

**STATEMENT OF QUALIFICATIONS
&
EXPRESSION OF INTEREST**

Architectural Planning & Design

1102 West Memorial Boulevard – Suite 107 – Huntington, West Virginia – 304-521-2929

for the

BUCKHANNON READINESS CENTER
DEFK 9015

Buckhannon, Upsur County, WV

February 26, 2009

RECEIVED

2009 FEB 25 A 9:53

PURCHASING DIVISION
STATE OF WV

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WV Purchasing Division

Statement of Qualifications

Resumes



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

**Request for
 Quotation**

DEFK9015

1

JOHN ABBOTT
 304-558-2544

RFQ COPY
TYPE NAME/ADDRESS HERE
 ARCHITECTURAL PLANNING & DESIGN
 ROBERT J. SUMMERFELDT, A.I.A.
 1102 WEST MEMORIAL BOULEVARD SUITE 107
 HUNTINGTON, WEST VIRGINIA 25701

**DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION**
 1707 COONSKIN DRIVE
 CHARLESTON, WV
 25311-1099 341-6368

02/11/2009		02/26/2009		01:30PM	
BID OPENING DATE		BID OPENING DATE		BID OPENING TIME	
0001	1	LS	906-00-00-001	ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL	
<p>CONTRACT TO PROVIDE ARCHITECT & ENGINEERING SERVICES FOR THE WEST VIRGINIA ARMY NATIONAL GUARD, BUCKHANNON READINESS CENTER, UPSHUR COUNTY, WEST VIRGINIA, PER THE ATTACHED DOCUMENTATION.</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: JOHN ABBOTT-----</p> <p>RFQ. NO.: DEFK9015-----</p> <p>BID OPENING DATE: 02/26/2009-----</p>					
SIGNATURE		TELEPHONE		DATE	
		304-521-2020		FEB. 26, 2009	
TITLE		FAX		ADDRESS CHANGES TO BE NOTED ABOVE	
PRESIDENT		55-0721684			

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



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

**Request for
 Quotation**

RFQ NUMBER: DEFK9015

PAGE: 2

ADDRESS FOR CORRESPONDENCE/ATTENTION OF:
 JOHN ABBOTT
 104-558-2544

RFQ COPY
 TYPE NAME/ADDRESS HERE

ARCHITECTURAL PLANNING & DESIGN
 ROBERT J. SUMMERFELDT, A.I.A.
 1102 WEST MEMORIAL BOULEVARD SUITE 107
 HUNTINGTON, WEST VIRGINIA 25701

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02/11/2009					
BID OPENING DATE: 02/26/2009		BID OPENING TIME: 01:30PM			
<p>BID OPENING TIME: 1:30 PM-----</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: ----- 304-521-2933 -----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY): ----- ROBERT J. SUMMERFELDT -----</p> <p>***** THIS IS THE END OF RFQ DEFK9015 ***** TOTAL: _____</p>					
<p>SIGNATURE: <i>[Signature]</i> TELEPHONE: 304-521-2929 DATE: FEB. 26, 2009</p> <p>TITLE: PRESIDENT FAX: 55-0721684 ADDRESS CHANGES TO BE NOTED ABOVE</p>					

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

STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT****VENDOR OWING A DEBT TO THE STATE:**

West Virginia Code §5A-3-10a provides that: 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.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor must make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

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

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

Under penalty of law for false swearing (*West Virginia Code §81-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

Vendor's Name: ROBERT J. SUMMERFELDT

Authorized Signature: _____

Date: SEP. 24, 2009

ARCHITECTURAL PLANNING AND DESIGN

Robert J. Summerfeldt, A.I.A., Registered Architect

1102 W. Memorial Blvd, Suite 107, Huntington, WV 25701

Phone - (304) 521-2929

FAX - (304) 521-2933

Email -

Apdrjs264@aol.com

February 26, 2009

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

RE: Buckhannon Readiness Center
RFQ NO. DEFK 9015

STATEMENT OF QUALIFICATIONS

We are pleased to present our Statement of Qualifications and Expression of Interest for the new Readiness Center in Buckhannon, WV. We wish to assist the C&FMO with the project of an approximately 39,000 square foot permanent multi-use masonry steel-framed structure with supporting facilities for military units of the WV Army National Guard in Upshur County, WV.

