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West Virginia Purchasing Division

EXPRESSION OF INTEREST

**COONSKIN COMPLEX
PERIMETER FENCE**

**KANAWHA COUNTY,
WEST VIRGINIA**

SOLICITATION NO.
CEOI 0603 ADJ1500000002

JANUARY 6, 2015

ORIGINAL



**WV ARMY
NATIONAL GUARD**

Michael Baker

INTERNATIONAL

January 6, 2015

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

**Subject: Expression of Interest to provide Engineering Services
CEOI – ADJ150000002 (Coonskin Complex Perimeter Fence Design)**

Dear Ms. Lyle,

Michael Baker Jr., Inc. (Baker) is pleased to present our qualifications and experience as they relate to the subject 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 which are very similar in nature to the above referenced project.

Baker is a national consulting firm of some 6,000 members in over 90 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 30 individuals including architects, engineers, landscape architects, planners, 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 Construction and Facilities Management Office.

We would welcome the opportunity to personally present our qualifications and proposed approach for this important project. Should you have any questions or require additional information, please contact me at (304) 769-0821 or by e-mail at pfogarty@mbakerintl.com.

Very truly yours,

Michael Baker International



Patrick W. Fogarty, P.E., P.S., LEED®GA
Practice Manager

Enclosure

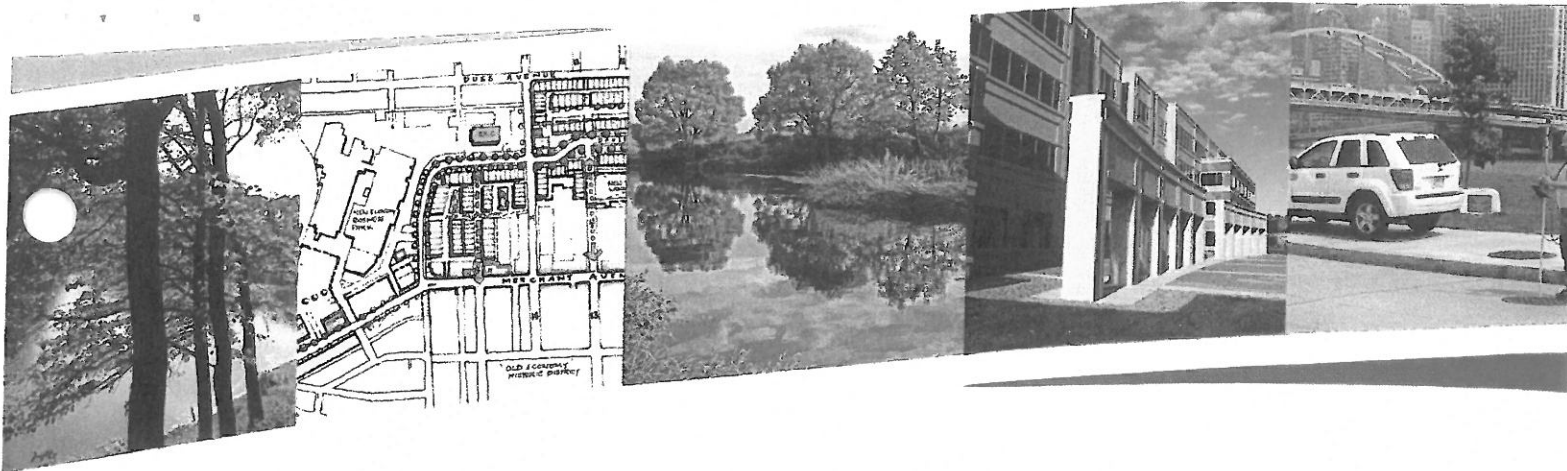


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Part 1 – Introduction

The Construction and Facilities Management Office, West Virginia Army National Guard is seeking a highly qualified firm experienced in program management, planning, design, and construction administration to provide design services for a perimeter fence at the Coonskin Complex in Charleston, WV. Michael Baker International is a highly qualified firm with extensive experience in providing these services, and we are extremely interested in continuing our professional relationship with the West Virginia Army National Guard (WVArNG).

"... we are extremely interested in continuing our professional relationship with the WVArNG."

Corporate Capabilities

Michael Baker International (Baker) employs over 6,000 people in 90 offices worldwide, 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 over 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 Facilities Design, Water Resources, Environmental Science and Permitting, Geographic Information Systems, GPS and Field Data Collection, Infrastructure Management, Database Development, Computer 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. In addition, Baker's team of experienced



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

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
- Interior Design/Space Planning
- Construction Administration and Construction Monitoring
- Coordination with State and Federal Agencies, as required

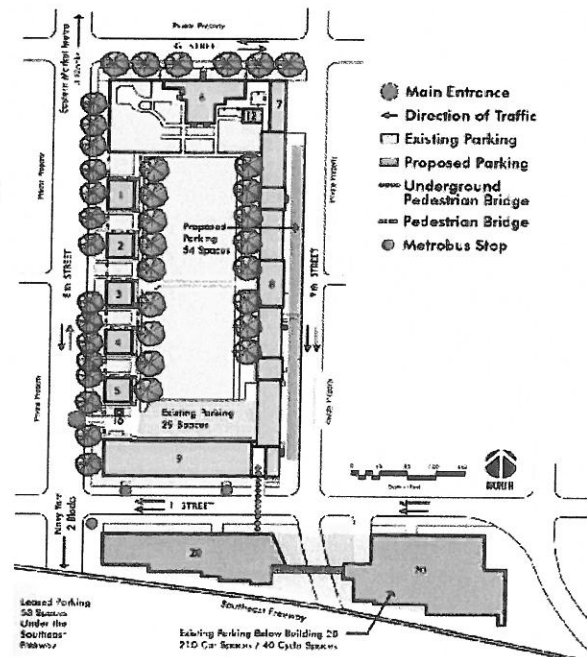
Baker's Charleston office is a "single-stop resource" capable of providing comprehensive professional services, from environmental planning, final design, and construction management through operational support. From major new building facilities, bridges and roadway designs, to surface mine permitting, 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, parishes, cities, townships, local municipalities, 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.

Part 2 – Qualifications

Baker routinely provides architectural/engineering services and project management for site/civil design and facility security improvements, and the associated construction oversight when required. Project assignments have included entrance and perimeter security design for headquarters facilities, maintenance facilities, garage facilities, medical facilities, emergency services facilities, and office buildings. Services for these assignments have included planning, surveying, base mapping, right of way services, geotechnical design, architecture, civil, mechanical, electrical, and structural engineering, public safety programming, permitting and cost estimating. Specific project elements have included, architecture, landscaping, retainage structures, fencing, gates, security systems, 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, and HVAC design.

