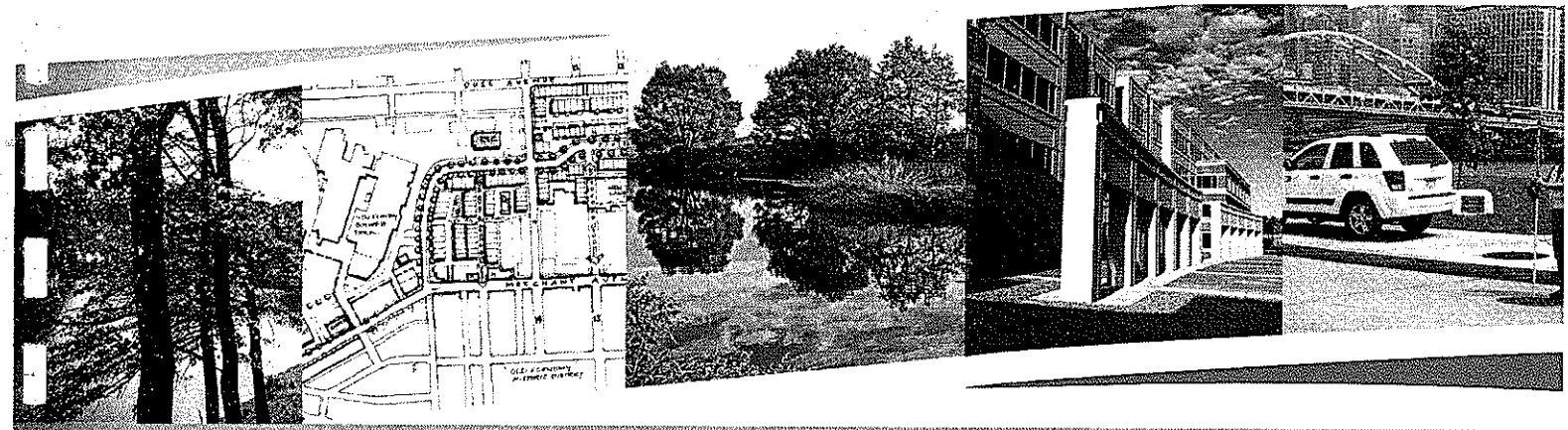


Expression of Interest to provide

Architectural/Engineering Services
Various Projects for the 2000-2010 CEFP

Cedar Lakes Educational Complex
Jackson County, West Virginia
RFQ No. EDD345321

Ms. Shelly Murray
State of W.V. Department of Administration
Purchasing Division
2019 Washington Street, East
Charleston, West Virginia 25305-0130

Submitted by:

Michael Baker Jr., Inc.
3606 Washington Street, West
Charleston, West Virginia 25313

Baker

February 3, 2011

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

5088 West Washington Street
Second Floor
Charleston, WV 25313

304.769.0821 Phone
304.769.0822 Fax

February 3, 2011

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

RE: Expression of Interest to Provide Architectural / Engineering Services
EDD345321 – Various Projects, 2000-2010 CEFP
Cedar Lakes Educational Complex, Jackson County, West Virginia

Dear Ms. Murray:

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

Baker is a full-service consulting firm of some 2,900 members in over 80 office locations and vast experience with all phases of planning and facilities design. We propose to manage this assignment from our Charleston office which employs over 35 individuals including architects, structural engineers, MEP engineers, interior designers, landscape architects, planners, surveyors, environmental specialists, and technicians to meet any need of the Cedar Lakes Educational Complex.

We feel that our combination of diverse facilities expertise, regional experience, close proximity and full-service capabilities is unique to Baker and will provide efficient, timely, personal, cost effective, and quality solutions for the West Virginia Department of Education.

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

Very truly yours,

Michael Baker Jr., Inc.

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

Enclosure

Table of Contents

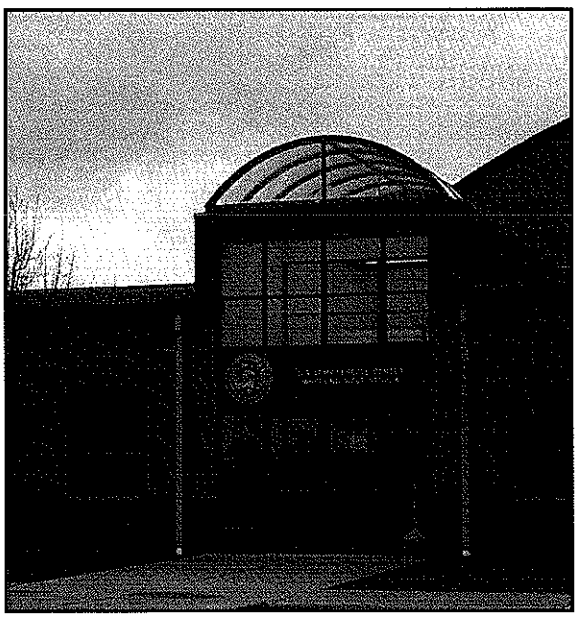
Part 1 – Introduction

The West Virginia Department of Education is seeking a highly qualified firm experienced in program management, planning, design, and construction administration to provide A/E services for various projects contained within the 2000-2010 CEFP at the Cedar Lakes Educational Complex in Jackson County, WV. Michael Baker Jr., Inc. (Baker) is a highly qualified firm with extensive experience in providing these services, and we are extremely interested in establishing a professional relationship with the West Virginia Department of Education (WVDE).

". . . we are extremely interested in establishing a professional relationship with the WVDE."

Corporate Capabilities

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



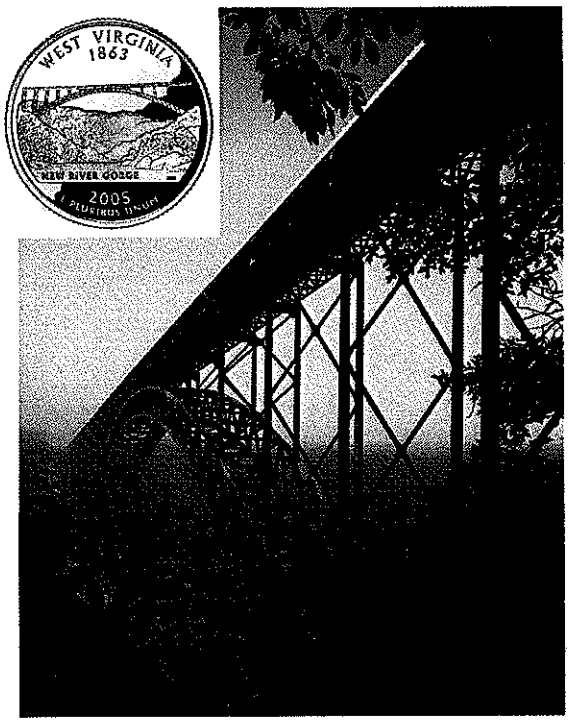
Design/Build of U.S. Army Reserve Training and Maintenance Center, Wheeling, WV

Baker has extensive resources and the required qualifications to provide planning and design services for the WVDE 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 have an established record of delivering quality work products to our clients, on schedule and within budget.

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

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



Baker's New River Gorge Bridge

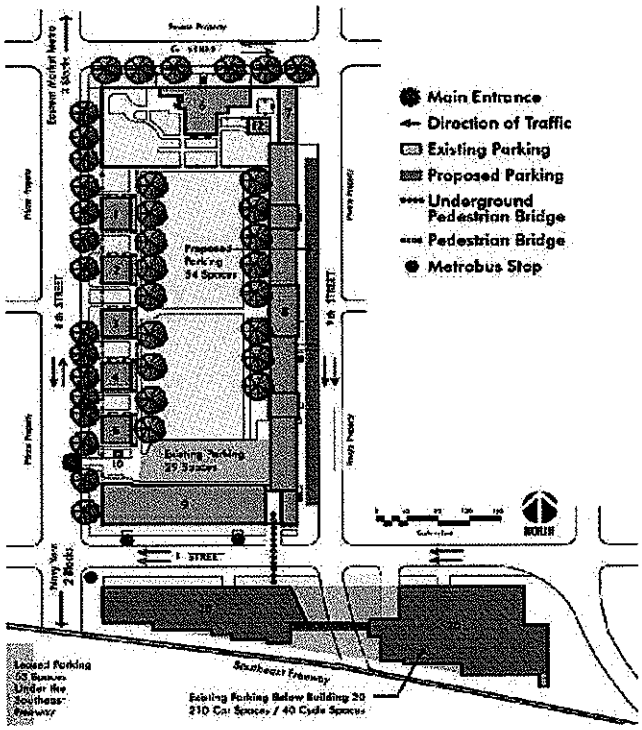
Baker's Charleston office is a "single-stop resource" capable of providing comprehensive professional services, from environmental planning, final design, and construction management through operational support. From major new building facilities, bridges and roadway designs to surface mine permitting,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

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

Part 2 – Qualifications

Baker routinely provides architectural/engineering services and project management for the design of new facilities, facility renovations and site planning for future facilities, and the associated construction oversight when required. Project assignments have included educational facilities, 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, interior design, landscaping, retainage structures, access road design, parking, security, utility adjustment/relocation, storm drainage, water, and sewer connections, site planning, fire protection design, pump stations, electrical duct banks, gas mains, fiber optic communication systems, and corrosion control systems, HVAC design, oil/water separators, and signage systems.

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



Naval Facilities Planning, Chesapeake, Virginia

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

Part 3 – Technical Expertise

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

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

Preliminary Planning and Costs

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

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

Plans and Specifications Preparation

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

Cedar Lakes Assembly Hall

requirements.

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

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

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

Construction Administrative Services

Baker is well equipped to provide the administration and inspection of construction projects. Pre-Construction and regular job-site meetings, as well as shop drawing review, requests for information, pay requests and all other construction-related correspondence will be the responsibility of the Project Manager. Resident inspection ("Clerk of the Works") services will be conducted by Baker technicians or staff professionals trained in construction practices and certified, as required, for the particular type of installation (i.e. structural steel erection, HVAC installation, 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.

Rear view of Assembly Hall

Power Service Entrance

Outdoor HVAC Units

Part 4 – Management and Staffing Capabilities

The management approach for all assignments 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 architectural, engineering and planning staff. Baker's proposed team of experienced professionals has demonstrated the ability to deliver quality work products to our clients, on-time and within budget. Baker will coordinate the entire depth of services necessary to complete assignments under this contract. We will engage the services of two subconsultants for specialized elements. **NGE, PLLC**, a St. Albans based WBE firm will provide drilling services when required and **DeJong-Richter**, a nationally recognized educational planning firm will be available to support the planning functions as necessary. Members of our firms have successfully collaborated on numerous assignments in the past.

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.

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

Project Manager, **Patrick W. Fogarty, PE, PS, (Structural Engineer),** is our Proposed Project Manager. Mr. Fogarty has over 26 years of experience with civil engineering projects of various size and levels of complexity. Mr. Fogarty will provide the necessary structural analysis and ensure that quality deliverables are submitted according to project schedule and within budget. He is currently managing a similar on-call contract at the West Virginia State University campus.

Quality Assurance Officer, **David Pecharka, AIA, LEED AP,** will provide independent technical reviews of all architectural related planning and design work. Mr. Pecharka has over26 years of diverse experience including educational, institutional, commercial, housing, military, transportation, recreational, health care and religious facilities.

Quality Assurance Officer, **Ronald M. Schirato, PE, LEED AP,** will provide QA/QC support for the contract. Mr. Schirato has over 14 years of diverse civil engineering experience including master planning and site development of educational, commercial, military and transportation facilities.

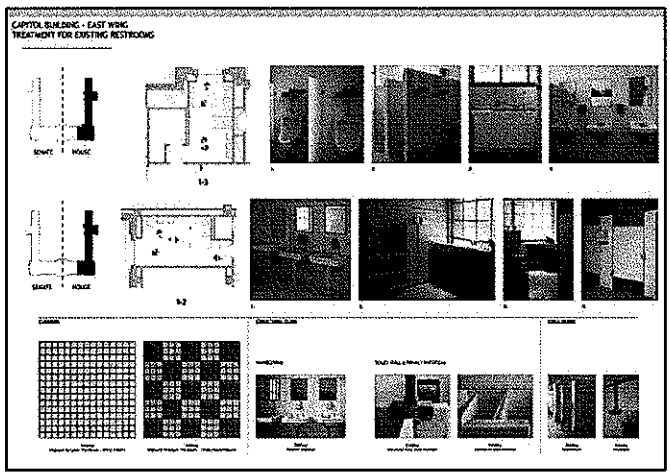
WV Army Guard HVAC Renovations

Architect, **Ron L. Bolen, AIA, LEED Green Associate,** will provide architectural design services for the contract. Mr. Bolen brings over 36 years of diverse experience to the team including numerous educational projects for boards of education across the State of West Virginia.

Interior Designer, **Alana S. Pulay, RID, LEED AP,** will provide space planning and interior design services. Ms. Pulay has provided these services for educational, military, commercial, and residential clients for the past 8 years.

Mechanical Engineer, **Craig W. West, PE, LEED AP,** will coordinate the mechanical planning and design effort for the contract. Mr. West has over 25 years of experience in HVAC, controls, fire protection and plumbing.

Electrical Engineer, **Owen Milligan, PE, LEED AP,** will provide electrical design services. His expertise includes lighting, power distribution and control systems and emergency power systems. Mr. Milligan has over 22 years of experience in planning, design and management.



WV State Capitol Restroom Renovations

Mechanical/Plumbing Design, David J. Hilliard, EI, LEED Green Associate, will provide HVAC and plumbing design services. Mr. Hilliard has over 20 years of design experience in educational, commercial, military and health care facilities.

Structural Engineer, Nicole M. Stoudt, PE, will provide structural analysis and design services. Ms. Stoudt has over 12 years of diverse design experience in educational, commercial, military and aviation facilities.

Landscape Architect, R. Todd Schoolcraft, PLA, ASLA, will provide site planning and design support. Mr. Schoolcraft has over 19 years of experience in facilities planning and design. He will be responsible for coordinating the preparation of all site-civil and landscaping related plans and documents for the contract. His experience includes numerous educational facilities, as well as commercial and military installations.

Site Planning, Laura L. Cox, PLA, LEED Green Associate, will also provide site planning and design support for the contract. Ms. Cox has over 28 years of experience in the fields of land planning and landscape architecture and has provided these services on numerous educational projects throughout the state.

Baker GPS Surveying

Civil Engineer, Daniel Fint, PE. Mr. Fint has over 11 years of experience in all aspects of site development, utilities design and roadway/highway design. Mr. Fint will support the site design and plan preparation functions for the contract.

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

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

Construction Services, John W. Dawson, PE, PS, will coordinate the inspection and administration of construction projects. Mr. Dawson has over 38 years of construction management related to transportation, site preparation and facilities projects.

CEFP Planner, Carolyn Staskiewicz, REFP, will provide planning consultation services for the contract. Ms. Staskiewicz has been involved in a multitude of educational planning efforts across the nation for over 12 years. This experience has included facility assessments, needs assessments and master planning ranging from individual educational facilities to statewide school building authorities.

Drilling Services, Larry C. Nottingham, PhD, PE, will coordinate the drilling and subsurface investigations for the contract. Dr. Nottingham's geotechnical experience spans 44 years and includes site development, building facilities, roads, bridges, impoundments, and coal mines throughout the state of West Virginia.

Baker Construction Monitoring

Part 5 – Project Outline

Technical Approach

Pre-Design Planning

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

Preliminary Plans and Costs

Once all programming data has been acquired, we will work with the WVDE to develop conceptual layouts for the proposed development.

Interior of Cedar Lakes Assembly Hall

Baker proposes to prepare preliminary plans, plan and profile sheets, floor plans, elevations and schematic details with supporting documentation. This document will describe the individual elements required for the engineering, public safety, environmental and traffic issues associated with the proposed improvements.

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

Design Development Documents

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

Plan and Specification Preparation

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

created from our Master Spec Library and tailored to meet individual project requirements.

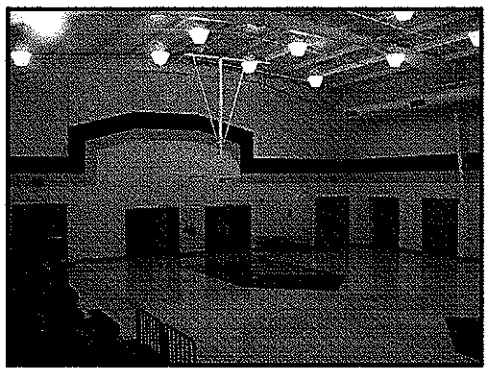
Baker generally makes use of E.J.C.D.C. and/or A.I.A. bidding and contracting documents, as normally dictated by the funding agencies. Blank copies of these forms are included in the Project Manual and made available to all plan holders during the bidding process to minimize the risk of confusion or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

Project Bid Evaluation

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

Construction Administration and Inspection

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



Example of Educational Facility Gymnasium

Project Closeout

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

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

Part 6 – Related Prior Experience

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

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

Mr. Patrick Fogarty, our proposed Project Manager, has provided program management services on architectural/engineering projects in West Virginia for the past 26 years. His experience includes educational facilities as well as military, municipal, commercial, and industrial facilities with elements similar to those which will be required for this project.

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

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

Miscellaneous Studies and Designs for Domestic Dependent Elementary & Secondary Schools

Fort Bragg, North Carolina

Miscellaneous studies were prepared to assist in prioritizing projects at schools that support Fort Bragg. Representatives from Baker (prime), Parkhill, Smith, and Cooper, Inc. (subconsultant), Fort Worth District USACE, Department of Defense Domestic Dependent Elementary and Secondary Schools (DDESS), and Fort Bragg schools met to prioritize projects at the schools. Design analyses, cost estimates, and analyses of comparable design solutions, and building code evaluations were prepared for the following projects. Due to the historic nature of the property, the work required approval by the State Historic Preservation Office, as well as coordination with the Academy's Master Plan.

Client
DDESS - Domestic Dependent Elementary and Secondary Schools
700 Westpark Drive, Third Floor
Peachtree City, GA 30269

Mike Chaney
Chief, Facilities Branch - DDESS
678-364-8035

Completion Date
Estimated: 2006
Actual: 2003

Baker's Role

- Studies
- Condition Assessments
- Architecture
- Mechanical Engineering
- Electrical Engineering
- Structural Engineering
- Civil Engineering
- Geotech Engineering
- Transportation Engineering

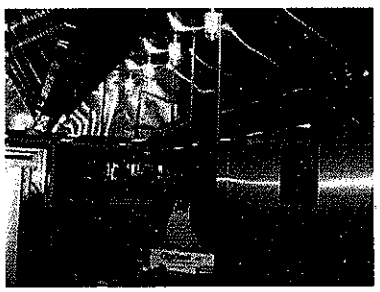
- **Roof Replacement and Flooring at Bowley Elementary - $700,000 Est. Const.** The existing roof consisted of flat areas of a "reversed" roofing system (IRMA), with membrane under the insulation and concrete pavers. Sloped areas of the roof were covered with asphalt shingles. There were known leaks and water damage inside the building, but because of the type of roofing system on the flat areas, the sources of the leaks could not be found and repaired. It was recommended that the entire 80,000 square foot roof system be replaced. The shingled sloped areas were to be replaced with a metal roofing system, and the flat roof areas were to be replaced with a fully adhered membrane roofing system. Roof access ladders and hatches should be added for maintenance access. Gutters, fascia, and soffit areas were damaged and in poor condition and in need of replacement with materials compatible with the new roofing system. Exterior doors, door frames, and window frames were to be cleaned and repainted. As a result of the leaks, interior work included replacement of carpeted classroom areas with vinyl tile.