We provide "full-service" A/E services to our clients. APD has produced many large and complex projects for a variety of government and private entities over the years. It is our extensive training and experience that permits us to effectively and creatively undertake the design of various project types and building uses as we develop attractive, pragmatic and cost-effective building solutions for our clients.

DESIGN APPROACH IN SIMILAR PROJECTS

Architectural Planning and Design has provided architectural and engineering services for facilities such as the Fire Department in Grayson, Kentucky and the planning for Grayson's police department. These similar projects have included offices, conference and training rooms, apparatus room for the fire department and sallyport for the police department, barracks with showers, sleeping quarters and a commercial kitchen. The grounds have included parking, landscaped green space, security lighting, and fencing among other features.

We previously have served the Army National Guard's needs for professional services for the POV parking lot construction project at the WVANG Armory in Huntington, West Virginia. This included management of the city's variance application process and the hearing at the local Board of Zoning Appeals. Contract Administration during construction was also part of the services.

The Natural Resources Center for West Virginia University at Cooper's Rock, WV included conference area, outdoor classroom, laboratory and living quarters for the WVU faculty and the Department of Forestry.

In addition, church projects such as Lewis Memorial Baptist Church in east Huntington frequently include long-span open spaces, conference areas, classrooms and training facilities as well as resource libraries, computer rooms and offices.

AFFILIATIONS

AMERICAN INSTITUTE OF ARCHITECTS - WEST VIRGINIA SOCIETY OF ARCHITECTS - ASHLAND ALLIANCE, - GRAYSON AND OLIVE HILL, KENTUCKY AREA CHAMBERS OF COMMERCE - BUSINESS NETWORK INTERNATIONAL

PROJECT DESIGN TEAM

ARCHITECTURAL PLANNING & DESIGN – We are a growing, full-service architectural firm located in Huntington, West Virginia. We have a diverse and expanding practice in West Virginia, Kentucky, and Ohio. We are active in new construction and a great deal of renovations and additions in virtually all types of building construction projects and building uses. Our firm consists of:

Robert J. Summerfeldt, A.I.A. – Registered Architect – Owner and principal architect with thirty-five years of experience in the field and a resident of the Tri-State area since 1975. He is widely experienced in all types and sizes of design and construction projects.

Jackie Clevenger, Assoc. A.I.A. – She has been with the firm since 1996. She is widely experienced in architectural design and construction, interior and lighting design. Ms. Clevenger has worked in construction related services since 1977.

PICKERING ASSOCIATES – Athens, Ohio and Parkersburg, WV - Mechanical and electrical engineering.

TERRADON, Inc.- Poca, WV – Civil engineering and landscape architecture.

CAROL STEVENS, P.E. - Alum Creek, WV – Structural engineering.

FLOYD HAYMOND, F H SERVICES – Ashland, KY – Cost estimating.

COL. (RET.) DAVID M. DAVISON, A-US – South Charleston, WV – Consultant on military issues.

Refer to attachments for team member resumes.

RELEVANT EXPERIENCE

Our operations are scaled to meet the demands of our clients as we demonstrate a broad range of capabilities. The following projects involve offices, training spaces and multi-functional uses for the most efficient building plans. We currently have the following work underway:

