisor.

Marshall University, Charleston, West Virginia. Work included boundary and location survey of research complex. Survey Supervisor.

Marshall University, Huntington, West Virginia. Work included courthouse research, boundary and topographic survey of several city blocks for student housing and parking buildings. Crew Chief/Survey Supervisor.

Chief/Survey Supervisor.

Previous Work History

Triad Engineering, Inc., Survey Party Chief, July 2006-September 2007

HNTB Corporation, Survey Party Chief, July 2006-July 2005

Potesta & Associates, Survey Manager, Inc., 1999-2005

Design Tech, L.L.C., Survey Party Chief, 1997-1999

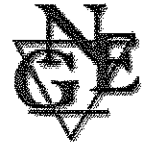
Site Blauvelt Engineers, Survey Party Chief, 1996-1997

Dunn Engineers, Survey Party Chief, 1993-1996

Professional Affiliations

West Virginia Society of Professional Surveyors (WVSPS)

Larry C. Nottingham, PhD, PE



Mr. Nottingham served as a Principal Engineer at Triad Engineering, Inc. for over 25 years before joining the professional staff at NGE. During that time he has accumulated a broad range of experience in the numerous disciplines of geotechnical engineering. Mr. Nottingham also served as a professor and department chair of the Civil Engineering Department at the West Virginia University Institute of Technology in Montgomery, West Virginia. Mr. Nottingham was involved with consultation and review of many subsidence related projects performed for BRIM as well as the WVDEP.

Fields of Competence

- Foundation Investigations
- Landslide Analysis & Remedial Design
- Mine Subsidence Investigations
- Highway & Airport Geotechnical Design
- Pavement Analysis & Design
- Retaining Wall Design
- Forensic & Insurance Investigations
- Expert Witness Consultation
- Ground Water and Seepage Analysis & Design
- Dam Analysis & Design
- Personnel Management
- Project Management
- Project Estimating

Education

- B.S.C.E., Civil Engineering, West Virginia Institute of Technology, 1965
- M.S.C.E., Civil Engineering, University of Pittsburgh, 1966
- Ph.D., Civil Engineering, University of Florida, 1975

Registration/Certifications

Registered Professional Engineer in West Virginia, Kentucky, and Ohio

Employment History

- May 2005 - Present
Senior Engineer, Novel Geo-Environmental, PLLC
- 1979 - May, 2005
Principal Engineer, Triad Engineering, Inc.
- 1989 - 1994
Professor and Department of Civil Engineering Chair, West Virginia Institute of Technology
- 1975 - 1979
Senior Engineer, Fugro Gulf, Inc., Houston, Texas
- 1970 - 1974
Project Engineer, Florida Department of Transportation
- 1967 - 1970
Project Engineer - Ackenheil & Associates, Inc.

Part 8 – References

Each of the Project Profiles found in Part 6 lists Baker's client and contact information for your use as a reference. Additionally, we offer the following diverse list of past or current clients and contact information:

- Central West Virginia Regional Airport Authority - Yeager Airport
100 Airport Road, Suite 175
Charleston, WV 25311-1080
Mr. Richard A. Atkinson, III, Airport Director
(304) 344-8033
- West Virginia Division of Transportation – Division of Highways
1900 Kanawha Boulevard East
Building 5, Room A-109
Charleston, WV 25305
Mr. Darrell Allen, P.E., Deputy State Highway Engineer
(304) 558-3304
- WV Division of Homeland Security & Emergency Mgmt., E-911 Mapping
1900 Kanawha Boulevard East
Building 1, Room EB-80
Charleston, WV 25305
Mr. Jimmy Joe Gianato, Director of Homeland Security
(304) 558-5380
- WV Statewide Addressing and Mapping Board
1124 Smith Street, Room LM-10
Greenbrooke Building
Charleston, WV 25301
Ms. Leigh Cielensky, Executive Assistant
(304) 558-4218
- U.S. Army Corps of Engineers – Huntington District
502 Eighth Street
Huntington, WV 25701
Mr. David Meadows, P.E.
(304) 399-5243
- Federal Aviation Administration - Beckley Airports District Office
176 Airport Circle, Room 101
Beaver, WV 25813-9350
Mr. Matthew Di Giulian, P.E.
(304) 252-6216
- City of Charleston
915 Quarrier Street, Suite 5
Charleston, WV 25301-2607
Mr. Chris Knox, City Engineer
(304) 348-8106