- **HVAC and Controls Systems Upgrade at Bowley Elementary - $1,300,000 Est. Const.** Installed in the early 1980s, the existing HVAC system utilized water source heat pumps for cooling and heating. While individual HVAC units were not causing considerable maintenance problems, adequate coordination between heat pumps, the boiler, the cooling tower, and associated pumping systems were not provided. Make-up air requirements of ASHRAE Standard 62-1999 were not being met, making it difficult to achieve an acceptable indoor air quality. Recommendations were made for a DDC system compatible with other Johnson Control systems recently installed. New make-up air systems capable of providing tempered air at below 50% relative humidity should also be added. It was recommended that the feasibility of converting the existing fuel oil fired boiler to natural gas should also be evaluated.

- **Improve Stormwater Drainage Issues at Devers School - $350,000 Est. Const.** Stormwater drainage away from the building is very poor. Water ponds and infiltrates back into the building; roof gutters and downspouts are non-existent; and the ground at the building is nearly flat and slopes into the structure. Recommendations were made to install a full perimeter roof drainage collection system and a new below-grade drainage system around the building perimeter. Regrading and turfing around the building would provide positive drainage away from the structure into area drains including underground piping that ties into the existing storm water system. Special permitting may be required due to increased runoff into the existing stormwater system. Carpeting in the perimeter rooms would also need replaced.

- **HVAC Rehabilitation at Devers Elementary School - $1,000,000 Est. Const.** Built in 1994, the 65,000 square foot Devers Elementary School is served by a hydronic heat pump system that utilizes hot water from a boiler system for heating, and uses DX cooling with air-cooled condensers. Fresh air is supplied to the individual heat pumps by a central fresh air make-up fan. An indoor air quality report determined that the air inside Devers didn't meet the requirements of ASHRAE Standard 62-1999. It was recommended that a chilled water coil be installed up-stream of each fresh air in-take fan. The air would then be reheated to approximately 70 degrees F before entering the make-up air fan, allowing the fresh air fan to serve the individual heat pumps with tempered air that is at or below 50% relative humidity. The proposed system will help to filter out contaminants, and the new equipment will tie into the existing DDC systm to help monitor the air quality.

- **HVAC Replacement at Irwin Middle School - $2,400,000 Est. Const.** A new HVAC system is critically needed at this facility. It was recommended that the new system would use a central chiller, fan coil units, heat recovery and make-up air units, which reduce the relative humidity to below 50%. The existing boilers, pumps, and DDC system could be used if expanded to include new equipment and room temperature monitoring. The boilers had already been replaced, and a new DDC system added for the boiler room equipment only. The existing HVAC system, conditioning approximately 80,000 square feet, used fan coil units, a few air-handlers and unit ventilators having hot water coils for space heating, and DX coils for cooling. Air-cooled condensers serving individual unit ventilators were installed on the exterior of classrooms. This system created a significant maintenance problem due to unit failures and unavailability of parts, and was unable to reduce moisture levels in the facility to eliminate mold growth, causing significant concern over indoor air quality.



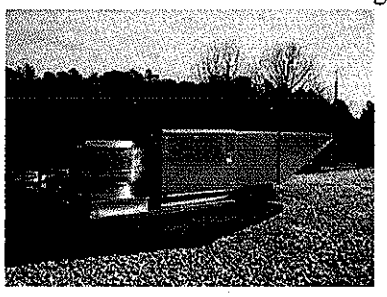
- **HVAC Replacement at Murray Elementary School - $1,500,000 Est. Const.** Approximately 50,000 square feet of space was being conditioned by a few air handlers and unit ventilators having hot water coils for space heating and DX coils for cooling. Air cooled condensers, which serve individual unit ventilators, are installed on the exterior of classrooms. Hot water heating and domestic hot water boilers were replaced because the existing units were in dangerous condition. A new DDC system was added for boiler room equipment only. As designed, control of indoor air quality was virtually impossible due to an excessive amount of moist outside air that was being introduced. Even though ASHRAE 62-1999 standards were being met, the system was unable to reduce moisture levels in the facility, as required, to eliminate black mold growth. A new HVAC system utilizing existing boilers and pumps, a new central chiller, fan coil units and a heat recovery/dehumidification system was recommended. The existing boiler room DDC system could be expanded to include new equipment and room temperature monitoring.

- **Kitchen Area Renovations at Butner Elementary School, Fort Bragg, NC - $350,000 Est. Const.** Remove existing built-in walk-in refrigerator and adjacent existing office (10'x 10'), to make way for a new larger kitchen office. The project will also inculde repairs to adjacent glazed masonry walls and the removal of asbestos-containing materials in the insulation surrounding the existing refrigerator enclosure.
- **HVAC Replacement at Butner Elementary School - $1,000,000 Est. Const.** Moisture levels within the facility are causing mold growth because the current HVAC system is unable to remove adequate moisture from the air as it is currently designed, creating significant maintenance problems. It is recommended that a new HVAC system is installed that utilizes existing boilers and pumps, and expands the existing boiler room DDC. Other architectural, electrical, mechanical, plumbing, and structural work would be required on an as-needed basis.

- **HVAC Replacement at Pope AFB Elementary School - $2,000,000 Est. Const.** The school includes approximately 43,000 square feet of conditioned space. The HVAC system is made up of package terminal unit ventilators with heat pump technology, with electric strip back-up heat. Except for the natural gas water heater installed in the late 1990s, the school uses a total electric system that is inefficient and requires significant maintenance. Control of indoor air quality is virtually impossible due to the amount of moist outside air being introduced. The system is unable to reduce moisture levels in the facility, as required to eliminate mold growth. A new four-pipe hydronic HVAC system utilizing a new chiller, fan coil units, natural gas boilers, DDC, and heat recovery/dehumidification system was recommended. The school will require a mechanical/electrical room addition to support the new system.

- **Relocate Refrigeration at McNair Elementary School - $250,000 Est. Const.** The existing built-in walk-in refrigerator was no longer in use. The project consisted of converting the existing refrigerator into a storage room and building a new walk-in refigerator within an existing exterior storage room. The existing refrigerator floor, assumed to consist of asbestos-containing materials, was to be demolished and rebuilt, the walls and ceiling cleaned and painted, and the existing insulated door system replaced with a new interior type metal door and frame. This room would then be used for storage. Replacement of the structural floor system replacement in the area of the existing refrigerator was anticipated.

- **HVAC Replacement at McNair Elementary School - $1,600,000 Est. Const.** Approximately 55,000 square feet of space was being conditioned by a few air handlers and unit ventilators having hot water coils for space heating and DX coils for cooling. Air cooled condensers, which serve individual unit ventilators, are installed on the exterior of classrooms. Hot water heating and domestic hot water boilers were replaced because the existing units were in dangerous condition. A new DDC system was added for boiler room equipment only. As designed, control of indoor air quality was virtually impossible due to an excessive amount of moist outside air that was being introduced. Even though ASHRAE 62-1999 standards were being met, the system was unable to reduce moisture levels in the facility. A new HVAC system utilizing existing boilers and pumps, a new central chiller, fan coil units and a heat recovery/dehumidification system was recommended. The existing boiler room DDC system could be expanded to include new equipment and room temperature monitoring.



- **HVAC Replacement at Holbrook Elementary School - $1,600,000 Est. Const.** A new HVAC system for the complete facility was recommended, utilizing existing boilers and pumps, new central chiller, fan coil units, and make-up air/dehumidification units. The existing boiler room DDC system

could be expanded to include new equipment and room temperature monitoring. The existing HVAC system conditioned approximately 54,000 square feet. Hot water heating and domestic hot water boilers had been replaced and a new DDC system added for the boiler room equipment only. The existing system used fan coil units, a few air-handlers, and unit ventilators having hot water coils for space heating and DX coils for cooling. Air-cooled condensers serving individual unit ventilators were installed on the exterior of classrooms. The system was unable to remove moisture from the outside air as required by ASHRAE 62-1999, causing mold growth and indoor air quality issues in the classrooms. Maintenance requirements were continuing to escalate due to unit failures and the unavailability of parts.

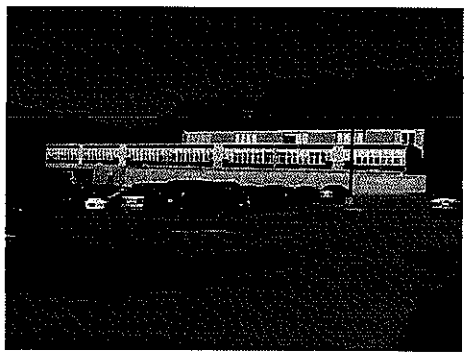
Classroom Additions and Renovations

U.S. Military Academy, West Point, New York

West Point Academy's roots extend back to the American Revolution and 1779, when George Washington made the site his Headquarters. West Point has since established itself as the oldest continuously occupied military post in America. Today, the facility supports a large military and academic community, as well as their dependents. To keep the schools that support this vibrant community's young students in top shape, Baker performed services for a variety of projects.

Science classrooms were renovated at the Middle School. The existing roofing was replaced, and water damage to ceilings, walls, and exterior brick and stone work repaired. A new 7,500-square-foot, six-classroom addition was also completed for the Elementary School. Due to the historic nature of the property, the work required approval by the New York State Historic Preservation Office, as well as coordination with the Military Academy's Master Plan. Anti-terrorism/force protection design features included the addition of a parking lot with the appropriate building set-backs to meet the Corps design standards.

Baker completed field investigations, conducted a design charrette with all project stakeholders, and prepared design and construction documents, conceptual rendering, value engineering, and designated construction phase services for the 7,500-square-foot classroom addition to Elementary School Building 705-A.



Client
DDESS - Domestic Dependent Elementary and Secondary Schools
700 Westpark Drive, Third Floor
Peachtree City, GA 30269

Mike Chaney
Chief, Facilities Branch - DDESS
678-364-8035

Completion Date
Estimated: 2003
Actual: 2004

Project Costs
$3,489,000 (Est. Construction)

Baker's Role

- Studies
- Design Charrette
- Condition Assessments
- Architecture
- Anti-terrorism/Force Protection Design
- Civil Engineering
- Electrical Engineering
- Structural Engineering
- Mechanical Engineering
- Plumbing and Fire Protection
- MCACES Cost Estimating
- New York SHPO Approvals

Project Features

- New York State Historic Preservation Office (NY SHPO) Approvals
- Design Charrette
- Anti-terrorism/Force Protection Design

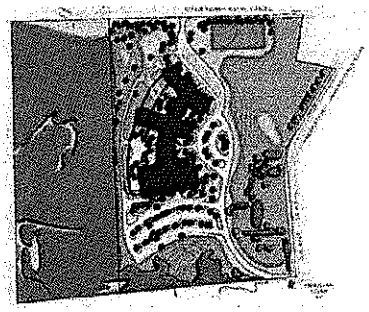
Pine-Richland Upper Elementary School

Richland Township, Pennsylvania

Baker was retained by the Pine-Richland School District to perform the design of the Eden Hall Upper Elementary School building. The site is located in Richland Township, Allegheny County, Pennsylvania. The Upper Elementary School includes grades 4 through 6 and was designed to harmoniously blend in with the existing surroundings to create an on-site, outdoor science lab environment. The storm-water management pond was designed as a "wet" pond to facilitate the growth of wetland vegetation and small aquatic animals.

This project included the preparation of an Existing Conditions Plan, Site Plan, Horizontal Control Plan, Grading and Storm Drainage Plan, Utility and Paving Plan, Soil Erosion and Sedimentation Control Plan, written Technical Specifications and other miscellaneous Bid Documents as required for both approvals and construction. Baker also completed the PennDOT road widening and traffic signalization for the access driveway.

Baker coordinated with the Developer throughout the construction phase, responding to "Requests for Information," performing site inspections, and providing general engineering support until the project's completion.



Client
Pine-Richland School District
702 Warrendale Road
Gibsonia, PA 15044-9534

James C. Manley
724-625-7773

Completion Date
2008

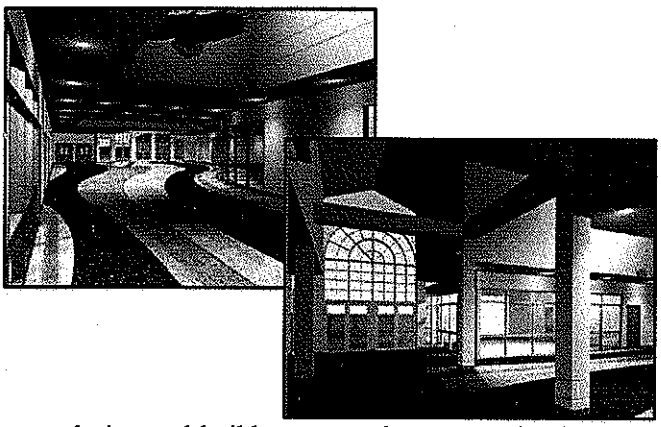
Baker's Role

- Site/Civil Engineering
- Construction Plans and Specifications
- Utility Design and Coordination
- Site Lighting
- Soil Erosion and Sedimentation Control
- Surveying and Mapping
- Coordination and Permitting with Governmental Agencies
- Traffic Signalization Design

Fort Knox High School Design

Ft. Knox, Kentucky

This project was originally envisioned as a traditional design-bid-build project, and Baker completed construction documents for the project. Toward the end of the project, the Corps made the decision to instead procure construction using the design/build acquisition method. The challenge in this project



was to design and build a new replacement school to serve 520 students, while keeping portions of the existing facility in maximum usage during construction until the new facility is completed. Upon completion, the majority of the existing High School, except for the Vocational wing, will be demolished. Design of the new 93,682 square foot school responds to revised educational specifications, including input from the Principal and DODEA staff.

Client
DDESS - Domestic Dependent Elementary and Secondary Schools
700 Westpark Drive, Third Floor
Peachtree City, GA 30269

Mike Smiley
678-364-8069

Completion Date
Actual: 2007

Baker's Role

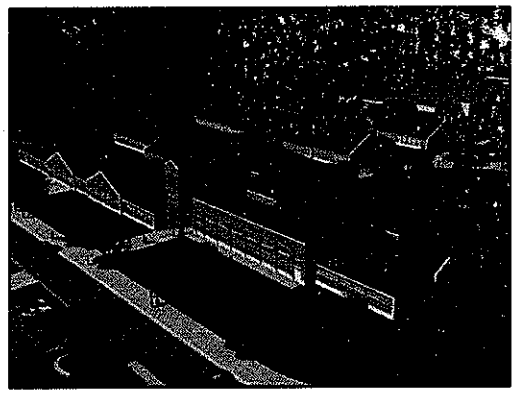
- Planning
- Architecture
- Landscape Architecture

The L-shaped plan creates a commons that serves as a focal point of the new facility and spatially links the various spaces of the high school and serves as a meeting place for students during classroom breaks. In addition, this configuration allows direct access from the new facility to the vocational technology wing and allows visual monitoring of school entrances, lobby, and commons from the administrative suite. The classrooms are strategically located so as to facilitate future expansion with minimum disruption to the new school, while controlled access to the main entry is located next to the new gymnasium so as to allow after hours use of the gymnasium.

The massing of the building clearly expresses the individual functions of the new high school by visually dividing the areas into a series of gabled facades, which clearly define the individual modules of the educational wing, while creating architectural details which are consistent with the rich existing aesthetic of the Fort Knox Post buildings, and echo the neo-Georgian and other Neo-classical styles of Post architecture. Several outside spaces connect to nearby indoor classrooms to engage students in utside educational and cultural activities. A critical planning component included development of a consolidated recreation complex. Plans and specifications, quantity

and cost estimates using M-CACES software, a proposed construction schedule, design analysis and calculations, and a design documentation report were developed for this project.

The building is sited with setbacks in response to Anti-Terrorism/Force Protection criteria, and the facility includes energy efficient lighting, automated HVAC and lighting systems controls, and a fire suppression sprinkling system throughout.



DC Public Schools Phase I

Washington, DC

Work on this contract included Architecture/Engineering Services for multi-disciplined alterations, renovations, maintenance and repair, and new construction projects for the military and other government agencies. The contract also included the design of several DC Public Schools and other educational facilities. Baker's role included Architecture, Planning, Interior Design, Landscape Architecture, Civil Engineering, and Environmental Engineering. This contract consisted of several task orders, including the following.

Ballou Senior High School - Radical changes occurred in the application of technology to research and education since construction of Ballou Senior High School in the 1960's. Through two renovation projects at the High School, modern information technologies are being made available to students and teachers at the school.

In the newly renovated 12,000 square foot science laboratories, data ports at every student station and lab bench provide access to the school's network and the internet. Lecture, bench laboratory, and computer functions are integrated into a single larger space so that students can move seamlessly between learning, hands-on research, and computer-based activities. The laboratories provide instruction space for physics, chemistry, biology, and the environmental sciences, as well as a small greenhouse space.

Client
U.S. Army Corps of Engineers,
Baltimore District
Planning Division
P.O. Box 1715
Baltimore, MD 21203-1715

Frank A. Cirinicione, P.E.
410-962-4170

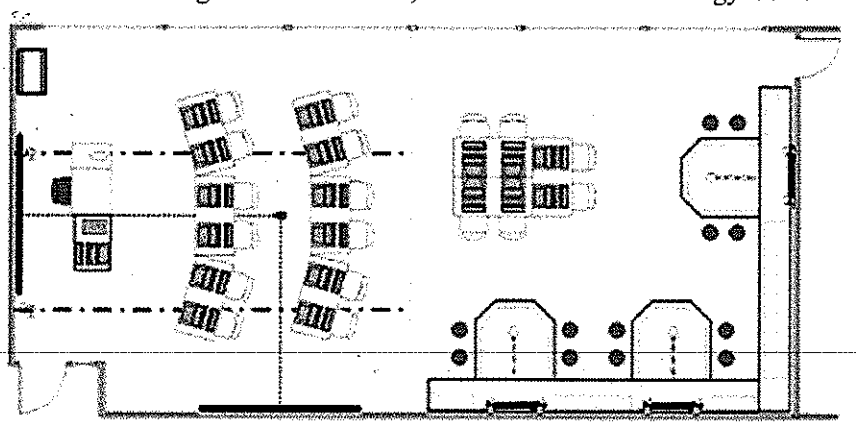
Completion Date
Estimated: 2007
Actual: 2005

Project Costs
$2,485,561 (Fee)

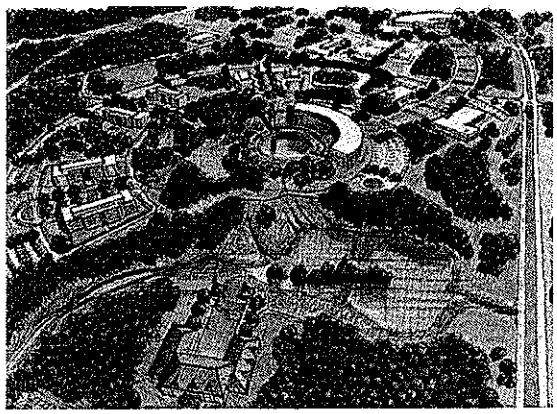
Baker's Role

- Planning
- Geographic Information Systems
- Civil Engineering
- Environmental Engineering

The 10,000 square foot Information Technology Center supports a broad-based curriculum coupled with a heavy emphasis on technology. In addition to training in the humanities, the Information Technology Center provides vocational training oriented to high technology industries, i.e., computer certifications, with the goal of ensuring highly qualified future employees to District of Columbia employers.



