

**Statement of Qualifications for  
Architectural / Engineering Design Services  
Little Kanawha Bus – PTR10011  
Administrative and Maintenance Facility  
Near Grantsville, West Virginia**

*submitted to:*

**Mr. Frank Whittaker, Buyer 44**  
Department of Administration  
Purchasing Division  
Building 15  
2019 Washington Street, East  
Charleston, West Virginia 25305-0130

*submitted by:*

**Michael Baker Jr., Inc.**  
5088 Washington Street West  
Charleston, West Virginia 25313

October 7, 2009



**ChallengeUs.**

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PURCHASING DIVISION  
STATE OF WV



**Baker**

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

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October 7, 2009

Mr. Frank Whittaker, Buyer 44  
Department of Administration  
Purchasing Division  
Building 15  
2019 Washington Street, East  
Charleston, West Virginia 25305-0130

**Re: Statement of Qualifications to Provide Architectural / Engineering Design Services – Little Kanawha Bus – PTR10011 – Near Grantsville, WV**

Dear Mr. Whittaker:

Michael Baker Jr., Inc. (Baker) is pleased to present our qualifications and experience as it relates to the Planning and Design of the proposed Administrative and Maintenance Facility for the Little Kanawha Bus Section 5311 Rural Transit Provider for Calhoun, Jackson and Roane Counties. During your review of the enclosed information, you will see that Baker has completed or is currently performing assignments nearly *identical* to those outlined in your solicitation.

Baker is a global engineering and energy firm with some 4,700 members in 50 office locations. We propose to undertake this assignment from our Charleston office with a staff of over 40 individuals including architects, engineers, landscape architects, planners, surveyors, environmental specialists, construction managers, public safety specialists, inspectors, and technicians.

We feel that our combination of global expertise and West Virginia based experience is unique to Baker and will provide efficient, timely, personal, cost effective, and quality solutions for the Little Kanawha Bus Section 5311 Rural Transit Provider.

We are extremely interested in providing the required services on this important project for the Little Kanawha Bus Section 5311 Rural Transit Provider. We look forward to meeting with the selection committee to personally present our approach to this project.

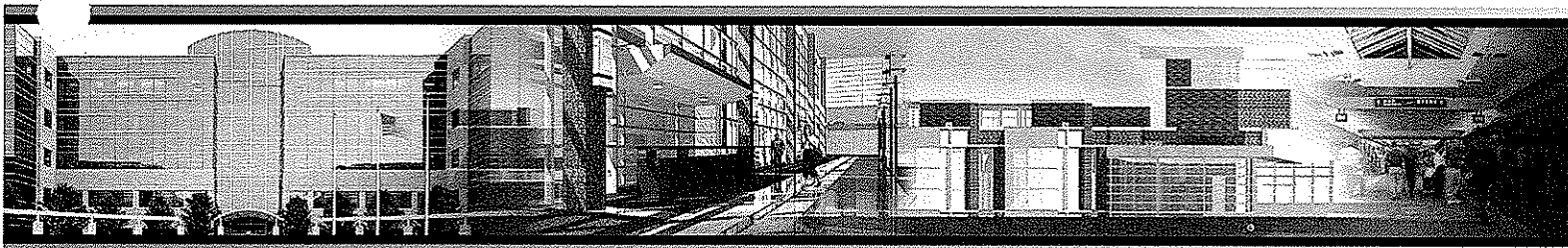
Very truly yours,



**MICHAEL BAKER JR., INC.**

Patrick W. Fogarty, P.E., P.S.  
Civil Services Group Manager

**ChallengeUs.**



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## Part 1 – Introduction

The Little Kanawha Bus Section 5311 Rural Transit Provider is seeking a highly qualified firm experienced in the planning, design, and construction administration to develop a new office and warehouse distribution facility to be located in Frametown. Michael Baker Jr., Inc. (Baker) is a highly qualified firm with extensive experience in providing these services, and we are extremely interested in establishing a professional relationship with the WV Division of Public Transit.

*"...we are extremely interested in establishing a professional relationship with the WV Division of Public Transit."*

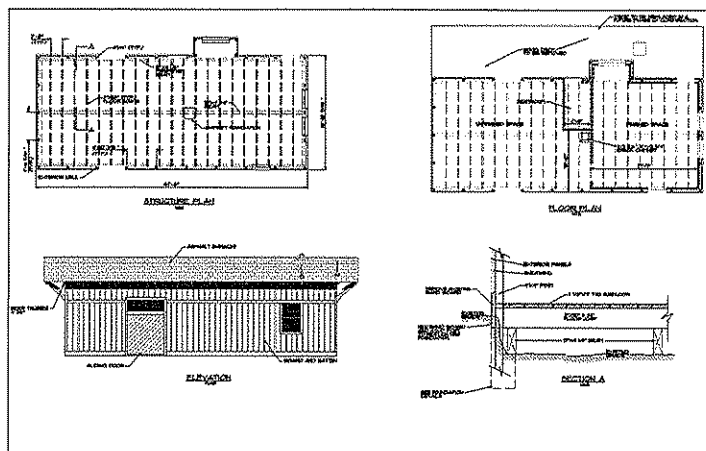
### ***Corporate Capabilities***

Baker is a wholly owned subsidiary of the Michael Baker Corporation (a publicly owned company traded on the American Stock Exchange), employs over 5,000 people in 50 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 34 offices throughout the U.S. from which to serve clients nationally. 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 Little Kanawha Bus Section 5311 Rural Transit Provider for this important project. We have nationally recognized experts with the technical experience necessary for this assignment. In addition, Baker's team of experienced professionals has 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)



*Lost Creek Historic Train Depot Renovations*

- Plan Preparation;
- Full range of Public Transportation Services;
  - Graphic Design Skills (CADD); and
  - Coordination with State and Federal Agencies, as required.

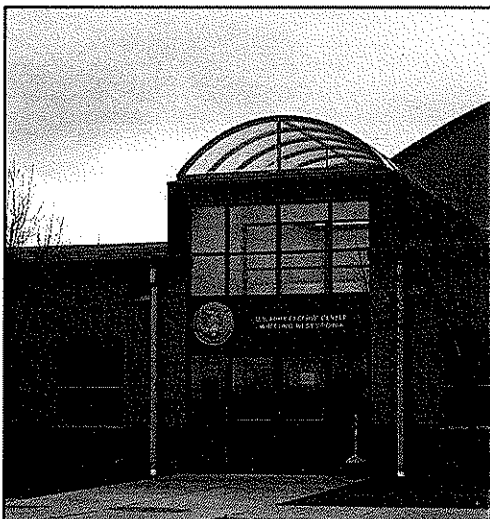
Baker's Charleston office is a "single-stop resource" capable of providing comprehensive professional services, from environmental and public safety planning, final design, and construction management through operational support. From major new bridges and roadway designs to surface mine permitting and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

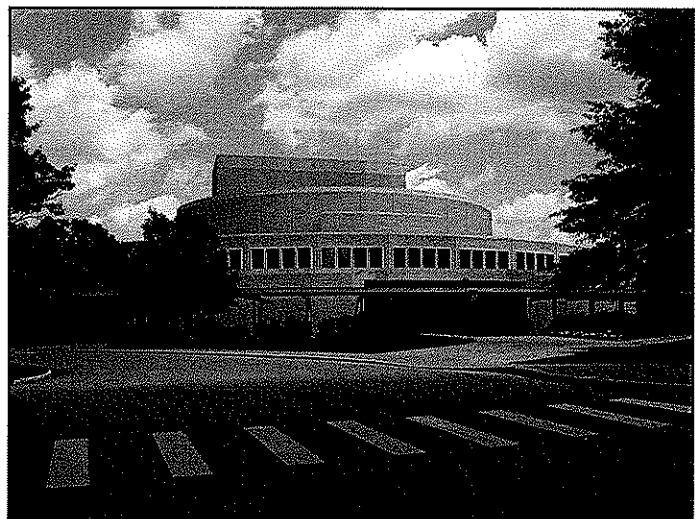
Baker's clients for facilities design and program management projects include, but are not limited to, the Counties, Cities, Towns, and local municipalities, numerous State Departments of Transportation, Military facilities, airport complexes, and private sector clients. Baker's geographic location and extensive experience enables us to quickly respond to wide-ranging scopes of service in order to meet client needs.

### ***Cost Accounting System***

Baker's cost accounting system segregates and accumulates costs by project and by task within each project. Through our work on past Transportation Enhancement projects, the WVDOH is familiar with this system. A current Cost Accounting Information Statement is on file with the WVDOH and is available upon request.



*U.S. Army Reserve Training and Maintenance Center, Wheeling*



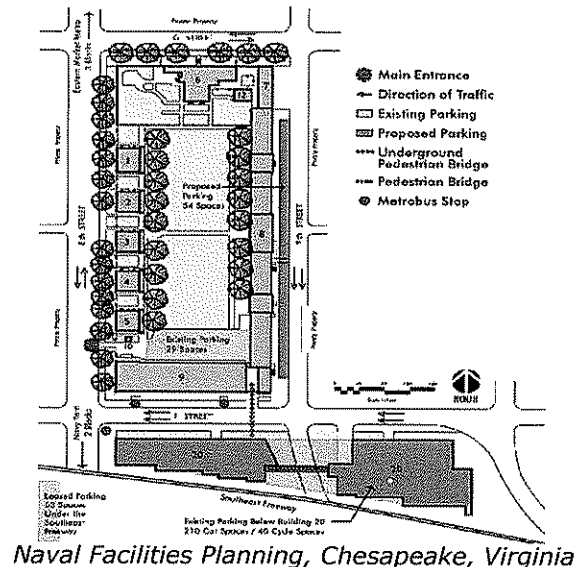
*WVU Creative Arts Center, Morgantown*

## Part 2 – Qualifications

Baker routinely provides architectural/engineering services and project management for the design of municipal 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, corrosion control systems, HVAC design, oil/water separators, and security systems.

Baker's expertise includes but is not limited to:

- 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



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 that are completely familiar with the five elements of the Leadership in Energy and Environmental Design, Green Building Rating System.

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## Part 3 – Technical Expertise

Baker can offer the Little Kanawha Bus Section 5311 Rural Transit Provider proven experience in the following Professional Services which are typical for projects such as the type identified in your Request for Qualifications:

### ***Preliminary Plans and Costs***

Baker proposes to prepare preliminary site plans, elevations and schematic details with supporting design documentation. This document will describe the individual elements required for the architectural, engineering, public safety, environmental and traffic issues associated with the proposed facility.

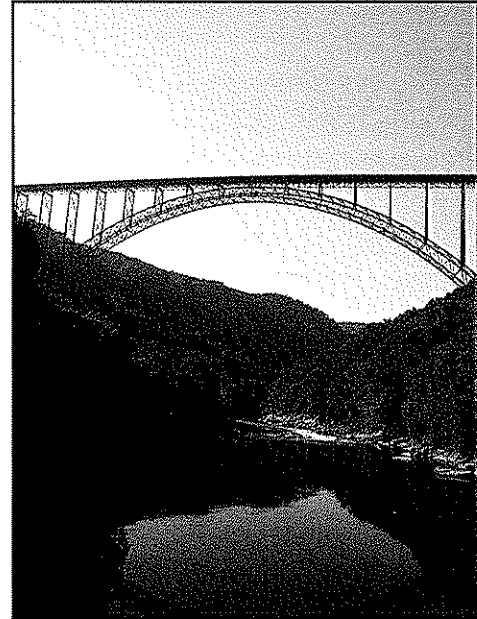
Preliminary Cost Estimates for Construction will be prepared and included in the Preliminary Engineering Report submittal.

### ***Plan and Specification Preparation***

Baker has vast experience in the development of construction plans and technical specifications for all types of architectural engineering projects. Initial survey data, topography, and physical features are collected electronically and downloaded into our CADD system for use by the designers in either AutoCAD or Microstation format. Plan and/or Profile sheets are then developed. Detail Sheets are created from our Standard Detail Library then modified to suit specific project applications. Specifications in Microsoft Word format 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 Municipalities. Permits which may be required for this project include:

- WV Department of Environmental Protection, NPDES Permit
- WVDOT/Division of Highways, MM-109 Permit
- WV Department of Health & Human Resources, Water & Sewer Permit
- WV State Fire Marshal's Office



*New River Gorge Steel Arch Bridge*

***"Baker has established relationships with each of these agencies which will streamline the permit acquisition process."***

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Baker has established relationships with each of these agencies which will streamline the permit acquisition process.

### ***Bidding and Contracting Document Preparation***

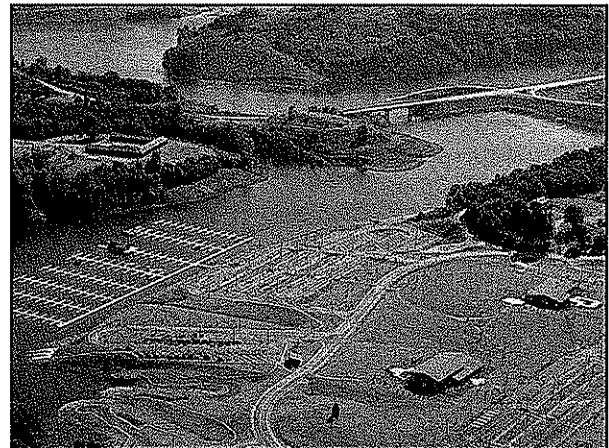
Baker generally makes use of E.J.C.D.C. and/or A.I.A. bidding and contracting documents, as normally dictated by the funding agencies. Blank copies of these forms are included in the Project Manual and made available to all plan holders during the bidding process to minimize the risk of confusion or controversy and "level the playing field" for all prospective bidders. In our bid documents, Baker makes use of additive/deductive alternates and the unit costs approach to bidding. This allows the owner flexibility in spending, to insure the project meets budgetary requirements and that no "surprises" are realized.

### ***Project Bid Evaluation***

Bids will be scrutinized by the Baker Project Manager. Likewise, detailed bid tabulations will be developed to allow WV Division of Public Transit and the funding agencies to work with the Project Manager toward the development of a Construction Contract award.

### ***Construction Administration and Inspection***

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.



*Stonewall Jackson Lake Recreation Area*



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## 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 are 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 principal funding agency or the Little Kanawha Bus Section 5311 Rural Transit Provider.

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, P.E., P.S.**, 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 22 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 Fogarty, P.E., P.S.**, will function as Project Manager. Mr. Fogarty has over 23 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:

Town of Lost Creek – Historic Train Depot Improvements (completed)

Lakewood Elementary School Boundary Survey (completed)

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Bonham Elementary School Flood Protection Study (completed)  
Charleston Housing Authority – Numerous Projects (completed)

With his unequalled expertise in structural design, we feel Mr. Fogarty would be a tremendous asset to the WV Division of Public Transit for this project.

**Ron Bolen, AIA**, with over 36 years of diverse experience, will serve as the Project Architect for this project. Mr. Bolen's project design experience includes master planning, educational, parks, recreation, institutional, commercial, housing, health care, long-term care, and religious facilities. He is experienced with the submittal process for various State Agencies, including WV SBA, State Board of Education and State Fire Marshal's office.

Raleigh County Schools Bus Maintenance New Facility, Raleigh County (completed)

Ghent Vehicle Maintenance New Facility, Raleigh County (completed)

Standard Vehicle Maintenance New Facility, Fayette County (completed)

WV Army National Guard – Charleston Armory Improvements (in construction)

Harrison Co. Commission Offices and Storage Facility – Clarksburg WV (in design)

West Virginia State Capitol Campus Master Plan (in design)

West Virginia State Capitol Restroom Renovation & Restoration (in design)

**Todd Schoolcraft, PLA, ASLA**, will provide landscape architectural services. Mr. Schoolcraft has over 18 years of experience in site planning and landscape architecture, specializing in site-civil design for numerous schools, office complexes, and maintenance facilities. Some of his notable projects that are directly related to the current proposed project are as follows:

Preston County Buckwheat Express Bus Storage Facility (constructed)

Peterson Central Elementary School, Weston (constructed)

Summersville Nazarene Camp Retreat Facility (constructed)

Stonewall Jackson Lake State Park Maintenance Facility, Weston (constructed)

Chief Logan State Park Conference Center, Logan County (constructed)

Tamarack Arts Center, Beckley (constructed)

**David Hilliard** has over 20 years of mechanical/electrical engineering experience and will provide HVAC and MEP services for this project. Mr. Hilliard brings extensive MEP design experience from numerous educational facilities, housing projects, medical facilities, and commercial and industrial office space projects.

**Laura Cox, PLA, ASLA**, has over 26 years of experience in fields of architecture, landscape architecture, and land planning. She has extensive knowledge of all phases of design from site analysis and conceptual planning through construction, documentation, permitting and administration.

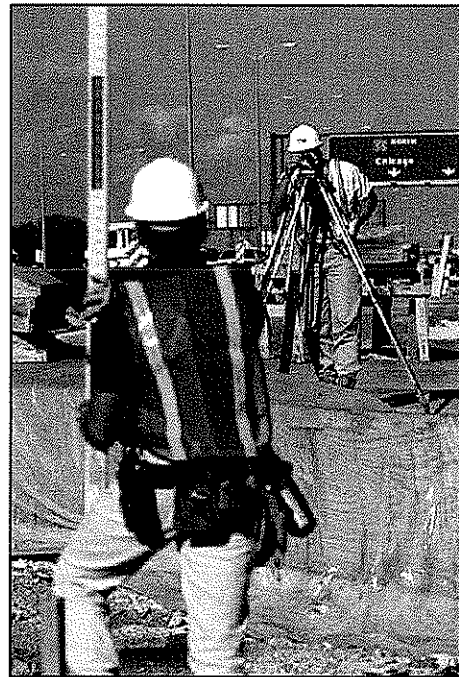
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**Jason Smithson, P.S.**, is a graduate geologist, professional surveyor, and engineering technician with over seven years of diverse experience in civil, environmental, and geotechnical engineering assignments. Mr. Smithson will be responsible for the data collection associated with surveying, easements, and right of way coordination for the project.

**John Dawson, P.E., P.S.**, will serve as Construction Services Manager. Mr. Dawson has over 35 years of construction management experience including WVDOH projects on the WV Turnpike, Interstates 79, 77, 68, and 64, and Corridors D and G, as well as numerous other highway and bridge construction contracts on primary and secondary roads throughout the state. Mr. Dawson manages all of Baker's Construction Management and Inspection contracts in West Virginia from our office located in Hedgesville.