- **Grayson Volunteer Fire Department, Grayson, KY** – The 10,000 square foot building consists of the fire department operations, educational rooms and training facility for first responders. Construction will be underway within 30 days. The dormitory will house professional fire fighter personnel. The community center will accommodate the city council chambers and provide full services for civic and private functions including use of a commercial kitchen. Education and training spaces are included in areas as classroom settings, and meeting room. Contact and reference: Duane Suttles, Kentucky Fire Commission, 606-922-7671; Greg Felty, Grayson Fire Chief, 606-316-6377 and George Steele, Mayor, 606-474-6651.
- **Wurtland City Building, Wurtland, KY** – The project will be Re-Bid the project within a matter of weeks due to the economics involved with the original bidding during the autumn of 2008. The facility will house the City of Wurtland's post office, water service, sewage service, police department and city administrative offices. It will include a meeting facility for city council and community functions. It is designed for multi-purpose uses to allow maximum flexibility for customers' use and municipal operations. Contact and reference: Councilman Wayne Melvin, 606-836-6291
- **Grayson Rural Electric Cooperative Corporation, Grayson, KY** – Renovation and addition to the main office, Bagby Park, Grayson KY. This two-phase project modified the existing 1929 structure to reconfigure the customer service facilities, and add approximately 6,000 square feet of new office area on the rear of the historic building. Construction is just completed. Contact and reference: Mrs. Carol Ann Fraley, President & CEO, or Don Combs, Manager of Finance & Accounting, 606-474-5136
- **Citizens for Veterans Association, Memorial Park, Grayson, KY** – Construction is underway for various phases of the construction. The park includes specific areas designated for meditation and

reverence, military services and education as well as separate areas for civic events and festive community gatherings. Contact and reference: Mr. Mike Malone, CVA, 606-252-0254.

- **Northeast Kentucky Community Action Agency, Inc. Olive Hill, KY** – This just-completed project involved the adaptive re-use of a former church building renovated to become a Head Start facility for preschool age children in Grayson, KY. It is included in this RFQ because it required reconciliation of the project with Federal Head Start Guidelines as well as submittal to the KY State review process. The facility provides daycare services including meals and education for children served by the Head Start Bureau, U. S. Department of Health and Human Services. Offices and counseling areas will be included. Contact and reference: Mr. David Carroll, Executive Director, Northeast Kentucky Community Action Agency, 606-286-4443.
- **Landmark Properties, Huntington, WV** - The Frederick Building, Huntington, WV – Extensive space planning for renovation and adaptive re-use of this early 20th century 40,000 square foot former hotel as well as several other historic properties in downtown Huntington. Updating building code compliance, offices, conference areas and space planning for residential condominiums is the most frequent need for the adaptive re-use. Work is on-going at various locations within the building. Contact and reference: Mr. John Hankins, Esq., 304-697-4800

PROJECT AND FIRM LOCATION

With our offices in Huntington and our consultants in Charleston and Parkersburg, we are competitively located and ideally suited to undertake this project. Our high normal standards of attention to the project will be a great asset to the needs of the client.

EEO and DBE POLICIES

APD does not discriminate in any way on the basis of gender, race, creed, age, national origin, religious or sexual orientation in our personnel or consultant selection processes. We include women-owned businesses, Disadvantaged Business Enterprises and military veterans whenever their specialties match the project's needs.

We are proposing to work very closely with you during this planning, design and construction project, ensuring that the finished product looks good, functions as intended and has been produced at the lowest reasonable cost. As you consider the selection of your architect, I hope you see that we at Architectural Planning & Design can provide these services with unparalleled personal and attentive service, making your participation in this project a wonderful and highly satisfying experience. We are very much looking forward to working with you.

Sincerely,

Robert J. Summerfeldt, A.I.A.,
President, APD, Inc.

ARCHITECTURAL PLANNING & DESIGN

ARCHITECTURAL PLANNING AND DESIGN

Robert J. Summerfeldt, A.I.A., Registered Architect

1102 West Memorial Boulevard, Huntington, WV 25701
(304) 521-2929
FAX - (304) 521-2933
Email - Apdrjs264@aol.com

STATEMENT OF QUALIFICATIONS

ROBERT J. SUMMERFELDT, A.I.A., President
APD, Inc.
1102 West Memorial Boulevard, Suite 107
Huntington, WV 25701
(304) 521-2929

EDUCATION

Trenton Central High School
Trenton, New Jersey, 1962

Carnegie Institute of Technology
Pittsburgh, Pennsylvania, 1967
Bachelor of Architecture