Aberdeen Proving Ground - Enhanced Use Leasing (EUL) - Baker established a process to implement recently enacted Enhanced Use Leasing (EUL) legislation (10 USC 2667) to leverage underutilized physical assets to create a revenue stream intended to enhance the missions of Aberdeen Proving Ground. Baker worked with stakeholders, and installation leadership to develop the opportunity; seek competitive proposals; refine, plan, market and implement selection strategy; and facilitate ways for private developers to participate in the benefits of the opportunities created by this new legislation, all while enhancing the quality-of-life and quality-of-work setting at APG for all.



West Virginia State Capitol Restrooms Renovation and Restoration Project

Charleston, West Virginia

The West Virginia Capitol Building was constructed in the 1930's following the vision of Cass Gilbert, one of America's most significant architects of the first half of the 20th century. The Capitol Building represent his most mature work, as it was conceived and executed towards the end of his career and life. This multi-phased project will include the renovation / restoration of thirty two existing restrooms, keeping them in the "spirit " of Cass Gilbert's original design, while at the same time rendering them compliant with both the latest building codes and ADA accessibility standards.

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

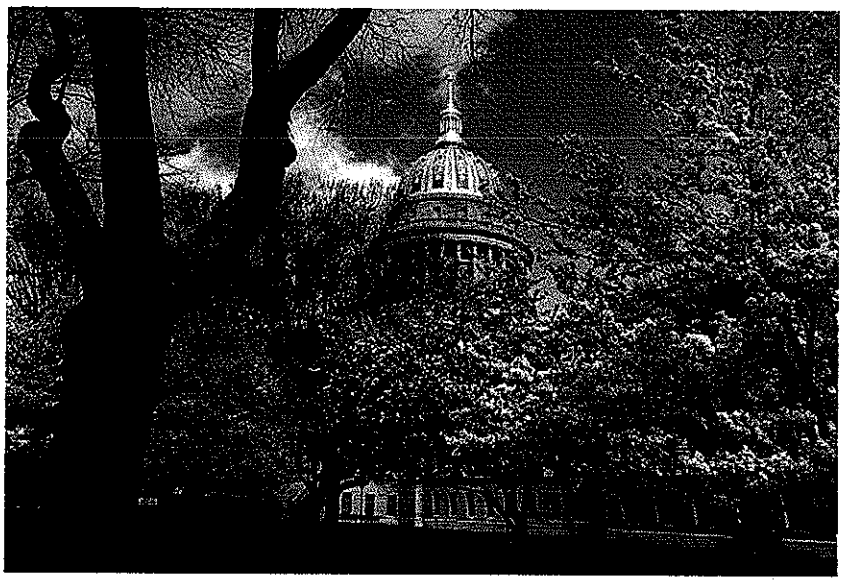
Mr. Robert Krause, AIA, PE
304-558-9018

Completion Date
Estimated: 2010

Baker's Role

- Planning
- Architectural Restoration
- Architectural Services
- Engineering Services
- HVAC Improvements
- Construction Administration

Baker's tasks include preparation of a planning study, schematic design, architectural and engineering design, preparation of construction documents and specifications, cost estimating, contract administration, and construction administration. Phase I of the project entails a Planning Study which will be inclusive of the renovation/restoration of three of the existing thirty-two restrooms in the historic West Virginia Capitol Building.

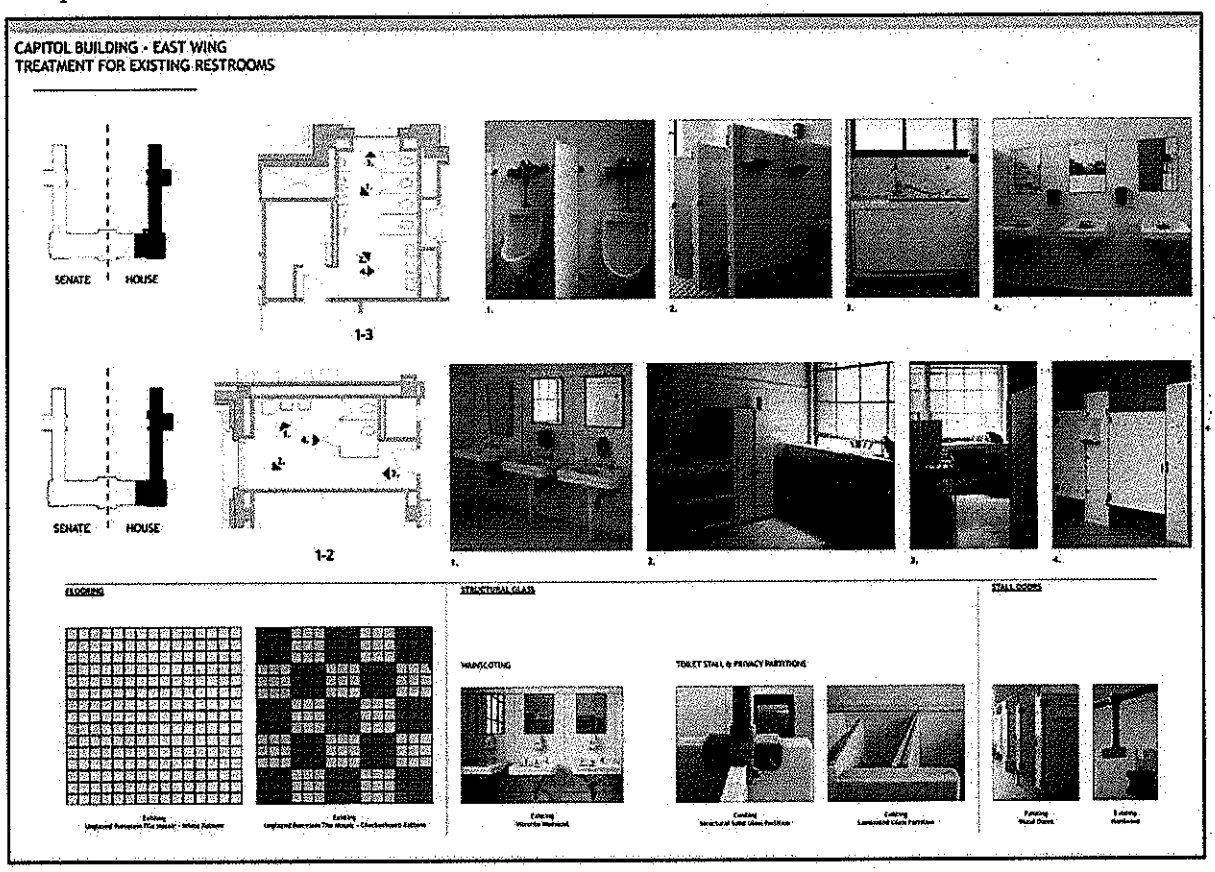


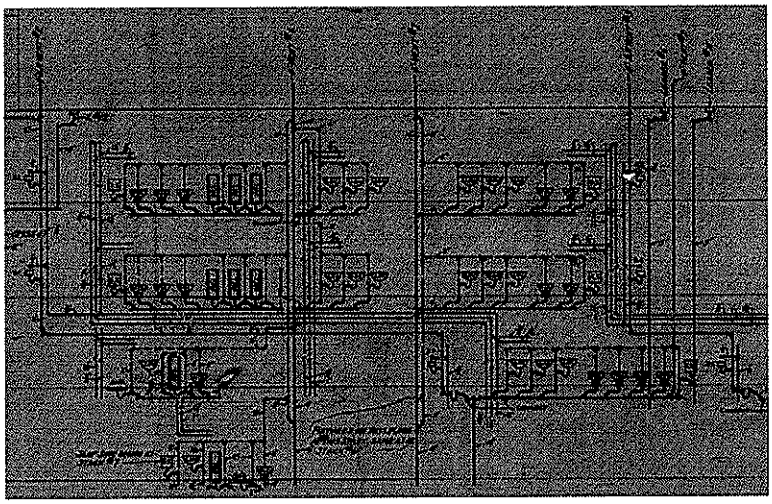
The Planning Study is intended to assess the existing facility and its conformance to current code requirements and code required capacities, compliance with ADA requirements, quantification of the building occupancy (during normal and peak periods) and an evaluation of existing gender distribution of restrooms within the Capitol.

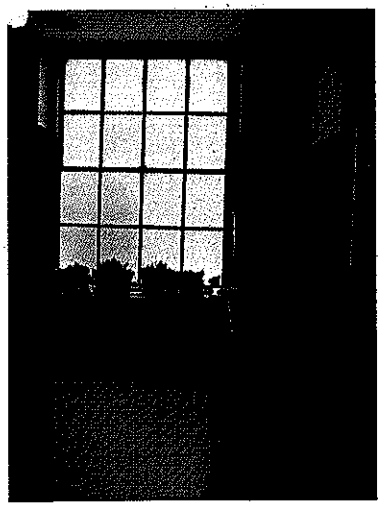
The Study will address in a more general manner the design framework for the renovation of

the selected restrooms, provide an overall project cost and propose a logical sequence of design, construction and schedule of implementation for the next three years.

The renovation/restoration of the three restrooms will include a short, combined, Schematic/Design Development Phase (5 weeks) followed by a (7 week) Construction Document Phase. We expect a four-month construction period within which we would expect this first phase of work to be completed.







Allen Hall HVAC Upgrade and Asbestos Abatement

West Virginia University, Morgantown, West Virginia

West Virginia University commissioned Baker to provide a full range of design services for this project, which involved extensive asbestos abatement and interior renovations, including an HVAC system upgrade. Service provided ranged from preliminary field investigations to construction administration services.

Client
West Virginia University
P.O. Box 6570
Morgantown, WV 26506

David G. Freese
Construction Manager
304-293-2876

Completion Date
Estimated: 2006
Actual: 2006

Project Costs
$7,000,000 (Construction)

Baker's Role
- Architecture
- Mechanical Engineering
- Plumbing Engineering
- Fire Protection
- Electrical Engineering

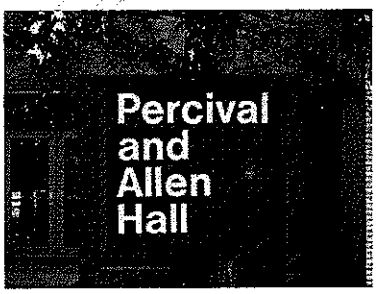
In the late 1960s, Allen Hall was constructed as a 104,885 GSF addition to Percival Hall. This task order provided for asbestos remediation of Allen Hall, including the removal of asbestos-containing fireproofing on structural steel and metal decking, fitting insulation on domestic water piping, and asbestos-containing floor tile and adhesive. The design also included the cleaning, removal, and/or encapsulation of asbestos-contaminated building components such as ceiling tile, non-asbestos containing pipe insulation, electrical floor duct banks, walls, floor surfacing materials, pipe chases, perimeter fan coil unit enclosures, and other building components. Hydronic heating and cooling piping and insulation serving the perimeter two-pipe fan coil units was replaced because it had deteriorated, due to condensation between the piping and the elastomeric insulation.

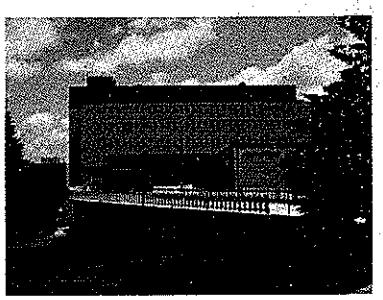
Site investigations were conducted to identify partition revisions required to the WVU-provided drawings of existing conditions, and to identify specific areas requiring special protection considerations during the remediation work. An Asbestos NESHAP (National Emissions Standards Hazardous Air Pollutants) report was prepared as required by the EPA. The university's drawings were updated to document existing conditions for general construction partitions, the sprinkler system, HVAC ductwork, and the fire alarm system. Baker prepared a Site Setup Plan as well as plans and specifications for asbestos abatement and building renovations that included ceiling/lighting restoration, sprinkler system extensions, hot and cold domestic water piping insulation replacement, hydronic heating/cooling pipe and insulation replacement.

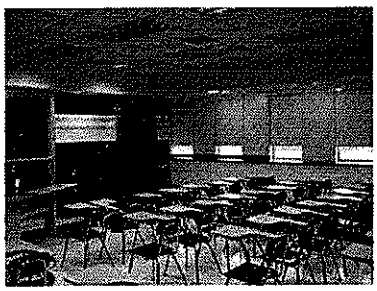
Baker's services also include development of contractor pre-qualification packages, design and construction schedules, construction cost estimates, bid and construction documents, shop drawings, final punchlist, and participation in bi-weekly construction meetings.

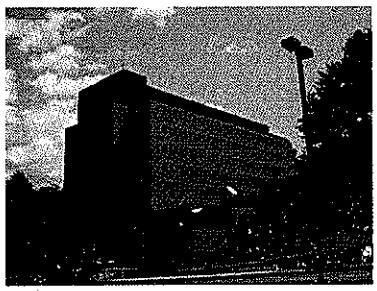
Project Features

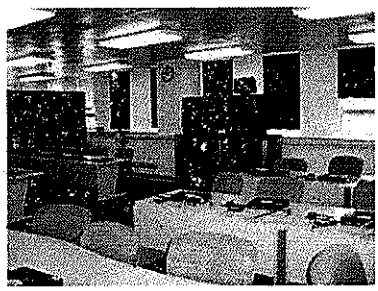
- Asbestos abatement, steel column and metal deck ACM fireproofing and ACM-contaminated materials, pipe chases, and equipment/building components
- New flooring, ceilings, lighting systems
- Pipe and pipe insulation replacement
- New automatic temperature control system











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 20th 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.

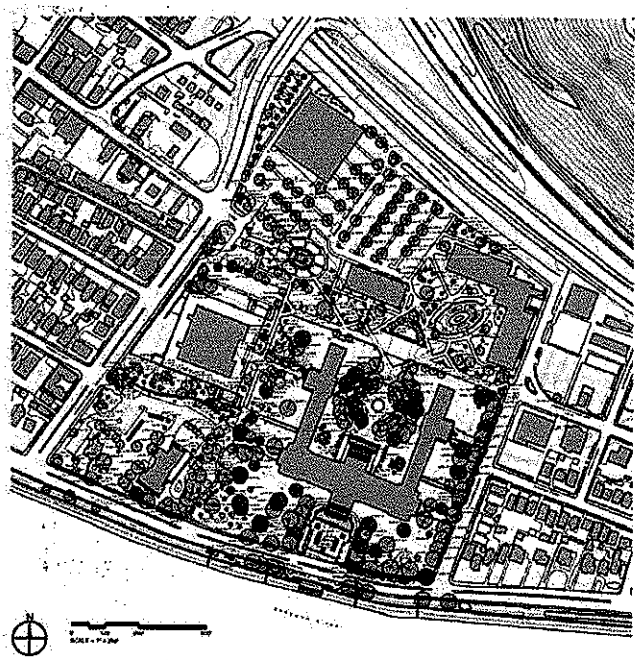
Client
State of West Virginia
Department of Administration
General Services
Building 1, Room MB60
1900 Kanawha Blvd., East
Charleston, WV 25305-1023

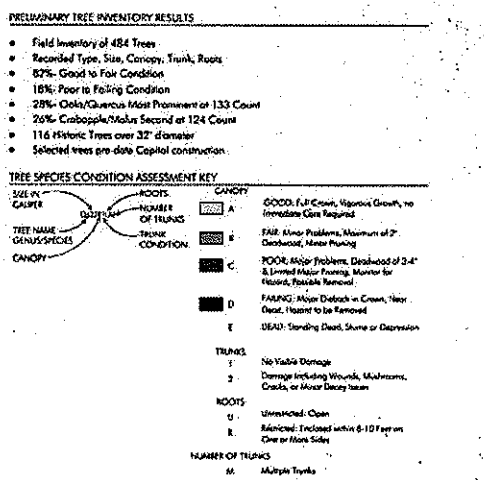
Mr. Robert Krause, AIA, PE
304-558-9018

Completion Date
Estimated: 2010

Baker's Role

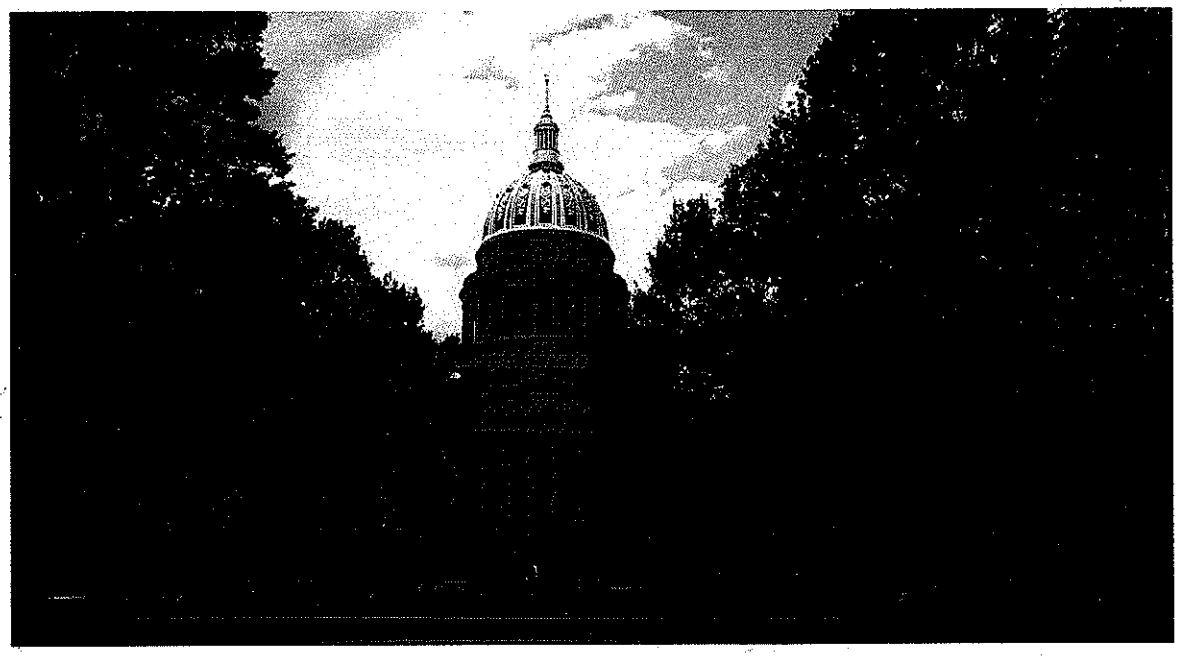
- Campus Master Planning
- Architectural Services
- Engineering Services
- Surveying Services

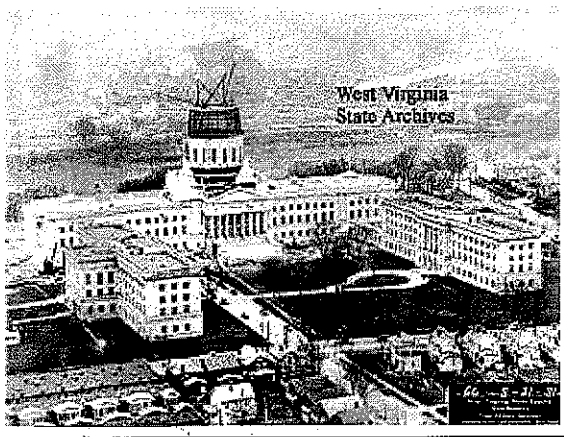




The Master Plan is to be prepared in a collaborative manner, engaging a wide range of government leaders, stakeholders, users and other entities. The engagement of all of those groups of interested parties will include several levels of communication. Items to be addressed in the Master Plan include:

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





TAG Wing Renovations

Charleston, West Virginia

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

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

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

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

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

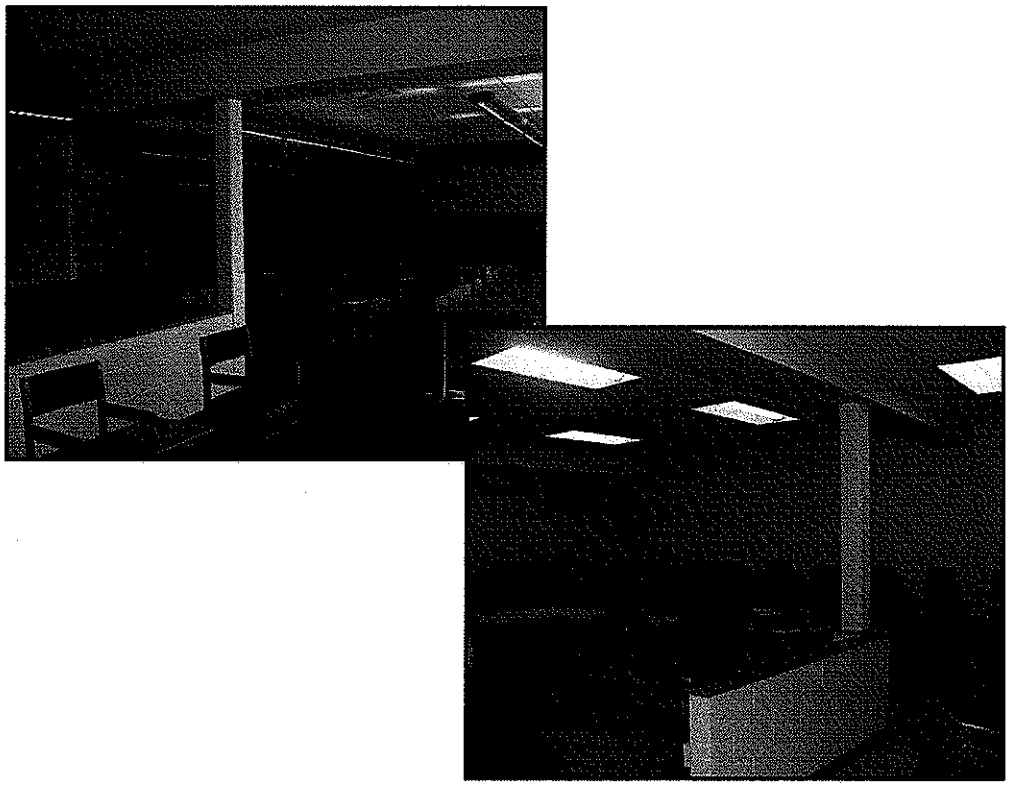
Completion Date
Estimated: Spring 2008

Project Costs
$225,000 (Estimated Construction)
$25,500 (Fee)

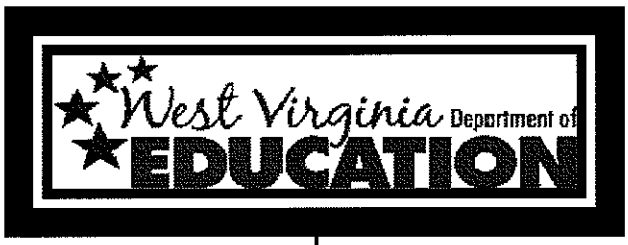
Baker's Role

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

Part 7 – Organizational Chart / Resumes



Example of Educational Facility Media Center and Computer Lab



PRINCIPAL-IN-CHARGE
Russell E. Hall, P.E., P.S.

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

QUALITY CONTROL OFFICERS
David Pecharka, AIA, LEED AP
Ronald M. Schirato, P.E., LEED AP

ARCHITECTURE
Ron L. Bolen, AIA, LEED Green Associate

INTERIOR DESIGN
Alana S. Pulay, RID, LEED AP

MECHANICAL/ELECTRICAL/PLUMBING
Craig West, P.E.
Owen Milligan, P.E.
David Hilliard, E.I.

STRUCTURAL ENGINEERING
Patrick W. Fogarty, P.E., P.S.
Nicole M. Stoudt, P.E.

SITE PLANNING AND LANDSCAPE ARCHITECTURE
R. Todd Schoolcraft, P.L.A.
Laura L. Cox, P.L.A., LEED Green Associate

CIVIL ENGINEERING
Daniel Fint, P.E.
Robert Holbert, P.E.

CEFP PLANNING
Carolyn Staskiewicz, REFP[2]

SUBSURFACE INVESTIGATIONS
Larry C. Nottingham, PhD, P.E.[1]

FIELD SURVEYING SERVICES
Joseph L. Crowder, P.S.
Jason T. Smithson, P.S.

CONSTRUCTION SUPPORT SERVICES
John W. Dawson, P.E., P.S.
3 Field Survey Crews
Numerous Field Inspectors

1 – NGE, PLLC (Drilling Subconsultant)
2 – DeJong, (Educational Planning Subconsultant)

Baker

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

Principal-In-Charge

General Qualifications

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

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

Years with Baker: 6

Years with Other Firms: 18

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

Professional Registrations
Professional Engineer, West Virginia, 1990, 10947
Professional Surveyor, West Virginia, 1996, 1878

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 25th Street Overpass Bridge. Neff is a subconsultant to Site-Blauvelt and is

responsible for surveys, right-of-way plans, all bridges except the Kanawha River bridge crossing, and the St. Albans interchange. The project is in the final stage of the design report phase. The design report phase assesses the engineering and environmental impacts of multiple alignments and interchange configurations.

- **US 35/I-64 Interchange, Putnam** – Neff was a subconsultant to Baker responsible for all right-of-way plan development.
- **New River Parkway, Summers and Raleigh counties** – Neff is a subconsultant to Kimley-Horn responsible for all right-of-way plan development.
- **US 52, King Coal Highway, US 119 Mingo County to US 460 Mercer County** – Neff was program manager for the entire corridor. The responsibilities include all engineering design review and approval; develop and maintain schedules; and coordinate with all resource agencies, the WVDOH, and the public.
- **Statewide Services Contract** – Neff provided construction and right-of-way development and review on an as needed basis.

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

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

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

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

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

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

Project Manager

General Qualifications

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

Experience

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.

West Virginia Army National Guard - Tag Wing Improvement, Charleston, West Virginia. *State Army National Guard Headquarters.* Project Manager. Engineer of Record responsible for the coordination of all activities. Baker performed complete planning, design, and construction management services for renovations to the Office of the Adjutant General at the State Army National Guard Headquarters in Charleston, West Virginia. Project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, several new wall partitions, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal. Baker provided Construction Administration and inspection services as well as periodic site review during construction.

Years with Baker: 5

Years with Other Firms: 19

Education

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

Diploma, 1993, Surveying and Mapping, International Correspondence Schools

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

Licenses/Certifications

Professional Engineer:
Civil/Structural, West Virginia, 1990
Kentucky, 2000
Virginia, 2002
Pennsylvania, 2003
Ohio, 1996
North Carolina, 2008

Professional Surveyor:
West Virginia, 1993
Kentucky, 2001
Ohio, 1996

Construction Documents Technologist, 1996

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

Asphalt Paving Technician, West Virginia, 1991

Concrete Technician, West Virginia, 1991

Soils Compaction, West Virginia, 1991

Aggregate Sampling Inspector, West Virginia, 1991

A/E Services for the Office of the Adjutant General, West Virginia Army National Guard, Division of Engineering and Facilities, Charleston, West Virginia. *State Army National Guard Headquarters.* Project Manager. Responsible for the management and coordination of all activities. The Facilities Management Officer (FMO) for the State of West Virginia, Division of Engineering and Facilities (DEF), West Virginia Army National Guard (WVARNG) selected Baker for a lump sum/fixed fee contract for architectural and engineering services. Baker was selected by the Division of Engineering and Facilities to provide complete design and construction administration services for the renovation of the first floor of the entire wing of the Office of the Adjutant General (TAG). The Owner requested the need for modernization of approximately 12,000 square feet of existing outdated office space - project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal.

West Virginia State Capitol Restroom Renovations. *State of WV General Services Division.* Project Manager. Responsible for the overall management of the project including the coordination of the subconsultant. Baker is leading a planning study for the renovation of 31 restrooms in the historic West Virginia Capitol Building. The planning study will assess the facilities and their conformance to current code requirements and code-required capacities, compliance with Americans with Disabilities Act (ADA) requirements, quantification of the building occupancy during normal and peak periods, and an evaluation of gender distribution of restrooms within the capitol. Baker will provide design, construction sequence, and scheduling recommendations. Upon approval of the design, Baker will prepare construction documents and provide construction administration services for the renovation of three restrooms on the basement level.

130Airlift Wing West Virginia Air National Guard, Various Projects. *Yeager Airport, Charleston, West Virginia.* Field Engineer/Staff Engineer/Project Manager/Lead Designer. Provided planning, design, and construction administration services at this facility on numerous projects including: As a Field Engineer, provided full construction administration services to include inspection, quantity determination, specification interpretation, and the coordination of all testing for the 15,000 cy PCC extension of the aircraft parking apron. As a Staff Engineer, provided surveying and design services to include site, structural steel and concrete design, coordination with Architectural and MEP consultants and scheduling and budgeting for the 3 story addition to the Squadron Operations Facility. As a Project Manager and Lead Designer, provided complete services toward the development of construction plans and specifications for the 50 acre site preparation element of Project 2000 (the relocation of all major base facilities from runway elevation to the former Coonskin Driving Range).

Drainage Improvements and Reclamation Measure Design for Four Abandoned Mine Sites, Kanawha County, West Virginia. *WVDEP - Office of AML&R.* Project Manager. Responsible for the management and coordination of all activities. Baker is providing surveying and mapping, field investigation, subsurface investigation, water testing and sampling, and conceptual, preliminary and final design for the reclamation of four abandoned mine sites that are affected by uncontrolled drainage, debris, and hazards from open portals. Baker is also providing bid phase and construction phase support for the remedial measures.

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.

David Pecharka, A.I.A., LEED® AP

Quality Control Officer

General Qualifications

Years with Baker: 9

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

Mr. Pecharka's project design experience includes master planning, educational, institutional, transportation, military, 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

Classroom Additions and Renovations, U.S. Military Academy, West Point, New York. *DDESS - Domestic Dependent Elementary and Secondary Schools.* Department Manager. Responsible for architectural design and document quality oversight, and development of schematic and advanced designs. Science classrooms were renovated at the Middle School. The existing roofing was replaced, and water damage to ceilings, walls, and exterior brick and stone work repaired. A new 7,500-square-foot six-classroom addition was also completed for the Elementary School. Due to the historic nature of the property, the work required approval by the New York State Historic Preservation Office, as well as coordination with the Military Academy's Master Plan. Anti-terrorism/force protection design features included the addition of a parking lot with the appropriate building set-backs to meet the Corps design standards. Baker completed field investigations, conducted a design charrette with all project stakeholders, and prepared design and

construction documents, conceptual rendering, value engineering, and designated construction phase services for the 7,500-square-foot classroom addition to Elementary School Building 705-A.

Fort Knox High School Design, Ft. Knox, Kentucky. *U.S. Army Corps of Engineers, Louisville District.* Consultant. Developed LEED® sustainable design rating scorecard in response to project features. Baker provided design for renovation of the existing school, as well as plans for a new building and gymnasium, totaling 93,682 square feet. The new school is designed to accommodate DODEA students in grades 9 through 12.

Boreman Hall South Roof Repairs, West Virginia University, Morgantown, West Virginia. *West Virginia University.* Department Manager. Responsible for architectural design and document quality oversight. Baker provided full design services, including construction documents, bid documents, and construction administration services for the repair/replacement of a steep-slope slate roofing system for WVU's Boreman Hall South.

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.

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.

Louisville District IDIQ for Various Civil and Military Projects, Great Lakes and Ohio River Division, Louisville, Kentucky. *U.S. Army Corps of Engineers, Louisville District.* Department Manager. Responsible for architectural design and document quality oversight. A variety of planning and design services were provided to the U.S. Army Corps of Engineers, Louisville District under an Indefinite Delivery Contract. Delivery Orders included master plan updates, capital investment strategies, installation design guides, and facility designs for an Army Reserve Center, Battalion Operations Facility, and an Army Base High School.

Intermodal Facility, Robinson Town Centre, Robinson Township, Pennsylvania. *Port Authority of Allegheny County.* Department Manager. Participated in architectural design, quality control and construction administration for this three-story parking facility, site development, and bus access features. The Robinson Town Centre Intermodal Facility is a part of the network of Park-n-Ride facilities providing convenient bus access for Port Authority's patrons. Constructed on approximately 8 acres, the facility includes: 865 Park-n-Ride spaces with 400 spaces in an elevated parking garage; bus stops with sheltered passenger waiting areas; Kiss-n-Ride drop-off area; commercial development space provisions; and bus layover area.

Clinton Community Park Amphitheater, Findlay Township, Pennsylvania. *Findlay, Township of.* Project Manager. Responsible for project management, architectural design, and quality control. Baker provided full architectural and engineering design for the Clinton Community Park Amphitheater, a freestanding open-air structure which serves numerous performance functions for Findlay Township. The facility includes a stage with concrete floor and wood roof framing including a truss spanning the stage width, decorative concrete masonry walls, asphalt shingle roof, general and stage lighting, and handicapped accessible concrete ramps.

Junior NCO and Enlisted Quarters, Fort Irwin, California. *Stronghold Engineering, Inc.* Project Manager. Responsible for project management, architectural design and quality control, and coordination with multiple disciplines and Baker offices for this California project. Under a Design/Build MATOC contract with the U.S. Army Corps of Engineers, Los Angeles District, Baker worked with contractor Stronghold Engineering for the design/build delivery of 24 JNCO/Enlisted Quarters at the Fort Irwin National Training Center in California. The housing units are comprised of 24 two-bedroom apartments in 12 one-story duplex buildings and were designed to strict USACE guidelines for materials, energy efficiency, and response to regional architectural precedents.

Findlay Joint Public Safety Facility Feasibility Study, Clinton, Pennsylvania. *Findlay, Township of.* Project Manager. Responsible for project management, architectural design, and document quality oversight. Baker provided project feasibility services for a Joint Public Safety Facility to serve police, fire, and emergency services. The work included site and architectural planning of program elements into available site and building areas for two Findlay Township sites, further described by building engineering disciplines and validated by a conceptual construction cost estimate. The result of this study was to determine the feasibility of the project of approximately $4 million in cost and 25,000 square feet in size, as represented in a final report.

Rail Station Platform Edge Paver Rehabilitation Investigation and Concept Development, Pittsburgh, Pennsylvania. *Port Authority of Allegheny County.* Department Manager. Responsible for architectural design and document quality oversight. Baker performed a study to provide recommendations for repair of ADA tactile warning strips on Port Authority's Light Rail Transit Stations. These warning strips continually deteriorated due to freeze/thaw conditions and application of salt for melting of ice and snow. Baker provided recommendations for materials and drainage to eliminate the constant deterioration.

Short Term Parking Garage Stair Tower Replacement, Pittsburgh International Airport (PIT), Pittsburgh, Pennsylvania. *Allegheny County Airport Authority.* Department Manager. Responsible for architectural design and document quality oversight. Baker was tasked to design replacement stair towers for Pittsburgh International Airport's parking garage in two phases. Stairs 5-8 were constructed during Phase 1 with Stair Towers 1-4 constructed in the second phase. This $3 million dollar project included demolition and replacement of the stair towers in their existing locations. Baker provided existing condition verification and documentation, design development, construction documents, and construction administration.

Installation of a Ultra-Violet Wastewater Treatment System, White Sands Missile Range, New Mexico. *U.S. Army Corps of Engineers, Fort Worth District.* Department Manager. Responsibilities included architectural design and document quality oversight. Repairs and upgrades were required to the existing one million gallon per day Sewage Treatment Plant at White Sands Missile Range to meet new regulatory standards. Included in the work were provisions for ultraviolet disinfection of effluent from the main post wastewater treatment plant, as well as expansion of the present plant site to enclose the equipment in a new prefabricated metal building. Testing and analysis of wastewater, determination of appropriate treatment systems, and development of a design-build specification for the treatment system were accomplished.

Design/Build AFQ/RFP Development for Statewide Construction Program, PAARNG Stryker Brigade Combat Team, Statewide, Pennsylvania. *US Property and Fiscal Office for Pennsylvania.* Department Manager. Responsible for architectural design and document quality oversight.

Baker provided services under numerous National Guard Bureau IDIQ contracts to support the Pennsylvania Army National Guard (PAARNG) in implementing a $167,000,000 statewide construction program for the Stryker Brigade Combat Team conversion of numerous PAARNG facilities. The program included the design of new soldier Readiness Centers (RC) and vehicle Field Maintenance Shops (FMS), as well as facility additions. Baker performed all aspects of design/build RFP implementation, from providing significant architectural, structural, geotechnical, civil engineering, and other technical input for RFP Project Definition Documents, to developing the application form used to evaluate potential design/build contractor teams, to providing client support during the actual design/build team selection process. The sustainable design goal is for each finished facility to qualify for either a Gold SPiRiT or Silver LEED® -Certified rating. Baker's task orders include the following sites: Erie – a new Readiness Center and a new Field Maintenance Shop; Philadelphia – a new Readiness Center and Field Maintenance Shop; Elizabethtown – a new Readiness Center and a new Field Maintenance Shop; and Bradford and Huntingdon – new Readiness Centers. Additionally, Baker has developed Design/Build RFP documents for the additions and alterations to Readiness Centers in Lewistown, Punxsutawney, Butler, Hanover, Lebanon, Huntingdon, and Hollidaysburg.

Pennsylvania Turnpike Commission, Consulting Engineer, Statewide, Pennsylvania. *Pennsylvania Turnpike Commission.* Department Manager. Responsible for architectural design and document quality oversight. Baker has served as the Pennsylvania Turnpike Commission's (PTC's) Consulting Engineer continuously since 1956, performing annual inspections of and reports for all facilities and providing recommendations for their maintenance and repair as outlined in the Trust Indenture which secures revenue bonds for the system. Baker reviews the PTC's capital budget, provides recommendations, and performs quality assurance review during the design and construction of capital projects. Baker has also managed the contracts of other design consultants retained for specific projects.

On-Call Multi-Discipline Services, Pittsburgh International, and Allegheny County Airports (PIT/AGC), Pittsburgh, Pennsylvania. *Allegheny County Airport Authority.* Department Manager. Responsible for architectural design and document quality oversight. Since 1989, Baker has provided multidiscipline, on-call services to the Allegheny County Airport Authority (ACAA). The ACAA owns and operates Pittsburgh International Airport (PIT) and Allegheny County Airport (AGC). Baker acted as an extension to the ACAA's staff, providing the depth of resources and experience of the entire company when called upon by the ACAA. Baker provided a full range of services to ACAA on an "On-Call/As-Needed" basis, including architecture, civil, structural, mechanical, electrical and environmental engineering, general engineering administration, construction support, and other areas.