*Baker Construction Monitoring*



*Baker Surveying*

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## Part 6 – Project Outline

We have carefully reviewed your Request for Statements of Qualifications to improve our familiarity and to identify any key issues. Based upon this information, Baker has developed the following project outline:

### *Existing Conditions / Issues*

- The West Virginia Division of Public Transit, located at 1900 Kanawha Blvd., East, Building 5 at the Capitol Complex administers the Little Kanawha Bus Section 5311 Rural Transit Provider for Calhoun, Jackson and Roane Counties.
- Proposed site is near Grantsville, West Virginia.

### *Project Understanding*

- LEED Certified Pre-Engineered Metal and Brick Construction
- The New Facility will house Office and Maintenance Spaces
  - Offices
  - Restrooms
  - Money Counting Room
  - Parts Supply Room
  - Enclosed Passenger Waiting Area (If funds permit)
  - Vehicle Parking
- The Division has a footprint of plans of 9,700 square feet that will be followed.

### *Project Description*

- Architectural / Engineering Services for Building, Landscaping and Site Design.
- Preparation of:
  - Construction Specifications.
  - Contract Plans.
  - Related Documents.
- Assistance in Preparation of Bidding Documents.
- Cost Estimates.
- Construction Oversight.
- Coordination with Local Officials, Utilities.
- Site Assessments.
- Construction Administration and Supervision of Construction.

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## ***Technical Approach***

Based upon our knowledge to this point, we consider this a structural engineering assignment with architectural and landscape architecture components. Structural engineering elements may include initial structural shell building design, load allocation development, and final masonry and foundation improvements. Architectural elements may include provisions for office space and restrooms within, development of interior finishes and amenities. Landscape architecture elements may include design geometrics, ADA compliance, road access, parking, utilities and earthwork.

## ***Conceptual Planning Phase***

During this phase Baker will collect all available data including historic information, utility maps, soils surveys, etc. We will use our existing E-911 mapping with 10' contour intervals and edit with conventional field surveys. Once all graphic data has been acquired, we will prepare a mosaic of the information and review for concepts and conflicts. We will then develop conceptual layouts for the structural elements, foundation design, and any other desired project elements.

## ***Design Development Phase***

Once conceptual plans have been approved by WV Division of Public Transit, Baker will prepare the Preliminary Engineering Report and Cost Opinion for submission to the funding agencies. A 50% Design Submittal will also be prepared for review and approval.

## ***Construction Documents Phase***

Upon receipt of comments for the Design Development submittal, Baker will prepare construction plans, technical specifications, bid documents, final construction estimates, and all necessary permit applications. Likewise, we will assist Little Kanawha Bus Section 5311 Rural Transit Provider in the preparation of additional funding applications if necessary.

## ***Bidding Phase***

During this phase, Baker will prepare the Bid Advertisement, conduct the Pre-Bid Conference, prepare any necessary Addenda, perform the Bid Opening, create and distribute the Bid Tabulation, provide a recommendation of award of contract, and complete the Notice of Award for execution by Little Kanawha Bus Section 5311 Rural Transit Provider.

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### *Construction Phase*

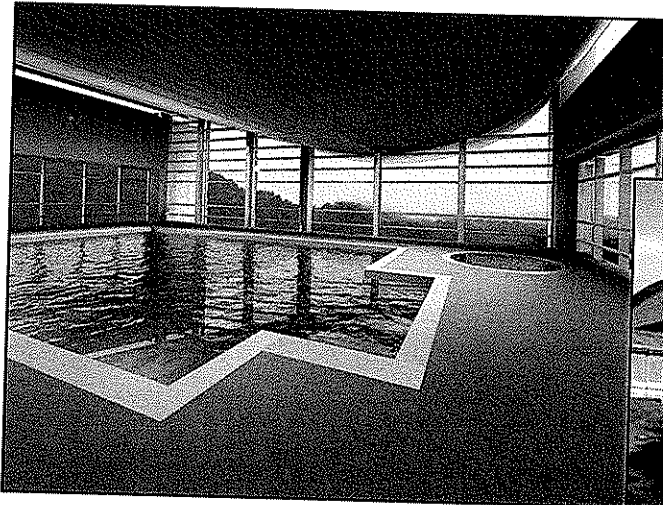
Initially, Baker will request insurance and scheduling information from the successful bidder and complete the Contract Documents and Notice to Proceed. Construction administration services will consist of shop drawing review, processing requests for information, monitoring construction progress, conducting construction meetings, processing payment applications, Davis-Bacon compliance review, and providing periodic construction inspection.

## Part 7 – Related Prior Experience

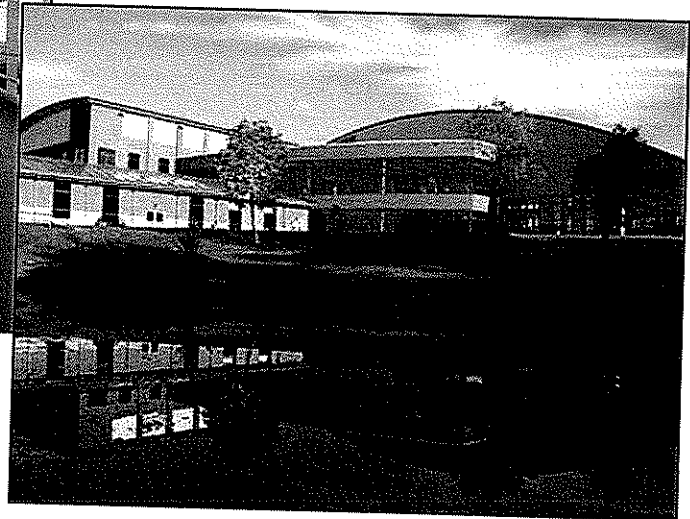
The following Project Descriptions illustrate Baker's related prior experience. We have included examples of building facilities used for administrative office space, maintenance, training, parking and support functions for both military and civilian clients at various locations across the nation. Many 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 all activities from our West Virginia operation, these diverse project locations are meant to emphasize our **One Baker** philosophy. Which simply means that the WV Division of Public Transit 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 many potential funding agencies including:

- Federal Highway Administration (FHWA);
- WV Department of Transportation / Division of Highways;
- WV Development Office;
- USDA Rural Utility Service;
- US Department of Commerce E.D.A.;
- US Environmental Protection Agency; and
- WV Department of Environmental Protection.



*Recreation and Fitness Center, Institute for Scientific Research, Fairmont, West Virginia*



*WVU Student Recreation Center, Morgantown*

# Bus Maintenance Facility

Baltimore/Washington International Airport (BWI), Baltimore, MD

To support the new consolidated rental car facility at Baltimore/Washington International (BWI) Airport a new fleet of buses, and a new facility to maintain them was required. The initial fleet size required was 25 buses, growing to an ultimate size of 40. Baker designed a 22,450 square foot building on a 12-acre site in close proximity to the rental car facility. The building provides for administrative space, four maintenance bays, shop space, break rooms, lockers, shower and toilet facilities, parts and equipment storage, maintenance equipment, building support areas, and vehicle wash and detail facilities. Features of the site include a controlled access entry, employee parking, and bus staging and cue areas employing a counter-clockwise site circulation pattern. Environmental requirements were met with the use of a storm filter system for water quality, and a storm sewer system with a detention pond for water quantity. Accommodations were made for a Compressed Natural Gas (CNG) facility on-site, which is planned for future construction.

The Bus Maintenance Facility was a successful project due in large part to an organized planning and design process, involving close client and end user coordination. The facility's design plan responded to the programming, planning and conceptual efforts developed in conjunction with various user groups with respect to organization, planning and user amenities layout. Baker has been involved with this project from inception through construction, performing the following project tasks:

**Site Planning.** After the kick-off meeting, the initial task for the feasibility study, planning and conceptual design was to review any site constraints and limitations. Consideration included a review of the additional bus traffic regarding its impact on existing intersections. The design team studied environmental concerns specific to the selected site including previous reforestation areas, wetlands, endangered plants and species and archaeological sites including existing cemeteries. Important functional site relationships were reviewed relative to the adjacent properties, the airport runway, the Consolidated Rental Car Facility and Customer Service Building, and the new BWI Tenant Parking Facility.

The design team investigated any applicable zoning and code impacts, utility location and access, fuel storage, bus washing facilities, storage, parking and

## Client

Maryland Aviation Administration  
PO Box 8766  
Third Floor, Terminal Building  
BWI Airport, MD 21240-0766

*Benjamin Chin, P.E.*  
Manager, Design  
410-859-7093

## Completion Date

2004

## Baker's Role

- Site Planning
- Programming
- Program Comparison
- Fueling Options
- Design Charrette
- Preliminary Design Report
- Design Phase Services
- Bidding Assistance
- Construction Phase Services
- Operator Selection





loading dock requirements for spare parts and tires.

Baker initiated coordination with Anne Arundel County Planning Department. Issues arose from the proposed facility's proximity to the existing Church and western site development (by Rock Realty). This included County road requirements, adjacent Smith Farm Road easements, water system requirements, sanitary sewer system requirements, and others. Baker reviewed potential wastewater pretreatment requirements that the County may require for discharge into the sanitary sewers.



**Programming.** Baker pursued a proactive regimen and initiated formal questions (via email) to develop programmatic requirements. This effort included future staff projection and growth for the bus maintenance facility. This effort was supplemented by a 2-hour teleconference meeting with Maryland Aviation Administration (MAA) to discuss three initially developed schemes. The program requirements included:

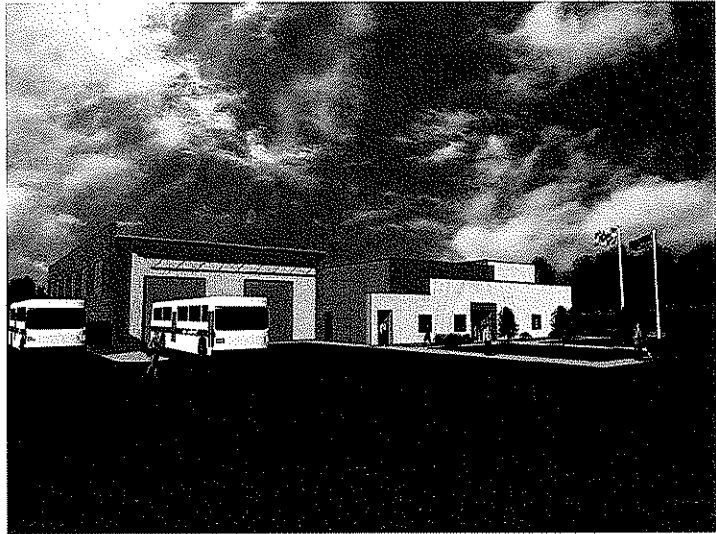
- Data collection from individual user groups including MAA, MAA's Program Manager, and the Rental Car Agencies (RACs)
- Current and future staff projections;
- Growth for the Bus Maintenance Facility;
- Typical work standards (spatial relationships for maintenance and administrative staff) development.
- Preliminary program diagrams development.
- Teleconference interviews with MAA user groups to review preliminary program and determine adjacency requirements.
- Blocking and stacking.

From the teleconference conversation, the diagrammatic development process was undertaken. This included:

- Revised blocking and stacking diagrams.
- Final program document development.
- Initial space and interior room layout.
- Narrowed the conceptual design to two schemes

**Program Comparison.** Baker provided a program comparison between the proposed concepts for BWI and similar built facilities. Four closely sized maintenance facilities were selected and reviewed to verify the proposed building square footage, namely:

- Consolidated Rental Car Bus Maintenance Facility at George Bush Intercontinental Airport, Houston, Texas
- El Metro Facility in Laredo, Texas
- Beaver County Transit Authority's (BCTA) Expressway Travel Center and Maintenance Facility in Center, Pennsylvania
- Cuyahoga County Board of Mental Retardation (CCBMR) East Transportation Facility in Cleveland, Ohio.



**Fueling Options.** Baker studied the pros and cons of building a diesel versus a CNG-fueled maintenance facility. The study demonstrated that additional safety measures were required for a CNG facility (i.e. explosion-proof fixtures, radiant floor heating, etc.), and a gas line had to be installed to service the site. Despite the higher costs, MAA chose to go with a CNG facility, and use the cleaner running CNG buses. Baker contacted four third party vendors for designing, building, operating, and maintaining the proposed CNG fueling facility for a minimum duration of 8 to 10 years. MAA ultimately decided to use the existing CNG fueling facility at BWI Airport for the immediate future.

**Design Charette.** Baker hosted a day-long design charrette with key personnel from MAA and their Program Manager. Two conceptual plans were prepared for discussion at the charrette. The conceptual plans included existing and proposed contours; property lines, preliminary storm water management requirements and plans, utility service plan, parking, preliminary horizontal mapping, and the building floor plan layout. This offered the opportunity to discuss in great detail the programming needs and requirements for the Bus Maintenance Facility.

**Preliminary Design Report.** The final conceptual design was documented in a final feasibility and planning/programming report. All preliminary design documentation was included and summarized to including a discussion of all areas of investigation; description of alternatives; recommendations; preliminary construction phasing; and preliminary costs including design, construction, and construction management/inspection costs.

A project schedule was also prepared as part of the Preliminary Design Report. The schedule included milestones for the design and construction phases of the project. Milestones for the design phase included a Conceptual, 40%, 60%, 90% and Final Bid Document submittals of the plans and specifications; submittal of Engineer's Report and Safety/Phasing Plans; and submittal of documents to the Maryland Department of the Environment for Erosion and Sediment Control and Stormwater Management approval. Milestones for the construction phase were based on the Preliminary Construction Phasing Plan.

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A “pre-final” conceptual design was presented at the “Draft” Preliminary Design Report Meeting. The purpose of this meeting was to present the “draft” report to the attendees. Specific emphasis of this meeting was to inform the Rental Car Agency Representatives of the concepts developed and discussions held to date on the Bus Maintenance Facility Project. The comments from this meeting were included in the final report, which formalized the design criteria for the Final Design Phase of the project.

**Design Phase Services.** Baker prepared a series of submissions consisting of technical specifications from the 40%, 60%, 90%, and Final levels of design. Comments were received on each submission, and incorporated into the subsequent submission. Baker formulated an Internal Technical Review Team to conduct peer reviews of all project elements, including that of subconsultants.

**Bidding Assistance.** Plans and Specifications were reproduced and distributed as required to obtain competitive levels for the construction of each package. Contract bid documents were distributed to MAA Divisions; all prospective bidders; plan rooms and minority business clearing houses; and agencies as requested.

A Prebid Conference was conducted at MAA’s offices to familiarize bidders with the scope of the project, the project site, and the conditions and stipulations upon which the bid was to be offered. Baker prepared the agenda for this meeting and led the appropriate parts. A tour of the project site was given following the meeting.

A meeting record was prepared, as with a list of bidder’s questions and clarifications to those questions. These were issued as part of Addendum No.1 to further clarify bid requirements and technical issues.

When bids were received, Baker tabulated, checked for accuracy, compared to the Engineer’s Estimate, and analyzed for responsiveness. Baker prepared a Recommendation of Award for the construction contract, with all supporting analyses and justification needed for presentation by MAA to the Board of Public Works.

**Construction Phase Services.** Baker attended the Pre-Construction Conference to answer questions and discuss issues regarding the plans and specifications. Other construction phase tasks included reviewing shop drawings and submittals, providing responses to Requests for Information (RFI), performing periodic site inspections, consulting as required, and preparing As-Built drawings.

**Operator Selection.** Baker provided assistance to MAA and the RAC’s for the proposal for the selection of the operator of the Bus Maintenance Facility, including preparing exhibits, and assisting with the compilation of operating and maintenance items from the equipment specifications.

# West Ox Bus Maintenance Facility Design

Fairfax, Virginia

The West Ox Bus Operations Facility can accommodate operations and maintenance for a combined fleet of up to 300 Washington Metropolitan Area Transit Authority (WMATA) and Fairfax Connector buses. The project was phased such that the first phase provided fully functional facilities for 150 buses while serving the unique needs of each operator. It provides shared spaces which were operationally feasible to reduce redundant program area. After in-depth user and owner interviews and meetings a program was developed, which incorporated the needs of both users. The preliminary functional site and building designs were developed during a weeklong Design Charrette, which included intensive meetings involving users, County agencies and the design team. This process included presentations, analysis and redesign as necessary to satisfy the needs of all stakeholders. The conceptual floor plans for all three buildings were developed, modified and further discussed until consensus was reached on the final layouts. The site and building were developed and program adjusted to accommodate opportunities realized during the interactive design process. The schematic design provided for both, Phase I, 150 bus and Phase II, 300 bus facilities.

Ultimately it was decided that three separate buildings allowed the most efficient use of the site and provided the highest level of safety. The maintenance facilities occupy the main facility along the southern edge of the site, which also acts as a buffer to a nearby residential neighborhood across the Parkway. It will

provide space for 13 maintenance bays in Phase I and an additional 13 in phase two. A paint and body shop were moved into the Phase I development. The administration and operations components are separated from the maintenance facilities and located in a separate building adjacent to the employee parking area, which will help to reduce the need for bus drivers to cross bus circulation as often as a single building layout would. The fuel and wash facilities are located near the north face of the maintenance building. This location provides some space saving opportunities due to proximity and eliminated most non-service related bus circulation from the maintenance bay entrance area. The current program requires approximately 96,000 SF of building area in Phase I and another 38,000 SF in Phase II.