- 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, 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 LEED GB 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, 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. Detailed Cost Estimates for Construction, Operation and Maintenance, and Engineering 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 other clients.

We have established relationships with the permitting agencies which will streamline the permit acquisition process.

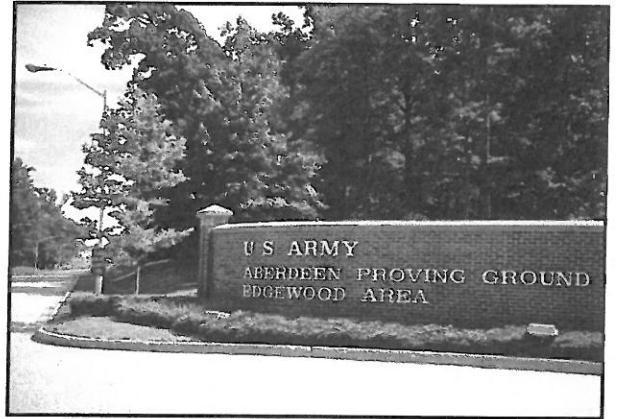
Construction Administrative Services

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 (if required) will be conducted by Baker technicians or staff engineers trained in construction practices and certified, as required, for the particular type of installation. 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 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. Baker can provide the entire depth of services necessary to complete the project without the need for costly sub-consultants.

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 26 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, LEED[®]GA, is the Facilities Practice Manager. Mr. Fogarty has over 27 years of experience with civil engineering projects of various size and levels of complexity. Mr. Fogarty will ensure that staff prepares quality deliverables and that submittals are in accordance with project scope, schedule and budget. Some of his notable military projects 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
 - Construction Administration, Coonskin Park Maintenance Facility

Mr. Fogarty has also been responsible for the management and design of perimeter fencing and access control systems at the following civilian facilities:

- Yeager Airport, Charleston, WV
- Marshall County Airport, Moundsville, WV
- Randolph County Airport, Elkins, WV
- Mercer County Airport, Bluefield, WV
- Little Kanawha Bus Facility, Mt. Zion, WV

David J. Hilliard, PE, LEED[®] AP, will provide the electrical design for the project. Mr. Hilliard has over 24 years of experience in the design, manufacture and installation of electrical and lighting systems. Some of his notable projects include:

- Charleston Armory Headquarters HVAC and Architectural Improvements, WVA^{Ar}NG, Charleston, WV,
- Coonskin Park Maintenance Facility, WVA^{Ar}NG, Charleston, WV,
- Tobyanna Army Depot IDIQ HVAC design, Tobyhanna, Pa, and
- WV Division of Transit, Little Kanawha Bus Facility lighting, HVAC and Plumbing design, Mt. Zion, WV

Part 5 – Project Outline

Project Understanding

The WVArNG C&FMO desires to install a perimeter fence at the Coonskin Complex in Charleston, West Virginia. It is assumed that the facilities must comply with the Department of Defense - Unified Facilities Criteria (UFC), Anti-Terrorism Force Protection standards and other appropriate codes.

Technical Approach

Pre-Design Planning

During this phase Baker will collect all available data including record drawings, site plans, etc. We will coordinate the WVArNG for goals, aspirations, budget constraints and timelines. We will work with the WVArNG 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 the routing and preliminary layouts for the fence and gate(s). These documents will describe the individual elements required including cut sheets for the proposed improvements. Preliminary Cost Estimates for Construction will be prepared and included in the 10% submittal.

Design Development Documents

Once concepts and routing have been approved by the WVArNG, Baker will prepare the Design Development Plans and Specifications for client review. A 30% 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 any necessary constructions permit applications. Initial survey data and physical features are collected electronically and downloaded into our CADD system for use by the designers. 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 will make use of A.I.A. bidding and contracting documents, as normally dictated by the Client.

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.

Project Closeout

Baker will develop the final punch list for incomplete work. Once these items and final testing and balancing have been completed, we will coordinate a final walk through inspection with representatives of the WVArNG and the Contractor to ensure that improvements complete and the facilities are 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 perimeter fencing and security designs for both military and civilian clients at various regional locations. Many of our projects are LEED® and/or SPiRiT (Sustainable Project Rating Tool) rated. We believe these projects show the depth of our expertise in all related aspects of engineering. 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."

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 State Fire Marshal
- West Virginia Bureau for Public Health
- 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

Relocation & Improvements to the Front Gate, Entrance, Perimeter Fence, Signage and Guard Station

U.S. Coast Guard (USCG) Training Center, Cape May, New Jersey

Baker provided architectural and engineering services for the relocation of, and improvements to, the front gate and fence, entrance sign, guard shack, and amenities at the U.S. Coast Guard Training Center. The purpose of the project was to achieve current mission and security objectives. Baker's services included: site/civil engineering, geotechnical engineering, architecture, structural engineering, mechanical engineering, plumbing design, fire protection engineering, electrical engineering, and cost estimating. Baker prepared three conceptual designs for the client's review, and then prepared 35% and 95% specifications, drawings and cost estimates for the selected alternative.

The design goal was to improve the appearance of the facility at the front gate and took into consideration access control systems, gates and barriers, perimeter fencing, vehicle arresting systems, and a security management system. The final design included: guard station, vehicle inspection area, artifact displays, signage, lighting, seating, landscaping based on indigenous planting, fences, gate, bus shelters, street furniture, trash collection enclosures, parking, and a turnaround for large tractor trailers, enhanced antiterrorism and force protection measures, and ADA compliance.

Client

U.S. Coast Guard, CEU
Cleveland, Ohio

James Dinda
(216) 902-6223

Completion Date

2008

Project Costs

\$3,200,000 (Construction)

Baker's Role

- Project Administration
- Planning
- Concept Development
- Civil Design
- Subsurface Investigation
- Architectural Design
- MEP Engineering
- Structural Design
- Fire Protection Design
- Cost Estimating



On-Call Engineering and Architectural Services

Wheeling-Ohio County Airport (HLG), Wheeling, West Virginia

Since 2001, Baker has provided on-call engineering and architectural services at Wheeling-Ohio County Airport under a comprehensive engineering services agreement with the Ohio County Commission. Typical tasks performed include feasibility studies and surveys, bituminous pavement design, runway lighting design, civil site design, construction cost estimation, and construction management and inspection services.

Representative projects are highlighted below.

- Rehabilitation of Runway 16-34
- Rehabilitation of Main Terminal Aircraft Parking Apron
- Rehabilitation of Runway 3-21 and Taxiways A and T
- Crack Sealing and Seal Coating of Taxiways B, C, and D
- Design of Runway 34 Turnaround Taxiway
- Improvements to Aircraft Rescue and Fire Fighting/Snow Removal Equipment Storage Building
- Feasibility Study for Runway 3-21 Safety Area Improvements
- Rehabilitation of T-Hangar Taxiway
- Design of Airport Access Roads
- Design of Runway 16-34 and Runway 3 NAVAIDS

Replacement of Security Fencing

Engineering design, bid phase services, construction support, construction management and testing, and grant administration services were provided for the replacement of fencing between the terminal building and the Fixed Based Operator (FBO) facility and the addition of new security fencing around the fuel facility at the airport.