Indefinite Delivery Multi-Discipline Contract, Baltimore District and Aberdeen Proving Ground, Maryland. *U.S. Army Corps of Engineers, Baltimore District.* Department Manager. Responsible for architectural design and document quality oversight. Baker was selected for the second of two consecutive Indefinite Delivery Multi-Discipline A/E Contracts. Task orders executed under this agreement include: a space planning study of nine buildings located in the Fort McNair Historic District; Renovation of Historic Buildings 39 and 48 at Fort McNair; renovation of historic Machinist Training Building 3074 at Aberdeen Proving Ground; DD Form 1391 documentation for the Defense Threat Reduction Agency at Fort Belvoir; a Kennel Support facility at Fort Myer; a Vehicle Storage facility at Fort McNair; renovations to the Tri-Service Dining Hall at Fort Myer; renovations to Dormitory Building 801 at Fort Belvoir; and a Domestic Storage building addition at Fort Belvoir.

Non-Baker Project Experience

Middle School Renovations, Pittsburgh, Pennsylvania. *Shady Side Academy.* Production Department Director. Responsible for staffing, quality control and production phase overview for design of life safety, HVAC, and electrical upgrades to 14,000 square foot traditional stone construction classroom building. The project included an addition to the visual communications wing. Phased construction facilitated building usage during renovation. Outsourced production functions to consultant, coordinated all file transfer procedures.

Additions and Renovations to West Hempfield Elementary School. Production Department Manager. Responsible for the 7,000 square foot addition and 12,000 square foot renovation to an existing elementary school.**(Project cost $4,500,000.)**

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. Not yet constructed.)**

State Correctional Facility, Houtzdale, Pennsylvania. *Pennsylvania Department of Corrections, Pennsylvania Department of General Services.* Project Architect. Size 700,000 square feet.**(Construction cost $80,000,000. Completion Date 1996.)**

Adamson Stadium Renovations, California, Pennsylvania. *California University of Pennsylvania.* Production Department Director. Project Architect responsible for project design and preparation of documents for rehabilitation of existing 4,000-seat cast concrete grandstand and renovation of existing field house and press box addition.

HVAC Upgrade at Learning Resource Center, California, Pennsylvania. *California University of Pennsylvania.* Project Manager/Architect. Responsible for development of fee proposals, consultant coordination, and document production for various electrical and general renovations projects. Services were provided under this indefinite quantity contract during 1989 and 1990.

Electrical Upgrade at Old IA.*California University of Pennsylvania.* Project Manager/Architect. Construction cost $78,000. Completion Date 1992.

Campus Electrical Testing. *California University of Pennsylvania.* Project Manager/Architect. Construction cost $62,000. Completion Date 1992.

Electrical Upgrade at Steele Auditorium. *California University of Pennsylvania.* Project Manager/Architect. Construction cost $175,000. Completion Date 1992.

Mountaineer Stadium Expansion, Morgantown, West Virginia. *West Virginia University.* Staff Architect/Designer. Assisted in the development of schematic plan options and associated documents for the proposed 5,000-square-foot addition to the existing field house.

Junction Hollow Project - Sustainable Design Alternatives Charrette, Pittsburgh, Pennsylvania. *Carnegie Mellon University/Carnegie Museums/Gumberg Properties.* Joint facilitator with CMU's Center for Building Diagnostics and Performance for design charrette exploring building envelope alternatives, for planned entrepreneurial incubator facility near Forbes Avenue entry to CMU.

Classroom Wing Addition, Indiana, Pennsylvania. *Grace Methodist Church.* Project Designer. Size 10,000 square feet. **(Construction cost $900,000.)**

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 - ISTEA", University of Wisconsin - Madison, 1998 "Detecting Deficiencies in Working Drawings and Specifications"

LEED® Training Seminar, 2000

USGBC Federal Summit, 2001, 2002

Ron L. Bolen, RA, AIA, LEED Green Associate

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.

Years with Baker: 2
Years with Other Firms: 35+

Education

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

Registrations

Registered Architect, No. 3135, West Virginia, 1999

LEED Green Associate, 2010

Professional Affiliations

American Institute of Architects (AIA)
Comprehensive Education Facilities Planners, International (CEFPI)

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.

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

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, 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

Raleigh Co. Board of Education Bus Maintenance Facility *Raleigh County Board of Education.*
Mr. Bolen preformed 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.

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 preformed 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.

Glenville State College, *Glennville, West Virginia*
Mr. Bolen provided Project Manager Services for the development of two projects at Glenville 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.

Alana S. Pulay, IIDA, LEED® AP

Interior Designer

General Qualifications

Ms. Pulay is a professional interior designer with comprehensive knowledge of architecture and the design industry with over 9 years of experience in commercial and residential design, project budgeting, specifications writing, bid preparation and contract negotiations, construction job site scheduling, and green building design. Ms. Pulay has led and managed numerous interior design projects where she was responsible for the design, development, and coordination of all interior elements of the projects, including selection of all finishes, furnishings, and equipment.

Ms. Pulay also teaches junior level interior design studio classes for the University of Charleston, which included syllabus preparation and development of the course interior design project for the semester. She also mentors senior interior design students.

Ms. Pulay is a well organized professional who enjoys a challenge and is committed to lifelong self-improvement. She is an effective team player with proven listening, interpersonal, and communications skills. Ms. Pulay is proficient in AutoCAD, SketchUp, Adobe Photoshop, MS Word, MS Excel, and MS PowerPoint.

Years with Baker: 2

Years with Other Firms: 7

Education

M.S. Architecture Specializing in Interior Design, University of Nebraska, 2010

B.S., Interior Design, The Ohio State University, 2003

Registrations

NCIDQ, 2005
LEED AP, 2008

Professional Affiliations

International Interior Design Association

Experience

Little Kanawha Bus Facility, Grantsville, Calhoun County, West Virginia. *West Virginia Division of Public Transit.* Interior Designer. Baker is providing architectural and engineering services, interior design, landscape architecture, and construction-phase support for a new 10,000-square foot pre-engineered metal and brick bus maintenance and transit operations facility. The 4,500-square-foot administrative area will include offices, a conference room, a money-counting room, and a driver-training room, and the 5,500-square-foot bus maintenance area will include storage for seven buses. The facility will be ADA-compliant and is being designed to achieve LEED® certification. Services include site survey and design, geotechnical testing, environmental compliance, utility coordination, bid documents, bid-phase support, and as-built drawings.

West Virginia State Capitol Restroom Renovations, Charleston, West Virginia. *State of West Virginia, General Services Division.* Interior Designer. Ms. Pulay is currently providing the State of West Virginia General Services Division interior design support for a comprehensive restroom renovation and upgrade effort for Building 1 of the West Virginia Capitol. Working in conjunction with the Owner and a team of specialized sub-consultants, Ms. Pulay is currently assisting the MEP effort to replace and update the plumbing and lighting fixtures in all the restrooms to meet new ADA standards, yet remain sympathetic to the original and historic Cass Gilbert original design.

Non-Baker Project Experience

Lincoln County High School, Hamlin, West Virginia, *Lincoln County Board of Education.* Interior Designer. Prepared complete construction drawings for entire project interior. Lincoln County High School combines four existing high schools into one school. Completed in August 2006, the new $31.4 million facility provides 217,000 SF for 950 enrolled students. To formulate a more comprehensive approach to this

project, the Owner also added the vocational school's curriculum to broaden students' learning opportunities. Students can now attend regular curriculum classes and vocational classes under one roof. The classrooms themselves provided a showcase for state-of-the-art technology. By simply observing how automatic lighting controls enhance natural day lighting in their classrooms, students are able to visualize sustainable design, energy conservation, and technology working in tandem. A full integrated computer system allows students and faculty computer access throughout the entire facility and in every typed of classroom. The interior design combines concepts from "green" design and bright colors to make a dynamic environment for the students in the shared common areas. The classrooms were designed in neutral color palette for an optimized learning environment. Linoleum flooring was selected along with carpet tiles to help achieve a sustainable design.

Wayne Elementary School, Wayne, West Virginia, *Wayne County Board of Education.* Interior Designer. Prepared complete construction drawings for entire project interior. The new 48,276 SF Wayne Elementary School replaces an outdated facility on a more centrally located site. This school included new kindergarten rooms, classrooms, art instruction studio, music room, separate dining and physical education spaces, a state of the art media center, and other academic areas. This project was funded mostly by a West Virginia School Building Authority grant. The outstanding use of color throughout the building creates a bright, exciting environment for learning. The interior design for this project included creating the interior floor pattern, selection of finished and furnishings, developing the construction documents and following through with the final punch list after completion of construction. The color scheme was developed as a collaborative effort with the school's "Color Committee". This group consisted of teachers, parents, community members, and faculty who are involved within the school system. There was also collaboration with the project architect to align architectural elements with the floor pattern. Total project cost: $7,132,429.00. Completion date: Fall, 2006.

Erma Byrd Higher Education Center, Beaver, Raleigh County, West Virginia. *Southern West Virginia Community and Technical College.* Project Interior Designer. Responsible for space planning and the selection of finishes and furnishings. This project provides a central location for classroom and administrative space to be shared by six different colleges and universities. It is the first building of a planned campus environment comprised of other classroom buildings and research facilities. The project consists of 29,700 SF on the main level and 3,300 SF of mechanical mezzanine. Being a teaching facility the building itself is designed to be a teaching tool. Day lighting is incorporated throughout the building and the mechanical equipment is designed to be viewed and monitored by students in a learning environment. Using data collected by various sensors, the control system can graphically display how all systems react to changes in environmental conditions. The design concept was based on "green" principles. Fritz tile, linoleum flooring, and low VOC paints were specified to complete the design. Total project cost: $7.5 million. Completion date: September 2007.

Gene Spadaro Juvenile Center, Mt. Hope, West Virginia, *West Virginia Division of Corrections.* Interior Designer. Prepared complete construction drawings for entire project interior. This is a prototype juvenile center design evolving from a hardware-secured correctional institution to a staff-secured, rehabilitative center for at risk youths. Completed in October 2004, the building is constructed of load-bearing masonry walls with brick and natural stone veneer. The interior steel structure is exposed and painted. Innovative color schemes were used to create stimulating variety in the spaces. Lighting was carefully designed to supplement natural sunlight and ensure comfortable lighting levels. The shift to staff-secured programming required even greater levels of observation, communication and control, and the open layout of the plan meets these objectives. To offset the comfortable spaces of the shared areas, sleeping quarters resemble those in more institutional facilities, thus educating the youth about what their future could be if efforts to turn them away from delinquency and crime are ignored.

Craig W. West, P.E., LEED® AP

Mechanical Engineering Manager

Years with Baker: 9

Years with Other Firms: 16

Education

B.S., 1984, Mechanical Engineering, Youngstown State University

Licenses/Certifications

LEED® Accredited Professional, 2008

Professional Engineer, Connecticut, 2001, PEN.0022734

Professional Engineer, New Jersey, 2009, GE 47757

Professional Engineer, Ohio, 1989, PE.53393

Energy Conservation Technical Assistance Analyst, Ohio

Professional Engineer, Pennsylvania, 1990, PE040453R

Professional Engineer, Virginia, 2002, 037150

General Qualifications

Mr. West is the manager of the mechanical engineering department. His background includes project management and providing design and specifications for HVAC, plumbing, fire protection, piping, and process exhaust systems for educational, military, commercial, institutional, healthcare, and industrial facilities. He is responsible for all facets of the job, including initial client contact, project organization, load calculations, equipment/system selection, layout, supervision, fan static and pump head calculations, specifications, and sequences of operation. Mr. West has handled bidding, requests for information, meetings, shop drawings, construction situations, job progress, and closeout. He is responsible for fee estimating, job cost control, and construction cost estimating. He has gained specialized experience in geothermal, DDC controls, clean rooms, and hospital work, including medical gases, labs, operating rooms, and isolation rooms.

Experience

Aviation Brigade Barracks, Ft. Campbell, Kentucky. *U.S. Army Corps of Engineers, Louisville District.* QA/QC. Performed quality technical review of the mechanical systems. This new Design/Build Aviation Brigade Barracks is a complex of two-bedroom, one-bath apartments, which houses 384 soldiers. The project consists of a facility which functions as an Unaccompanied Enlisted Personnel Housing (UEPH), and is designed so that this new facility is similar both functionally and technically to housing in the surrounding private sector community. Baker provided planning and full comprehensive architecture and engineering services including interior design and landscape architecture services as the prime designer on this contract. The building is designed to receive SPiRiT Gold (or LEED® Silver) accreditation.

HVAC System Evaluation for the Central Plant Chiller System, Command/Medical Building, and Supply Building, USCG, ISC Portsmouth, Virginia. *U.S. Coast Guard, CEU Cleveland.* Mechanical Engineer. Performed a study of the chilled water system and central plant chillers, and analyzed the cooling systems in the Supply Building and the Command/Medical Building. The Central Plant chiller system, the Base chilled water distribution system, and the HVAC systems for the Command/Medical Building and Supply Building were inspected and analyzed in detail to determine system deficiencies. Since no as-built drawings or information was available, monitoring devices were installed on the Central Plant system for a three-month period to determine the system configuration and operation. Seven other building HVAC systems were also inspected and analyzed in lesser detail. Recommendations for solutions to these deficiencies, with associated costs, were prepared in a final report.

Design/Build SATOC for Military Facilities in the Southwest Region, Various Locations in Southwestern U.S., AR,AZ, CA, LA, NM, NV, OK, TX. *U.S. Army Corps of Engineers, Tulsa District.* Technical Manager. Provided oversight and quality assurance of the mechanical engineering design. Projects

constructed under this contract include Brigade Combat Team (BCT) Tactical Equipment Maintenance Facilities (TEMF). TEMFs provide facilities for the purpose of maintaining and repairing vehicles, complete with equipment and parts storage, and administrative offices. Task orders awarded to date include the following: Two TEMFs at Fort Bliss in El Paso, Texas to be shared by five Battalions and one Company; and a Unit Operations Facilities consisting of a TEMF and an Organizational (Deployment) Storage facility, at Fort Bliss in El Paso, Texas. Facility designs are required to meet or exceed a Silver LEED® certification.

Allen Hall HVAC Upgrade and Asbestos Abatement, West Virginia University, Morgantown, West Virginia. *West Virginia University.* Mechanical Engineer. Assisted with preparation of design development phase specifications for asbestos remediation of Allen Hall, including the removal of asbestos-containing fireproofing on structural steel and metal decking, fitting insulation on domestic water piping, and asbestos-containing floor tile and adhesive. Complex renovation/asbestos abatement project for the 104,855 GSF university classroom building, Allen Hall, with $6.6 million estimated construction cost. Scope included asbestos abatement, new ceilings and lighting systems, upgrades to existing HVAC system, and replacement of all flooring materials.

USCG Portsmouth HVAC Master Plan, ISC Portsmouth, Virginia. *U.S. Coast Guard, CEU Cleveland.* Mechanical Engineer. Provided engineering services to study the chilled water and cooling systems, perform life-cycle-costing, make recommendations, report findings, and prepare a chilled water system master plan for the Base. Baker provided a Master Planning Report evaluating the central chilled water system and the associated equipment in each of nine buildings on campus that it serves. The base Central Mechanical Plant (CMP) houses two 250-ton centrifugal chillers, serving a campus of nine buildings; numerous building modifications and additions were performed over the years. The study included developing evaluation factors, an evaluation of various alternatives, and recommendations for the most feasible long-term solution, as well as energy conservation features, cost estimates, and a life-cycle-cost analysis for each alternative.

Condition Assessment of Creative Arts Center, Evansdale Campus, West Virginia University, Morgantown, West Virginia. *West Virginia University.* Mechanical Engineer. Provided preliminary HVAC engineering consulting to the planning team. Baker performed a facility condition assessment of WVU's Creative Arts Center to help determine a capital spending program for the building. Baker conducted physical site visits, reviewed drawings, and met with University representatives to assess and document the existing condition of the facility. In addition to identifying the physical and programmatic deficiencies of the facility, Baker prioritized the deficiencies and developed budget costs to determine the optimal correction by the University, as well as construction phasing and implementation schedules.

Non-Baker Project Experience

Trumbull Memorial Hospital, Youngstown and Warren, Ohio. *Forum Health.* (Completed mid- to late-1990s)

- Designed HVAC and plumbing for complete Pathology Lab renovation. Special emphasis placed on employee safety, directional airflow, space pressure relationships, and biological safety hood systems
- Handled pre-design issues on conversion of two old operating rooms to new high-tech open heart rooms and associated pump room
- Designed HVAC, plumbing, and medical gases for various projects: renovation of surgery suite (eight operating rooms, including two othro rooms) with special emphasis placed on new laminar flow surgical eye air distribution, air changes and space pressure relationships; the CVL/Surgicare renovations including special procedures rooms, control of hazardous fumes, and isolation rooms; and the pharmacy renovation and expansion project including IV prep hood systems
- Designed HVAC and medical gases for the Anesthesia Line Room
- Provided all mechanical design for hospital central accounting data center and for the corporate offices
- Designed the satellite Howland Radiology Center

- Provided HVAC and plumbing design for the pharmacy renovation and expansion
- Designed replacement of steam-to-hot water laundry water heating system with direct contact gas-fired water heating to save energy
- Performed final calculations and final design for the new surgery 300-ton chiller project including coil analysis

Energy Audit, Trumbull Memorial Hospital, Warren, Ohio. Assisted with an energy audit of this 595,000-square-foot, 500-bed full facility hospital. (Completed mid- to late-1990s)

Hillside Rehabilitation Hospital, Warren, Ohio. *Forum Health.* Designed replacement of the central steam boilers and five steam-to-water converters to a hot water system. Designed replacement of the steam-water heater to gas-fired. (Completed mid- to late-1990s)

Hillside Rehabilitation Hospital, Warren, Ohio. *Forum Health.* Performed energy audit on a 95,000-square-foot portion of this rehabilitation hospital. (Completed mid- to late-1990s)

Specialty Hospital of Mahoning Valley, Youngstown, Ohio. Designed HVAC and plumbing for ICU, rehab, and therapy floors including TB isolation rooms. (Completed mid- to late-1990s)

Pediatric Neurology Facility, Northside Hospital, Youngstown, Ohio. *Forum Health.* Designed HVAC and plumbing design for a renovation for a pediatric neurology facility. (Completed mid- to late-1990s)

Forum Health, Northside Medical Center, Youngstown, Ohio. Provided HVAC design and mechanical project manager for catheterization lab renovation project for more invasive procedures, including stints, defibrillators, and pacemakers. (Completed mid- to late-1990s)

Akron General Medical Center, Akron, Ohio. Provided HVAC design for conversion of the old library into Care Management and for renovation of space for Optical Imaging. Also, provided services for the replacement of the energy recovery wheels in air handlers AS51 and AS52. (Completed mid- to late-1990s)

Washington County Hospital, Hagerstown, Maryland. Designed air conditioning for the main hospital kitchen. (Completed mid-1980s)

Beeghly Medical Park, Boardman, Ohio. *Forum Health.* Provided mechanical design services for radiology renovation and for the oncology addition with a linear accelerator, for the pedestrian connector, and for the Beeghly Hearing and Speech Center. (Completed mid- to late-1990s)

Salem Community Hospital, Salem, Ohio. (Completed mid- to late-1990s)

- Mechanical Design Project Manager. Project involved 5,800-square-foot renovation of ICU into an endoscopy suite. Total mechanical construction value was $412,000
- Mechanical Design Project Manager. New, free-standing 28,000-square-foot three-story medical office building, which included a water source heat pump boiler-tower system, PT area, OT area, and hydrotherapy areas
- Mechanical Design Project Manager. Major addition and renovation for new outpatient clinic and ICU areas including TB isolation rooms

Group Practice Center, Columbiana, Ohio. *Salem Community Hospital.* Mechanical Design Project Manager. Project involved 26,000-square-foot multi-story physicians' office building. (Completed mid- to late-1990s)

Hilside Rehab Hospital, Warren, Ohio. Performed energy audit on a 95,000 square foot portion of this rehabilitation hospital.