## Client

County of Fairfax  
DIT Administration  
12000 Government Center Parkway  
Fifth Floor, Suite 527  
Fairfax, VA 22035

*Hossein Malayeri, P.E.*  
703-324-2992

## Completion Date

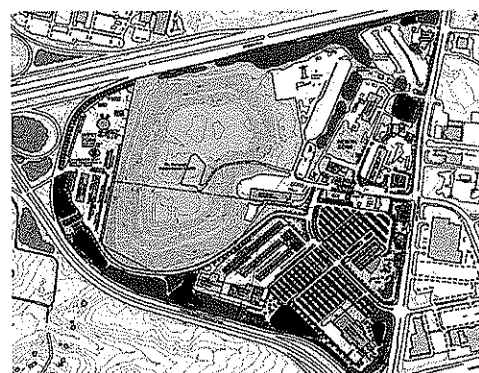
2007

## Project Costs

\$31,000,000 (Construction)  
\$1,351,707 (Fee)

## Baker's Role

- Planning
- Architecture
- Mechanical Engineering
- Electrical Engineering
- Structural Engineering
- Transportation Engineering



# 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 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

## 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

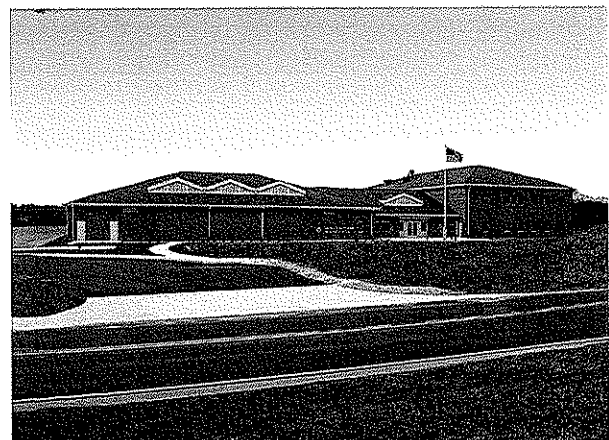
2006

## 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



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.



# 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 2350.1: Hertz MIS Room.** Task included review of a building permit for modifications to the Hertz MIS room.

**Task 2351: New Community Hangar at Martin State Airport.** Baker provided design and construction administration services for the development of a 20,000 SF corporate hangar to be used by Black and Decker. The hangar included space for corporate aircraft and office space for the tenant. Work also included the apron, apron taxiway, connecting taxiway to Taxiway F, and the parking lot required for the facility.

**Task 2352: Airfield Pavement Rehabilitation.** Project developed construction documents for the rehabilitation of various areas on the BWI Airfield including Taxiways B, P, A, D, and Runway 4-22 as well as taxiway centerline lighting for Taxiways B, P, A, U, and C. Task required extensive coordination for airfield phasing with the FAA ADO, FAA ATCT, and MAA Operations.

**Task 2353: Fire Training Facility Improvements.** Task included a planning study and development of construction documents for upgrading the existing fire training facility at BWI Airport. Improvements included resizing of the pit, providing water to the site, providing electrical power and site lighting, providing new fueling storage and control system, and addressing environmental concerns.

**Task 2354: Pavement Management Design Assistance.** Baker provided design and construction administration services for landside and airside pavement repairs at BWI Airport.

**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.

## Client

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

*Benjamin Chin, P.E.*  
Director of Facilities Design  
410-859-7093

## Completion Date

Estimated: 2009

## Project Costs

\$4,441,064 (Fee)

## 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
- Architectural Design
- Structural Design
- MEP Design
- Permitting
- Security Evaluation/Design
- Construction Management

**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 2356: Fire Station Vehicle Exhaust.** Task includes adding a vehicle exhaust system to the existing ARFF station. It includes preparation of a performance specification for design/build as well as a three year maintenance contract.

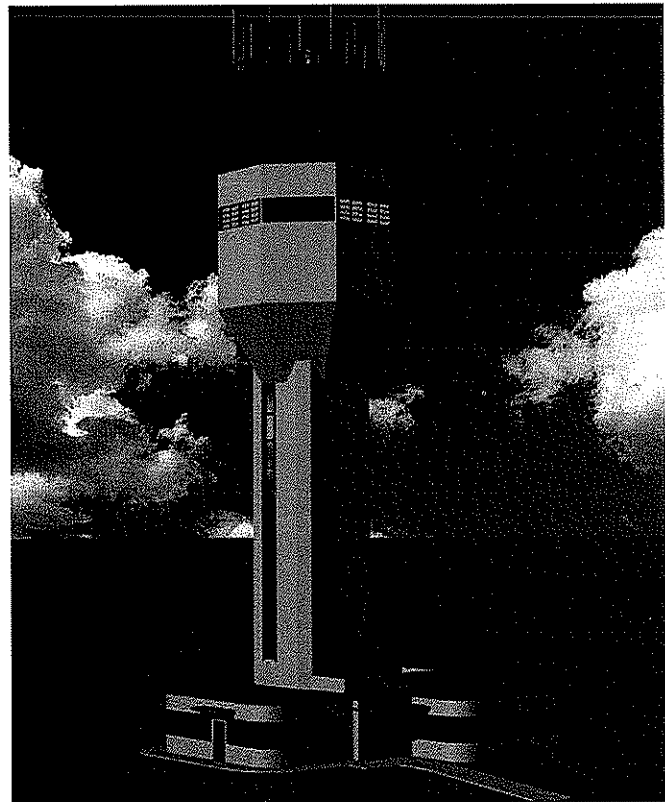
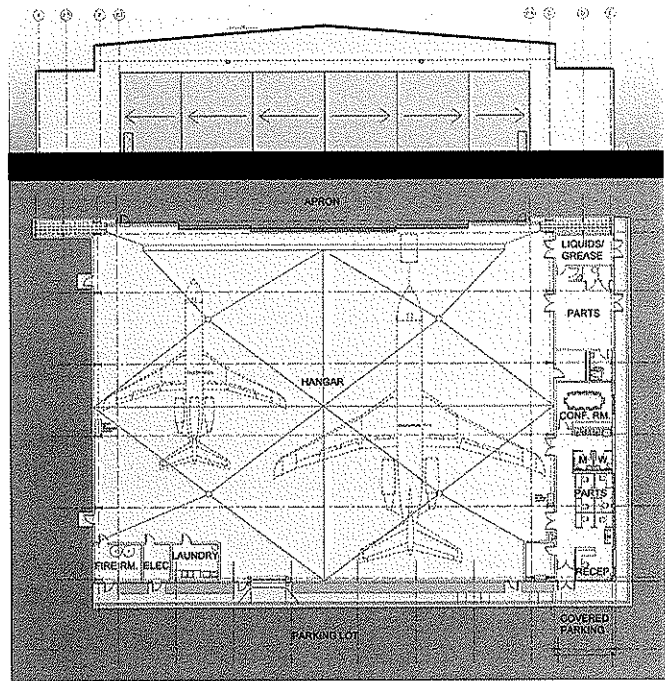
**Task 2358: Airfield Underground Fire Hydrants.** Task included development of construction documents to install five (5) underground fire hydrants adjacent to runway ends at BWI Airport. Locations of hydrants were determined through coordination with the Fire Marshall's office.

**Task 2359: Gateway Treatment.** Task included development of concepts and final design for implementation of a "Gateway" at BWI Airport.

**Task 2359.1: Short-term Thurgood Marshall Signs.** Task to include development of concepts and final design for short-term signage to address the name change from BWI Airport to Baltimore/Washington International Thurgood Marshall Airport.

**Task 2360: MTN ATCT.** Task will provide design and construction phase services for the development of a new Air Traffic Control Tower at Martin State Airport. Conceptual renderings were developed so that a concept could be selected. Design to include all aspects of the ATCT, including architectural, MEP, FAA coordination, sitework and utilities to the tower, etc. Design has been halted at the 30% design level due to construction funding concerns.

**Task 2360.1: Taxiway F Extension.** Task provides design and construction administration services for the Taxiway F Extension at Martin State Airport. The Taxiway F Extension must be designed and constructed prior to the commissioning of the new MTN ATCT.





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**Task 2360.2: Taxiway F Extension.** Provided a study evaluating options for Stormwater Management in association with the Taxiway F Extension project.

**Task 2361.1: Revenue Parking Control Study.** Task provided a study to analyze the existing BWI Revenue Parking Control System and provide recommendations on replacement or upgrades the system. Task will provide construction cost estimates and phasing. Baker is performing the design documents as part of the 2006 contract.

**Task 2362: Perimeter Security Fence & Gates Improvement, Phase I.** 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 2363: Rental Car Customer Service Facility Improvements.** Task provides design and construction phase services for various improvements to the Consolidated Rental Car Facility. Design issues include storm water drainage, signage/branding, and traffic flow at the Car Rental Customer Service Building and the Parking Garage.

**Task 2364: Artificial Turf Installation.** Provided Phase II & Phase III services for the installation of airfield turf in a test location in the vicinity of 10-28/15R-33L intersection.

**Task 2365: Runway 15R Emergency Repairs and Pavement Evaluations.** This was a two-phase project. Phase 1 was designed in three weeks. The work included a three-inch mill and overlay starting 23 feet either side of the runway centerline. Phase 1 was 2,850-feet long. The Phase 2 design was completed in June 2007. Phase 2 rehabilitates the remainder of Runway 15R-33L in a similar fashion as Phase 1. Phase 2 design required significant coordination with the Tower and Airport Operations due to phasing and airfield access.

**Task 2366: Design Standards.** Consolidated MAA Design Standards into one cohesive document. Baker acts as an extension of staff on this project for all current and forthcoming design standards at BWI.

# Research and Development Facility

*Institute for Scientific Research, Fairmont, West Virginia*

Using a design/build delivery method, a new Research and Development Facility of approximately 260,000 GSF for The Institute for Scientific Research (ISR) was constructed in Fairmont, West Virginia. The facility is the anchor project for West Virginia's High Tech Corridor on I-79, with a goal of attracting the best and brightest scientists and software engineers from around the world.

The east end of the building structure rests on bedrock, while the west end, including the slab-on-grade, was supported on caissons that extend through abandoned mines. Baker performed a subsurface investigation for the building site and of the underlying abandoned coal mine. Recommendations for a unique rock cut access road, building and retaining wall foundations, site grading, and a coal mine stabilization program were prepared. Construction consultation on the site grading and pre-split blasting program for the rock cuts was provided.

The electrical subsystem distribution and fixtures used are "plug and play" devices, providing deferred fit-out costs in unoccupied spaces while permitting maintenance staff to easily reconfigure work spaces.

The facility was outfitted with advanced technology features and amenities that included:

- World-class distance learning centers (210-person auditorium and classrooms outfitted with user-friendly audio-video systems, large screen displays, and voice/data outlets at each seat);
- World-class voice/data systems, including copper "home runs" to each workstation and fiber optics to each zone;
- Large two-story exhibit hall for the display of R&D projects;
- "Heavy" research floor, with high bay area, prototype workshop and 10-ton crane, in which flight simulator, clean room, and similar R&D project activities will be carried out;
- Fitness center and full-service kitchen/restaurant.

## Client

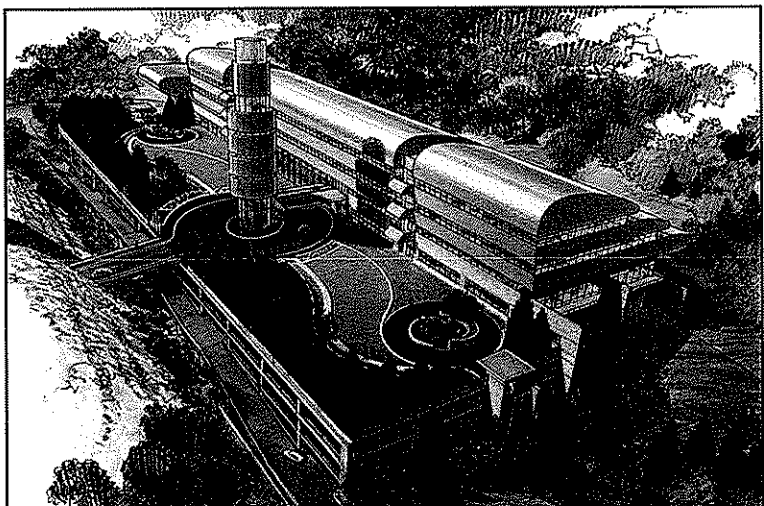
Institute for Scientific Research, Inc.  
1000 Technology Drive  
Fairmont, WV 26554

## Completion Date

2006

## Baker's Role

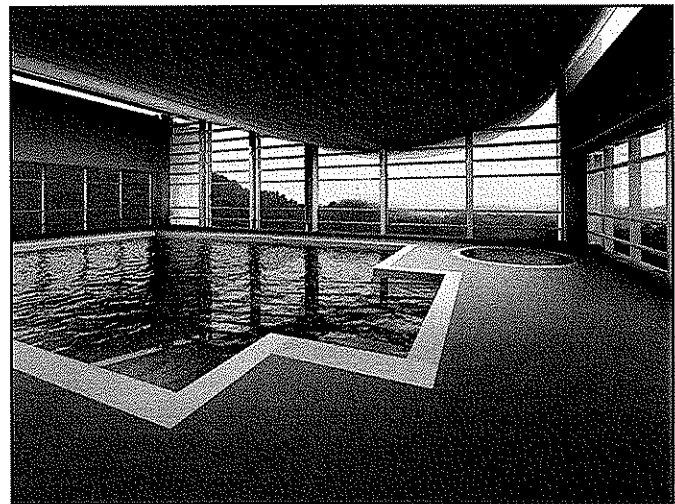
- Design/Build Delivery
- Geotechnical Engineering
- Architecture
- Structural Engineering
- Electrical Engineering
- Lighting Design
- Mechanical Engineering
- Plumbing Engineering
- Fire Protection Engineering
- Construction Administration



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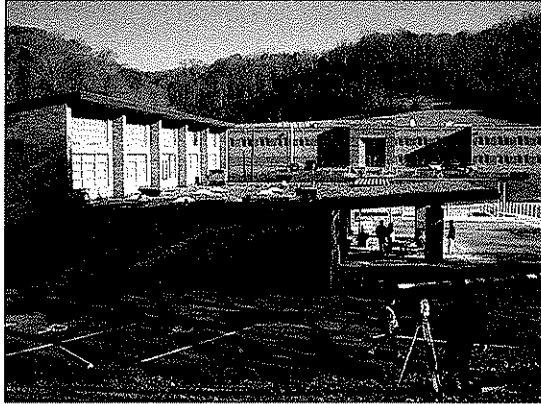
The building was designed to achieve LEED® certification for environmentally sensitive and energy-efficient design. In addition to the environmentally sensitive design features, a number of unique energy-efficient strategies were used to accomplish LEED® certification, including:

- A linear building floor plate with long elevations facing north and south to minimize peak A/C loads and admit abundant natural light. Sunscreens provide efficient shading of the south-facing glazed area of the two-story Exhibition Hall, and careful glazing selections throughout provide high insulation values and low solar heat gain coefficients;
- Indirect lighting system supplemented with task lighting to achieve superior light quality at minimal energy consumption;
- Integration of lighting control zones and HVAC zones to reduce "off-hour" energy use, providing the ability to set back comfort control and eliminate ventilation air to unoccupied zones (while providing full lighting, comfort control, and ventilation to zones actively occupied after normal office hours);
- Conference and assembly rooms were equipped with carbon monoxide sensors and override controls to assure indoor air quality while minimizing unnecessary energy usage. A heat recovery air handler with variable volume control was designed for 100% outside air delivery to the Educational Wing, and a custom pool air handler was used for temperature and humidity control of the indoor pool facility;
- 100% raised access floor on three floors of "soft" research areas and educational spaces, providing absolute flexibility in changing out furniture, voice/data cabling, and in-floor air-conditioning systems. Variable volume floor diffusers include manual override capability so individuals can adjust personal comfort within supply air control zones. The in-floor air conditioning system utilizes a true plenum pressurization design, eliminating significant under-floor ductwork (reducing construction costs and increasing flexibility) compared to other raised access floor systems;
- Intelligent kitchen exhaust hoods were selected to reduce makeup air requirements during partial or unoccupied periods;
- World-class voice/data systems, including both copper and fiber optic "home runs" to workstations and a voice-over-IP telephone system;
- A stand-by power generation system capable of maintaining power to all research areas in the event of a power disruption from the electrical grid, avoiding costly downtime - be it a few hours or days. The system will use a flywheel, rather than conventional UPS battery system, and the potential to use this large stand-by power generation system for peak electrical demand reduction was investigated.



# WVARNG Charleston Armory HVAC & Architectural Renovations

Charleston, West Virginia



The existing building/facility started as the Coonskin Armory constructed in 1961. The Headquarters Building was constructed simultaneously with the Coonskin Armory and occupied the

second floor. Also in 1961, as a separate structure, the Adjutant General's Wing (TAG Wing) was constructed nearby. Later, in 1984 the Coonskin Armory/Headquarters Building was physically connected to the TAG Wing with an area of administrative offices. This final major construction project connected all the buildings into one major facility of over 50,000 square feet, referred to as the Charleston Armory.

The West Virginia Army National Guard (WVARNG) Construction and Facilities Management Office (C&FMO) requested a study be conducted of the consolidated facility known as the Charleston Armory, to consider such items as the condition of existing HVAC/MEP systems, and proposed improvements or upgrades to those systems; examine the existing building envelope and recommend possible improvements to the envelope; and finally, investigate the requirements of LEED-certification as it relates to existing buildings.

## 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

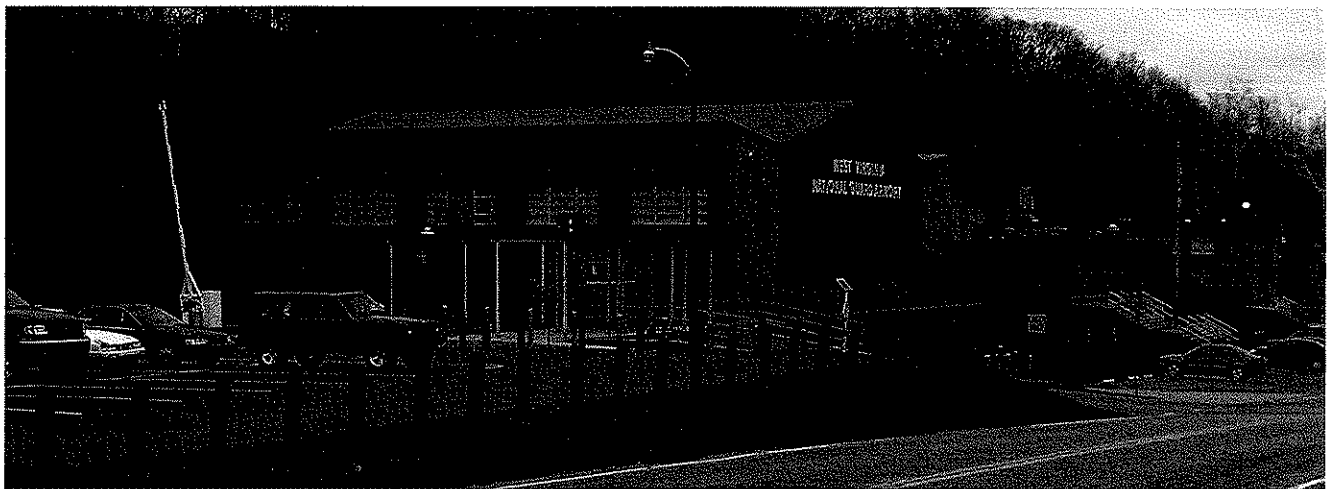
Estimated: Spring 2010

## Project Costs

\$2,990,000 (Estimated Construction)  
\$72,100 (Fee)

## Baker's Role

- Planning
- Architecture
- Mechanical Engineering
- Civil Engineering
- CADD Drafting
- Bidding
- Construction Administration



Baker offered six potential solutions for the facility's HVAC issues in the Planning Study Report. During the review of the six solutions, Baker to understand the Owner's needs and expectations and the level of disruption they would allow. These factors were considered in the final system selection. Preliminary discussions quickly reduced the six considered solutions to two systems: a four pipe hot water/chilled water system and a loop pipe water source heat pump system. Finally, with fewer pipes and a lower installation cost, the loop pipe water source heat pump system was selected as the best system for this situation.