The existing decorative fence between the terminal building and the FBO, which was only four feet high, was replaced with a new decorative fence standing approximately six-and-a-half feet high. The new fence, unlike the existing fence, prevented unauthorized entry to the air operations area. The existing electric gate was also replaced with a new electric gate compatible with the new fencing. In addition, the area between the buildings was illuminated. Illuminating this area will help pilots who are maneuvering aircraft on the ramp at night to identify the edge of the ramp. It will also deter unauthorized entry to the air operations area.

An eight-foot-high chain-link security fence was installed around the fuel facility located on the west side of the FBO. The fence connects to the west side of the FBO facility, wraps around the fuel facility, and terminates on the west side of the FBO facility. A vehicle gate was installed for access from the ramp.

Client

Ohio County Commission
Route 5, Box 5
Wheeling, West Virginia 26003

Completion Date

2004

Project Costs

\$3,200,000 (Construction)

Baker's Role

- Project Administration
- Feasibility Study Development
- Planning
- Pavement Condition Survey
- Grading and Drainage Design
- Bituminous Pavement Design
- Runway Lighting Design
- Civil and Electrical Design
- Access Roadway Design
- Construction Cost Estimation
- Bid and Contract Document Preparation
- Construction Management and Inspection
- Construction Monitoring
- Grant Administration
- Airport Layout Plan Update

Perimeter Fence Access Road

Pittsburgh International Airport (PIT), Pittsburgh, Pennsylvania

This project included the design of a perimeter road on the interior of the Air Operations Area perimeter fence at the Pittsburgh International Airport (PIT). In general, the design determined the best location of an inspection road whereby the Allegheny County Police can inspect the perimeter fence line from the secure side of the fence. The proposed access road makes use of existing roads where possible to minimize cost. In some cases, it was more economical to move the perimeter fence in lieu of building a road where terrain may be severe. The interior fence road is a 12-foot-wide road constructed of crushed aggregate to a 2A gradation. In some cases, it was not possible to construct a roadway on the inside of the fence, such as in the area of the tunnel under Taxiway N.

The security fence access road design considered relocating the perimeter AOA fence where it was economical in lieu of extensive grading, impacts on wetlands, etc. The fence relocation used standard FAA construction details. This work was also coordinated with the ACAA's security consultant such that any improvements made were done in accordance with any new requirements that the security consultant may have deemed necessary.

This project required preparation and submission of FAA Environmental Evaluation "Form C". The application was prepared and submitted to ACAA for review and comment prior to the final submission to the FAA for approval. This project also requires preparation and submission of FAA Environmental Evaluation "Form C".



Client

Allegheny County Airport Authority
Pittsburgh International Airport
Landside Terminal, 4th Floor
Mezzanine
P.O. Box 12370
Pittsburgh, Pennsylvania 15231-0370

Completion Date

2004

Project Costs

\$2,500,000 (Construction)

Baker's Role

- Site Investigation/Field Survey
- Perimeter Fence Relocation
- Drainage Design
- FAA Environmental Evaluation "Form C"
- Erosion and Sedimentation Control Plan
- FAA Form 7460, Notice of Proposed Construction or Alteration
- Construction Phase Services
- DBE Participation

N-358R10, Operations and Maintenance Facility Security Improvements

Lebanon, Pennsylvania

Baker provided engineering services for the improvement of the security fencing and proximity access card system at a transit agency's operations and maintenance facility. Baker's services included design development and preparation of construction documents, bidding-phase support, construction management, and construction inspection.

The transit agency provides fixed-route bus services and paratransit service throughout Lebanon County, and provides intercity bus service to Hershey, Pennsylvania. Baker provided engineering services for security improvements to the transit agency's operations and maintenance facility under an open-end agreement to provide engineering and planning services for multimodal public transportation projects.

Baker developed plans and specifications for the improvements to the security fencing, including supplemental gates and access controls, and to the proximity card access system. Baker also prepared the construction bid package, creating supplemental conditions to the contract and incorporating the design drawings and specifications.

Bidding-phase support included writing the construction bid advertisement for the project and placing it in local newspapers. Baker conducted the pre-bid conference and prepared and distributed minutes, received bids at a public opening, recorded the bids, analyzed the bid data, and provided contract award recommendations to the transit agency. Following approval of the recommendations, Baker wrote the letters of intent to the successful bidders. Baker also conducted the preconstruction conference, prepared and distributed the minutes, and wrote and managed the full execution of the contracts.

During construction, Baker provided a part-time construction manager to implement a project control system, verify contract compliance, monitor the construction schedule, conduct biweekly progress meetings and special meetings, review contractor submittals, monitor safety compliance, and review requests for payments. Baker prepared monthly construction summary reports, which described the status, progress, costs, and schedule. Baker also provided construction inspection and construction closeout support.

Client

County of Lebanon Transit Authority
Lebanon, Pennsylvania 17046

Completion Date

2013

Project Costs

N/A

Baker's Role

- Design
- Preparation of contract documents
- Bidding-phase support
- Construction management
- Construction inspection
- Project closeout support

Security Upgrades to Perimeter Fence, Guard Shelters, and Gates

Pittsburgh International Airport (PIT), Pittsburgh, Pennsylvania

This project included the design of numerous upgrades to the perimeter fence, gates, and guard shacks at the Pittsburgh International Airport (PIT). In general, the perimeter fence and gates demarcating the Air Operations Area (AOA) were visually inspected for deficiencies and were designed to be replaced as needed. Furthermore, this project updated the existing West Vehicle Guard Shack with a new guard shack configured in a much more desirable location and also included a new guard shack at the Hangar 1 AOA entrance. Finally, tire shredders were designed to be added to the new Hangar 1 and West Vehicle Gates to prevent access to the AOA through the gate exit lanes.

Site Investigation

T.W. Engineering, Inc. performed field surveying in support of the design development in order to determine which sections of perimeter fence and gates should be considered for replacement. The field survey included the use of GPS equipment to denote the coordinates on the plans of the sections of fencing that need to be repaired or replaced.

Perimeter Fence Upgrades

The perimeter AOA fence was inspected for evidence of old fence in need of replacement or repair, washouts, tree damage, and potential climbing aids.