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

Request for Quotation

RFQ NUMBER
DEFK11024

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
TARA LYLE
304-558-2544

RFQ COPY
 TYPE NAME/ADDRESS HERE

Baker

MICHAEL BAKER JR., INC.
 5088 West Washington Street
 Charleston, WV 25313

DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
12/14/2010				

BID OPENING DATE: **01/25/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	QTY NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-00-00-001		
<p>ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL</p> <p>EXPRESSION OF INTEREST (EOI)</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, DIVISION OF ENGINEERING & FACILITIES, WV ARMY NATIONAL GUARD, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ARCHITECTURAL ENGINEERING DESIGN SERVICES FOR AN ACCESS ROAD, UTILITY UPGRADES AND ROUGH SITE GRADING TO THE CHARLESTON ARMORY COMPLEX, PER THE FOLLOWING BID REQUIREMENTS AND THE ATTACHED SPECIFICATIONS.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>CANCELLATION THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO TARA LYLE VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, VIA FAX AT 304-558-4115, OR VIA EMAIL AT TARA.L.LYLE@WV.GOV.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Kenneth Hall</i>	TELEPHONE 304-769-0821	DATE January 25, 2011
TITLE Assistant V.P.	FEIN 25 - 1228638	ADDRESS CHANGES TO BE NOTED ABOVE

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

GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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

Request for Quotation

RFQ NUMBER
DEFK11024

PAGE
2

ADDRESS CORRESPONDENCE TO ATTENTION OF
**TARA LYLE
 304-558-2544**

RFQ COPY
 TYPE NAME/ADDRESS HERE

Baker

MICHAEL BAKER JR., INC.
 5088 West Washington Street
 Charleston, WV 25313

DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
12/14/2010				

BID OPENING DATE: **01/25/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UQP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>DEADLINE FOR ALL TECHNICAL QUESTIONS IS 01/06/2011 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER:-----TL/32-----</p> <p>RFQ. NO.:-----DEFK11024-----</p> <p>BID OPENING DATE:-----01/25/2011-----</p> <p>BID OPENING TIME:-----1:30 PM-----</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

TITLE **Assistant V.P.** VFEIN **25 - 1228638** TELEPHONE **304-769-0821** DATE **January 25, 2011**

ADDRESS CHANGES TO BE NOTED ABOVE

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



State of West Virginia
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 Charleston, WV 25305-0130

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12/14/2010				

BID OPENING DATE: **01/25/2011** BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UQP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: 304-769-0822						
CONTACT PERSON (PLEASE PRINT CLEARLY): Patrick W. Fogarty, P.E., P.S.						
***** THIS IS THE END OF RFQ DEFK11024 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

BUYER: *[Signature]* TELEPHONE: **304-769-0821** DATE: **January 25, 2011**
 TITLE: **Assistant V.P.** FEIN: **25 - 1228638** ADDRESS CHANGES TO BE NOTED ABOVE

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



State of West Virginia
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 Charleston, WV 25313

SHIP TO

DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION

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CHARLESTON, WV
25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
01/11/2011				

BID OPENING DATE: **01/25/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
1. QUESTIONS AND ANSWERS ARE ATTACHED. 2. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID.						
EXHIBIT 10						
REQUISITION NO.: DEFK11024						
ADDENDUM ACKNOWLEDGEMENT						
I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.						
ADDENDUM NO. 'S:						
NO. 1 X						
NO. 2 X						
NO. 3						
NO. 4						
NO. 5						
I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE 304-769-0821	DATE January 25, 2011
TITLE Assistant V.P.	FEN 25-1228638	ADDRESS CHANGES TO BE NOTED ABOVE

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



State of West Virginia
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 Charleston, WV 25305-0130

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BID OPENING DATE: 01/25/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: center;"> SIGNATURE Michael Baker Jr., Inc. COMPANY January 25, 2011 DATE </p> <p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p> <p>REV. 09/21/2009</p> <p style="text-align: center;">END OF ADDENDUM NO. 2</p>						
0001	1	JB		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE TELEPHONE **304-769-0821** DATE **January 25, 2011**
 TITLE **Assistant V.P.** FEIN **25-1228638** ADDRESS CHANGES TO BE NOTED ABOVE

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

RFQ No. DEFK11024

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Michael Baker Jr., Inc.

Authorized Signature: [Signature] Date: January 25, 2011

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 25th day of January, 2011.

My Commission expires April 14, 2013

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]