The water source heat pump system is modular and duct work is much smaller than other systems. Heat can be moved around the building such that the equipment would not energize during certain outside air conditions. By treating the building as one, as opposed to three, there is a greater opportunity to share energy produced by the office equipment and occupants located within the building during off peak hours.



# Student Recreation Center

West Virginia University, Morgantown, WV

Through an open-end architectural and engineering services agreement, Baker provided program management services to West Virginia University to oversee the implementation of the construction program that supported their campus master plan.

Specifically, the University required a firm experienced in providing program management, construction management, cost estimating, scheduling, inspection services, programming, planning, design, construction documents, site evaluations, feasibility studies, and construction contract administration services.

Responsibilities included providing full-time on-site owner representation to monitor the work of the designers, contractors, and construction management teams for WVU's new 170,000-square-foot Student Recreation Center.

The facility provides a focal point for campus life and includes seven basketball courts, three racquetball courts, a squash court, 17,000 square foot weights/fitness area, three multi-purpose sports rooms, a three-story tall indoor rock climbing wall, large lap swimming pool, leisure pool, spa, elevated in-door jogging track, food court area, and administrative offices. The building was designed to serve the entire student population, along with University staff.



## Client

West Virginia University  
3040 University Avenue  
Morgantown, WV 26506

*Randy Hudack*  
Director of Physical Plant  
304-293-2330

## Completion Date

Estimated: 2003

Actual: 2001

## Project Costs

\$35,000,000 (Construction)

\$405,745 (Fee)

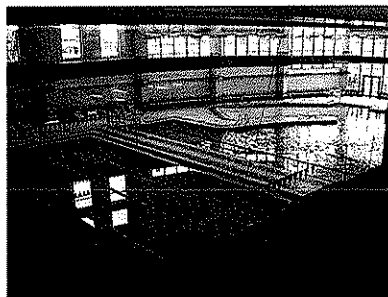
## Baker's Role

Program

Management/Construction

Management-related Services:

- Cost Estimating
- Schedule Management
- Inspection QA/QC
- Acted as extension of staff for the university
- Budget Monitoring
- Project Coordination
- Procurement Support
- Pay Application Approvals
- Move-in Coordination
- Closeout Support
- Change Order Review and Recommendations



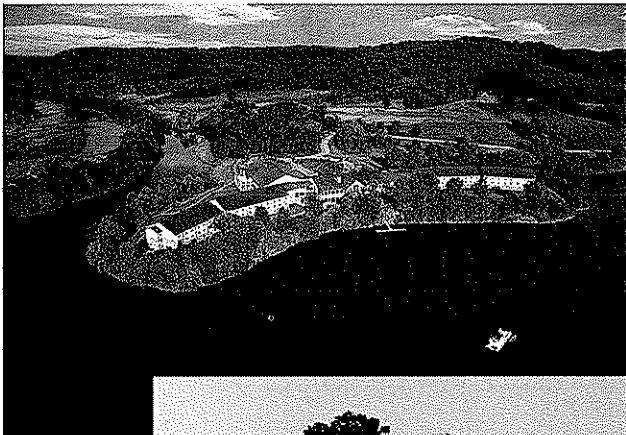
# Lodge Complex Development

*Stonewall Jackson Lake State Park Resort, Roanoke, West Virginia*

Baker provided scheduling and quality control under a construction management service agreement for the construction of a new Lodge Complex at Stonewall Jackson Lake State Park in Roanoke, West Virginia. The 158,000-square-foot Lodge and Conference Center consists of four three-story wings and 196 guest rooms. The facility is constructed on over 10 acres of scenic park property overlooking a 2,650-acre lake, nature trails, and adjoining premiere 18-hole golf course.

The Lodge and Conference Center is constructed of natural stone, cast-in-place concrete, structural precast concrete, concrete masonry, structural steel, metal decking, synthetic plaster, fiber-cement siding, standing seam roofing, insulated single-ply roofing, skylights, coiling shutter doors, wood doors, and aluminum store-front windows and curtain wall. Sitework included all new infrastructure, including electrical service from a newly constructed substation, and an HVAC system using electric heat pump and exchangers.

Baker also performed design reviews on the electrical and mechanical systems.



## Client

McCabe Henley Durbin  
KB&T Center, Suite 300  
107 Capitol Street  
Charleston, WV 25301

## Completion Date

2003

## Project Costs

\$18,000,000 (Construction)  
\$17,929 (Fee)

## Baker's Role

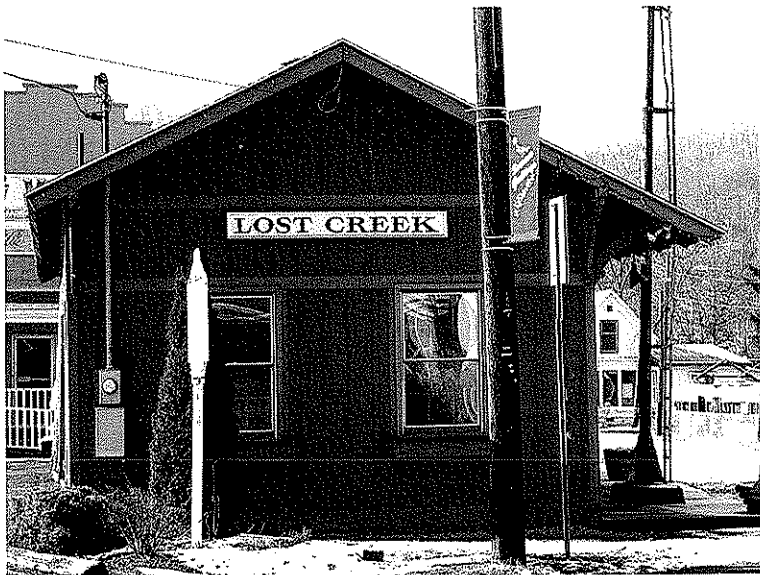
- Construction Management
- Scheduling
- Quality Control
- Electrical/Mechanical Systems Design Review



# Town of Lost Creek Historic Train Depot Rehabilitation, Phase I

*Lost Creek, West Virginia*

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 raised the finish floor elevation by 12" and provided a barrier against storm water intrusion.

## Client

Town of Lost Creek  
Post Office Box 216  
Lost Creek, WV 26385

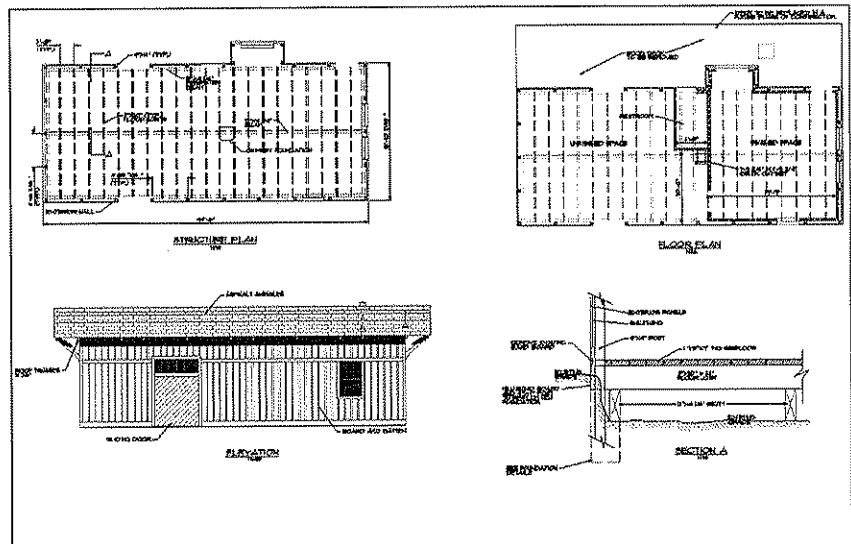
*Honorable Randall Lake, Mayor*  
(304) 745-3466

## Completion Date

2009

## Baker's Role

- Civil Engineering
- Structural Engineering
- Stormwater Management
- Preparation of final Construction Plans and Specifications
- Cost Estimating
- Bidding
- Construction Administration
- Construction Inspection



Unit costs and additive/deductive alternates were used in the bidding of the project, allowing the Town flexibility in meeting the limitations of the available Transportation Enhancement Grant funding. Baker provided construction administration and inspection services as well as periodic site review during construction.

Baker is currently assisting the Owner in acquisition of funding thru various state and federal grants. Baker has provided the Owner cost breakdowns, as well as a Phase II scope of work for use in the various grant applications. Phase II may include new glazing and door replacement, roof replacement, board and batten siding replacement, architectural trim and molding reconstruction, exterior deck and landscaping improvements and various other architectural and infrastructure improvements to take the facility back to its original period setting.



# West Virginia State Capitol Campus Master Plan

Charleston, WV

The West Virginia Capitol Campus was created following the vision of Cass Gilbert, one of America's most significant architect of the first half or the 20<sup>th</sup> century. The Campus Plan and the Capitol Building represent his most mature work, as they were conceived and executed towards the end of his career and life.

Following his death in 1934, his son, Cass Gilbert Jr., continued his father's vision. Later additions and changes to the campus have shaped the site in different directions since the initial plan. A series of campus wide plans and recent additions and changes of the campus have attempted to address current needs on a piecemeal basis. Today, the State of West Virginia is facing a series of pressing needs and a new reality in a post 9-11 world, and is seeking to:

- Address the needs of the government and its important campus in a comprehensive and holistic manner
- Capture the essence of Cass Gilbert's original vision and design
- Create a framework for addressing future needs, and
- Recommend specific project that can begin to implement the recommendations of the plan.

## Client

State of West Virginia  
Department of Administration  
General Services  
Building 1, Room MB60  
1900 Kanawha Blvd., East  
Charleston, WV 25305-1023

Mr. Robert Krause, AIA, PE  
304-558-9018

## Completion Date

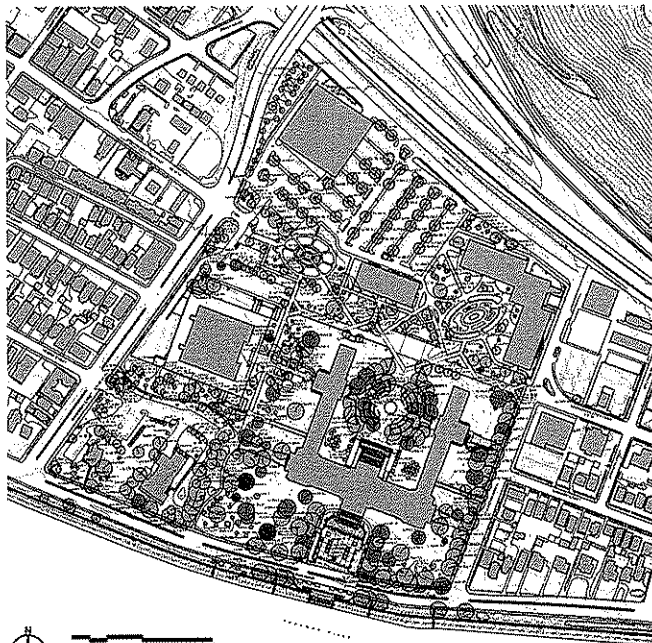
Estimated: 2009

## Project Costs

\$887,880 (Fee)

## Baker's Role

- Campus Master Planning Services
- Architectural/Engineering Services

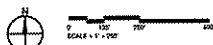


## PRELIMINARY TREE INVENTORY RESULTS

- Field Inventory of 484 Trees
- Recorded Type, Size, Canopy, Trunk, Roots
- 82% - Good to Fair Condition
- 18% - Poor to Failing Condition
- 28% - Oaks/Quercus Most Prominent at 133 Count
- 26% - Crabapple/Malus Second at 124 Count
- 116 Historic Trees over 32" diameter
- Selected trees pre-date Capitol construction

## TREE SPECIES CONDITION ASSESSMENT KEY

SIZE IN CALIPER	ROOTS	CANOPY		
TREE NAME GENUS/SPECIES	NUMBER OF TRUNKS	TRUNK CONDITION	A	GOOD: Full Crown, Vigorous Growth, no Immediate Care Required
			B	FAIR: Minor Problems, Maximum of 2" Deadwood, Minor Pruning
			C	POOR: Major Problems, Deadwood of 3-4" & Limited Major Pruning, Monitor for Hazard, Feasible Removal
			D	FAILING: Major Defects in Crown, Near Dead, Hazard to be Removed
	E	DEAD: Standing Dead, Stump in Depression		
	TRUNKS			
	1	No Visible Damage		
	2	Damage Including Wounds, Mushrooms, Cracks, or Major Decay Issues		
	ROOTS			
	U	Unsprouted: Open		
	R	Restricted: Enclosed within 8-10 Feet on One or More Sides		
	NUMBER OF TRUNKS			
	M	Multiple Trunks		
	T	Two Trunks		



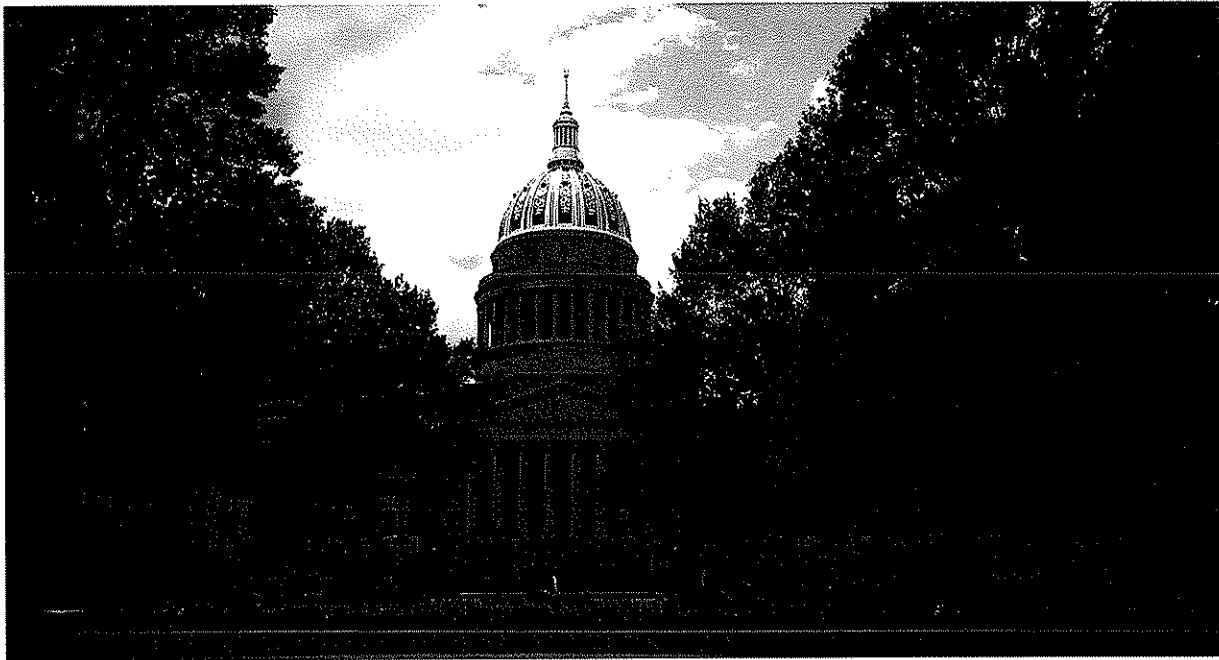
Baker • Pflum • Heritage Landscapes

TREE INVENTORY

West Virginia State Capitol Campus Master Plan  
February 2008

The Master Plan is to be prepared in a collaborative manner, engaging a wide range of government leaders, stakeholders, users and other entities. The engagement of all of those groups of interested parties will include several levels of communication. Items to be addressed in the Master Plan include:

- General Campus Planning
- Programming Planning
- Historic Research
- Pedestrian Flow & Accessibility
- Parking
- Security
- Utilities and Infrastructure
- Hazardous Materials
- Future Growth



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## Part 8 – Resumes

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**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 22 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.
- **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 25<sup>th</sup> Street Overpass Bridge. Neff is a subconsultant to Site-Blauvelt and is

<b>Years with Baker:</b> 4
<b>Years with Other Firms:</b> 18
<b>Education</b> B.S., 1985, Civil Engineering, West Virginia Institute of Technology
<b>Professional Registrations</b> Professional Engineer, West Virginia, 1990, 10947 Professional Surveyor, West Virginia, 1996, 1878

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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 23 years of project management experience. He is responsible for technical and management aspects of planning, 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**

**Bicycle and Pedestrian Plan, Kanawha and Putnam Counties, West Virginia.** *Regional Intergovernmental Council.* Project Manager. Responsible for the development of a 2-phase bike and pedestrian study for a 2-county area. The plan included data collection, facilities inventory, identification of activity centers, public involvement, community information analysis, identification of specific improvement locations and their corresponding physical deficiencies and improvement recommendations.

**Capitol Campus Master Plan, State of West Virginia General Services Division.** Project Manager. Responsible for the development of a campus-wide (55 acres) master plan for the West Virginia State Capitol Complex. Elements of the plan included: Vehicular and pedestrian access, security, utilities, parking, landscaping, and space planning.