The design package included the replacement of deteriorated fence and gates, AOA fence signage, and provisions for clearing the fence line for a distance of fifteen (15) feet on either side where possible to eliminate any potential climbing aids. The fence replacement used standard FAA construction details. Fence areas near the terminal and visible to the public were upgraded to a more substantial barrier.

West Vehicle Gate Guard Shack Relocation

This project included the relocation and replacement of the West Vehicle Gate Guard shack to the east, closer to the location of the existing card readers. The project included a new guard shack placed in the center of the roadway, with the entrance and exit lanes located on either side. The roadway was widened at the guard shack to accommodate the new lane configuration. The new guard shack was a pre-engineered and prefabricated structure with heat and air conditioning, telephone, and a monitor for the new card reader. New drop arm gates were installed at the guard shack as a further deterrent to unauthorized AOA access. Utility feeds were extended from the existing guard shack to the new guard shack as required.

Client

Allegheny County Airport Authority
Pittsburgh International Airport
Landside Terminal, 4th Floor
Mezzanine
P.O. Box 12370
Pittsburgh, Pennsylvania 15231-0370

Completion Date

2004

Project Costs

\$1,600,000 (Construction)

Baker's Role

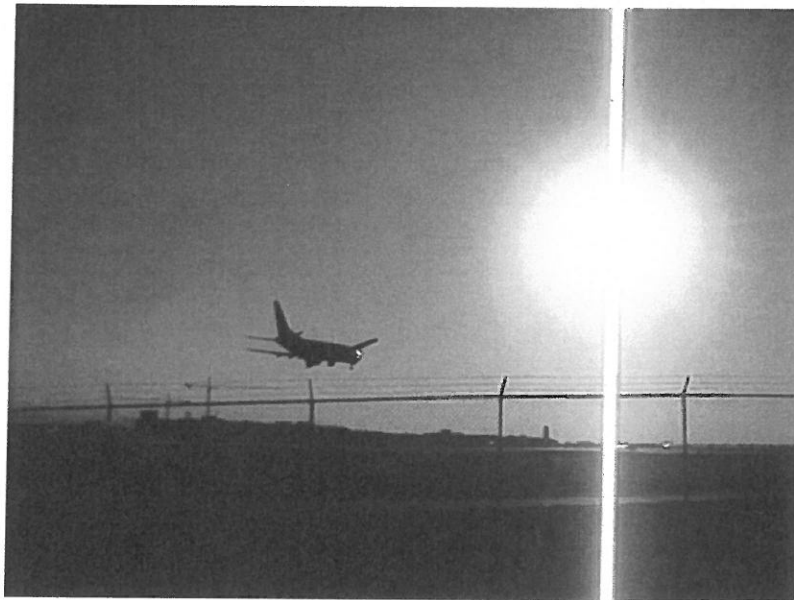
- Design of Perimeter Fence Upgrades
- West Vehicle Gate Guard Shelter Relocation
- Hangar 1 Vehicle Gate Replacement
- Tire Shredder Installation
- Construction phase services

Hangar 1 Vehicle Gate Replacement

The existing vehicle gate at Hangar 1 was replaced. A new pre-engineered and prefabricated structure with heat and air conditioning, telephone, and a monitor for the new card reader was specified in a new location to better position the security guard for checking ID badges. A turnstile for employees entering the AOA on foot was specified next to the guard shack. Two new card readers were designed for entering and exiting the AOA. Utility feeds were extended from the existing guard shack to the new guard shack as required for power and for the card readers.

Tire Shredder Installation

This project included the installation of tire shredders to prevent vehicles from traversing the guard shack in the outbound lane. The tire shredders were specified as mechanical type shredders that fold down when crossed in the correct direction, but puncture a tire if crossed in the wrong direction. These devices were installed at the new guard shacks at Hangar 1 and the West Vehicle Gate.



Comprehensive Design Services - Contract VI, MAA-AE-03-005

*Baltimore/Washington International Thurgood,
Marshall (BWI) & Martin State (MTN) Airports,
Baltimore, Maryland*

Baker provided general architectural and engineering services to the Maryland Aviation Administration (MAA), Division of Facilities Design, working under contract for the sixth Comprehensive Design Services contract on the following task orders:

Task 2355.1: Security CCTV Upgrades - Short Term. Task provided Phase I, II, and III services for the upgrades to the CCTV Security System at BWI Airport. Phase I documented existing facilities and determined what needs to be upgraded and added to the system in order to accomplish the immediate goals of MAA Security. Phase II and III provided detailed design and construction administration services for the addition of 25 new cameras, 4 new digital video recorders, 3 workstations, and associated work.

Task 2355.2: Security CCTV Upgrades - Long Term. This study developed a needs analysis to determine the long term needs for Airport Security Improvements and recommended a proposed program with costs and required phasing.

Task 2355.3: TSA CCTV Project. This study developed construction cost estimates, feasibility estimates and recommendations for the Maryland Aviation Administration to take ownership of TSA cameras at the security checkpoints.

Task 2362: Perimeter Security Fence & Gates Improvements. Task investigates the existing security fence perimeter and recommends modifications to the existing airport security fence to improve safety and address wildlife issues. Necessary modifications will be ranked by priority.

Task 2362.1: Perimeter Security Fence & Gate Improvements, Phase I. Provided design and construction administration services for the first Phase of the Perimeter Security Fence Improvements. Replaced 8 foot fence with 10 foot fence and provided modifications to areas not currently meeting MAA and TSA requirements.

Client

Maryland Aviation Administration
P.O. Box 8766
Third Floor, Terminal Building
BWI Airport, Maryland 21240-0766

Completion Date

2010

Project Costs

N/A

Baker's Role

- Planning
- Feasibility Study
- Conceptual Design
- Preliminary Design Report
- Geotechnical Design
- Survey and Mapping
- Drainage and Stormwater Management Design
- Erosion and Sediment Control Design
- Landside Design
- Airside Design
- Pavement Design
- Architecture
- Structural Design
- MEP Design
- Permitting
- Security Evaluation/Design
- Construction Management

Wildlife Fence

**Orangeburg Municipal Airport (OGB), Orangeburg
County, South Carolina**

Baker provided design, bidding phase services, construction administration and inspection, grant administration, and a categorical exclusion environmental document for a wildlife fence.

The construction work generally consisted of the installation of approximately 2,300 linear feet of 8-foot chain link fence with three-strand barbed wire; installation of three dual-leaf swing gates, rip rap along the existing fence, and railroad ballast stone along existing gates; removal of approximately 760 linear feet of existing 6-foot chain link fence and gate; tree clearing within the limits of the Runway Object Free Area (ROFA); and individual pine tree clearing in the wetlands.