Previous Work History

Aapex Engineering, Inc. - Mechanical Project Engineer/Project Manager, 1996-2001. Provided design and specification for HVAC, plumbing, fire protection, piping, and process exhaust for commercial, institutional, and industrial facilities. Responsible for all facets of job including initial client contact, project organization, load calculations, equipment/system selection, layout, supervision, duct static, pump head calculations, specifications, and sequences of operation. Handled bidding questions, meetings, shop drawings, problems, job progress and closeout. Responsible for fee estimating, job cost control and construction cost estimating. Specialized experience gained in hospital work including medical gases and isolation rooms, geothermal and project management. Took part in day-to-day company decisions and personnel and production issues. Routinely represented company out of office with clients. Handled and/or participated in issues of sales, communication, bidding, capital expenditures, accounts receivable, computer documentation, leadership, liability, quality control, and hiring.

ms consultants, inc. - Mechanical Division Manager - Lead Mechanical Engineer, 1995-1996. Responsible for planning and execution of HVAC, plumbing, and fire protection design work. Responsible for technical content. Provided consultant and advisory services to other company divisions. Established mechanical department standards and procedures for design and quality of work, supervised all design and specification activities, planned manpower and schedules, controlled job costs, stayed current with technology and design practices, conducted employee evaluations, assisted in business development, managed projects and determined billing and forecasts. Designed systems for projects and determined billing and forecasts. Designed systems for projects staff could not handle due to workload and deadlines. Special contributions included development of master specifications, creation of technical checklists for streamlining operations, development of document checking procedure, and creation of a milestone-based project design and schedule format to more effectively allow Architectural/Mechanical/Electrical divisions to work together. This latter contribution was shared by a fellow division manager.

Robert F. Zeigler, Inc. - Mechanical Contractor, Hagerstown, MD, Application Engineer, 1984-1985. Designed and applied HVAC systems for commercial, institutional and industrial facilities as well as for computer and clean rooms. Responsible for initial customer contact, fieldwork, take-off, pricing, bid preparation and presentation, purchasing, project management and system commissioning.

George West Heating and Sheet Metal Company, Canfield, Ohio - HVAC Service Technician, 1973-1984. Performed installation, service, troubleshooting and repair of light commercial and residential HVAC systems and performed sheet metal duct layout, fabrication and installation. Specialized experience gained in oil fired equipment and all kinds of roofing.

Continuing Education/Training

Technical Web Cast for Sustainability and the Building Environment, ASHRAE, Certificate and 3 PDHs

Technical Seminar on Outside Air and Energy Recovery, Deckman Company/Munters Corporation/Des-Champs, Certificate and 2 PDHs

Professional Affiliations

American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)

Owen Milligan, P.E.

Electrical Engineering Manager

General Qualifications

Mr. Milligan is an electrical engineer who is experienced working with consulting engineering firms in the study and design of electric distribution and control systems, emergency power for process plants and facilities, water/wastewater treatment plants, government and commercial projects, ASHRAE energy-efficient building design, coordination with vendor and contractors, and approval of vendor drawings. He has a strong knowledge of distribution equipment and designs, motor control center layouts and design, and start-up and services during construction. He is capable of handling multiple projects from conception to final design, working as a team member toward meeting project goals. His work includes management of Baker's electrical engineering department, supervising and providing technical advice to designers and coordinating design and construction work with engineers, contractors, vendors, and clients. Mr. Milligan has participated in five-step SAVE International Process value engineering studies.

Years with Baker: 4

Years with Other Firms: 19

Education
B.S., 1988, Electrical Engineering, Gannon University

Licenses/Certifications
Professional Engineer:
Pennsylvania, 1999
California, 2003
Montana, 2001
Kentucky, 2005
Oklahoma, 2008

Experience

Defense Medical Logistics Center, Fort Detrick, Maryland. *U.S. Army Corps of Engineers, Baltimore District.* Electrical Engineer. Provided design consultation to the core team related to devices protecting the main transformer. Designs were required to meet UFC and military design standards. Baker is the designer-of-record for the design/build delivery of a new Defense Medical Logistics Center at Fort Detrick, Maryland, for the Military Medical Logistics System. The three-story, 128,000-square-foot brick structure houses the top military medical planning agencies from the Army, Navy, Air Force, and Marines. Parking spaces for 310 vehicles were provided. Amenities include off-site stormwater retention pond, reforestation requirements, standing seam hip roof; chilled water HVAC system, dense tele/data systems including SIPRNET, sophisticated security systems, and AT/FP considerations. A design charrette and separate partnering session was held with all project stakeholders.

Design/Build SATOC for Military Facilities in the Southwest Region, Various Locations in Southwestern U.S., AR, AZ, CA, LA, NM, NV, OK, TX. *U.S. Army Corps of Engineers, Tulsa District.* Electrical Engineer. Provided design assistance to the electrical engineering subconsultant, and performed a technical quality review of the construction documents for the TEMFs located at Fort Bliss. Electrical systems included lighting, lightning protection and grounding, power distribution, telecommunications, fire alarm, and unique voltage and frequency requirements. Designs were required to meet UFC and military design standards. Projects constructed under this contract include Brigade Combat Team (BCT) Tactical Equipment Maintenance Facilities (TEMF). TEMFs provide facilities for the purpose of maintaining and repairing vehicles, complete with equipment and parts storage, and administrative offices. Task orders awarded to date include the following: Two TEMFs at Fort Bliss in El Paso, Texas to be shared by five Battalions and one Company; and a Unit Operations Facilities consisting of a TEMF and an Organizational (Deployment) Storage facility, at Fort Bliss in El Paso, Texas. Facility designs are required to meet or exceed a Silver LEED® certification.

A/E ID/IQ Contract for Design of Army Reserve and Military Projects, Nationwide. *U.S. Army Corps of Engineers, Louisville District.* Electrical Engineer. Provided technical narrative relating to the electrical engineering design for inclusion in design/build RFP documents for several projects. Also performed independent interdisciplinary technical reviews for various projects under this ID/IQ contract. Designs were required to meet UFC and military design standards. Baker performed work under a five year, $20 million Indefinite Delivery, Indefinite Quantity A/E Services Contract for the Louisville District of the U.S. Army Corps of Engineers. Under this contract, Baker provided full planning, design, and construction phase services for U.S. Army Reserve Facilities and Military Projects Nationwide.

Armed Forces Reserve Center, Camp Bullis, San Antonio, Texas. *U.S. Army Corps of Engineers, Louisville District.* Electrical Engineer. Provided technical quality oversight for all phases of the electrical systems design including lighting, power distribution, telecommunications, system calculations, and subconsultant coordination. Designs were required to meet UFC and military design standards. Baker teamed with builders other clients, under a Design/Build contract for the full design of an Armed Forces Reserve Center (AFRC) to be located at Camp Bullis, Texas. The $39 million, 189,071-square-foot complex consists of five buildings, including a Training Center, Organizational Unit (Heated) Storage building, Vehicle Maintenance Shop, and two Unheated Storage (UHS) buildings. Designs are also required for Comprehensive Interior Design (CID) and Structural Interior Design (SID), utilities, storm drainage, communications, electric, HVAC, fire protection/alarm systems, Intrusion Detection System, Emergency Management Communication System, anti-terrorism and force protection measures, paving, walks, curbs, parking, access roads, exterior lighting, site improvements, grading and landscaping. The project will be designed to meet the Silver Level of LEED®.

Armed Forces Reserve Center, Grand Prairie, Texas. *U.S. Army Corps of Engineers, Louisville District.* QA/QC. Provided design consultation to the electrical design team and performed a technical quality review of the construction documents. Systems included lighting, power distribution, lightning protection and grounding, telecommunications, security, and fire alarm. Designs were required to meet UFC and military design standards. Baker and another consultant design/build team are constructing a new facility to serve as an Armed Forces Reserve Center (AFRC) for units of the U.S. Army Reserve (USAR) and Texas Army National Guard. The USAR uses the AFRC for administrative activities, to plan and support operations, and to train unit personnel in their engineering specialties. Four separate buildings are being constructed on various sites on the Grand Prairie Reserve Complex, including a new 78,600-square-foot Administration building, 30,070-square-foot Storage building, 30,450-square-foot Facility Maintenance Storage (FMS) building, and a 4,900-square-foot Unheated Storage building.

Design/Build U.S. Army Reserve Center, Fort Lewis, Washington. *U.S. Army Corps of Engineers, Louisville District.* QA/QC. Provided design consultation to the electrical subconsultant and performed a technical quality review of the electrical construction documents. Systems included lighting, power distribution, lightning protection and grounding, telecommunications, security, and fire alarm. Designs were required to meet UFC and military design standards. Baker, partnered with a consultant is constructing a new 1,000-member 119,425-square-foot U.S. Army Reserve Center (USARC) on a 17-acre site. The USARC is comprised of a Training Center, Unit Storage Building, and an Organizational Maintenance Shop/Area Maintenance Support Activity (OMS/AMSA). Functional spaces were provided for classrooms, offices spaces, assembly hall, kitchen, lockers, toilets, janitor rooms, shower rooms, library and reading room, learning center, network operations, telephone room, IT rooms, electrical rooms, mechanical rooms, mail room, weapons simulator and control rooms, maintenance bays, battery room, OMS and AMSA office, tools and parts storage, battery room, sprinkler room, and unit storage armory and vault. The facility was designed to meet the Gold SPiRiT sustainability level.

David Hilliard, E.I.

Senior Mechanical / Plumbing Designer

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 work on the complex mechanical design of such projects as CAMC Memorial Hospital Cath Labs in Charleston, WV. 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 attending college, he used his HVAC work experience to evaluate mechanical problems and make design recommendations on numerous public and commercial buildings.

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

USGBC

Experience

Tobyhanna Army Depot IDIQ. Tobyhanna, Pennsylvania . *Department of Defense, Directorate of Public Works.* Mr Hilliard designed a series of projects under this IDIQ including the Radio Metrics Labs as well as renovations of building 5, working areas and latrines.

Little Kanawha Bus, Mt Zion, West Virginia. *West Virginia Department of Transportation, Division of Transit.* As project mechanical designer, Mr. Hilliard was responsible for the design of the multifaceted HVAC and plumbing systems including vehicle exhaust and office energy recovery systems. A vehicle bus wash water reclaim system was also included in the design. Mr. Hilliard also coordinated and worked with site, architectural and electrical designers to exceed ASHRAE 90.1 2007 Building Energy Standard.

A/E Services for the Charleston Armory Improvements, West Virginia Army National Guard, Division of Engineering and Facilities, Charleston, West Virginia. *State of West Virginia, Division of Engineering and Facilities.* Project Engineer. Responsible for detailed design, QA/QC, construction administration and inspection. The Facilities Management Officer (FMO) for the State of West Virginia, Division of Engineering and Facilities (DEF), West Virginia Army National Guard (WVARNG) selected Baker for architectural and engineering services. The State Army National Guard Headquarters in Charleston, West Virginia was originally constructed in the early 1960's. Over the years, there have been numerous upgrades to the facility. Baker was selected by the Division of Engineering and Facilities to provide complete design and construction administration services for architectural improvements of the first floor of the Office of the Adjutant General (TAG), and further provide MEP and HVAC design improvements for the entire TAG Wing, Headquarters 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.

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 at the WV State Capitol Building.

A/E Services for the Capitol Campus Master Plan, State of West Virginia, Charleston, West Virginia. *State of West Virginia, General Services Division.* Project Engineer. Mr. Hilliard is currently providing the State of West Virginia General Services Division MEP engineering support for 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, Mr. Hilliard is currently providing MEP support for many planning 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

CAMC Memorial, Kanawha City, West Virginia

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

Raleigh General Hospital Surgery Suite; Beckley West Virginia

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

Ashland Community and Technical College; Ashland, KY

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

West Virginia Army National Guard support Maintenance Shop; Eleanor WV

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

Mountain State University School of Business and Applied Technologies; Beckley WV

Mr. Hilliard worked on Design Evaluation and Coordination of the Mechanical System. He prepared shop drawings and coordinated construction.

Southern West Virginia Community and Technical College; Mount Gay WV

Mr. Hilliard was charged to Value Engineer and Coordinated Construction of this three story building. He prepared VE shop drawings which were instrumental in returning money to the owner.

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 prepared shop and construction drawings for the HVAC system including gas unit heaters, Carmon retractable auto fume exhaust and make-up air facilities.

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.

Other miscellaneous projects

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

Kings Daughters Medical Center Parkview addition, Ashland, KY

Emergency Response Center (911) Huntington, WV

Army National Guard Construction & Facilities Management Office, Charleston, WV

Mountaineer Challenge Academy, Camp Dawson Kingwood, WV

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 (QuickPen software), construction management, submittal review, procurement of supplies and air balancing were also part of his working experience at Air Systems.

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.

Xenia Construction Co., 1979 - 1984, ***Commercial Carpenter/Mason.*** Worked as a carpenter and concrete mason building midsized commercial buildings and half million dollar homes.

Brown & Root Construction Co., 1975 - 1978, ***Structural Fitter.*** In Houston Texas, Mr. Hilliard worker high steel in an Arco Petroleum Refinery as a pipe hanger fitter. The work included; layout, fabrication and installation of steel supports and hangers for pipe ranging from 1.5" to 102" in diameter.

Nicole M. Stoudt, P.E.

Structural Engineer

General Qualifications

Ms. Stoudt is a structural engineer skilled in performing investigations and condition assessments of existing structures, design of new buildings and renovations, and failure analysis of structural systems. Her experience includes military, education, commercial, transit, and aviation projects.

Years with Baker: 10

Years with Other Firms: 2

Education

BS, 1997, Architectural Engineering, The Pennsylvania State University

BSc, 1996, Geo-Environmental Engineering, The Pennsylvania State University

Licenses/Certifications

Professional Engineer, Pennsylvania, 2003, PE061878

Experience

Barnard Elementary School Construction Services, Washington, DC. *U.S. Army Corps of Engineers, Baltimore District.* Assistant Engineer. Responsibilities included a portion of the structural design of this new two-story elementary school. Designed the load-bearing masonry wing including the lateral force-resisting system that consists of masonry shear walls, and for the cast-in-place concrete retaining walls necessary to form the basement area beneath the steel-framed wing. Baker provided intensive on-site construction support services. The new facility provides classrooms, a library, a gymnasium, and administrative offices for 530 students.

Classroom Additions and Renovations, U.S. Military Academy, West Point, New York. *DDESS - Domestic Dependent Elementary and Secondary Schools.* Structural Engineer. Responsibilities included the structural design for this 7,500-square foot one-story classroom addition. The structural system consisted of load-bearing masonry walls with pre-engineered light gage roof trusses. Science classrooms were renovated at the Middle School. The existing roofing was replaced, and water damage to ceilings, walls, and exterior brick and stone work repaired. A new 7,500-square-foot six-classroom addition was also completed for the Elementary School. Due to the historic nature of the property, the work required approval by the New York State Historic Preservation Office, as well as coordination with the Military Academy's Master Plan. Anti-terrorism/force protection design features included the addition of a parking lot with the appropriate building set-backs to meet the Corps design standards. Baker completed field investigations, conducted a design charrette with all project stakeholders, and prepared design and construction documents, conceptual rendering, value engineering, and designated construction phase services for the 7,500-square-foot classroom addition to Elementary School Building 705-A.

Historic Restoration of John Sutton Hall, Indiana University of Pennsylvania, Indiana, Pennsylvania. *Indiana University of Pennsylvania.* Assistant Engineer. Responsibilities included the review of structural engineering shop drawings for the renovation project. Baker designed the Phase I historic restoration of the first building on the campus of Indiana University of Pennsylvania (IUP), the prestigious "Old Main" constructed in 1875, listed as a landmark on the National Register of Historical Places. The 135,000-square-foot building consists contains offices for human resources, university housing, and admissions. Major project components included replacement of the heating and ventilation system, addition of an air conditioning system; interior space planning and relocation of departments; a new service entrance and freight elevator; replacement of all windows with energy-efficient units capable of meeting historic guideline standards; toilet room, including upgrades consistent with the Americans with Disabilities Act; and exterior work, including new storm drains, sanitary lines, fire lines, water lines, foundation drains, site lighting, walkways, handicapped-accessible entrances, and other exterior treatments.

Electrical Upgrades of Harmony Hall, The Pennsylvania State University, Beaver Campus, Pennsylvania. *The Pennsylvania State University.* Structural Engineer. Provided a quality control review of the structural drawings for the fire protection upgrade of the three-story Harmony Hall dormitory. Baker provided architectural, structural, and electrical engineering services in conjunction with a fire protection upgrade of an existing three-story dormitory on Penn State's Beaver Campus. A site inspection was performed to review the existing conditions of the structure, which included architectural finishes, structural systems, and building utilities. Baker's inspection report provided documentation of the building systems along with a cost estimate for upgrades. After consultation with the university to determine the scope of the upgrade, Baker provided engineering design and construction documents for the project.

Fort Knox High School Design, Ft. Knox, Kentucky. *DDESS - Domestic Dependent Elementary and Secondary Schools.* Assistant Engineer. Assisted in the structural design for the new school. The structural system consisted of reinforced load-bearing masonry shear walls with pre-engineered light gage trusses. The system included conventional reinforced-concrete foundations. Baker provided design for renovation of the existing school, as well as plans for a new building and gymnasium, totaling 93,682 square feet. The new school is designed to accommodate DODEA students in grades 9 through 12.

Condition Assessments of School Facilities for Special Education Programs, Department of Defense Education Activity (DoDEA), Nationwide. *Department of Defense Education Activity (DoDEA).* Team Member. Assisted in gathering data for DoDEA schools across the United States. Baker examined the adequacy of special education facilities and services available to the dependent children of uniformed personnel stationed in the United States, which involved approximately 800 schools located around the country. The study examined the population of Special Education students, and identified operational, renovation, and new construction costs associated with meeting the needs of these students. With changes in the military, such as base closures and realignments, some school districts experienced sudden, tremendous increases in enrollment in districts ill-prepared to cope with the surge. Baker developed several measures for identifying "at risk" districts, so that 130 schools were given top priority. Design Guidelines previously developed by Baker for the Department of Defense Education Activity, as well as Federal and State standards, were the benchmark for measurement. A report provided data and analysis on each school, as well as corrective actions required and their associated costs.

Intermodal Facility, Robinson Town Centre, Robinson Township, Pennsylvania. *Port Authority of Allegheny County.* Structural Engineer. Responsibilities included structural calculations and the layout of the structural members of this two-story precast concrete parking garage. The Robinson Town Centre Intermodal Facility is a part of the network of Park-n-Ride facilities providing convenient bus access for Port Authority's patrons. Constructed on approximately 8 acres, the facility includes: 865 Park-n-Ride spaces with 400 spaces in an elevated parking garage; bus stops with sheltered passenger waiting areas; Kiss-n-Ride drop-off area; commercial development space provisions; and bus layover area.