**Corridor Management Plan, Country Roads Scenic Byway, Various Counties, West Virginia.** *Country Roads Byway, Inc.* Project Manager. Responsible for the development of a Corridor Management Plan for a designated State Scenic Byway over a multi-county area. The plan included an inventory of Intrinsic Qualities, an assessment and analysis of existing conditions, an opportunity analysis and proposed development alternatives. The focus of the plan was to provide for inclusion in the National Scenic Byway Program.

Years with Baker: 3

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



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**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. Baker provided project management, environmental coordination, geotechnical engineering, preliminary and final design as well as construction phase services.

**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.

**Blennerhassett Island Bridge, Appalachian Corridor D, Washington County, Ohio and Wood County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* QA/QC. Responsible for quality assurance review of final computations. Upon completion of construction of the Blennerhassett Island Bridge over the Ohio River by 2007, the 878' – 6" long network tied arch that ranks 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.

**Municipal Planning and Design, Engineer-of-Record, Various Locations, State of West Virginia**  
Performed numerous assignments as Lead Designer and Project Manager for various municipalities 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 include: City of Parsons; Town of Moorefield; Town of Hambleton; Town of Mason; Town of Lost Creek; and the Town of West Milford.

#### **PRIOR BAKER EXPERIENCE**

**Planning, Various Airports, State of West Virginia**  
Performed numerous assignments as Lead Planner and Project Manager for various airports over the past 23 years, including: Site Selection Studies, Master Planning, and ALP Preparation and Update, Wetlands Delineation and Mitigation, Aircraft Wash and De-Ice Facilities, VASI and PAPI Systems, NAVAIDS, Security and Access Control Systems, Security Lighting, and Security Fencing, Capital Improvement Plans, DBE Plans, Maintenance Plans, Spill Control, Containment and Countermeasures Plans, Environmental Site Assessments, FAA Forms A and C, Pre-Bid Meetings / Construction Management Plans / Construction Phasing Plans, Outlay Requests and Project Close-Out Packages. Services provided

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for notable airport clients include the following: Mercer County Airport Authority, Bluefield; Upshur County Regional Airport, Buckhannon; Wood County Airport Authority, Parkersburg; Raleigh County Airport Authority, Beckley; Grant County Airport Authority, Petersburg; Eastern West Virginia Regional Airport Authority, Martinsburg; Mason County Commission; Point Pleasant; Elkins-Randolph County Airport Authority, Elkins; Roane County Airport Authority, Spencer; Central West Virginia Regional Airport Authority, Charleston; Mingo County Airport Authority, Williamson; Philippi-Barbour County Airport Authority, Philippi; Nicholas County Airport Authority, Summersville; Marshall County Airport Authority, Moundsville.

**Putnam County Parks and Recreation Commission, Various Projects, Hurricane, West Virginia.**  
*Valley Park.* Project Manager and Lead Designer. Provided Planning, Surveying, Design and Inspection Services on the waterslide and splashdown pool and the Museum in the Community, including structural and civil engineering.

**Kanawha County Parks and Recreation Commission, Various Projects, Charleston, West Virginia.**  
*Coonskin Park.* Project Manager and Lead Designer. Provided Planning, Surveying, Design and Inspection Services for soccer fields, recreational trails, shelters and wedding garden.

**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, 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 include: 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  
International Right of Way Association  
Construction Specifications Institute  
American Planning Association  
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

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## Ron L. Bolen, AIA

Senior Architect

### General Qualifications

Mr. Bolen brings over 35 years of design and project coordination experience to the project. Mr. Bolen insists on listening to the client's needs and bringing those desires to reality in a distinctive, functional and state of the art facility – on time and within budget. Project types include a multitude of small and large-scale designs, including office, hotel, and multi-purpose facilities, augmented by varied experience in a wide range of opportunities in renovation and new facility design. Truly innovative designs are based on a well-articulated program developed in a close and continuing interaction between the client and the design team.

While at Baker, Mr. Bolen has focused most of his time on design and coordination with clients while maintaining a close relationship with the design team. Increasingly, Mr. Bolen's facilities have become the result of collaborative problem solving with other design professionals and our clients. The results are design solutions that balance interests, intentions and objectives with concepts that reflect quality, integrity and aesthetic appeal.

### Experience

- **A/E Services for the Harrison County Extension Service and the Parks and Recreation – Clarksburg, West Virginia.** *Harrison County Commission, Clarksburg, West Virginia.* Project Manager. Responsible for Design, Document Preparation, and Construction Administration for the renovation of an existing facility for use as Administrative Offices and as Storage Facility. The Harrison County Commission selected Baker to provide complete design and construction administration services for architectural improvements. The existing facility located near Clarksburg, West Virginia was originally constructed in the early 1960's and was used recently as a business for a local exterminating firm. Over the years, there have been additions and upgrades to the facility. Baker was selected by the Harrison Co. Commission to upgrade of front area of the facility for the Harrison County Extension Service's offices and back area of the facility for use as storage by the Harrison County Parks and Recreation. With funding through a ARRA Stimulus Grant, the Owner desires the modernization of approximately 6,000 square feet of existing with appropriate "Green Building" materials. Upgrades of the exterior doors and windows, interior partitions and finishes replacing the outdated heating, ventilation, and air conditioning equipment, and replacing the existing electrical service with energy efficient product. Total project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, exterior window and door replacements, new interior doors and hardware, new wall finishes, updated water saving toilet facilities and a new energy efficient HVAC system. Baker is currently working closely with the client during the planning phase to define a project scope to upgrade the existing facility into an energy efficient facility and within their budget.

Years with Baker: 1  
Years with Other Firms: 35+

#### Education

- B.S. Architectural Design, Parkersburg Community College / WVU Ext., 1980

#### Registrations

- Registered Architect, No. 3135, West Virginia, 1999

#### Professional Affiliations

American Institute of Architects (AIA)  
West Virginia Board of Architects (WVBOA)  
Comprehensive Education Facilities Planners, International (CEFPI)

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**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 Architect. 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 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 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.* Architectural Project Manager. Mr. Bolen is currently providing the State of West Virginia General Services Division a comprehensive campus-wide master plan for the 55+ acre state capitol campus. Working in conjunction with the owner and a team of specialized sub-consultants, Ron is currently providing elements including:

- Master Planning
- Public Involvement
- Programming
- Architectural / Review
- Document Management
- GIS
- Project Scheduling
- Cost Estimating
- Facilities Planning
- Sub-consultant Management
- Client Coordination

#### **Non-Baker Project Experience**

##### **Main Harts Creek Vol. Fire Station** *Main Harts Creek Vol. Fire Department.*

As Project Manager, Mr. Bolen provided services from pre-design through all phases of document preparation, consultant coordination, and client relations. The design was for renovation to an existing emergency medical service facility by modifying it to meet the surrounding area's needs. The facility houses six emergency vehicles, dayroom area, kitchenette, two bunkrooms, toilets and showers.

##### **Raleigh Co. Board of Education Bus Maintenance Facility** *Raleigh County Board of Education.*

Mr. Bolen performed duties as Project Manager Services through From Schematic Design through Contract Document. Design for a new facility to replace an existing building for the Bus Maintenance program with new facility within the required state guidelines.

**Ghent Maintenance Facility** *WV Parkways Authority.* As Project Manager, Ron provided services through pre-design and all phases of document preparation, consultant coordination, client relations, and construction

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administration. This new facility design replaced an existing building for the Snow Removal Vehicle Maintenance Program. The WV Parkways Authority funded this project.

**Standard Maintenance Facility** *WV Parkways Authority.* As Project Manager, Ron provided services through pre-design and all phases of document preparation, consultant coordination, client relations, and construction administration. The new facility design replaced the existing building for the Snow Removal Vehicle Maintenance Program. The WV Parkways Authority funded this project.

**Ronceverte Vol. Fire Station & Community Center** *Ronceverte Vol. Fire Department.*

As Principal / Project Manager, Mr. Bolen provided services from pre-design through all phases of document preparation, consultant coordination, client relations, and construction administration. The design replaced an existing fire station. The facility was designed with five truck bays, office spaces, and conference hall, large meeting hall, toilets, and kitchen facilities and equipped with facilities for community flood relief.

**Glennville State College,** *Glennville, West Virginia*

Mr. Bolen provided Project Manager Services for the development of two projects at Glennville State College as follows:

- ◆ Science Hall – Mr. Bolen provided Project Manager Services through Pre-design and all phases of Document Preparation, Consultant Coordination, Client Relations, and Construction Administration. Design for an addition of four-story office complex with elevator, making an existing building ADA accessible.
- ◆ Louis Bennett Hall – Mr. Bolen provided Project Manager Services through Pre-design and all phases of Document Preparation, Consultant Coordination, Client Relations, and Construction Administration. Design for a addition of three story office complex with elevator and walking bridge between two buildings, ( Louis Bennett Hall and Administration Building) making each existing building ADA accessible.

**West Virginia University,** *Morgantown, West Virginia*

Mr. Bolen provided Project Manager Services for the development of two projects at West Virginia University as follows:

- ◆ Ruby Memorial Hospital – Mr. Bolen provided Project Job Captain & CADD tech services through Design Development and Contract Document. Design for an addition renovation to an existing facility for the ICU department with the University Hospital.
- ◆ WVU – Indoor Practice Facility – Mr. Bolen provided Project Job Captain & CADD tech services through the Programming and Pre Design phase for an addition Design Build project to an provide a new indoor sports practice facility for the Athletic Department with the University.
- ◆ WVU – Natatorium Facility – Mr. Bolen provided Project Job Captain & CADD tech services through the Programming and Pre Design phase for an addition Design Build project to provide an addition to the existing natatorium facility for the Athletic Department with the University.

#### **Comprehensive Education Facilities Plans (CEFP) 2000-2010**

Mr. Bolen assisted in the development of the various Counties' Facilities Plan for the ten-year period of 2000 - 2010. The plans included evaluation of all existing facilities, plans for bringing existing facilities up to current codes and guidelines, cost estimates to bring facilities up to current standards, and final planning scenarios. The following are counties that Mr. Bolen assisting in the development of their CEFP:

- ◆ Nicholas County Board of Education
- ◆ Cabell Co. Board of Education
- ◆ Wetzel County Board of Education
- ◆ Raleigh County Board of Education (required update)

#### **Comprehensive Education Facilities Plans (CEFP) 2000-2010**

Mr. Bolen provided Project Manager Services for the development of the various Counties' Facilities Plan for the ten-year period of 2000 - 2010. The plans included evaluation of all existing facilities, plans for bringing existing facilities up to current codes and guidelines, cost estimates to bring facilities up to current standards,

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and final planning scenarios. The following are counties that Mr. Bolen developed the CEFP plan in conjunction with educational component of DeJong and Associates in the development of their CEFP:

- ◆ Pocahontas County Board of Education
- ◆ Marshall County Board of Education
- ◆ Monroe County Board of Education

**A/E Services for Berlin McKinney Elementary School.** *Wyoming County Board of Education.*

Ron provided Project Manager Services from pre-design through all phases of document preparation, consultant coordination, client relations, and construction administration. This major renovation design repaired classrooms, toilets and auxiliary spaces for an existing school which was flooded and provided the project within the required state guidelines.

**A/E Services for Beckley Elementary School.** *Raleigh County Board of Education.*

Mr. Bolen provided Project Manager Services from pre-design through all phases of document preparation, consultant coordination, client relations, and construction administration. This new facility design replaced two existing schools within the required state guidelines and funded by the School Building Authority.

**A/E Services for Elkins Middle School.** *Randolph County Board of Education.*

As Job Captain, he provided services from design development through all phases of document preparation, and consultant coordination. This addition / renovation design to the existing facility provided needed classroom, and toilet facilities within the required state guidelines.

**A/E Services for Daniels Elementary School.** *Raleigh County Board of Education.*

Ron provided Project Manager Services from pre-design through all phases of document preparation, consultant coordination, client relations, and construction administration. This major renovation / addition design replaced two existing schools within the required state guidelines, and the project was funded by the School Building Authority.

**A/E Services for Cheat Lake Elementary and Middle School.** *Monongahela County Board of Education.*

Mr. Bolen was Project Job Captain through Pre Design and all phases of Document Preparation, Consultant Coordination, and Client Relations. Design for a major addition / renovation to the existing facility to replace four existing schools with new facility within the required state guidelines. The two schools shared the dining / kitchen facilities.

**A/E Services for Lincoln County High School.** *Lincoln County Board of Education.*

As Project Architect, Ron provided services through Contract Document Preparation. Design for a new facility to replace two existing schools with new facility within the required state guidelines. This project included new administration, kitchen / dining, gymnasium, classrooms and labs. The project was a silver LEED designed project.

**A/E Services for Roane County High School.** *Roane County Board of Education.*

Ron performed duties as Project Job Captain through Pre Design and all phases of Document Preparation, Consultant Coordination, and Client Relations. Design for a new facility to replace two existing schools with new facility within the required state guidelines. The project included new administration, kitchen / dining, gymnasium, classrooms and labs. This project won the state AIA Design Award.

**North Central Regional Juvenile Detention Center.** *WV Division of Juvenile Services, Parkersburg, WV.*

Mr. Bolen provided construction administration services during the renovation and expansion of the North Central Juvenile Detention Center. Responsibilities included site visits, periodic project walk through, documentation of contractor progress, and approving contractor billings.

**Sam Perdue Juvenile Detention Center.** *WV Division of Juvenile Services, Princeton, WV.*

Mr. Bolen provided bidding and construction administration services during the renovation and expansion of the South Regional Juvenile Detention Center. Responsibilities included site visits, periodic project walk through, documentation of contractor progress, and approving contractor billings.

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**Gymnasium Facility.** *Federal Bureau of Prisons Beckley, West Virginia.*

As Project Job Captain, he provided services through all phases of document preparation, consultant coordination, and client relations. This new facility design provided an indoor gymnasium facility for the medium security prison.

**Americans with Disabilities Act (ADA) Compliance Studies.** *Federal Bureau of Prisons, Beckley, WV.*

As Project Job Captain, Mr. Bolen provided services through all phases of document preparation, consultant coordination, and client relations to update existing facility with ADA standards for medium security prison.

**Alderson Women's Dormitory, Alderson, WV.**

Mr. Bolen provided Project Architect services during contract document preparation and client relations. This new facility design replaced an existing dormitory facility at the women's correctional facility.

**Classroom and Outdoor Training Facility Upgrades, Camp Atterbury, Columbus, Indiana.** *Directorate of Public Works, Post Engineer.* Project Architect. Project responsibilities included site surveying and base map preparation, site civil and architectural plan preparation, detailing, bidding, and construction administration for renovations required by the Post Engineer, Camp Atterbury, Indiana. Elements of the project included expansions and renovations to existing classrooms, expansion of existing office space, renovations to electrical, communications, and fire detection and suppression systems, and development of outdoor MWR facilities and training facilities such as a community park, and obstacle course. Periodic construction administration services were included during construction.

**Glen Jean Armory, Glen Jean, Fayette County, West Virginia.** *State of WV, Division of Engineering and Facilities.* Project Architect. Responsible for design development and construction document preparation for a new Armed Forces Readiness Center in Glen Jean, Fayette County, WV. The project consisted of military offices constructed of structural steel frame, brick veneer exterior, and EDPM membrane roofing system. The new Armory was constructed as a Readiness Center to consolidate the Oak Hill and Beckley Organizational Maintenance Shops and houses the 77th Bridge Troop Command from Charleston, the 18-63rd Transportation Company from Oak Hill's armory and the 150th Armored Division from Raleigh County's armory in Beckley.

**Harrison County Emergency Squad Facility in Shinnston WV** *Harrison County Commission.*

As Principal / Project Manager, Mr. Bolen provided services from pre-design through all phases of document preparation, consultant coordination, client relations, and construction administration. The design replaced an existing fire station. The facility was designed with four truck bays, office spaces, and conference / training room, meeting hall, toilet and kitchen facilities.

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## David Hilliard

### Senior Mechanical Designer

### General Qualifications

#### 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 a large Charleston, WV hospital. His resume covers over 20 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 in school, he used his HVAC work experience to evaluate mechanical problems and make design recommendations on two campus buildings. He has continued his education and professional development through his involvement with ASHRAE and other pertinent organizations.

Years with Baker: 1

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

#### Professional Affiliations

ASME

ASHRAE

SMACNA

### Experience

**A/E Services for the Harrison County Extension Service and the Parks and Recreation – Clarksburg, West Virginia.** *Harrison County Commission, Clarksburg, West Virginia.* Mechanical engineer. Mr. Hilliard is Responsible for the Mechanical, Electrical and Plumbing Design, MEP Document Preparation, and Construction Administration for the renovation of an existing facility for use as county Extension Administrative Offices and as a Parks and Recreation Storage Facility. The Harrison County Commission selected Baker to provide complete design and construction administration services to upgrade the building and increase energy efficiency. With funding through an ARRA Stimulus Grant, the Owner desires the modernization of approximately 6,000 square feet of the existing building with appropriate “Green Building” materials. Replacements of outdated heating, ventilation and air conditioning equipment, as well as the existing electrical service with energy efficient products are at the core of the design. Some of the elements to be included in the design are energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, updated water saving toilet facilities and a high efficiency HVAC system. Baker is currently working closely with the client during the planning phase to define a project scope to upgrade the existing facility into an energy efficient facility and within their budget.

**WV Capitol Building Restrooms Restoration/Renovations, State of WV, Charleston, WV.** *State of WV, 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 renovation of the 33 restrooms of the WV State Capitol Building.



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**Charleston Armory Improvements, WV Army National Guard, Division of Engineering and Facilities, Charleston, WV.** *State of WV, Division of Engineering and Facilities.* Project Engineer. David is responsible for all mechanical design oversight and construction management. 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 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.

**Capitol Campus Master Plan, State of WV, Charleston, WV.** *State of WV, General Services Division.* Mechanical Engineer. Mr. Hilliard is currently providing the State of West Virginia General Services Division a comprehensive campus-wide master plan for the 55+ acre state capitol campus. Working in conjunction with a team of specialized consultants, Dave is currently providing programming, cost estimating and facilities planning support. Services included HVAC Loads as well as utility evaluation and planning for future growth.