Client

City of Orangeburg
P.O. Drawer 387
Orangeburg, South Carolina 29116

Completion Date

2012

Project Costs

N/A

Baker's Role

- Design
- Bidding
- Construction administration
- Construction inspection
- Grant administration
- Categorical exclusion



Comprehensive Design Services - Contract VII, MAA-AE-06-008

*Baltimore/Washington International Thurgood,
Marshall (BWI) & Martin State (MTN) Airports,
Baltimore, Maryland*

Baker is providing general architectural and engineering services to the Maryland Aviation Administration (MAA), Office of Design and Construction. This is the seventh consecutive Comprehensive Design Services contract that Baker has been awarded with this client. Following are summaries of the task orders that have been assigned to date.

Task 2800.1: Airport Security Plan. Baker assisted MAA in updating the Airport Security Plan for BWI.

Task 2808: Controlled Access Security System (CASS). Baker performed a study for the replacement of the existing CASS. The study evaluated the existing system, new system, integration, CCTV requirements, biometrics, and other pertinent IT-compatibility systems. As part of the study, a vulnerability assessment was performed to determine what measures can be taken to minimize the possibility of security breach.

Task 2814: Terminal Security Access Improvements at BWI. Baker provided planning-level documents and construction cost estimates for possible solutions to access the SIDA doors at BWI. Due to the reduction in funding for guards at these doors, alternative methods of protection were evaluated.

Task 2833.1: Employee Parking Lot Relocation – Old Elkridge Landing Lot. Baker provided construction documents for improvements to the Old Elkridge Landing Lot. This lot will now serve as a staging area for Super Shuttle and First Transit buses, along with limousines and coach buses. Improvements include perimeter fence repairs, pavement repairs, tree removal, trailer relocations, and upgrades to the existing lighting.

Task 2833.2: Employee Parking Lot Relocation – Hourly Garage Lot. Baker provided construction documents for improvements to the lot behind the Hourly Garage so that employee parking can be relocated closer to the terminal building. Improvements include perimeter fence replacement, pavement repairs, pavement marking, and upgrades to the existing lighting.

Task 2833.3: Employee Parking Lot Relocation – Old ESP A Lot. Baker provided construction documents for improvements to the lot behind the Hourly Garage so that employee parking can be relocated closer to the terminal building. Improvements include perimeter fence replacement, pavement repairs, pavement marking, and upgrades to the existing lighting.

Client

Maryland Aviation Administration
P.O. Box 8766
Third Floor, Terminal Building
BWI Airport, Maryland 21240-0766

Completion Date

2014

Project Costs

N/A

Baker's Role

- Facility assessment
- Engineering studies
- Architecture
- Airfield design
- Airfield pavement marking and parking lot plans development
- Airport design standards update
- Airport security plan update
- Project management software development
- Cost estimate preparation
- Bid document preparation
- Construction-phase services

Task 2833.4: Employee Parking Lot Relocation – QTA Lot. Baker provided construction documents for improvements to the lot behind the Hourly Garage so that employee parking can be relocated closer to the terminal building. Improvements include replacement of perimeter fence, pavement repairs and reconstruction, pavement marking, and new lighting.

Task 2835: Security Gate J Improvements. Baker provided construction documents to redesign and modernize airport access control vehicle entry-exit at Security Gate J.

Task 2846: Benson Hammond House Gate. Baker provided design and construction administration services to modify the perimeter fencing and entrance gate geometry in accordance with the MAA directives. The design was expedited and procured through an on-call construction contract.

Part 7 – Resumes

Russell E. Hall, P.E., P.S.
Assistant Vice President and Charleston Office Manager

General Qualifications

Mr. Hall currently serves as Assistant Vice President of Michael Baker Jr., Inc., as well as Office Manager of our Charleston, WV office. He is an experienced transportation engineer who has been involved in numerous bridge and highway design projects in West Virginia for over 28 years. His project management responsibilities involve overseeing staff from project inception through completion, and ensuring that the clients' needs and requirements are met.

He also has over nine years of office management experience. His office management responsibilities include financial oversight and accountability for a staff of over 40 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

Kanawha River Bridge, Charleston, West Virginia. *Brayman Construction Company.* Principal-In-Charge. Responsible for oversight of Project Management. Baker's Charleston, West Virginia office redesigned seven piers for the contractor and performed a complete analysis of the superstructure and substructure to properly size the piers.

US 35/I-64 Interchange Post Design, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Principal-In-Charge. The design phase of this project provided for the preparation of construction and right of way plans for approximately three miles of 4-lane divided highway. The construction plans were separated into three construction contracts and included the design of two interchanges, two bridges, numerous box culverts and a vehicular underpass. The post design phase of this project provided for the review and approval of shop drawings and responding to Requests for Information. Baker designed the original post-tensioned concrete box bridge. Contractor value engineered the superstructure to a steel girder bridge. Foundation for piers and abutments were as designed. Baker reviewed pile testing, mass concrete results, and MSE wall calculations provided by the contractor.

Fort Pleasant Access Road Project, Moorefield, West Virginia. *Fort Pleasant Farms, Inc.* Principal-In-Charge. Responsible for oversight of project finances, schedules and quality control. Baker prepared contract construction plans and related documents for a 3-lane access road connecting Corridor H to private property in Moorefield, WV.

WVDOH Six-Year Bridge Inspection Program, Various Locations, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Principal-In-Charge. Responsible for oversight of project finances, schedules and quality control. Baker was responsible for performing the inspection services and report writing for the New River Gorge Bridge, Veteran's Memorial Bridge, Fort Hill Bridge, Fort Henry Bridge and Wheeling Tunnels.

Years with Baker: 10

Years with Other Firms: 18

Education

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

Licenses/Certifications

Professional Engineer, West Virginia, 1990

Professional Surveyor, West Virginia, 1996

Fort Pleasant Farms Two Lane Road Design, Moorefield. *Fort Pleasant Farms, Inc.* Principal-In-Charge. Responsible for oversight of project finances, schedules and quality control. This project involved the study, design and final construction plan development for a new two-lane access road approximately 1500' in length. This access road was designed to connect a commercial/residential development to the Moorefield Interchange on Corridor H in Moorefield, West Virginia.

Town of Moorefield-Maple Avenue Streetscape, Moorefield. *Town of Moorefield.* Principal-In-Charge. Responsible for oversight of Project Management. The Town of Moorefield was in need of a pedestrian-friendly way of connecting the downtown area with the highly utilized nearby community park. Maple Avenue was a secondary street connecting the two areas, but had no sidewalks and deep ditches along most of the corridor. Moorefield tasked Baker with the planning and design of improvements that would both upgrade existing facilities and create a unified community linking the downtown with the community park.

Blennerhassett Island Bridge, Appalachian Corridor D, Washington County, Ohio and Wood County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Principal-In-Charge. Responsible for oversight of project finances, schedules and quality control. The 878' – 6" long network tied arch was ranked as the longest of its type in the United States and one of the longest in the entire world. Baker provided project management, environmental and location studies, permitting, preliminary and final design as well as construction phase services.