Unaccompanied Enlisted Airman's Dormitory, Scott Air Force Base, Illinois. *U.S. Army Corps of Engineers, Louisville District.* Assistant Engineer. Assisted in the structural design of this new three-story dormitory. The structural design included a steel-framed gravity system with special moment and braced frames for the lateral system. Progressive collapse design prevention was implemented in accordance with the anti-terrorism and force protection standards. Conventional spread footings support the building. This Design/Build project is a 47,981square foot Unaccompanied Enlisted Personnel Dormitory at Scott AFB replacing inadequate on-base housing and providing 30 four-bedroom modules that will house 120 Air Force personnel. Baker was directly responsible for the architectural, landscape, interior design, fire protection/life safety design, and structural engineering design; as well as design team coordination for civil, mechanical, electrical, and plumbing design; conducting Independent Technical Reviews, and LEED® design coordination. The facility incorporates many sustainable design features and is designed to achieve LEED® Silver certification from the U.S. Green Building Council.

Aviation Brigade Barracks, Ft. Campbell, Kentucky. *U.S. Army Corps of Engineers, Louisville District.* Structural Engineer. Provided structural design for the new three-story aviation barracks. Structural system consists of load-bearing light gage steel walls with light weight concrete floors on light gage joists and a pre-engineered light gage truss roof system. The foundation system consists of conventional reinforced-concrete spread footings. This new Design/Build Aviation Brigade Barracks is a complex of two-bedroom, one-bath apartments, which houses 384 soldiers. The project consists of a facility which functions as an Unaccompanied Enlisted Personnel Housing (UEPH), and is designed so that this new facility is similar both functionally and technically to housing in the surrounding private sector community. Baker provided planning and full comprehensive architecture and engineering services including interior design and landscape architecture services as the prime designer on this contract. The building is designed to receive SPiRiT Gold (or LEED® Silver) accreditation.

Telecom Hotel Regeneration Site, Plainfield, New Jersey. *Whiting Turner Contracting Company, The.* Structural Engineer. Responsible for the structural design of foundations, structural steel, and reinforced masonry. The design included a steel interior frame with exterior perimeter reinforced masonry shearwalls. Baker surveyed, completed grading drawings, and submitted and received all permits, civil and environmental, to build a 2,500-square-foot Telecom Hotel located in Plainfield, New Jersey. Baker was also responsible for acting as agent for the client during all public meetings with the agencies and public.

Office Building 100 and Parking Structure, Airside Business Park, Moon Township, Pennsylvania. *Airside Business Park, L.P.* Structural Engineer. Responsibilities included the structural design of the three-story office building. The structural system consists of exterior load-bearing concrete tilt-up walls with interior steel framing system of beams and columns. The foundations consist of reinforced-concrete spread footings. This new 117,000-square-foot design/build-to-suit office building was custom-designed to serve as a corporate headquarters, yet offers the built-in flexibility to accommodate potential new tenants in the future. A training facility is provided, as well as a suite of conference rooms on each floor. The combined use of both movable glass and solid wall partitions enable quick and easy reconfiguration of spaces. Under-floor power and communications cabling and carpet squares allow easy reconfiguration of networks and electrical outlets. Phones run from a data network, so that each phone is addressable through programming and extensions can be redirected without moving wires. Separate air handlers are provided for each floor, to accommodate future usage by multiple tenants. A parking deck was constructed to accommodate the office park tenants. The three-level 260-vehicle structure, constructed above ground-level surface parking for 150 vehicles, was designed using precast concrete panels to match the office building design.

Laboratory for Telecommunication Sciences, Confidential Location, Maryland. *Corporate Development & Construction Services, LLC.* Assistant Engineer.

Assisted in the structural design of a new three-story laboratory/classroom building. The structural system consisted of cast-in-place concrete beams and columns. This research laboratory includes an auditorium, conference and classroom facilities, offices, a library, and break room and comprises 85,200 square feet.

Installation of a Ultra-Violet Wastewater Treatment System, White Sands Missile Range, New Mexico. *U.S. Army Corps of Engineers, Fort Worth District.* Structural Engineer. Designed the foundation system to support a new pre-engineered structure that houses a new UV treatment system. Foundation system consists of reinforced-concrete retaining walls and conventional concrete-spread footings. Repairs and upgrades were required to the existing one million gallon per day Sewage Treatment Plant at White Sands Missile Range to meet new regulatory standards. Included in the work were provisions for ultraviolet disinfection of effluent from the main post wastewater treatment plant, as well as expansion of the present plant site to enclose the equipment in a new prefabricated metal building. Testing and analysis of wastewater, determination of

appropriate treatment systems, and development of a design-build specification for the treatment system were accomplished.

Academic Support Building Forensic Inspection and Deficiency Corrections, Milton S. Hershey Medical Center, Hershey, Pennsylvania. *The Pennsylvania State University.* Structural Engineer. Responsibilities included review of the structural details for the forensic inspection of this existing five-story building. Baker provided architectural forensic inspection services of an existing five-story 150,000 square-foot Academic Support Building located at the Milton S. Hershey Medical Center on The Pennsylvania State University's campus. The forensic services were related to air and water infiltration through the building's exterior envelope into occupied spaces. On-site inspections were performed to review the exterior façade, including pre-cast wall systems, curtain wall and window systems, metal wall panels, and exterior louvers along with exterior flashing and joint sealants. The inspections included both destructive (isolated and minimal) and non-destructive means of accessing critical assemblies in order to determine as-built conditions. Baker provided a detailed report of findings to the university, documenting observed existing conditions, including design and construction deficiencies, and recommendations for corrective action, as well as various repair details/options for consideration by the university. Bid and limited construction phase services were also provided.

North Shore Riverfront Park, Pittsburgh, Pennsylvania. *Sports and Exhibition Authority of Pittsburgh and Allegheny County.* Structural Engineer. Responsible for the renovation of the existing war memorial in Pittsburgh's new Riverfront Park. Design responsibilities included providing four new reinforced-concrete retaining walls with granite fascia and new reinforced-concrete planters. The North Shore Riverfront Park project consists of a new public park along the Ohio and Allegheny Rivers. The project involved a multi-discipline civil, structural, transportation, electrical and landscape architectural design team for a large urban riverfront park. Park design included specialty water features with recirculating waterfalls, pedestrian bridges, piers, commercial and private river traffic docking facilities, utility relocations, new utilities, public art, and landscaping. The project presented all the challenges of design in a highly urbanized area: coordination with numerous underground utilities, relocation of facilities to accommodate construction, water and sewer lines for future development and coordination with permitting agencies.

Previous Work History

Simpson, Gumpertz & Heger, Inc., Boston, Massachusetts, Engineer, 1998-1999
Wiss, Janney, Elstner, Inc., Fairfax, Virginia, Intern, 1996

Computer Skills

Bentley RAM Structural System
Bentley STAAD.Pro - Structural Analysis
EnerCalc
Microsoft Excel
Microsoft Word
SpecsIntact
Structural Optimization Design and Analysis

R. Todd Schoolcraft, PLA, ASLA

Landscape Architect

General Qualifications

Mr. Schoolcraft has over 19 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.

Years with Baker: 4

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

Experience

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 and 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.

Pennsboro Trailhead, Depot and Old Stone House Restoration. *City of Pennsboro and the Ritchie County Historical Society.* Project Manager. Responsible for design, document quality oversight, and construction administration. Originally built in 1810, the Old Stone House served as a hotel/boarding house for frontiersmen heading west on the Northwest Turnpike, and continued to serve east-west travelers along what became U.S. 50 well into the 20th Century. Now the house serves a museum to the time period in which it was built. The residents also have preserved the train depot in town commemorating the town's place in America's railroad heritage. The former Baltimore and Ohio rail bed has become the North Bend Rail Trail. The rail trail provides over 50 miles of trail between Clarksburg and Parkersburg WV for hikers, bikers, and horseback riders. The Old Stone House and the restored depot are also located along the trail. In an effort to develop a formal trailhead destination on the North Bend Trail, as well as preserve and further restore the Old Stone House and Depot, Ritchie County Historical Society, in cooperation with the City of Pennsboro, selected Michael Baker Jr., Inc., and Pickering Associates to develop plans and specifications, and further provide bidding and construction services for extensive facility improvements.

City of Parsons Sidewalk Improvements Project, Parsons, West Virginia. *City of Parsons.* Project Manager. Responsible for design and document quality oversight. Baker performed complete planning, design, and construction management services for new sidewalks and storm sewer improvements for various locations in historic Parsons, Tucker County. The improvements included concrete sidewalks with adjacent 2-foot lawn panels, new curbing, driveway curb cuts, ADA accessible curb ramps with truncated domes, ladder-style crosswalks, storm water improvements, benches, trash receptacles, and landscaping. The final design made accommodations for original wrought-iron fencing at various locations, and a historic "carriage step" from the turn of the century. Baker is currently providing construction administration and periodic site review during construction.

A/E Services for the Office of the Adjutant General, West Virginia Army National Guard, Division of Engineering and Facilities, Charleston, West Virginia. *State of West Virginia, Division of Engineering and Facilities.* Project Manager. Responsible for design and document quality oversight. The Facilities Management Officer 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

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.

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.

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 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.

Hancock County Courthouse and Police Station ADA 504 Plan, New Cumberland, West Virginia. *Hancock County Commission.* Project Manager. Responsible for field inventory and analysis, plan preparation, research and review. Prepared an ADA Section 504 Transition Plan for the Hancock County Courthouse and the Hancock County Jail. After extensive inventories of the courthouse and jail facilities, the many existing obstacles and barriers were identified that deter public access. The accessibility assessment was then prepared to include a Policy of Non-Discrimination, Self-Evaluation for Compliance with Section 504 of the Rehabilitation Act of 1973, survey of items not in compliance with Americans with Disabilities (ADA) Act standards, recommendations for improvements of the identified problems with projected dates for completion, and a list of vendors able to supply the needed equipment, material, or hardware needed.

Logan County Courthouse Accessibility Improvements, Logan, West Virginia. *Logan County Commission.* Project Manager. Responsible for design and document quality oversight. Prepared detailed design, construction documents, provided bidding and construction management services for improvements to the Logan County Courthouse in Logan, WV. Project consisted of the design and construction of a new wheelchair accessible ADA compliant concrete ramp that was sympathetic to the existing structure and fit well into the architectural fabric and style of the building. Other improvements included granite veneer panels, ornamental aluminum handrails, automatic door openers, security upgrades (swipe cards), concrete sidewalks and curbing, lighting, concrete retaining walls, truncated dome panels, and benches.

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 111th Engineer Group, West Virginia Army National Guard (WVARNG) was tasked to perform various improvements to Camp Arifjan through the Directorate of Public Works (DPW) and the Post Engineer. Projects included the Camden Yard Engineer Troop Wash Point; DPW Morale, Welfare and Recreation (MWR) Restroom Facility; DPW Third Country Nationals (TCN) Restroom Additions; and many other improvements.

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 – ASLA; 2009 Merit Award – Historic Wellsburg / Bethany Scenic Byway
- WV Chapter – ASLA; 2008 Merit Award – Kanawha/Putnam County Bicycle – Pedestrian Plan
- WV Chapter – ASLA; 2005 Merit Award – Russell Residence House and Site Improvements
- United States Army; 2003 Bronze Star – Operation Iraqi Freedom
- ASLA; 1999 Medallion Award – Charleston Village District Streetscapes
- WV Chapter – ASLA; 1999 Merit Award – Tamarack: The Best of West Virginia
- WV Chapter – ASLA; 1995 Honor Award – NorthGate Business Park

Laura L. Cox, PLA, ASLA, LEED Green Associate

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.

Years with Baker: 3

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

LEED Green Associate, 2010

Professional Affiliations

American Society of Landscape Architects

WV Chapter – American Society of Landscape Architects

WV Chapter – American Institute of Architects

Experience

Parsons City-Wide Comprehensive Parks and Recreation Master Plan, Parsons, West Virginia. *Parsons Parks Board.* Project Planner. Responsible for assisting in the master planning design. Baker is 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. The City of Parsons, over time, has acquired many parcels of FEMA-condemned properties due to the flood prone topography of Parsons. In and 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 will be 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. Responsible for design and construction document preparation. Baker will prepare construction documents and provide construction administration and construction inspection for three (3) parks along the Ararat River in North Carolina. The designs will be 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 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 will include 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. Providing assistance in field inventory and

analysis, plan preparation and graphic support. 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.

Country Roads Scenic Byway Corridor Management Plan, Boone, Logan and Mingo Counties, West Virginia. *Coalfield Convention and Visitors Bureau.* Project Landscape Architect. Responsible for field inventory and analysis, community input facilitation, and document preparation. Baker prepared 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. Responsible for design and construction document preparation. Baker performed 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 will have a unique colored stamping of natural elements found in West Virginia, such as leaves and ferns, animal tracks, and flowers. Baker will 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. Responsible for design and construction document preparation. Baker 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

St Albans High School, St Albans West Virginia, St. *Albans School Board.* Staff Landscape Architect/ Civil Designer - 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. 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 - 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 - Prepared Complete Phased Civil/Site Construction Drawings for rural campus plan, which included extensive site grading along with a sustainable underground storm collection system.

Erma Byrd Center, Beaver, Raleigh County, West Virginia. *Southern West Virginia Community and Technical College.* Project Landscape Architect. Responsible for master planning of the campus, detailed design, and site construction document preparation. 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. Responsible for storm sewer design for a new recreational feature for the Park. Services included site drainage analysis and design of storm conveyance system.

Byrd Park Redevelopment Master plan, Richmond, Virginia. *Richmond Parks and Recreation Board.* Project Manager. Responsible for 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. Prepared Complete Landscaping and Entrance Area Ramps/Stairs Plans addressing ADA and force protection issues.

Logan Readiness Center, Logan, West Virginia. Staff Landscape Architect. Designed parking lot and sidewalk system and prepared Landscaping Plan

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

Morgantown National Guard Facility, Morgantown, West Virginia. Staff Landscape Architect. Provided conceptual site plan for submission to client.

PREVIOUS WORK HISTORY

ZMM, Inc., Architects & Engineers, MAY 2000 – NOVEMBER 2007, *Landscape Architect,* Performed planning and site design functions, permit processing, software implementation and training. 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. Involved in all phases of design from site analysis and conceptual planning through construction documentation and administration. Prepared large scale site preparation and grading plans, provide drainage analysis, prepare storm water conveyance and detention plans, and produce utility and infrastructure design and worked with government agencies to obtain approvals and permits. In addition to design responsibilities, 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,* Provided civil, architectural, and environmental design and drafting services, Provided Instruction of on and offsite AutoCAD classes. 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. 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, Supervisor of the processing of land use applications. Supervision of a design review team; 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; Answering public inquiries; Representing the county at public meetings. Providing 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,* Oversight of office procedures and performed and supervised a broad spectrum of planning tasks. Staffing, organizing, marketing and supervising the equipping of an office for a new planning firm; Management of both office and planning staff; Overseeing all client contacts; Preparation and negotiation of contracts and billing; 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,* Supervisor of all phases of planning and landscape architecture. Responsibilities included: Management of a

planning team involved in various planning functions; Coordinating with and assisting clients' attorneys in obtaining rezoning, special exceptions and special use permits; Involved in contract preparation, negotiation and billings; Representing 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*, Responsible for small and large scale landscape design, civil design and graphics presentations. Staffing and supervision of a squad of design and drafting personnel; Preparation of site, subdivision and landscape plans in Fairfax and Loudon Counties.

Paciulli, Simmons and Associates, APRIL 1984 - OCTOBER 1984, *Designer*, Responsible for the design of commercial and residential site plans. 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*, Responsible for highway design including repair and improvement. Horizontal and vertical layout of roads, quantity calculations, report graphics and drafting.

Daniel K. Fint, P.E.

Civil Engineer

Years with Baker: 10

Years with Other Firms: 1

Education

B.S., 1998, Civil Engineering, West Virginia Institute of Technology

Licenses/Certifications

Professional Engineer, West Virginia, 2003, 015428

Methods for Stream Channel Assessmnt&Analysis - I, West Virginia, 2002

Methods for Stream Channel Assessmnt&Analysis - II, West Virginia, 2003

General Qualifications

Mr. Fint has10 years of civil engineering experience. His experience includes nearly every aspect of highway design and plan preparation. In addition to his time with Baker, his experience includes a summer internship with West Virginia Department of Transportation, and a summer internship with another firm, where he gained experience as a construction inspector, and surveying. He also has vast experience on bridge inspections, and compiling the reports. He is also very proficient with MicroStation and Geopak design software.

Experience

Moorefield Bypass, Moorefield, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Civil Associate. Responsible for the preparation of preliminary construction plans for the five miles of divided highway, earthwork quantities, setting horizontal and vertical control for the project, while avoiding historical properties and minimizing visual impact. As part of this project, Baker prepared a Purpose and Need Study to construct an approximate 5-mile roadway to serve as a bypass of the center of Moorefield in Hardy County, West Virginia. The project was developed to address the region's increasing transportation demands and growing traffic safety concerns.

Jennings Randolph Bridge, S.R. 0030 (Over the Ohio River), Chester, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Civil Associate. Participated in the 1998 Interim Inspection of the main truss and three separate approach spans and compiled the Inspection Report. Baker performed a detailed inventory and in-depth inspections of a steel bridge measuring 844.3 meters (2,770 feet) in total length. Annual inspections are also conducted to monitor existing cracks in the steel structure and bearings. Periodic inspections include removal of steel closure plates at truss joint connections to inspect the interior of the box-shaped truss chords.

New River Gorge Six-Year Bridge Inspection, Fayetteville, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Civil Engineer. Participated in the 2005 Interim Inspection of the arch bridge and assisted in compiling the Inspection Report. The New River Gorge Bridge has appeared in various media advertisements, it carries West Virginia Route 19 over the New River inFayette County, West Virginia. Baker performed final design on this structure and has been the only consultant performing in-depth and periodic inspections since its construction in 1977.

Route 60 Environmental Assessment, Kanawha County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Civil Associate. Responsible for the study of three alternatives to upgrade a four mile section of the existing two lane to a four lane. Various median widths and different profiles to accomodate the steep terrain and allow for median cross-over were studied. Coordination with cultural and environmental resources was required. The West Virginia Department of Transportation (WVDOT) in conjunction with the Federal Highway Administration (FHWA) is proposing to upgrade

U.S. Route 60 in Kanawha County, West Virginia. The project begins near the US 60 intersection with County Route 85 (south of Hugheston), and generally extends west approximately 3.6 miles, ending approximately 0.29 miles west of WV 6 (north of Montgomery). Existing US 60 is a two-lane facility that currently exhibits increased congestion and reduced safety due to unlimited access from communities adjacent to the road. The upgrade will result in increased safety and reduced congestion for through-traffic and vehicles entering and exiting US 60. Baker prepared collected all natural, physical, and environmental baseline data and prepared an Environmental Assessment for the proposed project.

South Carolina Floodplain Mapping Program, Statewide, South Carolina. *Watershed Concepts.* Civil Engineer. Responsible for QA/QC check of flood-plain models and mapping. Baker has been assisting the State of South Carolina since 2005 with their floodplain mapping program consistent with the Federal Emergency Management Agency's Map Modernization Program. Flood maps are being modernized by new detailed study, redelineation, and limited detail (approximate); and conversion to Digital Flood Insurance Rate Maps (DFIRMs) in Geographic Information System (GIS) format with associated databases.