### ***Recent 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.

#### **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

#### **Air National Guard Maintenance Facility; Ashland KY**

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

#### **City of Charleston Fire Department -2; Virginia Street West, Charleston WV**

Mr. Hilliard worked on shop and construction drawings for the HVAC system; including gas unit heaters, Carmon retractable auto fume exhaust and make-up air

#### **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.

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**Donald R. Kuhn Juvenile Detention Center; Julian WV Project** Coordinator / Mechanical Engineer  
Mr. Hilliard developed HVAC shop drawings, Masonry Opening drawings and worked as a construction coordinator.

**Lakin Correctional Center; West Columbia WV** Project Coordinator / Mechanical Engineer  
Mr. Hilliard developed HVAC shop drawings, Masonry Opening drawings and worked as a construction coordinator.

**Camden-Clark Memorial Hospital -, Parkersburg, WV.** Mechanical Engineer.  
Mr. Hilliard developed Plumbing, HVAC ductwork, piping coordination drawings for the five story addition. Included in that building were eleven operating and patient rooms. Construction Administration was also part of his duties.

**Riverside High School; Charleston, WV**  
Mr. Hilliard worked on Design Evaluation and Coordination of the VAV Mechanical System. He prepared shop drawings and coordination drawings. His duties also included Construction Administration.

**Jackson County High School; Jackson, OH**  
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.

**Huntington High School; Huntington, WV**  
Mr. Hilliard worked on Design Evaluation and Coordination of the Heat Pump Mechanical System. He prepared shop drawings and coordination drawings. His duties also included Construction Administration.

**Waverly City Schools; Waverly, OH** (Three schools were built in the same complex. Elementary, Middle and High School)

### ***PREVIOUS WORK HISTORY***

**Air Systems Sheet Metal Company; Contractors & Engineers, 1990 - 2009, Drafter / Designer / Construction Manager / Estimator.** Air Systems is currently the largest sheet metal contractor in West Virginia. They engineer, fabricate and install both commercial HVAC and industrial ventilation systems in the tri-state area.

During his tenure at Air Systems, he managed and directed the drafting and design department preparing shop, design and value engineered drawings. He also worked as a project coordinator for HVAC ductwork, piping, plumbing and sprinkler. Estimating jobs (Quick Pen software), construction management, submittal review, procurement of supplies and air balancing were also part of his working experience.

**CS Lewis Contracting Co., 1985 - 1990, Partner, Designer/Builder.** As a business partner he designed and built homes and light commercial building from the ground up; including plumbing, electrical, HVAC. He also supervised the installation of underground utilities and concrete roads for various subdivisions; running a six to twelve men crew.

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# David Pecharka, A.I.A., LEED AP

## Senior Architect

### General Qualifications

Mr. Pecharka's project design experience includes transportation, military, master planning, educational, institutional, commercial, housing, recreational, health care, long-term care, and religious facilities. He has a long-standing interest in environmentally sustainable building design, and has conducted and administered LEED® applications for several buildings. He is a founding member of the AIA Pittsburgh Committee on the Environment (COTE), and the AIA Pennsylvania COTE. Mr. Pecharka has acted as the Baker lead contact to the U.S. Green Building Council, and has provided LEED® consultation on numerous projects company-wide. He has consulted with the U.S. Army Corps of Engineers on sustainable issues and the use of SPiRiT and LEED® Guidelines.

Mr. Pecharka's work at Baker has focused exclusively on the federal government, the majority for the Department of Defense. This work has been comprised of full designs, preparation of RFP's for design/build solicitations, and technical design as designer-of-record in response to RFP's and normally includes design work for multiple buildings. Since 2003, all of this work has been designed to conform to prevailing Anti-terrorism/Force Protection guidelines. In addition, all Baker projects for the federal government have been conducted according to SPiRiT or LEED®. Each year, the project requirements have increased to incrementally higher LEED® levels, requiring greater project commitments from all team members.

Mr. Pecharka's Department of Defense work has included full design projects in multiple temperate climate locations, as well as full design and master planning in remote and desert or arid climates, ranging from Fort Irwin, California and the Idaho National Laboratory site near Idaho Falls, Idaho, to Camp Arifjan in Kuwait, as well as Bagram AFB and Kabul in Afghanistan. Since the spring of 2007, Mr. Pecharka's work has been focused as Baker Project Manager and Lead Architect on the Armed Forces Reserve Center in Bell, California, working in close coordination with the prime contracting firm.

### Experience

**Civil Site Design Services in Support of Design-Build Projects, Quantico Marine Corps Base, Virginia.** *Naval Facilities Engineering Command, Atlantic Division.* Consultant. Developed LEED® sustainable design rating scorecard in response to project features. Baker provides civil site design services in support of design-build projects on Naval Facilities in the Mid-Atlantic Region. On these projects, Baker's scope includes storm-water management, erosion and sediment controls, site earthwork and grading, roads, parking, sidewalks, driveways, water supply, fire protection, sanitary sewer service,

Years with Baker: 8

Years with Other Firms: 18

#### Education

B.S., 1983, Architecture, Georgia Institute of Technology

M.Arch., 1986, Architecture, Georgia Institute of Technology

#### Licenses/Certifications

LEED® Accredited Professional, 2000

NCARB, 1988

Registered Architect, Idaho, 2004

Registered Architect, Ohio, 2003

Registered Architect, Pennsylvania, 1987

Registered Architect, West Virginia, 2004

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and utility connections. In keeping with the Navy's commitment to environmentally-responsible design, the facility incorporates many sustainable design features and is designed to achieve "LEED" Silver ratings from the U.S. Green Building Council.

**Tenant Improvements to Flex Building 400, Airside Business Park, Moon Township, Pennsylvania.** *Airside Business Park, L.P.* Department Manager. Responsible for architectural design and document quality oversight. Baker provided planning, architecture, and engineering design services for the shell and core structure of Building 400, as well as tenant improvement/interior design services for the project. NDC Health occupies two-thirds of the structure. The original facility design was customized for NDC, providing fewer loading docks than the six originally specified. Approximately 90% of the high-bay area is being used as office space and includes a boardroom, executive offices, and training room. The remaining tenant space was converted to at-grade storefronts and is available for lease.

**Upgrade of the Kinetic Energy Missile Testing Complex, White Sands Missile Range, New Mexico.** *U.S. Army Corps of Engineers, Fort Worth District.* Department Manager. Responsibilities included conducting an initial site visit and survey to determine project scope, architectural design, and document quality oversight. A 1,500-square-foot Missile Assembly Building (MAB) and Explosives Storage Bunker was added to the White Sands Missile Range. The project included utility installation, fire protection and lightning protection systems, and anti-terrorism and force protection measures. It also included installation of fiber optics to transmit test data from the field to the mission control blockhouse. Uniform Federal Accessibility Standards and Americans with Disabilities Act Accessibility Guidelines were followed. Services included surveying, geotechnical exploration, architecture, and multi-discipline engineering services.

**Miscellaneous Facility Support Services, Confidential Site.** *Confidential Client.* Department Manager. Responsible for architectural design and document quality oversight. Baker provided full-service architectural and engineering services under an open-end contract to a confidential client with secure campus locations in Pennsylvania and Idaho. Several task orders and administrative items were assigned to Baker under the category of Miscellaneous Facility Support Services.

**Open-End Architectural/Engineering Services at West Virginia University, Morgantown, West Virginia.** *West Virginia University.* Department Manager. Responsible for architectural design and document quality oversight. Baker was retained by the West Virginia University (WVU) under an Open-End Architectural and Engineering contract to oversee the construction implementation of the university's campus master plan. Baker's tasks include program management, programming, planning, design development, construction documentation, evaluations, feasibility studies, and construction contract administration services. Functioning as an extension of WVU's staff, Baker provided full-time, on-site owner representation to monitor the work of the design, contractor, and construction management team on various projects.

#### **Non-Baker Project Experience**

**Municipal Courts Facility.** *City of Pittsburgh.* Project Architect. Size 30,000 square feet. Construction cost \$10,000,000. Completion Date 1995.

**L3 Housing Unit and Support Facilities Renovation, State Regional Correctional Facility, Mercer, Pennsylvania.** *Pennsylvania Department of Corrections, Pennsylvania Department of General Services.* Project Manager. Size 132,000 square feet. (Construction cost \$9,161,000. )

**State Correctional Facility, Houtzdale, Pennsylvania.** *Pennsylvania Department of Corrections,*

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*Pennsylvania Department of General Services.* Project Architect. Size 700,000 square feet. (Construction cost \$80,000,000.

### **Previous Work History**

L.D. Astorino & Associates, Vice President of Sustainable Design/Vice President of Construction Design/Project Manager, 1993-2001

Image & Associates, Senior Project Architect, 1992

MacLachlan, Cornelius & Fidoni, Project Architect, 1989-1992

Hayes Large Architects, Project Architect/Intern Architect, 1986-1988

Heery & Heery, Intern Architect, 1983-1986

### **Continuing Education/Training**

ASHE/AHA Institute on Health Facilities, Codes and Standards Update, 1987

Dale Carnegie Course in Effective Speaking and Human Relations, 1988

Volunteer, AIA Rebuilding Cities Conference and RUDAT, 1988

ASHE/AHA National Conference on Health Facilities Planning, Design, and Construction, 1989

AIA Building Connections Video Conference, 1993

National Trust for Historic Preservation, 1993 "Transportation Planning for Livable Cities Conference - ISTEAM", University of Wisconsin - Madison, 1998 "Detecting Deficiencies in Working Drawings and Specifications"

LEED® Training Seminar, 2000

USGBC Federal Summit, 2001, 2002

### **Teaching and Leading**

Chairman, Steering Committee, 1996

AIA Committee on the Environment Design Charrette

"Reshaping the Region - Planning for a Sustainable Future"

AIA COTE (Committee on the Environment) / MBA Instructional Seminar, 2001

"Contractors and LEED® "

### **Specialized Experience**

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Significant time savings were realized by providing critical planning and architectural activities on-site in Afghanistan.

Constant use of our Electronic Mobile Office in Afghanistan accommodated extensive field documentation, allowing all design team members to network design drawings with each other, as well as produce printed and electronic reports while on-site.

Design criteria and assumptions made while on-site in Afghanistan, in the form of draft DD1391 documents - supported by drawings and calculations - brought TAC closer to approved cost justification to the U.S. Congress.

LEED® Accredited Professional and Experienced with Designing within USACE SPiRiT Guidelines.

### **Computer Skills**

Adobe Acrobat Professional  
Autodesk AutoCAD  
Microsoft Excel  
Microsoft Power Point  
Sketch Up

### **Instrument Proficiency**

### **Professional Affiliations**

American Institute of Architects (AIA)  
Amnesty International  
Habitat for Humanity (HFHI), Volunteer

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**John W. Dawson, P.E., P.S.**  
*Construction Services Manager*

## **General Qualifications**

Mr. Dawson brings much experience to Baker and has been an asset to our construction management team. He is responsible for all Construction Management and Inspection activities for all of West Virginia, including management of several concurrent projects, project staffing, training and recruitment, invoicing clients and securing work. Mr. Dawson was employed by the West Virginia Department of Highways (WVDOH) for 33 years prior to coming to work for Baker as the Construction Services Manager for West Virginia. During his 33 years with the WVDOH, Mr. Dawson consulted on several road and bridge projects as a Project Engineer. As he gained more experience, he was given increased responsibility and promoted to Construction Area Engineer, then Construction Engineer, and eventually District Engineer for District 1.

Years with Baker: 5

Years with Other Firms: 33

### **Education**

B.S. Civil Engineering (1970)

### **Registrations**

Professional Engineer WV #7190

Professional Surveyor WV #1415

Professional Engineer VA #41018

Professional Engineer MD #32778

## **Project Experience**

**WV 9 Upgrade, Eastern Panhandle.** *West Virginia Department of Transportation.* Baker Project Manager/Coordinator. Responsible for four major projects with over 7 miles of 4-lane expressway including excavation and embankment, 13 bridges, retaining walls, pavement, signs, etc. (2007 – Present)

**Construction Engineering Inspection Services - Staunton/Salem Districts, NOVA District, Hampton Roads District, Virginia.** *Virginia Department of Transportation.* Project Manager/Coordinator. Responsible for oversight on District wide Construction Inspection - 5 contracts.

**Reconstruction of I-64/77 Mahan to Charleston.** *West Virginia Department of Transportation.* Project Manager/Coordinator. Responsible for ten major projects over 33 miles, 35 million cubic yards of excavation and embankment, 25 bridges, toll collection buildings, maintenance buildings, rest areas, railroad relocation, retaining walls, concrete and asphalt pavement, signing, etc.

**Appalachian Corridor H, Baker to Wardensville, Hardy County.** *West Virginia Department of Transportation.* Baker Project Manager/Coordinator. Responsible for six major projects over seven miles, 10 Mil. CY excavation and embankment, ten bridges, retaining walls, pavement, signs, etc.

## **Non-Baker Project Experience**

**1998 to 2004, District Engineer, West Virginia Department of Highways - District 1.** Responsible for the engineering and administrative duties of directing, organizing and coordinating the work of District One, which consists of Construction, Bridge, Design, Traffic, Maintenance, Personnel, Equipment, Right-of-Way, Comptroller and Permits Sections. District One is comprised of five counties containing over 4000 miles of roadways and over 1200 bridges with 500 employees.

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**1995 to 1998, Maintenance Engineer, West Virginia Department of Highways - District 1.** Mr. Dawson was responsible for management and administration of the District Permits, Design and Maintenance Sections. There are 13 maintenance organizations with 400 employees and an annual budget of approximately \$20 Million.

**1985 to 1995, Construction Engineer, West Virginia Department of Highways - District 1.** Mr. Dawson was responsible for management and administrative duties for all construction contracts within the District. The Construction Section was comprised of Project Inspectors and Engineers, Utilities Inspectors, Survey Parties and Materials Testing Technicians for a total of approximately 120 employees.

**1980 to 1985, Area Construction Engineer, West Virginia Department of Highways - District 1.** Responsible for projects on the West Virginia Turnpike within District 1. Mr. Dawson was responsible for oversight of several projects for conflict/problem resolution. Establish an effective and safe working relationship with contractors, suppliers, consultants, utility companies, government agencies, municipalities, property owners, employees, and the general public by letter, telephone, or personal appearance. Acted as a liaison between the above and the District One Construction Office. Reviewed plans and proposals and recommended changes and corrections.

**1978 to 1980, Assistant Regional Engineer, West Virginia Department of Highways - Construction Division.** *West Virginia Department of Transportation.* Mr. Dawson assisted the Regional Construction Engineer with administering construction projects at the state level (over several Districts). This position required coordination with the Federal Highway Administration (FHWA), contractors, other state agencies and various divisions within Highways to resolve issues on construction contracts.

**1973 to 1978, Area Construction Engineer, West Virginia Department of Highways - District 4.** *West Virginia Department of Transportation.* Responsible for Construction Management & Engineering Support on several projects throughout the District.



# 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. 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.

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
- RLA, North Carolina, 2008
- 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
- American Planning Association
- Associate Member – AIA West Virginia
- Society of Military Engineers
- National Guard Association
- WV Rails-to-Trails Society
- Elkland Pool Board

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**Parsons City-Wide Comprehensive Parks and Recreation Master Plan, Parsons, West Virginia.** *Parsons Parks Board.* Project Manager. Responsible for master planning design and document quality oversight. Baker prepared a Master Plan of improvements and recommendations for existing and proposed parks and recreation amenities for the city limits of Parsons, Tucker County, West Virginia. The City of Parsons, over time, has acquired many parcels of FEMA-condemned properties due to the flood prone topography of Parsons. In an effort to properly manage the existing facilities, yet prepare for the future of the additional facilities scattered throughout the community, this master planning effort was begun. Through a series of public meetings and stakeholder meetings, a final plan was realized with recommendations for ball fields, hiking and biking trails, a recreation center, skateboard park, miniature golf course, additional play structures, picnic facilities, ADA-compliant fishing access, interpretive signage, and landscaping improvements for the existing and new park areas.

**Ararat River Greenway Parks Projects, Mount Airy, North Carolina.** *City of Mount Airy, North Carolina.* Project Manager. Responsible for design and document quality oversight. Baker prepared construction documents and is providing construction administration and construction inspection services for three (3) parks along the Ararat River in North Carolina. The designs were prepared based on a previously developed master plan of the Ararat River Greenway. 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 and classroom, picnic facilities, nature trails, parking area, pedestrian bridge to nearby middle school, fishing access and canoe launch facility. The final park design is for Tharrington Park, which includes a premier soccer field, additional soccer fields to create a soccer complex, access road and parking, fitness trail, restroom facility, concessions, and a maintenance building.

**Kanawha & Putnam County Bicycle – Pedestrian Master Plan, South Charleston, West Virginia.** *Regional Intergovernmental Council (RIC).* Assistant Project Manager. Responsible for field inventory and analysis, and plan preparation and review. Baker performed a two-phase bicycle and pedestrian circulation study for Kanawha and Putnam Counties. Under Phase I, 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 including traffic volumes and comprehensive plan documents and performed a broad base public outreach effort to identify bicycle and pedestrian issues in Kanawha and Putnam Counties. Under the Phase I effort, Baker incorporated the inventories into a series of public meetings, garnering input from each community and the client, and then summarizing the findings in the Plan. Based on these efforts, a list of recommended improvements to the 2-county area was proposed to improve bicycle and pedestrian safety and user-friendliness throughout the project area.

**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 for the State of WV, West Virginia National Guard, selected Baker for a lump sum/ fixed fee contract for architectural and engineering services. Baker was 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. 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.

#### **Non-Baker Project Experience**

**Salem Train Depot & Trailhead, North Bend Rail Trail, Salem, West Virginia.** *WYK Associates, Inc. and the Town of Salem.* Project Landscape Architect. Responsible for design development and construction document preparation. Teamed with WYK Associates, prepared detailed plans and specifications for site improvements to support architectural improvements to the Train Depot, which served as trailhead for the

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North Bend Rail Trail. As well as the renovation to the historic train depot, site amenities included, brick walkways, period lighting, wrought iron benches and trash receptacles, and storm sewer improvements.