PROFESSIONAL CREDENTIALS

Professional examination, June, 1973 (Pennsylvania)
Registration currently held in West Virginia, Ohio, Kentucky, Virginia and Pennsylvania
NCARB Certified

AFFILIATIONS

American Institute of Architects
West Virginia Society of Architects
Construction Specifications Institute
National Home Builders Association - Remodelor's Council

WORK HISTORY

- January 1982 to the present: Owner, ARCHITECTURAL PLANNING AND DESIGN, Huntington, WV.
- June 2004 to December 2006: Sunset Structures, LLC: Staff architect (consultant).
- June 1983 to October 1987: John D. Meyers and Associates, Architects, Ashland, KY: Project architect & manager of production staff.
- February 1976 to December 1981: Dean, Dean and Kieffer, Architects, Huntington, WV: Project architect.
- September 1975 to February 1976: Robert L. Brown, A.I.A., Huntington, WV: Project architect.
- May 1972 to August 1975: Loeffler-Johnson and Associates, Architects, Pittsburgh, PA: Project architect.
- June 1969 to May 1972: United States Air Force: As a Staff Sergeant (E-5) I functioned as a project architect while assigned to the Base Civil Engineer's Office, Myrtle Beach Air Force Base, Myrtle Beach, SC.
- June 1967 to May 1968: George R. Simons, Registered Architect, Pittsburgh, PA: Architectural draftsman.

REPRESENTATIVE PROJECT DESIGN AND MANAGEMENT EXPERIENCE

- *TRI-STATE AIRPORT, HUNTINGTON, WV* - Renovations and new entrance canopy.
- *TRI-STATE TRANSIT AUTHORITY* - Huntington, WV – Office building, bus facilities and former GREYHOUND BUS DEPOT.
- *WEST VIRGINIA VETERAN'S HOME* - Barboursville, WV - Seven renovation projects.
- *CABELL COUNTY VOCATIONAL-TECHNICAL CENTER*, Huntington, WV.
- *LEWIS MEMORIAL BAPTIST CHURCH* - Huntington, WV - New church building.
- *TRINITY EPISCOPAL CHURCH* – Huntington, WV - Education building evaluation.
- *TRINITY EPISCOPAL CHURCH* – Huntington, WV - Columbarium.
- *FIRST UNITED METHODIST CHURCH* - Huntington, WV - Renovations design study.
- *WOLF CREEK BAPTIST CHURCH* - Grayson, KY - New fellowship hall, kitchen, handicap restrooms, etc.
- *UNIVERSITY SUITES* - 70,000 square feet of student housing, Huntington, WV.
- *WESTMORELAND APARTMENTS* - Huntington, WV - Twenty senior apartments, shops and community center.
- *EDEN PARK APARTMENTS* - Huntington, WV - Twenty apartments for senior citizens.
- *MILL CREEK APARTMENTS* - Fort Gay, WV - Ten apartments for senior citizens.
- *OFFICE AND APARTMENT BUILDING* - Dr. Pete Yarbrough, Huntington, WV.
- *DRW PROPERTIES* - Grayson, KY - Office and apartment building
- *UNDERWOOD SENIOR CITIZENS' CENTER* - Huntington, WV – Senior activity center.
- *WHITE WAY LAUNDRY* renovations, Huntington, - *GEORGE'S LAUNDRY* renovations, Barboursville, WV.
- *GOODWILL INDUSTRIES OF KYOWVA* - Huntington, WV - Main Huntington facility and Ashland, KY location.
- *TASCALI'S RESTAURANT & NESTLE'S PASTRIES* – Barboursville, WV
- *REGER MORTUARY* - Huntington, WV - Embalming Facility.
- *NATURAL RESOURCES CENTER, COLLEGE OF AGRICULTURE & FORESTRY, WVU*, Morgantown, WV
- *RENOVATION & RESTORATION OF THE ST. JAMES BLD'G BANK, FIFTH THIRD CENTER* - Huntington, WV.
- *NEW BRANCH BANK, FIFTH THIRD BANK* - Flatwoods, KY.
- *BANK ONE, WEST VIRGINIA, HUNTINGTON, WV* - *MAIN OFFICE*, lobby and departmental relocations/renovations.
- *HUNTINGTON FEDERAL SAVINGS AND LOAN* - *MAIN OFFICE & WESTMORELAND BRANCH* - Huntington, WV.
- *FIRST NATIONAL BANK OF LEWIS COUNTY* - Vanceburg, KY - Renovation of new main office.
- *HUNTINGTON CIVIC ARENA* - Huntington, WV - Dressing room facilities, additional rest rooms, kitchen renovation
- *ASHLAND MEDICAL ARTS OFFICE BUILDING* - Ashland, KY.
- *KING'S DAUGHTER'S MEDICAL CENTER* - Ashland, KY. - Intensive Care Unit, Relocation of Administrative Offices, Lobby and Elevator Tower Addition, Skilled Nursing Unit, Pediatrics Unit, Psychiatric Unit, Renovation of Lexington Avenue Facade, Pedestrian Bridges.
- *MOSES FORD, BMW, CADILLAC & PONTIAC SALES FACILITIES* - St Albans, Huntington and Charleston, WV