Wheeling South Bridge, Triadelphia, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Civil Associate. Assisted with completion and revision of construction plans. Baker provided West Virginia Department of Transportation, Division of Highways (WVDOH) with complete design plans, specifications, quantities, estimates and post design services on the project.

I-64/U.S. 35 Interchange Study, I-64 to WV 34 Interchange, Putnam County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Civil Engineer. Under the first phase, responsible for the study of line and grade options for the interchange sites. Under the final phase, responsible for the preparation of construction plans for the six miles of divided highway and two interchanges. Also responsible for earthwork quantities, setting horizontal and vertical control for the project, while minimizing impacts to adjacent property owners. Also coordinated stream mitigation, Right-of-Way and CADD work. This project under first phase was for the study of two interchange sites on I-64, Cow Creek and Crooked Creek.

This project under the final phase was for the complete preparation of right of way plans and construction plans for a new location of US 35 from I-64 (Crooked Creek location) to and including an interchange with WV 34.

HEC-GeoRAS Modeling of Levisa Fork Tributaries, Floyd County, Kentucky. *U.S. Army Corps of Engineers, Huntington District.* Civil Engineer. Responsible for the development of HEC-RAS models for calibration and mapping multiple flood boundaries. Project involved developing multiple water surface profiles including the 100-year profile for tributaries to the Levisa Fork in Floyd County, KY. HEC-GeoRAS was used to extract cross section information from a TIN and plot flood boundaries. HEC-RAS model was calibrated to the April 1977 flood. Project is to support a Section 202 Flood Proofing Program.

Avis Overhead Bridge Replacement, Hinton, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Civil Associate. Involved in deed research and right-of-way questionnaires for affected properties. Using Microstation and Geopak, studied several line and grade options for this proposed bridge and approaches. The bridge was designed by Baker for the West Virginia Department of Transportation. This five-span bridge measures 483 feet in length and carries WV Route 107 over the CSX Railroad in the town of Hinton, Summers County, West Virginia. The spans measure 84', 105', 105', 105', and 84' in length. The bridge deck is 39'-4" wide and carries two lanes of highway traffic and a 5'-1¼" wide sidewalk. The superstructure consists of four steel welded plate girders spaced at

11'-0" supporting the 8½" thick concrete deck. The superstructure is supported by two abutments and four piers.

Appalachian Corridor H, Section 6, E. Hardy County 220/8 to WV 55 Interchange, Moorefield, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Civil Engineer. Responsible for the preparation of construction plans for six miles of divided highway, earthwork quantities, setting horizontal and vertical control for the project, which included two interchanges, and two median transitions, while avoiding historical properties and minimizing visual impact to historical properties. Assisted in coordination of Right of Way and CADD work. This project involved the study, design and final construction plan development for a new roadway beginning 0.6 miles southeast of Hardy County 220/8 and continuing eastward 6.6 miles to an interchange with WV 55. This project included an interchange with the Moorefield Bypass, a ramp connector road south of the corridor west from the possible future Moorefield Bypass to a proposed reconstruction of US 220, a closure study of the floodwall on the north end of Moorefield near this Section 6 proposed highway location, six bridges and completion of an interchange (two ramps) with WV 55 on the east end of the project.

Consol-Miller Creek Preliminary Roadway Design, West Virginia. *Consol, Inc.*. Civil Engineer. Responsible for the development of preliminary construction plans and cost estimate for a divided four-lane highway that is proposed to be built on a post-mining site. The purpose of this project was for the study and the development of a preliminary alignment for an eight mile section of a four-lane divided highway.

Cove Point General Service Agreement, Lusby, Maryland. *Dominion Cove Point LNG, Limited Partnership.* Bridge Inspector. Participated in the 2006 inspection of the offshore LNG platform. Baker performed a structural inspection of the precast concrete superstructure platforms at the out-of-service Cove Point Liquefied Natural Gas (LNG) offshore terminal. The inspection and subsequent repair recommendations were essential to obtaining Federal Energy Regulatory Commission (FERC) approval to re-open the platform for LNG delivery operations.

Dominion - Microwave and Radio Towers, Pennsylvania, Ohio, and West Virginia. *Dominion Transmission, Inc.*. Bridge Inspector. Participated in the 2006 inspection of the offshore LNG platform. The project involved developing a wireless Sonet Ring for the communications network of Dominion Transmission's natural gas pipeline network in Pennsylvania, Ohio, and West Virginia. Approximately 25 tower facilities were involved.

Previous Work History

West Virginia DOT, Division of Highways, Inspector, Summer 1997
Morgan France, Engineer, Summer 1995

Continuing Education/Training

Stream Restoration and Stabilization in the Vicinity of Road Crossings Course, Pennsylvania State University/MBJ, 2003 - 14 PDHs, 1.4 CEUs

Professional Affiliations

Active Member, American Society of Civil Engineers (ASCE)
Past President, West Virginia American Society of Civil Engineers Younger Members Forum
Current West Virginia Section American Society of Civil Engineers Webmaster

Carolyn Staskiewicz, REFP
Vice President of Operations

EDUCATION

The Ohio State University
B.S., Management

ACHIEVEMENTS

Recognized Educational Facility Professional

President, 2009 Council of Educational Facility Planners International: Ohio Chapter

Presenter, 2005 CEFPI International Conference, "Arkansas Statewide Facility Assessment: 80 Million Square Feet in 80 Days"

Presenter, 2004 CEFPI Midwest/Great Lakes Regional Conference

RECENT PUBLICATIONS

"Dealing with Declining Enrollment," *American School Board Journal*, Accepted-TBD 2009

"Construction Cost Analysis Helps Wake County Schools Determine Best Practices," Case Study, March 2007

"The State of School Buildings," *American School Board Journal*, October 2005

"Arkansas Statewide Facility Assessment," *School Business Affairs*, June 2005

"How to Develop a Successful Master Plan," *School Planning & Management*, July 2001

Since joining **DeJONG** in 1998, Ms. Staskiewicz has been involved in a multitude of educational planning efforts across the country. Her career in planning began with the completion of the Ten Year Comprehensive Educational Facilities Plans for six counties in West Virginia for 2000-2010 in conjunction with WV State Board Policy 6200. She is now recognized as an expert witness in her field by the State of Maryland. Currently, Ms. Staskiewicz is leading the master planning efforts for the Clark County School District in Las Vegas, Nevada.

During 2008, she developed enrollment projections and housing analysis studies in Seattle, Washington, completed a facility master plan in Berea, Ohio, and provided a master plan update to Bridgeport Public Schools in Connecticut.

Ms. Staskiewicz has directed **DeJONG**'s role as program manager for two statewide projects. She served as the Needs Survey project manager for the Massachusetts School Building Authority, gathering baseline data for the 1,817 schools in the Commonwealth covering over 170 million square feet of educational space. Prior to working with the MSBA, Ms. Staskiewicz co-directed facility assessments for 80 million square feet of educational space in the State of Arkansas.

Notably, Ms. Staskiewicz assisted the Needs Assessment Committee appointed by Memphis City Schools and Shelby County Schools in determining standards for capital expenditures and establishing an equitable, on-going method of professionally identifying the short and long term needs of both school systems. Part I of these services included a preliminary report with recommendations for square foot per student and cost per square foot at the elementary, middle and high school levels. For Part II of their plan, Ms. Staskiewicz and the Needs Assessment Committee completed enrollment projections and a build-out scenario study for the two districts.

In addition, she facilitated the Orange County Public Schools Master Plan in Orlando, Florida. A 2002 sales tax referendum passed in Orange County and 136 of the 160 school facilities were identified for comprehensive renovations. As part of the **DeJONG** process, an educational framework was developed and overlaid onto existing conditions of each school. Ms. Staskiewicz then formulated a scope of work and budget to provide clear direction for OCPS to undertake this massive construction program.

Additional master planning projects include the District of Columbia Public Schools and the Akron Public Schools, where she facilitated the Accelerated Urban Program in conjunction with the Ohio School Facilities Commission.

RECENT EDUCATIONAL PLANNING EXPERIENCES

- **Clark County School District, NV:** *Educational Adequacy Assessments, Comprehensive Facility Master Plan, Miley Achievement Center Educational Specifications*
- **State College Area School District, PA:** *Facility Master Plan & Assessments*
- **Bridgeport Public Schools, CT:** *Enrollment Projections, Boundary Adjustments, Facility Master Plan Update*
- **Seattle Public Schools, WA:** *Housing Analysis, Enrollment Projections [including enrollment projection training]*
- **Berea City School District, OH:** *Facility Master Plan*
- **Big Walnut Local Schools, OH:** *Enrollment Projections*
- **Memphis City and Shelby County Schools, TN:** *Enrollment Projections and Build-Out Scenario, Comprehensive Facility Master Plan*

PAST EDUCATIONAL PLANNING EXPERIENCES

- Baltimore City Public Schools, MD: *Facility Master Plan*
- Baltimore County Public Schools, MD: *High School Boundary Plan, Enrollment Projections*
- Dallas Independent School District, TX: *District-wide Educational Specifications*
- District of Columbia Public Schools, Washington DC: *Facility Master Plan*
- Fairfax County Public Schools, VA: *Capacity Study*
- Fargo Public Schools, ND: *Facility Master Plan*
- Ft. Worth Independent School District, TX: *Educational Framework Facilitation*
- Green Bay Area Public School District, WI: *Capacity Presentation*
- Howard County Public School System, MD: *Enrollment Projections*
- **Kanawha County Schools, WV:** ***Ten Year Comprehensive Educational Facilities Plan - 2000***
- **Marshall County Schools, WV:** ***Ten Year Comprehensive Educational Facilities Plan - 2000***
- Massachusetts School Building Authority: *Needs Survey Report*
- **Monroe County Schools, WV:** ***Ten Year Comprehensive Educational Facilities Plan - 2000***
- Montgomery County Public County Schools, VA: *Enrollment Projections*
- North Olmsted City Schools, OH: *Facility Master Plan*
- **Ohio County Schools, WV:** ***Ten Year Comprehensive Educational Facilities Plan - 2000***
- Ohio School Facilities Commission: Akron, OH: *Facility Master Plan*
- Orange County Public Schools, FL: *Comprehensive Facility Master Plan*
- **Pocahontas County Schools, WV:** ***Ten Year Comprehensive Educational Facilities Plan - 2000***
- **Randolph County Schools, WV:** ***Ten Year Comprehensive Educational Facilities Plan - 2000***
- South-Western City Schools, OH: *Enrollment Projections*
- State of Arkansas: *Statewide Facility Assessments*
- **State of West Virginia:** ***Master Plans for Eight County School Districts***
- University of Alaska-Fairbanks, AK: *Rasmuson Library Renovation*

Larry C. Nottingham, PhD, PE

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

Fields of Competence

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

Education

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

Registration/Certifications

Registered Professional Engineer in West Virginia, Kentucky, and Ohio

Employment History

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

Joseph L. Crowder, P.S.

Surveyor

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

General Qualifications

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

Experience

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

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

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

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

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

Non-Baker Project Experience

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Chief/Survey Supervisor.

Previous Work History

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

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

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

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

Site Blauvelt Engineers, Survey Party Chief, 1996-1997

Dunn Engineers, Survey Party Chief, 1993-1996

Professional Affiliations

West Virginia Society of Professional Surveyors (WVSPS)

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: 6

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.

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.

Part 8 – References

Prior to joining Baker, members of our firm acquired experience with WVSBA funded projects. Mr. Ron L. Bolen, our lead architect was involved in the following referenced projects while in the employ of other firms.

Mr. Jeff Brewer, Maintenance Director of Wyoming County Schools
(304-732-6262 ext 222)

Berlin - McKinney Elementary/Middle School – Wyoming County BOE
Mr. Bolen worked with Jeff Brewer and the Wyoming County Board of Education, providing Project Architect services from pre-design through all phases of document preparation, consultant coordination, client relations, and construction administration. This project consisted of the renovation of existing classroom space within the required state guidelines and was funded by the School Building Authority.

Westside High School Athletic Facility – Wyoming County Board of Education
Mr. Bolen worked with Jeff Brewer and the Wyoming County Board of Education, through all design phases of document preparation, and consultant coordination. This facility design provided a local at the existing high school with needed weight rooms, restroom and locker facilities, and a meeting room. This new facility design was to add to existing high school for athletic within the required state guidelines.

Huff Elementary School – Wyoming County Board of Education
Mr. Bolen worked with Jeff Brewer and the Wyoming County Board of Education, providing Project Architect services from pre-design through document preparation, consultant coordination, and client relations. This new facility design was to provide a well pump and filtration plant for the existing elementary school. The design for the treatment plant was an engineered water treatment plant incorporating iron removal process, plug reactors and polishing filters.

Dr. Clacy Williams, Former Director of School Building Authority
(304-755-0781)

Daniels Elementary School – Raleigh County BOE
Mr. Bolen provided Project Manager services for Raleigh County Schools and the School Building Authority 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 funded by the School Building Authority.

St. Albans High School – Kanawha County BOE
As Project Architect, Mr. Bolen provided services from design development through contract documents. This major renovation/addition design replaced and updated the existing school within the required state guidelines, and funded by the School Building Authority.

Roane County High School – Roane County BOE
Mr. Bolen provided Project Job Captain Services for the Roane County Schools and the School Building Authority from design development through all phases of document preparation, and consultant coordination. This new facility design replaced two existing schools within the required state guidelines, and was funded by the School Building Authority. This project won the state AIA Design Award.

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

- Central West Virginia Regional Airport Authority - Yeager Airport
  100 Airport Road, Suite 175
  Charleston, WV 25311-1080
  Mr. Richard A. Atkinson, III, Airport Director
  (304) 344-8033
- West Virginia Division of Transportation – Division of Highways
  1900 Kanawha Boulevard East
  Building 5, Room A-109
  Charleston, WV 25305
  Mr. Darrell Allen, P.E., Deputy State Highway Engineer
  (304) 558-3304
- WV Division of Homeland Security & Emergency Mgmnt., E-911 Mapping
  1900 Kanawha Boulevard East
  Building 1, Room EB-80
  Charleston, WV 25305
  Mr. Jimmy Joe Gianato, Director of Homeland Security
  (304) 558-5380
- U.S. Army Corps of Engineers – Huntington District
  502 Eighth Street
  Huntington, WV 25701
  Mr. David Meadows, P.E.
  (304) 399-5243
- City of Charleston
  915 Quarrier Street, Suite 5
  Charleston, WV 25301-2607
  Mr. Chris Knox, City Engineer
  (304) 348-8106

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

Request for Quotation

RFQ NUMBER	PAGE
EDD345321	1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
SHELLY MURRAY
304-558-8801

VENDOR
RFQ COPY
TYPE NAME/ADDRESS HERE
Baker
MICHAEL BAKER JR., INC.
5088 West Washington Street
Charleston, WV 25313

SHIP TO
WV DEPT. OF EDUCATION
1900 KANAWHA BLVD. EAST
BUILDING 6, ROOM B-360
CHARLESTON, WV
25305

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B	FREIGHT TERMS
01/07/2011				

BID OPENING DATE: 02/03/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		

EXPRESSION OF INTEREST

THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF EDUCATION, IS SOLICITING EXPRESSION OF INTERESTS FOR PROFESSIONAL ARCHITECTURAL SERVICES TO DESIGN AND PROVIDE CONSTRUCTION ADMINISTRATION FOR VARIOUS PROJECTS CONTAINED WITHIN THE 2000-2010 COMPREHENSIVE EDUCATIONAL FACILITIES PLAN (CEFP) FOR THE CEDAR LAKES EDUCATIONAL COMPLEX PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.

ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL

CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.

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.

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE James E. Hall TELEPHONE 304-769-0821 DATE February 3, 2011

TITLE Assistant V.P. FEIN 251 228 638 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
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Charleston, WV 25305-0130

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	****** THIS IS THE END OF RFQ EDD345321 ****** TOTAL:					N/A

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE Russell E. Hall TELEPHONE 304-769-0821 DATE February 3, 2011

TITLE Assistant V.P. FEIN 251 228 638 ADDRESS CHANGES TO BE NOTED ABOVE

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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
01/18/2011				

BID OPENING DATE: 02/03/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 1		
				THIS ADDENDUM IS ISSUED TO ATTACH THE WORK COMPLETED LIST THAT WAS INADVERTENTLY LEFT OUT OF THE ORIGINAL EXPRESSION OF INTEREST.		
0001	1	LS		906-00-00-001		
				ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL		

EXHIBIT 10

REQUISITION NO.: EDD345321

ADDENDUM ACKNOWLEDGEMENT

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

ADDENDUM NO.'S:

NO. 1 X

NO. 2 .....

NO. 3 .....

NO. 4 .....

NO. 5 .....

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.

SIGNATURE	TELEPHONE	DATE
Russell E. Hall	304-769-0821	February 3, 2011
TITLE: Assistant V.P.	FEIN: 251 228 638	ADDRESS CHANGES TO BE NOTED ABOVE

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

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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT

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.

Kenneth E. Hall
SIGNATURE

Michael Baker Jr., Inc.
COMPANY

February 3, 2011
DATE

NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.

---------- END OF ADDENDUM NO. 1 ----------

****** THIS IS THE END OF RFQ EDD345321 ****** TOTAL: N/A

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE Kenneth E. Hall | TELEPHONE 304-769-0821 | DATE February 3, 2011

TITLE Assistant V.P. | FEIN 251 228 638 | ADDRESS CHANGES TO BE NOTED ABOVE

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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B	FREIGHT TERMS
01/26/2011				

BID OPENING DATE: 02/03/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				---------- ADDENDUM NO. 2 ----------		
				THIS ADDENDUM IS ISSUED TO MODIFIY THE FOLLOWING SPECIFICATION:		
				CHANGE FROM:		
				MUST BE A REGISTERED EDUCATIONAL FACILITIES PLANNER (REEP).		
				CHANGE TO:		
				SHOULD BE A REGISTERED EDUCATIONAL FACILITIES PLANNER (REEP).		
001	1	LS		906-00-00-001		
				ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL		
				EXHIBIT 10		
				REQUISITION NO.: EDD345321		
				ADDENDUM ACKNOWLEDGEMENT		
				I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.		
				ADDENDUM NO.'S:		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE Jeanette E. Hall | TELEPHONE 304-769-0821 | DATE February 3, 2011

TITLE Assistant V.P. | FEIN 251 228 638 | 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
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Charleston, WV 25305-0130

Request for Quotation

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01/26/2011				

BID OPENING DATE: 02/03/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT

NO. 1 X

NO. 2 X

NO. 3 .....

NO. 4 .....

NO. 5 .....

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.

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SIGNATURE

Michael Baker Jr., Inc.
COMPANY

February 3, 2011
DATE

NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.

---------- END OF ADDENDUM NO. 2 ----------

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
	304-769-0821	February 3, 2011
TITLE **Assistant V.P.**	FEIN **251 228 638**	ADDRESS CHANGES TO BE NOTED ABOVE

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

RFQ No. **EDD345321**

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 exceed five percent of the total contract amount.

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

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

WITNESS THE FOLLOWING SIGNATURE

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

Authorized Signature: _____ Date: **February 3, 2011**

State of **West Virginia**

County of **Kanawha**, to-wit:

Taken, subscribed, and sworn to before me this 3rd day of February, 2011.

My Commission expires 4/14, 2013.

AFFIX SEAL HERE

NOTARY PUBLIC _____

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
STEPHANIE A. HENSLEY
c/o MICHAEL BAKER JR., INC.
5088 WEST WASHINGTON ST.
CHARLESTON, WV 25313
My commission expires April 14, 2013