**KRT / Amtrak Train Station, Montgomery, West Virginia.** *City of Montgomery.* Project Manager. Responsible for design and document quality oversight. Prepared detailed design, construction documents, provided bidding and construction management services for improvements to the combined Amtrak Train Station and Kanawha Rapid Transit (KRT) Bus Stop in Montgomery, WV. Project consisted of an outdoor canopy shelter, concrete sidewalk replacement, lighting, concrete retaining walls, ornamental railing, wheelchair ramp, concrete steps with ornamental hand railing, truncated dome panels, storm sewer, benches and trash receptacles. The project was bid using unit costs resulting in the base bid award, plus the addition of several park benches added based unit prices submitted by the contractor. The City went on to use many of the proposed amenities and materials in this project for other street and sidewalk improvement projects.

**Historic Saint Albans Train Station Master Plan, St. Albans, West Virginia.** *City of St. Albans.* Project Landscape Architect. Responsible for concept development and master plan graphics. Prepared schematic design and concepts for a proposed master plan for the Historic Saint Albans Train Station in St. Albans, Kanawha County, WV. Plan consisted of an outdoor plaza space, specialty pavers, period lighting, benches and trash receptacles.

**Peterson Central Elementary School, Weston, West Virginia.** *WYK Associates, Inc. and the Lewis County Board of Education.* Landscape Architect. Responsible for conceptual design, detailed design, construction document preparation and document quality oversight. This new K-4 elementary school consolidated Peterson, Polk Creek and Shadybrook Elementary Schools. The new facility, constructed in 2000, induced a better learning atmosphere. The new construction enabled Lewis County to provide computer networking, indoor/outdoor physical education, a learning resource center and a multi-purpose room with the capacity for presentations, all housed in this new 45,523 square foot facility.

**Lewis County High School Football Field, Weston, West Virginia.** *Lewis County Board of Education.* Platoon Leader, Bravo Company, 1092<sup>nd</sup> Engineer Battalion, WVARNG. Responsible for project coordination and construction site supervision. During the construction of this new school budget constraints limited the development of extracurricular facilities, including the football stadium. Along with the curricular improvements at that included computer labs, music facilities, art studios, state of the art science labs, new athletic fields were a need. Bravo Company of the 1092<sup>nd</sup> Engineer Battalion, West Virginia Army National Guard, helped fill this void by providing construction equipment and manpower to carve the football stadium grounds out of a nearby hillside, completing the high school campus.

**Spring Valley High School, Huntington, West Virginia.** *ZMM, Architects & Engineers, and the Wayne County Board of Education.* Landscape Architect. Responsible for conceptual design, detailed design, construction document preparation and document quality oversight. This consolidated senior high school for 1,200 students grades 9 through 12 includes two gymnasiums (one with seating for 1,200), full food service facilities, and auditorium with seating for 600, and a library with media technology distribution capabilities. For Wayne County's comprehensive building, the building was designed with hinge points, volume transitions and a bright color palette, and at 175,000 square feet, details were incorporated in the design that give the large building a human scale. Site features include a massive earth moving effort in the site preparation phase, stream relocation, extensive culvert design, WVDOH-approved storm sewer system, football stadium, baseball field, landscaping, and ADA compliant accessibility.

**Main Street Streetscape Master Plan, Clay, West Virginia.** *Central Appalachia Empowerment Zone (CAEZ).* Project Manager. Responsible for field inventory and analysis, conceptual design, master planning and cost estimate preparation. Developed conceptual design and master plans for the redevelopment of Main Street Clay, in Clay County, West Virginia. Proposed amenities included new concrete sidewalks with brick accents, brick crosswalks, concrete curbing, period street lights, wrought-iron benches and trash receptacles, overhead utility relocations, storm sewer improvements, and landscaping. Also prepared cost opinions in unit

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cost format for use in funding applications. Assisted Town of Clay in preparation of Transportation Enhancement Grant application based on master plan.

**Stonewall Jackson Lake Resort State Park, Weston, West Virginia.** *McCabe-Henley-Durbin, LLP and WVDNR, Parks & Recreation.* Project Landscape Architect. Responsible for master planning, conceptual design, detailed design, construction documents, bidding, and construction administration. Assisted in the development of a Master Plan for the expansion of Stonewall Jackson Lake State Park into a Resort Park. Further developed concepts, and finally detailed design and construction documents for the site development of a 200-room lodge with conference facilities and restaurants, patio and deck overlooking the lake, children's playground, 8 exposed timber-frame deluxe cabins, 18-hole Arnold Palmer Signature Golf Course with Clubhouse, maintenance facility, parking lots, roads, utilities, trails, campgrounds, boat launch ramp, boat dock, and other recreational facilities for this highly successful public/private joint venture to expand the facilities at Stonewall Jackson Lake near Weston, Lewis County, West Virginia.

**Mud River Lake Recreation Area, Lincoln County, West Virginia.** *US Soil Conservation Service.* Landscape Architect. Master planning, conceptual design, detailed design, and construction document preparation. Assisted in the development of a Master Plan and construction documents for the development of a recreational facility associated with the flood control impoundment, Mud River Lake, Lincoln County, West Virginia. Plans included a bath house, beach and swimming area, two comfort stations, boat launch facility, handicap accessible fishing pier, playgrounds, picnic shelters, water treatment facility, sewer treatment plant, maintenance facility, parking lots, roads, lighting, signage, trails, and other amenities for this destination fishing and recreation facility.

**West Virginia State Parks Accessible Cabins, State of West Virginia.** *West Virginia Department of Natural Resources, Division of Parks & Recreation.* Project Landscape Architect. Responsible for field inventory and analysis, base map preparation, site selection, conceptual design, and construction document preparation. Developed construction documents for \$3,300,000.00 in new ADA-compliant deluxe cabins for the following WV State Parks and Forests: Twin Falls State Park, Pipestem State Park, Bluestone State Park, Greenbrier State Forest, Watoga State Park, Seneca State Forest, Holly River State Park, Kumbrabow State Forest, Tygart Lake State Park, Blackwater Falls State Park, Lost River State Park, and Cacapon State Park.

**Various Military Installation Improvements, Camp Arifjan, Kuwait.** *Directorate of Public Works, Post Engineer.* Project Manager. While on deployment in the Middle East with the 111<sup>th</sup> 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.

#### **Offices Held**

- Current Secretary, WV State Board of Landscape Architects
- Past Treasurer, WV State Board 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
- WV Chapter – Am. Soc. of Landscape Architects; 1999 Merit Award – Tamarack Arts Center
- WV Chapter – Am. Soc. of Landscape Architects; 1995 Honor Award – NorthGate Business Park

**Laura L. Cox, P.L.A., A.S.L.A.**  
*Landscape Architect*

**General Qualifications**

Ms. Cox is a Registered Landscape Architect with over 26 years of experience in the fields of landscape architecture and land planning. She has knowledge of all phases of design from site analysis and conceptual planning through construction documentation, permitting and administration. Her design experience includes large scale site preparation and grading, drainage analysis, storm water conveyance and detention, and utility and infrastructure design.

Ms. Cox has an extensive background in site and land use planning for counties and municipalities including, feasibility studies, review and evaluation of preliminary and final subdivision plans, special exceptions, rezoning applications, yield studies, special use permits and client representation at public hearings and meetings with civic groups.

**Experience**

**A/E Services for the Harrison County Extension Service and the Parks and Recreation –Clarksburg, West Virginia.**  
*Harrison County Commission, Clarksburg, West Virginia.*

Project Site Civil Designer. Ms. Cox will be responsible for all site and civil design aspects for the renovation of an existing facility for use as Administrative Offices and as Storage Facility. The Harrison County Commission selected Baker to provide complete design and construction administration services for architectural improvements. The existing facility located near Clarksburg, West Virginia was originally constructed in the early 1960's and was used recently as a business for a local exterminating firm. Over the years, there have been additions and upgrades to the facility. Baker was selected by the Harrison Co. Commission to upgrade of front area of the facility for the Harrison County Extension Service's offices and back area of the facility for use as storage by the Harrison County Parks and Recreation. With funding through a ARRA Stimulus Grant, the Owner desires the modernization of approximately 6,000 square feet of existing with appropriate "Green Building" materials. Upgrades of the exterior doors and windows, interior partitions and finishes replacing the outdated heating, ventilation, and air conditioning equipment, and replacing the existing electrical service with energy efficient product. Total project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, exterior window and door replacements, new interior doors and hardware, new wall finishes, updated water saving toilet facilities and a new energy efficient HVAC system. Baker is currently working closely with the client during the planning phase to define a project scope to upgrade the existing facility into an energy efficient facility and within their budget.

**Dunbar Zoning Ordinance Update, Dunbar, West Virginia.** *Town of Dunbar.* Project Manager, Ms. Cox is assisting the Town of Dunbar in updating its Zoning Ordinance and Mapping System. The original ordinance adopted in 1961 and its associated mapping have undergone very little updating. This project, when complete will bring the current Ordinance into the Twenty first Century along with its GIS based

Years with Baker: 1  
Years with Other Firms: 26

**Education**

B.S. Landscape Architecture, West Virginia University, 1978  
Computer Aided Drafting, Putnam County Technical Center, 1995

**Registrations**

CLA, Virginia, 1987  
PLA, West Virginia, 2008  
NICET Level 3 (Highway Design), 1983

**Professional Affiliations**

American Society of Landscape Architects  
WV Chapter – American Society of Landscape Architects  
WV Chapter – American Institute of Architects

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electronic mapping which will be available to the public. Ms. Cox is assisting the Dunbar Planning Commission in the necessary public involvement process, as well as ordinance writing, research, mapping and coordination efforts for this project

**West Virginia Capitol Complex Master Plan, Charleston, West Virginia.** *WV Department of Administration.* Project Planner, Ms. Cox is assisting in providing the State of West Virginia General Services Division a comprehensive campus-wide master plan for the 55+ acre state capitol campus. Ms. Cox is part of the Baker Team which is working in conjunction with the owner and a team of specialized consultants providing planning elements including master planning, public involvement, document management, facilities planning, and document preparation.

**Winfield On-Call Planning Services, Winfield, West Virginia.** *Town of Winfield.* Project Planner, Laura serves as the Planning Director of the Town, where she staffs subdivision, special exception, and rezoning applications. She meets with the public and serves as Town Staffing to the Planning Commission and Board of Zoning Appeals. Upcoming projects for the Town include assisting in the preparation of a Comprehensive Land Use Plan and updating the Zoning ordinance.

**Historic Wellsburg and Bethany Scenic Byway Corridor Management Plan, Wellsburg, West Virginia.** *Byway Committee.* Project Landscape Architect, Ms Cox was responsible for field inventory and analysis, community input facilitation, and document preparation. She helped prepare a Corridor Management Plan for the Historic Wellsburg and Bethany Scenic Byway in Brooke County West Virginia in preparation for Federal recognition in the National Scenic Byway Program. The plan showcased the story of settlement and the development of industry along the Ohio River in the Northern Panhandle of West Virginia, as well as developing recreational opportunities and improving safety along the circular 22-mile scenic corridor loop.

**Parsons City-wide Comprehensive Parks and Recreation Master Plan, Parsons, West Virginia.** *Parsons Parks Board.* Project Planner. Ms. Cox was responsible for assisting in the master planning design. She assisted in preparing a Master Plan of improvements and recommendations for existing and proposed parks and recreation amenities for the city limits of Parsons, Tucker County, West Virginia. Through a series of public meetings and stakeholder meetings, a final plan was realized with recommendations for ball fields, hiking and biking trails, a recreation center, miniature golf course, additional play structures, picnic facilities, ADA-compliant fishing access, interpretive signage, and landscaping improvements for the existing and new park areas.

**Ararat River Greenway Parks Projects, Mount Airy, North Carolina.** *City of Mount Airy, North Carolina.* Project Landscape Architect. Ms. Cox was responsible for design and construction document preparation. She assisted in the preparation of construction documents and provided construction administration and construction inspection for three (3) parks along the Ararat River in North Carolina. The designs were prepared on a previously developed master plan of the Ararat River Greenway. 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 showcases environmental issues in the park design and construction, including an outdoor amphitheater and classroom, picnic facilities, nature trails, parking area, pedestrian bridge to nearby middle school, fishing access and canoe launch facility. The final park design is for Tharrington Park, which includes a premier soccer field, additional soccer fields to create a soccer complex, access road and parking, fitness trail, restroom facility, concessions, and a maintenance building.

**Kanawha & Putnam County Bicycle – Pedestrian Master Plan, South Charleston, West Virginia.** *Regional Intergovernmental Council (RIC).* Project Planner. Ms. Cox provided assistance in field inventory and analysis, plan preparation and graphic support. She helped perform a two-phase bicycle and pedestrian circulation study for Kanawha and Putnam Counties. Based on these efforts, a list of

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recommended improvements to the 2-county area was proposed to improve bicycle and pedestrian safety and user-friendliness throughout the project area.

**Country Roads Scenic Byway Corridor Management Plan, Boone, Logan and Mingo Counties, West Virginia.** *Coalfield Convention and Visitors Bureau.* Project Landscape Architect. Ms. Cox was responsible for field inventory and analysis, community input facilitation, and document preparation. She helped prepare a Corridor Management Plan for the Country Roads Byway in southern West Virginia in preparation for Federal recognition in the National Scenic Byway Program. The plan showcased the story of organized labor and its relation to the industrial revolution in West Virginia, as well as developing recreational opportunities and improving safety along the nearly 180-mile scenic corridor loop.

**Valley Park Sidewalk Improvements Project, Hurricane, West Virginia.** *Putnam County Parks and Recreation Commission.* Project Landscape Architect. Ms. Cox was responsible for design and construction document preparation. She assisted in complete planning, design, and construction management services for new sidewalks and streets 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, ladder-style crosswalks, and storm water improvements. The park sidewalks have a unique colored stamping of natural elements found in West Virginia, such as leaves and ferns, animal tracks, and flowers. Ms. Cox helped provide Construction Administration and inspection services as well as periodic site review during construction.

**Habitat for Humanity Restore Parking Lot and Rain Garden Project, Charleston, West Virginia.** *Habitat for Humanity Corporation.* Project Landscape Architect. Ms. Cox was responsible for design and construction document preparation. She performed complete planning and design services for a new parking lot that included a rain garden. This was a pilot project of the City of Charleston and is the City's first rain garden. This Low Impact Design element is an innovative solution to urban storm water detention problems.

#### **Non-Baker Project Experience**

**FPC Alderson, Federal Prison Camp; Alderson WV** Landscape Architect / Civil Designer  
Ms. Cox worked on concept campus plans as well as well as complete site and landscape plans for the renovation and expansion of two dormitories along with extensive renovations to existing site recreational features.

**Gene Spadero Juvenile Detention Center; Mt. Hope WV** Landscape Architect / Civil Designer  
Ms. Cox designed all site amenities including entrance configuration, parking; roads; grading; utilities; fencing and landscaping.

**Lakin Correctional Center; West Columbia WV** Landscape Architect / Civil Designer  
Ms. Cox designed parking; roads; grading; utilities; fencing and landscaping for a new dormitory and a Correctional Industries Building.

**Erma Byrd Center, Beaver, Raleigh County, West Virginia.** *Southern West Virginia Community and Technical College.* Project Landscape Architect. Ms. Cox was responsible for master planning of the campus, detailed design, and site construction document preparation. She developed site design and construction documents for the development of a new multi-purpose education facility. Future plans for the campus include additional buildings arrayed around a central water feature.

**Miniature Golf Course at Chief Logan State Park, Logan County, West Virginia.** *Environmental Design Group.* Consultant. Laura was responsible for storm sewer design for a new recreational feature for the Park. Services included site drainage analysis and design of storm conveyance system.

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**Byrd Park Redevelopment Master Plan, Richmond, Virginia.** *Richmond Parks and Recreation Board.* Project Manager. Ms. Cox performed site inventory and analysis, public outreach and preparation of a revitalization master plan for one of the oldest parks in the City.

**Glen Jean Armory, Glen Jean, Fayette County West Virginia.** Staff Landscape Architect. Laura prepared Complete Landscaping and Entrance Area Ramps/Stairs Plans addressing ADA and force protection issues.

**Logan Readiness Center, Logan, West Virginia.** Staff Landscape Architect. Ms. Cox designed parking lot and sidewalk system and prepared Landscaping Plan

**Jackson County National Guard Facility, Cottageville, West Virginia.** Staff Landscape Architect. Ms. Cox provided preliminary site analysis and conceptual plans for public comment phase of the project.

**Morgantown National Guard Facility, Morgantown, West Virginia.** Staff Landscape Architect. Ms. Cox provided conceptual site plan for submission to client.

**St Albans High School, St Albans West Virginia, St. Albans School Board.** Staff Landscape Architect/ Civil Designer – Ms. Cox prepared Complete Phased Civil and Site Construction Drawings for entire campus plan.

**Lincoln County High School, Hamlin, West Virginia, Lincoln County Board of Education.** Staff Landscape Architect/ Civil Designer. Laura prepared Complete Phased Civil and Site Construction Drawings for entire campus plan, including design of DOH roadway and extensive site grading.

**Southside Elementary/Southwest Middle School, Huntington, West Virginia, Cabell County Board of Education.** Staff Landscape Architect/ Civil Designer – Ms. Cox prepared Complete Phased Civil/Site/Landscape Construction Drawings for urban campus plan, which included a sustainable underground storm collection system.

**Milton Middle School, Milton, West Virginia, Cabell County Board of Education.** Staff Landscape Architect/ Civil Designer – Laura prepared Complete Phased Civil/Site Construction Drawings for rural campus plan, which included extensive site grading along with a sustainable underground storm collection system.

## ***PREVIOUS WORK HISTORY***

**ZMM, Inc., Architects & Engineers, MAY 2000 – NOVEMBER 2007, Landscape Architect, Ms. Cox** performed planning and site design functions, permit processing, software implementation and training. She was responsible for all in-house site design and civil engineering projects for West Virginia's largest multidisciplinary AEC firm, specializing in educational, correctional, and commercial projects. While employed at ZMM Laura was involved in all phases of design from site analysis and conceptual planning through construction documentation and administration. She prepared large scale site preparation and grading plans, provided drainage analysis, prepared storm water conveyance and detention plans, and produced utility and infrastructure design and worked with government agencies to obtain approvals and permits. In addition to design responsibilities, she was in charge of recurrent training of the technical staff to support upgrades, advances, and improvements in design software.