ARCHITECTURAL PLANNING AND DESIGN

Robert J. Summerfeldt, A.I.A., Registered Architect

1102 West Memorial Boulevard, HUNTINGTON, WV 25701

(304) 521-2929

FAX - (304) 521-2933

Email- Apdrjs264@aol.com

STATEMENT OF QUALIFICATIONS

JACKIE CLEVINGER, Associate A.I.A.

APD, inc.
1102 West Memorial Boulevard, Suite 107
Huntington, WV 25701
(304) 521-2929

EDUCATION

East Carter County High School
Grayson, Kentucky 1972

Eastern Kentucky University
Richmond, Kentucky
Bachelor of Science, Interior Design 1976

University of Kentucky
Lexington, Kentucky
Bachelor of Architecture 1995

General Electric Lighting School
Cleveland, Ohio 1990

Hubbell Lighting School
Christiansburg, Virginia 1990,1996

PROFESSIONAL CREDENTIALS

Professional examination, October, 1979 (National NCIDQ)
NCARB (National Council Architectural Registration Board) Intern Development Program, 1999

AFFILIATIONS

American Institute of Architects
West Virginia Society of Architects
Grayson, Olive Hill and Ashland Chambers of Commerce
BNI - Business Network International

WORK HISTORY

- February 1996 - present: Architectural Planning and Design, Huntington, WV, Associate
- January 1992 - 2002: Jackie Clevenger McDavid Interior Design, Owner
- April 1980 - December 1991: Design Connexion, Huntington, WV, Partner & Design Director
- January 1977 - March 1980: Design Centre, Inc., Huntington, WV, Intern
- May 1976 - December 1976: Carter County Board of Education, Grayson, KY
- January 1976 - May - 1976: Kenco Assoc., Ashland, KY, Architecture Dept., Student Intern