Appalachian Corridor H, Section 6, E. Hardy County 220/8 to WV 55 Interchange, Moorefield, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Principal-In-Charge. Responsible for oversight of project finances, schedules and quality control. This project involved the study, design and final construction plan development for a new roadway beginning 0.6 miles southeast of Hardy County 220/8 and continuing eastward 6.6 miles to an interchange with WV 55. This project included an interchange with the Moorefield Bypass, a ramp connector road south of the corridor west from the possible future Moorefield Bypass to a proposed reconstruction of US 220, a closure study of the floodwall on the north end of Moorefield near this Section 6 proposed highway location, six bridges and completion of an interchange (two ramps) with WV 55 on the east end of the project.

City of Charleston Bridges-Engineering Consulting Services, Charleston, West Virginia. *City of Charleston, West Virginia.* Principal-In-Charge. Responsible for oversight of Project Management. Baker's Charleston, West Virginia office provided various services for the City of Charleston. Baker reviewed existing inspection reports, performed bridge inspections and recommended and prioritized repairs for 13 bridges owned by the city.

Kanawha-Putnam Bike/Pedestrian Plan, Phase I, South Charleston. *Regional Intergovernmental Council.* Principal-In-Charge. Responsible for oversight of Project Management. Baker performed a cursory inventory of existing bicycle and pedestrian facilities, identified areas with a high level of bicycle and pedestrian activity, collected existing resources and performed a broad base public outreach effort to identify bicycle and pedestrian issues in Kanawha and Putnam Counties for the Regional Intergovernmental Council (RIC). All data, survey results and preliminary findings were compiled for analysis and incorporation into the final plan during Phase II of the study.

Town of West Milford Sidewalk Improvements, West Milford, West Virginia. *Town of West Milford.* Principal-In-Charge. Responsible for oversight of Project Management. 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.

Patrick W. Fogarty, P.E., P.S., LEED® GA

Facilities Practice Manager

General Qualifications

Mr. Fogarty is an asset to the Baker team with over 29 years of project design and 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

Ararat River Restoration, Greenway, and Parks Project, Mount Airy, North Carolina. *City of Mount Airy, North Carolina.* Civil Engineer. Responsible for the site-civil park improvements along the greenway. Baker is preparing construction documents and construction administration and inspection services for three parks along the Ararat River in North Carolina: the first park, Riverside Park, includes basketball courts, playground structures, parking areas, a premier soccer field, picnic shelters, nature trails, canoe launch facility, restrooms, fencing, signage and landscaping. Rowe Environmental Park will showcase environmental issues in the park design and construction including an outdoor amphitheater/classroom, picnic facilities, nature trails, parking area, pedestrian bridge to nearby middle school, fishing access and canoe launch facility. The final park, Tharrington Park, will include a premier soccer field, additional soccer fields to create a soccer complex, access road and parking, fitness trail, restroom facility, concessions, and maintenance building.

Town of Moorefield-Maple Avenue Streetscape, Moorefield. *Town of Moorefield.* Project Manager. Engineer of Record responsible for the coordination of all activities. The Town of Moorefield was in need of a pedestrian-friendly way of connecting the downtown area with the highly utilized nearby community park. Maple Avenue was a secondary street connecting the two areas, but had no sidewalks and deep ditches

Years with Baker: 9

Years with Other Firms: 20

Education

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

Diploma, 1993, Surveying and Mapping, International Correspondence Schools

Coursework, Business Administration, Heriot-Watt University, Edinburgh College of Art

Licenses/Certifications

Professional Engineer - Civil/Structural, WV, 1990

Professional Engineer, KY, 2000

Professional Engineer, VA, 2002

Professional Engineer, PA, 2003

Professional Engineer, OH, 1996

Professional Engineer, NC, 2008

Professional Surveyor, WV, 1993

Professional Surveyor, KY, 2001

Professional Surveyor, OH, 1996

Construction Documents Technologist, 1996

FAA, Eastern Region Laboratory Procedures Manual Certificate (P-401), 1992

Asphalt Paving Tech., WV, 1991

Concrete Technician, WV, 1991

Soils Compaction, WV, 1991

Aggregate Sample Insp., WV, 1991

LEED® Green Associate, 2012

along most of the corridor. Moorefield tasked Baker with the planning and design of improvements that would both upgrade existing facilities and create a unified community linking the downtown with the community park.

Town of Hambleton Storm Sewer Planning and Facilities, Hambleton. *Town of Hambleton.* Project Manager. Engineer of Record responsible for the coordination of all activities. Baker was retained by the Town of Hambleton to prepare a stormwater management plan and subsequent bid documents, and construction documents and specifications for the implementation of the plan. The stormwater management study concentrated on the area from the initial collection point along State Route 72 (Center Street) down gradient to the eventual outfalls at the Blackwater River.

City of Parsons Sidewalk Improvements, Parsons, West Virginia. *City of Parsons, West Virginia.* Project Manager. Engineer of Record responsible for the coordination of all activities. Baker performed complete planning, design, and construction management services for new sidewalks and streetscape elements for various areas within the City of Parsons. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, ladder-style crosswalks, and storm water management, landscape beds and street trees, side street parking elements, and wrought iron park benches and trash receptacles. Baker provided Construction Administration and inspection services as well as periodic site review during construction.

Valley Park Sidewalk Improvements, Hurricane, West Virginia. *Putnam County Parks.* Project Engineer. Responsible for the coordination of all engineering activities. Baker performed complete planning, design, and construction management services for new sidewalks and street improvements for access into Valley Park, Putnam County. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, crosswalks, and storm water improvements. The park sidewalks now have a unique colored stamping of natural elements found in West Virginia, such as bear and raccoon tracks, leaves and flowers. Baker also provided construction administration and periodic inspection services.

Engineering, Construction Management, and Inspection Services for Conversion of Railroad Trestle to Hiking and Biking Trail, Parsons, West Virginia. *City of Parsons, West Virginia.* Project Manager. Responsible for the coordination of all activities. Baker is providing engineering, construction management, and construction inspection services for the conversion of an old, abandoned railroad bridge to a pedestrian and bicycle trail that will become part of the Allegheny Highlands Trail. Baker's services include base mapping, structural inspection, cost estimates, and development of construction and bid documents. Baker will also provide bid phase support, construction management, and construction inspection.

Kanawha-Putnam Bike/Pedestrian Plan, South Charleston. *Regional Intergovernmental Council.* Project Manager. Lead Planner responsible for the coordination of all activities. Baker performed a cursory inventory of existing bicycle and pedestrian facilities, identified areas with a high level of bicycle and pedestrian activity, collected existing resources and performed a broad base public outreach effort to identify bicycle and pedestrian issues in Kanawha and Putnam Counties for the Regional Intergovernmental Council (RIC). All data, survey results and preliminary findings were compiled for analysis and incorporation into the final plan during Phase II of the study.