**Self Employed as a Design Consultant, April 1995 - May 2000, Ms. Cox** provided civil, architectural, and environmental design and drafting services, She also provided Instruction of both on and offsite AutoCAD classes. Laura also provided comprehensive design and drafting services for clients in the Charleston/Huntington area; Services included Land Use Planning, Civil Design and Drafting, Architectural Drafting, Environmental Design, and Landscape Architecture. Additionally she served as trainer for Mountain CAD, Charleston's Autodesk software reseller.

**Fauquier County Department of Community Development, August 1990 - December 1993, Chief of Planning Division,** Ms. Cox was responsible for the processing of land use applications. She also



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supervised a design review team; Her responsibilities included organization and implementation of office procedures; enforcement of subdivision and zoning ordinances; review and evaluation of preliminary and final subdivision plans, special exceptions and rezoning. She answered public inquiries; represented the county at public meetings. In addition Ms. Cox provided reports and recommendations directly to the Fauquier County Planning Commission and Board of Supervisors.

**Land Design Concepts, Incorporated, JUNE 1989 - AUGUST 1990, Senior Planner/Office Manager,** Ms. Cox was responsible for oversight of office procedures and performed and supervised a broad spectrum of planning tasks. She managed the staffing, organizing, marketing and supervising the equipping of an office for a new planning firm; Ms. Cox was in charge of management of both office and planning staff; She developed all client contacts; prepared and negotiated contracts and supervised billing; Ms. Cox was responsible for preparing and processing rezoning applications, preliminary plans, feasibility studies, site and land use analysis, yield studies and conceptual design in Stafford and Spotsylvania Counties.

**Kidde Consultants, AUGUST 1986 - MAY 1989, Chief, Planning & Landscape Architecture Section,** Ms. Cox was in charge of a team that was involved in all phases of planning and landscape architecture. Her responsibilities included: coordinating with and assisting clients' attorneys in obtaining rezoning, special exceptions and special use permits; contract preparation, negotiation and billings; She represented clients at public hearings and meetings with civic groups in Arlington, Fairfax, Prince William and Stafford Counties.

**Huntley, Nyce and Associates, P. C., OCTOBER 1984 - AUGUST 1986, Staff Landscape Architect,** Ms. Cox was responsible for small and large scale landscape design, civil design and graphics presentations. She was in charge of a squad of design and drafting personnel. She prepared site, subdivision and landscape plans in Fairfax and Loudon Counties.

**Paciulli, Simmons and Associates, APRIL 1984 - OCTOBER 1984, Designer,** Ms. Cox was responsible for the design of commercial and residential site plans and all phases of site design including utility and drainage computations, layout grading plans and roadway design.

**WVDOT Division of Highways, DECEMBER 1980 - APRIL 1984, Highway Design Technician,** Ms. Cox was responsible for highway design including repair and improvement; horizontal and vertical layout of roads, quantity calculations, report graphics and drafting.

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# Jason T. Smithson, P.S.

Civil Associate

## General Qualifications

Mr. Smithson is currently employed as a Civil Associate at the Charleston, West Virginia office of Baker's South Region.

Mr. Smithson has over ten years of diverse experience that includes assignments in civil design, geotechnical engineering, environmental science, surveying, drilling, construction inspection and field and laboratory materials testing.

## Experience

**Various Sidewalk Projects, West Virginia.** *Various West Virginia Municipalities.* As a Project Surveyor, Mr. Smithson established horizontal and vertical control and provided topographic mapping by conventional and GPS survey methods, to provide data for the creation of plan sheets for the construction of new sidewalks, as well as civil engineering to correct existing poor drainage concerns in various communities throughout West Virginia including: Town of West Milford, West Virginia; Town of Mason, West Virginia; Town of Hambleton, West Virginia; and the Town of Moorefield, West Virginia.

**Various WVDOH Highway Projects, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Geotechnical Geologist, Project Surveyor and Engineering Technician.

Mr. Smithson provided subsurface investigation data, 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. Additionally, he provided geologic analysis data for the subsurface investigation to support the Geotechnical Engineering functions toward the development of highway construction plans. 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.

**Bob Evans Farms, Inc., Columbus, Ohio.** *Bob Evans Farms, Inc.* Project Surveyor. Mr. Smithson provided complete services for an ALTA/ACSM Survey of the Bob Evans Restaurants in Huntington, West Virginia and Canonsburg, Kentucky. Services included field surveying (boundary and topographic), courthouse research and assessment of the Title Commitment for the subject property.

**Three Gables Surgical Center, Proctorville, Ohio.** *Three Gables Surgical Center.* Project Surveyor, Mr. Smithson provided complete services for an ALTA/ACSM Survey of the new surgical center in Proctorville, Ohio. Services included field surveying (boundary and topographic), courthouse research and assessment of the Title Commitment for the subject property.

**Huntington Industrial Corporation, Huntington, West Virginia.** *Huntington Industrial Corporation.* Project Surveyor, Mr. Smithson provided complete services for an ALTA/ACSM Survey of the Prichard Industrial Park in

Years with Baker: 3

Years with Other Firms: 7

### Education

B.S., 1999, Geology, West Virginia University

### Licenses/Certifications

Professional Surveyor, West Virginia, 2007, 2153

OSHA 40-Hour HAZWOPER Certification, 1999

OSHA 10-Hour Safety Training, 2005

Certified Well Driller, West Virginia, 2002, WV00316

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Wayne County, West Virginia. Services included field surveying (boundary and topographic), courthouse research and assessment of the Title Commitment for the subject property.

**Structures Resources, Inc., Huntington, West Virginia.** *Structures Resources, Inc.* Project Surveyor. Mr. Smithson provided complete services for numerous ALTA/ACSM Surveys of various sites in Cabell, Putnam, Kanawha, and Wayne Counties in West Virginia. Services included field surveying (boundary and topographic), courthouse research and assessment of the Title Commitment for the subject property. Sites have included the following: Commerce Park, Cabell and Wayne Counties; The Hamlets, Cabell County; Lakeview Manor, Wayne County; Carriage Hill, Kanawha County; and Teays Commons, Putnam County.

**84 Lumber Inc., Elkview, West Virginia.** *84 Lumber Inc.* Project Manager/Surveyor. Mr. Smithson provided complete services for an ALTA/ACSM Survey of the Elkview 84 - Lumber site in Kanawha County, West Virginia. Services included field surveying (boundary and topographic), courthouse research and assessment of the Title Commitment for the subject property.

**Wood County Schools, Parkersburg and Williamstown, West Virginia.** Field Crew Supervisor. Responsible for providing complete boundary and topographic information for the upgrade of three Wood County High Schools. During this project Mr. Smithson was responsible for three survey field crews that incorporated the use of GPS and conventional survey methods.

**St. Mary's Hospital, Huntington, West Virginia.** *St. Mary's Hospital.* Field Supervisor. Responsible for collecting data for drainage improvement, parcel consolidation, and right-of-way abandonment. Mr. Smithson was responsible for three survey field crews that incorporated the use of GPS and conventional survey methods. Along with these responsibilities he also interacted with St. Mary's Hospital and the City of Huntington to satisfy the requirements and needs of both parties.

**Yeager Airport Runway Safety Area Upgrade, Charleston, West Virginia.** Geotechnical Geologist. Throughout this project Mr. Smithson was responsible for the geologic evaluation of the soil overburden and bedrock qualities along with coordinating drilling activities for the subsurface investigation.

**Grant County Airport Runway Extension, Grant County, West Virginia.** Geotechnical Geologist. Throughout this project Mr. Smithson was responsible for the geologic evaluation of the soil overburden and bedrock qualities along with coordinating drilling activities for the subsurface investigation.

**Tri-State Airport Runway Safety Area, Huntington, West Virginia.** Geotechnical Geologist. Throughout this project Mr. Smithson was responsible for the geologic evaluation of the soil overburden and bedrock qualities along with coordinating drilling activities for the subsurface investigation.

**Mine Safety and Health Administration - Martin County Coal, Slurry Impoundment Failure Investigation, Martin County, Kentucky.** Project Geologist. Mr. Smithson's duties included the coordination of drilling activities with multiple drilling crews supported by a team of engineers and geologists. He supervised and participated in the subsurface investigation logging activities, the creation of bedrock contour maps, report preparation, and analytical testing on samples extracted from the drilling efforts.

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# Joseph Crowder

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 11 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

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**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.

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**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.

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**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)

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## Part 9 – References

Each of the Project Profiles found in Part 7 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:

- City of Parsons  
341 Second Street  
Parsons, WV 26287  
Mr. Jason Myers, City Administrator  
(304) 478-2311
- West Virginia Department 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
- City of Charleston  
915 Quarrier Street, Suite 5  
Charleston, WV 25301-2607  
Mr. Chris Knox, City Engineer  
(304) 348-8106
- 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) 530-6142
- Harrison County Planning Commission  
301 West Main Street  
Clarksburg, WV 26301  
Ms. Terry Schulte, Director  
(304) 624-8690
- Habitat for Humanity of Kanawha & Putnam County ReStore  
815 Young Street  
Charleston, WV 25301  
Ms. Amy McLaughlin, Director  
(304) 720-0141
- West Virginia Army National Guard – Division of Engineering and Facilities  
1707 Coonskin Drive  
Charleston, WV 25311-1099  
Major Michael J. Beckner, Facilities Management Officer  
(304) 561-6333





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  
**PTR10011**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**FRANK WHITTAKER  
 304-558-2316**

RFQ COPY

TYPE NAME/ADDRESS HERE

**Baker**

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

SHIP TO

DIVISION OF PUBLIC TRANSIT  
 BUILDING 5, ROOM 906  
 1900 KANAWHA BOULEVARD, EAST  
 CHARLESTON, WV  
 25305-0432 304-558-0428

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/17/2009				

BID OPENING DATE: **10/07/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL  THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF PUBLIC TRANSIT IS SOLICITING EXPRESSIONS OF INTEREST FOR ARCHITECTURAL AND ENGINEERING SERVICES FOR THE CONSTRUCTION FO A LEED CERTIFIED PRE-ENGINEERED METAL AND BRICK CONSTRUCTION ADMINISTRATIVE OFFICE AND MANITENANCE FACILITY NEAR GRANTSVILLE, WV.  EXHIBIT 10  REQUISITION NO.: .....  ADDENDUM ACKNOWLEDGEMENT  I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO M PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.  ADDENDUM NO.'S: NO. 1 .....  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. NO. 2 .....						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Summit E. Hall</i>	TELEPHONE <b>(304)769-0821</b>	DATE <b>10/7/2009</b>
TITLE <b>Assistant V.P.</b>	FAX <b>251228638</b>	ADDRESS CHANGES TO BE NOTED ABOVE

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



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

# Request for Quotation

RFQ NUMBER  
**PTR10011**

PAGE  
**2**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**FRANK WHITTAKER  
 304-558-2316**

RFQ COPY

TYPE NAME/ADDRESS HERE

**Baker**

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

SHIP TO

DIVISION OF PUBLIC TRANSIT  
 BUILDING 5, ROOM 906  
 1900 KANAWHA BOULEVARD, EAST  
 CHARLESTON, WV  
 25305-0432 304-558-0428

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
09/17/2009				

BID OPENING DATE: **10/07/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
	NO. 3 .....					
	NO. 4 .....					
	NO. 5 .....					
<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <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: right;">             SIGNATURE  <b>Michael Baker Jr., Inc.</b>            COMPANY  <b>10/7/2009</b>            DATE         </p> <p>REV. 11/96</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         </p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS.

SIGNATURE 	TELEPHONE <b>(304)769-0821</b>	DATE <b>10/7/2009</b>
TITLE <b>Assistant V.P.</b>	FEN <b>251228638</b>	ADDRESS CHANGES TO BE NOTED ABOVE

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



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

# Request for Quotation

RFQ NUMBER  
**PTR10011**

PAGE  
**3**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**FRANK WHITTAKER  
 304-558-2316**

PROZIS

RFQ COPY  
 TYPE NAME/ADDRESS HERE

**Baker**

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

S P T O

DIVISION OF PUBLIC TRANSIT  
 BUILDING 5, ROOM 906  
 1900 KANAWHA BOULEVARD, EAST  
 CHARLESTON, WV  
 25305-0432 304-558-0428

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/17/2009				

BID OPENING DATE: **10/07/2009** BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				CHARLESTON, WV 25305-0130		
THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:  SEALED BID  BUYER: 44 RFQ. NO.: PTR10011 BID OPENING DATE: 10/07/09 BID OPENING TIME: 1:30 PM  PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: <b>(304) 769-0822</b> ----- CONTACT PERSON (PLEASE PRINT CLEARLY): <b>Ron L. Bolen, AIA</b> -----						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Russell E. Hall* TELEPHONE: **(304)769-0821** DATE: **10/7/2009**

TITLE: **Assistant V.P.** FEIN: **251228638**

ADDRESS CHANGES TO BE NOTED ABOVE

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

Buyer: FW-44 Page: \_\_\_\_\_ PO# PTR10011  
Spending Unit: Division of Public Transit  
Department of Transportation

**BID FORM # 1: Letter of Intent**

Name of Bidder/Offeror's firm: **Michael Baker Jr., Inc.**

Address: **5088 West Washington Street**

City: **St. Albans** State: **WV** Zip Code: **25313**

Name of DBE firm: **Novel Geo-Environmental, PLLC**

Address: **806 B Street**

City: **St. Albans** State: **WV** Zip Code: **25177**

Telephone: **304.201.5180**

Description of work to be performed by the DBE firm:

**Subsurface Investigation, drilling, laboratory testing,  
construction QA testing**

By: *Sumell E. Hall* **Assistant Vice President**  
(Signature) (Title)

If the Bidder/Offeror does not receive award of the prime contract, any and all representations in this Letter of Intent and Affirmation shall be null and void.

(Submit this page for each DBE subcontractor.)

Buyer: FW-44 Page: \_\_\_\_\_ PO# PTR10011  
Spending Unit: Division of Public Transit  
Department of Transportation

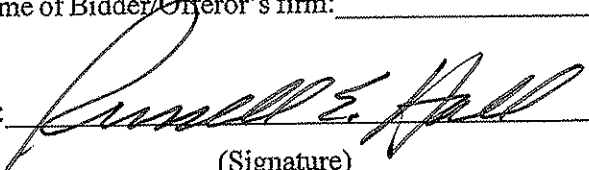
**BID FORM #2: DISADVANTAGED BUSINESS ENTERPRISE (DBE)  
UTILIZATION**

The undersigned Bidder/Offeror has satisfied the requirements of the bid specification in the following manner (please check the appropriate space):

The Bidder/Offeror is committed to a minimum of 5.3% DBE utilization on this contract.

The Bidder/Offeror (if unable to meet the DBE goal of 5.3%) is committed to a minimum of 5.3% DBE utilization of this contract and submits documentation demonstrating good faith efforts.

Name of Bidder/Offeror's firm: Michael Baker Jr., Inc.

By:  Assistant Vice President  
(Signature) (Title)

**BID FORM#3**

**Michael Baker Jr., Inc.** \_\_\_\_\_ hereby certifies that it IS or IS NOT (specify one) included on the U.S. Comptroller General's Consolidated List of Persons or Firms Currently Debarred for violations of Various Public Contracts Incorporating Labor Standards Provisions.

**10/7/2009**

Date

Authorized Signature

**Assistant Vice President**

Title

**Michael Baker Jr., Inc.**

Company Name

**BID FORM #4**

**CERTIFICATION OF PRIMARY PARTICIPANT REGARDING  
DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS**

The Primary Participant (applicant for an FTA grant or cooperative agreement, or potential contractor for a major third party contract),

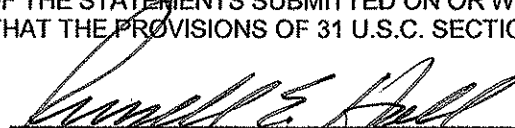
**Michael Baker Jr., Inc.** \_\_\_\_\_ (COMPANY NAME) certifies to the best of its knowledge and belief, that it and its principals:

1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
2. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
3. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (2) of this certification; and
4. Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

(If the primary participant (applicant for an FTA grant, or cooperative agreement, or potential third party contractor) is unable to certify to any of the statements in this certification, the participant shall attach an explanation to this certification.)

THE PRIMARY PARTICIPANT (APPLICANT FOR AN FTA GRANT OR COOPERATIVE AGREEMENT, OR POTENTIAL CONTRACTOR FOR A MAJOR THIRD PARTY CONTRACT),

**Russell E. Hall, P.E., P.S.** \_\_\_\_\_, CERTIFIES OR AFFIRMS THE TRUTHFULNESS AND ACCURACY OF THE CONTENTS OF THE STATEMENTS SUBMITTED ON OR WITH THIS CERTIFICATION AND UNDERSTANDS THAT THE PROVISIONS OF 31 U.S.C. SECTIONS 3801 ET SEQ. ARE APPLICABLE THERETO.

  
\_\_\_\_\_  
Signature and Title of Authorized Official

**Assistant Vice President**

**BID FORM #5**

**CERTIFICATION OF RESTRICTIONS ON LOBBYING**

The undersigned (Vendor, Contractor) certifies, to the best of his or her knowledge and belief, that:

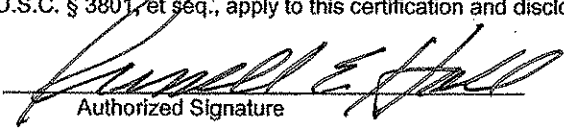
1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions. [as amended by "Government Wide Guidance for New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96). Note: Language in paragraph (2) herein has been modified in accordance with Section 10 of the Lobbying Disclosure Act of 1995 (P.L. 104-65, to be codified at 2 U.S.C. 1601, et seq.)]
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure. [Note: Pursuant to 31 U.S.C. § 1352(c)(1)-(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such expenditure or failure.]

The Vendor, **Michael Baker Jr., Inc.**, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Vendor understands and agrees that the provisions of 31 U.S.C. § 3801, et seq., apply to this certification and disclosure, if any.

10/7/2009

Date

  
Authorized Signature

**Assistant Vice President**

Title



**BID FORM#6**

RFQ No. **PTR10011**

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.

**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, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, 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.

**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. Vendors should visit [www.state.wv.us/admin/purchase/privacy](http://www.state.wv.us/admin/purchase/privacy) for the Notice of Agency Confidentiality Policies.

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

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

Authorized Signature:  Date: 10/7/2009