REPRESENTATIVE PROJECT DESIGN AND MANAGEMENT EXPERIENCE

- *TRI-STATE AIRPORT*, Huntington, WV,
 - CIVIL AVIATION TERMINAL & PRIVATE CORPORATE FACILITIES*- - Renovations and new construction
- *TRI-STATE REGIONAL RED CROSS CENTER*, Huntington, WV - Interior design, new construction
- *CECIL HINTON*, Ashland, KY - Various residential, retail and corporate: *MODERN FOODS, HINTON HATCHERIES*
- *ELDRIDGE FUNERAL HOME*, Sandy Hook, KY - Architectural project consultant, new construction
- *PAUL DAVIES JEWELERS, INC.,*-Gallipolis, *REUSCHLEIN'S JEWELERS*, Huntington, - Interior design - lighting design
- *APRICOT TREE* shops, Ceredo Shopping Center and Huntington Mall - Showroom and display fixtures
- Various projects in *ASHLAND TOWN CENTER, HUNTINGTON MALL* and *CHARLESTON TOWNE CENTER*
- *BELLEFONTE COUNTRY CLUB*, Ashland, KY - Various interior design renovations
- *FIESTA BRAVO, CARL'S, EXCALIBUR'S*, Ashland, KY - Restaurant renovations.
- *COMMERCIAL BANK*, Grayson, KY, *MAIN LOBBY* - 1996 & 1998 interior design, *CAROL MALONE BRANCH* – 1997, *OLIVE HILL BRANCH* – 1999 – *MAIN BANK*, site work – 2001, interior renovations 2006.
- *FIRST NATIONAL BANK*, Grayson, KY:
 - MAIN OFFICE* 1995 - Architectural project consultant, interior design, lighting design, space planning
 - DEPOT OFFICE* - Historic preservation, space planning
 - MAIN OFFICE* - Interior design, space planning, architectural renovations prior to new building construction
- *CITIZENS COMMUNITY BANK*, Grayson, KY - Interior design, space planning, new construction
- *FIRST COMMUNITY BANK*, Vanceburg, KY - Architectural, lighting and interior design, space planning - renovations
- *BANK ONE: GUYAN BANKING CENTER*, Huntington, WV - Interior design renovation
 - MAIN OFFICE*, Huntington, WV - Interior design renovation
- *UNITED NATIONAL BANK* (First Bank Ceredo), Ceredo, WV
 - MAIN OFFICE* - Various interior design projects
 - WESTMORELAND BRANCH* - Interior design, new construction
- *WAYNE COUNTY BANK*, Wayne, WV, and *FORT GAY BRANCH* - Interior design, new construction
- *LINCOLN NATIONAL BANK*, Hamlin, WV - Interior design renovations and new construction
- *MALONE FUNERAL HOME*, Grayson, KY - Several interior design renovations and additions 1985 to 2000.
- *OUR LADY OF BELLEFONTE HOSPITAL*, Grayson Clinic and Ashland medical offices - Interior design, new construction and renovations.
- *MEDICAL OFFICES* throughout the tri-state area.
- *RIVER TOWER*, Huntington, WV - Various office suites, interior design and space planning
- *MORRIS CORPORATION*, Huntington, WV - Various office suites, interior design and space planning
- *DRW PROPERTIES*, Grayson, KY - Interior design, new construction
- *FYFFE, JONES & ASSOCIATES*, Ashland, KY, - Interior design, new construction; Huntington, WV, renovation
- *CHURCH OF CHRIST*, Willard, Ky., *CHURCH OF CHRIST*, Eastside, KY - Interior design renovations
- *BAPTIST CHURCH*, Grayson, Ky., *BAPTIST CHURCH*, Willard, KY - Interior design renovation
- *KENTUCKY CHRISTIAN COLLEGE*, Grayson, KY - Library building, conference center, and various offices
- *ARCHITECTURAL PLANNING & DESIGN* – Various residential and commercial projects from 1996 – present involving interior, lighting or architectural design.



“Without facts, the decision cannot be made logically. You must rely on your human intuition”

~ Spock, Assignment: Earth, stardate unknown, Episode 55

Carl S. Henson, P.E.

Position/Title

Senior Electrical Engineer

Duties

Project Management, Electrical Engineering & PHA Facilitator

Education

West Virginia Institute of Technology
B.S., Electrical Engineering

Licenses

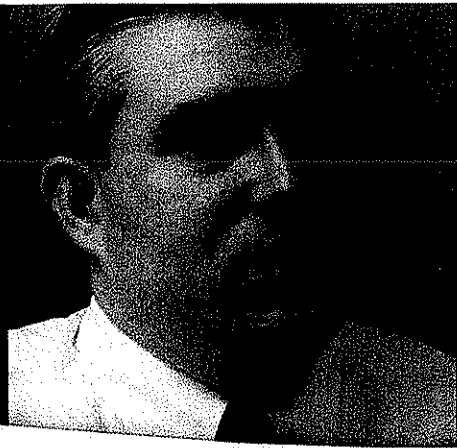
Professional Engineer WV, OH, OK

Highlighted Project Experience:

- Provided Electrical design of a new Quality Control Laboratory with combined administrative facilities and adjacent firehouse for a local industrial client in Belpre, Ohio. Not only does this project include two high-tech scientific laboratories, but also chemical storage areas, locker rooms with shower facilities, break area, conference rooms, and document control areas. This building is being designed to accommodate a future second story.
- Supervising Engineer and PHA facilitator for a leading polymer manufacturing facility in Belpre, Ohio. Responsibilities include coordination and calculation of load studies and fault currents for the design of panel boards, Motor Control Centers (MCC), switchgear and service entrance sizing, design of power distribution feeders using conduit and tray routing systems and safety hardware interlocks for emergency shutdown of process equipment. Other responsibilities include specification of AC & DC motors, starters, and Variable Frequency Drives (VFD) and design their interface between local, VFD, DCS and Programmable Logic Control (PLC) control equipment. Design, specify and interface the following instruments for process control and alarming; Level control using probes, diaphragm (local and remote) and differential indications; Temperature control using thermocouple, RTD and infrared probes; Flow control using orifice plate, mass-flow meters and mag meters.
- Familiar with all forms of process P&ID's, loop sheets, and schematics for proper documentation.
- Proficient in programming Honeywell TDC-2000 and TDC-3000 with multi-function controllers.
- Skilled and vendor certified in programming Honeywell Universal Station with multi-function & Advanced Project Manager (APM) controllers, Honeywell Global Universal Station (GUS) with multi-function and High Process Manager (HPM) controllers, and ABB Advant with Mod-300 software, Model-B controller and 460 controller.



the art of engineering



"Determine that the thing can and shall
be done, and then we shall find the way"

~Abraham Lincoln

David A. Boggs, P.E.

Position/Title

Senior Mechanical Engineer

Duties

Project Manager, Mechanical and
Plumbing Engineer

Education

Virginia Tech.
B.S., Mechanical Engineering

License

Professional Engineer WV, OH

Highlighted Project Experience:

- Lead mechanical / plumbing engineer for a new \$7MM medical office facility in Parkersburg, West Virginia. Building contains multiple heating and cooling zones and had various plumbing requirements based on the numerous tenants including prosthetic laboratory, pharmacy, medical offices and a restaurant.
- Lead mechanical engineer for a new \$30MM plastics manufacturing facility in Mineral Wells, West Virginia. Design included plant process utilities including cooling water, plant air and natural gas piping systems.
- Lead mechanical / plumbing engineer for a \$1MM medical/dental office facility in Parkersburg, West Virginia. Designed HVAC systems with multiple zones. Plumbing design included a dental vacuum and air systems.
- Lead mechanical / plumbing engineer on the design of a new science facility on a university campus in Vienna, West Virginia. The facility included a life science laboratory, physical science laboratory, cadaver room, chemical preparation area and common area. Design included multiple chemical hoods, 100% outside air system, chemical sanitary drainage system and safety fixtures.
- Shutdown Schedule Coordinator for a plastics manufacturing plant in Marietta, Ohio. Coordinated and planned an entire plant shutdown schedule using Microsoft Project Software from information collected during multiple meetings with project engineers and plant maintenance staff.
- Project manager and lead mechanical / plumbing engineer for multiple dormitory bathroom renovation projects at a college in Marietta, Ohio. Projects included managing architectural consultants, personally detailed site investigations, and provided complete design packages for the complete replacement of each dormitory domestic water and sanitary systems in association with complete bathroom renovations.