Town of West Milford-Sidewalk Improvements, West Milford, West Virginia. *Town of West Milford.* Project Manager. Engineer of Record responsible for the coordination of all activities. 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.

David Hilliard, P.E., LEED® AP

Mechanical/Electrical Engineer

General Qualifications

Mr. Hilliard has a wide range of “hands on” design and construction experience. From his simple beginnings as a carpenter he has expanded his professional abilities. His recent design experience has included the complex mechanical design of such projects as the complex CAMC Hospital, Charleston, WV. His resume covers over 22 years of real world work in design, layout, fabrication, construction and finishes in both the mechanical and general trades.

Over the years, while practicing his profession, Mr. Hilliard continued his education. He attended night school and began working on a civil engineering degree, which later changed to mathematics then finally to mechanical engineering. While attending college, he used his HVAC work experience to evaluate mechanical problems and make design recommendations on numerous public and commercial buildings.

Experience

Bank Street Streetscape, Phase I, City of Nitro, West Virginia. *City of Nitro.* Project Engineer. Responsible for detailed design, QA/QC, construction administration and inspection of the new “period” street lighting system associated with the streetscape improvements. Mr. Hilliard worked closely with city officials and the lighting manufacturers from concept development to final installation and start-up.

Charles Street Streetscape, Phase I, City of Dunbar, West Virginia. *City of Dunbar.* Project Engineer. Responsible for utility coordination, detailed design, QA/QC, construction administration and inspection of the new “period” street lighting system associated with the streetscape improvements.

Main Street Streetscape, Town of West Union, West Virginia. *Town of West Union.* Project Engineer. Responsible for detailed design, QA/QC, construction administration and inspection of the new “period” street lighting system associated with the streetscape improvements. Mr. Hilliard worked closely with the Doddridge County EDA, city officials and the lighting manufacturers from concept development to final installation and start-up.

A/E Services for the Charleston Armory Improvements, West Virginia Army National Guard, Division of Engineering and Facilities, Charleston, West Virginia. *State of West Virginia, Division of Engineering and Facilities.* Project Engineer. Responsible for detailed design, QA/QC, construction administration and inspection. 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 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 architectural improvements of the first floor of the Office of the Adjutant General (TAG), and further provide MEP and HVAC design improvements for the entire TAG Wing, Headquarters

Years with Baker: 5

Years with Other Firms: 19

Education

B.S., 2002, Mathematics, West Virginia State College

B.S., 2005 Mechanical Engineering, West Virginia University Institute of Technology

Licenses/Certifications

Professional Engineer, WV, 2010

LEED® Accredited Professional, BD+C, 2012

Professional Affiliations

ASME

ASHRAE

SMACNA

Building, and Armory/Drill Floor. The Owner desired the modernization of approximately 55,000 square feet of existing outdated heating, ventilation, and air conditioning equipment. Total 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, asbestos removal, and a new 4-pipe environmental control system. Baker worked closely with the client during the planning phase to define a project scope to upgrade the existing facility consistent with previous renovations and within a limited budget.

A/E Services for the Capitol Campus Master Plan, State of West Virginia, Charleston, West Virginia. *State of West Virginia, General Services Division.* Project Engineer. Mr. Hilliard is currently providing MEP services for a comprehensive campus-wide master plan for the 55+ acre state capitol campus. Working in conjunction with a team of specialized consultants, David is currently providing programming, cost estimating and facilities planning support. This includes HVAC Loads, private and public utility evaluation and planning, emergency generator systems, as well as developing proposals for a connecting tunnel system.

A/E Services for the Little Kanawha Bus Terminal, Grantsville, West Virginia. *State of West Virginia, Department of Administration, Charleston, West Virginia.* Mechanical Engineer. Mr. Hilliard is responsible for the Mechanical, Electrical and Plumbing Design, MEP Document Preparation, and Construction Administration for a new bus maintenance and office facility for Gilmer County. His duties include the design of the vehicle storage, cleaning and maintenance mechanical systems, as well as oil pumping and collection systems. The design of an energy efficient HVAC system for the entire building is also part of his responsibilities.

West Virginia State Capitol Building 1 Restrooms Restoration and Renovations, State of West Virginia, Charleston, WV. *State of West Virginia, General Services Division.* Mechanical Engineer. Mr. Hilliard is currently providing the State of West Virginia General Services Division a comprehensive plumbing plan for the renovation and restoration of over 33 restrooms at the Main Capitol Building, a historic Cass Gilbert design.

Non-Baker Project Experience

CAMC Memorial, Kanawha City, West Virginia

Performed design calculations, layout of Plumbing, HVAC ductwork, piping and components for three floors of the Clinical Teaching Center; Lobby, Cath Labs and patient rooms. This work was all done in affiliation with BSA Life Structures.

Raleigh General Hospital Surgery Suite; Beckley West Virginia

Worked on value engineered and shop drawing for a 20,000 square foot surgery addition, as well as managed and coordinated construction of this complex mechanical design.

Ashland Community and Technical College; Ashland, KY

Mr. Hilliard worked on Design Evaluation and Coordination of the Medium Pressure VAV Mechanical System. He prepared shop drawings and coordination drawings. His duties also included Construction Administration.

West Virginia Army National Guard support Maintenance Shop; Eleanor WV

Mr. Hilliard worked on Design Evaluation and Coordination of construction of the HVAC system; including infrared heat, gas unit heaters, auto fume exhaust and make-up air.

J. Steve Frazer, P.S.
Surveyor/Civil Associate

General Qualifications

Mr. Frazer is currently employed as a Civil Associate and Surveyor at the Charleston, West Virginia office.

Mr. Frazer has over 26 years of diverse surveying experience that includes geomatics, topographic, aerial mapping control, research, boundary, right of way, construction stake-out, site development, volumetric, pipeline and forensic surveys.

Experience

Sidewalk and Streetscape Improvements Projects, West Virginia. *Various Locations.* Professional Surveyor/Crew Chief. Coordinated and executed the development of base mapping, project control, utility location, right of way and property boundary, construction stakeout and monitoring.

Notable locations include:

Town of West Milford	City of Winfield
Town of Mason	City of Madison
Town of Parsons	City of Nitro

Various WVDOH Highway Projects, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Project Surveyor. Provided topographic mapping, and right of way services on several WVDOH projects for various highway consulting engineering firms. Responsibilities on these projects consisted of the generation of site surveys, property boundary mosaics, courthouse research, right of way questionnaires, and the development of right of way plans and parcel descriptions. This work included locating all physical and topographic features, utility locations, storm drainage features, property boundary lines, courthouse research and interaction with all existing property owners to complete property questionnaires for right of way acquisition, drill program planning, core logging and analysis, and cut-fill slope design.

Mart Whitt Branch Property Survey, Elliott County, Kentucky. *Kentucky Department of Fish and Wildlife Resources.* Project Surveyor. Provided complete services for a 400 Acre Boundary Survey. Services included field surveying, courthouse research, final monumentation and assessment of the Title Commitment for the subject property.

Various Projects. *NiSource Corporate Services Company.* Project Surveyor.

- Gas Pipeline Survey and Mapping, Kentucky. Responsibilities included determining survey methods, cost estimates, survey coordination, and gathering and processing survey data.
- General Services Agreement for Construction, Maintenance, Services and Materials. Responsibilities included determining survey methods, cost estimates, and survey coordination.
- NiS Kentucky ILI Site Survey. Responsibilities included coordinating survey efforts for forensic investigation, gathering and processing survey data, preparing deliverables, and client relations.

Years with Baker: 4

Years with Other Firms: 22

Education

A.S., 1984, Civil Eng. Technology,
West Virginia Institute of
Technology

B.S., 1986, Civil Eng. Technology,
West Virginia Institute of
Technology

Licenses/Certifications

Professional Surveyor, West
Virginia, 1996

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- NiS L200 Boundary Survey, Knifley, Kentucky. Responsibilities included courthouse research, deed composite, gathering and processing survey data, evidence evaluation, boundary determination, final deliverables, and client relations.
 - CPG – PM3 and NiS Phase II - Clendenin Cobb. Responsibilities included coordinating survey efforts, gathering and processing of survey data, preparing deliverables, and client relations.
 - NiSource - PM-17 Line and SM80 ILI Surveys. Responsibilities included gathering and processing field data, survey coordination, and client and contractor relations.
 - NiSource - SM80 SITE SURVEY. Responsible for coordinating survey efforts for forensic investigation, gathering and processing survey data, preparing deliverables, and client relations.
 - CPG – Clendenin Cobb. Responsibilities included coordinating survey efforts, gathering and processing of survey data, preparing deliverables, and client relations.
 - SM-108 West Pipeline Surveys. Responsibilities included coordination and client/contractor relations.

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:

- **WV Department of Transportation – Division of Public Transit**
1900 Kanawha Boulevard East,
Building 5, Room 906
Charleston, WV 25305-0432
Mr. William Robinson, Division Director
(304) 558-0428
- **Regional Intergovernmental Council**
315 D Street
South Charleston, WV 25303
Mr. Mark Felton, Executive Director
(304) 744-4258
- **City of Charleston**
915 Quarrier Street, Suite 5
Charleston, WV 25301-2607
Mr. Chris Knox, P.E., City Engineer
(304) 348-8106
- **WV Division of Homeland Security and Emergency Management**
1900 Kanawha Boulevard, East
Building 1, Room EB-80
Charleston, WV 25305
Mr. Jimmy Joe Gianato, Director of Homeland Security
(304) 530-6142
- **City of Nitro**
2009 20th Street
Nitro, WV 25143
Honorable David Casebolt, Mayor
(304) 419-3322
- **City of Winfield**
1 Main Street
Winfield, WV 25213
Honorable Randy Barrett, Mayor
(304) 586-2122

Attachment A – WV Purchasing Division Quotation Forms



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

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

Proc Folder: 53851

Doc Description: EOI - Coonskin Complex Perimeter Fence Design

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2014-12-10	2015-01-06 13:30:00	CEOI 0603 ADJ1500000002	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Name, Address and Telephone Number:

Michael Baker International
5088 West Washington Street
Charleston, West Virginia 25313
304.769.0821

FOR INFORMATION CONTACT THE BUYER

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

Signature X

FEIN # **25-1228638**

DATE **January 6, 2015**

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

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

Line	Comm Ln Desc	Qty	Unit Issue
1	Perimeter Fence Design	1.00000	JOB

Comm Code	Manufacturer	Specification	Model #
81101508			

Extended Description :

The WV Purchasing Division for the agency, WV Army National Guard's Division of Engineering and Facilities, is soliciting expression of interests for professional design services to provide security fencing for the WVARNG Coonskin Complex located in Charleston, WV, per the attached specifications.

ADJ150000002	Document Phase Final	Document Description EOI - Coonskin Complex Perimeter Fence Design	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

SOLICITATION NUMBER: CEOI - ADJ1500000002
Addendum Number: 1

The purpose of this addendum is to modify the solicitation identified as CEOI - ADJ1500000002 (Coonskin Complex Perimeter Fence Design) ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

Description of Modification to Solicitation:

1. To remove the Vendor Preference Certificate attached to the original CEOI issued on 12/10/2014. This form should be discarded and not included with proposal submission.
2. The bid opening remains on 01/06/2015 at 1:30 pm.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI - ADJ150000002

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

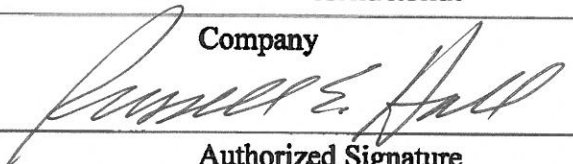
(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that 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.

Michael Baker International

Company



Authorized Signature

January 6, 2015

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

DEFINITIONS:

"Debt" means any assessment, premium, penalty, 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.

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

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

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Michael Baker International

Authorized Signature: *[Signature]* Date: January 6, 2015

State of West Virginia

County of Kanawha, to-wit:

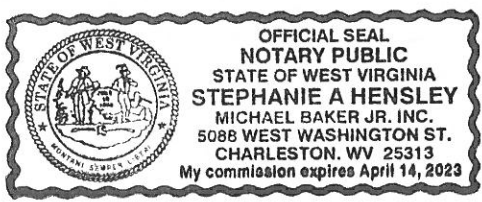
Taken, subscribed, and sworn to before me this 6th day of January, 2015.

My Commission expires April 14, 2023

AFFIX SEAL HERE

NOTARY PUBLIC *[Signature]*

Purchasing Affidavit (Revised 07/1/2012)

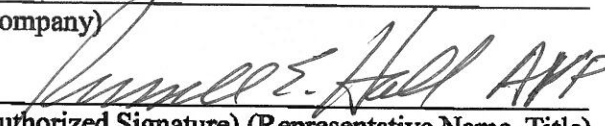


CERTIFICATION AND SIGNATURE PAGE

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Michael Baker International

(Company)



(Authorized Signature) (Representative Name, Title)

(304.769.0821), (304.769.0822), January 6, 2015

(Phone Number) (Fax Number) (Date)