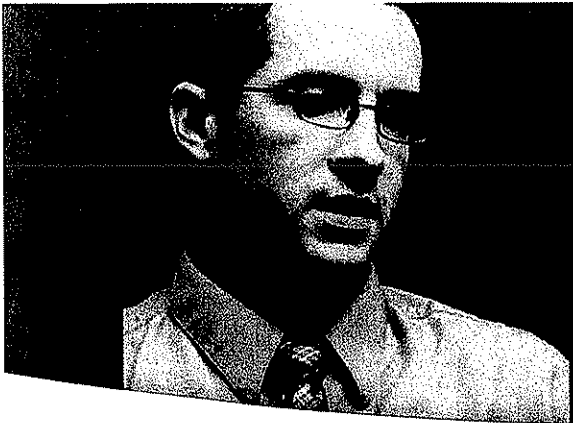


the art of engineering

David A. Boggs, P.E.

Highlighted Project Experience: (Continued)

- Project manager and lead mechanical engineer for multiple projects at Ohio University in Athens, Ohio. Coordinated and developed design to extend the campus steam grid to a newly purchased existing residence hall. Led the team, including consulting architect to replace the existing plumbing systems in a portion of an existing eight-story residence hall.
- Lead mechanical engineer on a new steam plant for an industrial client in Willow Island, West Virginia. Project included the design of a new steam line header using CAEPIPE stress analysis program.
- Mechanical engineer on the development of multiple construction bid packages to convert large existing dust collectors to a new technology at a metals manufacturing facility near Charleston, West Virginia. Duties included performing heavy ductwork design and detailing support structure.



“Information is not knowledge.”

~Albert Einstein

Jeffrey D. Hosek, P.E.

Position/Title

Mechanical Engineer
LEED Project Engineer

Duties

Project Management and Mechanical Engineering

Education

University of Akron
B.S., Mechanical Engineering

Licenses

Professional Engineer OH

Highlighted Project Experience:

- Project manager and mechanical engineer for Olentangy School District in Columbus, Ohio for three new elementary schools, one new middle school and one new high school. Design included hot water heating system with DX indoor air handlers.
- Project manager and mechanical engineer for Ironton City Schools in Ironton, Ohio for a new elementary school and a new middle school. Design included hot water heating system with DX indoor air handlers.
- Mechanical engineer for a new police station in Bexley, Ohio. Design included zoned HVAC system complete with firing range and dispatch center.
- Project manager and mechanical engineer for a new Career Center in Groveport, Ohio. Design included a body shop, paint spray booth, vehicle exhaust systems and radiant tube heating.
- Project manager and mechanical engineer for a new Ronald McDonald House in Columbus, Ohio. Design included multi-story building with dedicated outside air system and split-system heat pumps.
- LEED Mechanical engineer for a new 500,000 square foot distribution center and administration building for Honda American Motors. Design included air rotation units and heat recovery system.
- Mechanical engineer of a consolidated chilled water plant for the Playhouse Square Foundation. Design required bringing four individual systems, in a two block area, together into one centralized system.
- LEED project manager for converting a downtown Columbus, Ohio fire station into a local family health center. Replaced existing mechanical and electrical systems with updated energy-efficient systems. Existing equipment was recycled to limit construction waste and utilized local and regional materials to comply with LEED requirements.



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Jeffrey D. Hosek, P.E.

Highlighted Project Experience: (Continued)

- Complete mechanical system designed for a Columbus, Ohio radio station that included special attention to sound attenuation and outside noise transmission due to the proximity of the local police station.
- Mechanical engineer for a new FBI field office in Cleveland, Ohio. Energy efficient equipment and significant sound attenuation materials were used in this four-story building.
- LEED Commissioning Project Manager for Kent State University which included a complete renovation to the fine arts building. Duties included owner-witnessed functional testing of randomly selected system components.
- Project Manager and mechanical engineer for an expansion at a chemical plant in Dublin, Ohio. Expansion was for computer servers and required special detail to temperature and humidity constraints.
- Mechanical engineer assisting in the design of an emergency room expansion for a hospital in Marysville, Ohio. Design included the utilization of existing equipment as well as new systems.
- Project Manager and mechanical engineer for a new medical office building for O'Bleness Hospital in Athens, Ohio. Design included steam heat and chilled water cooling VAV system.

TERRADON, INC.

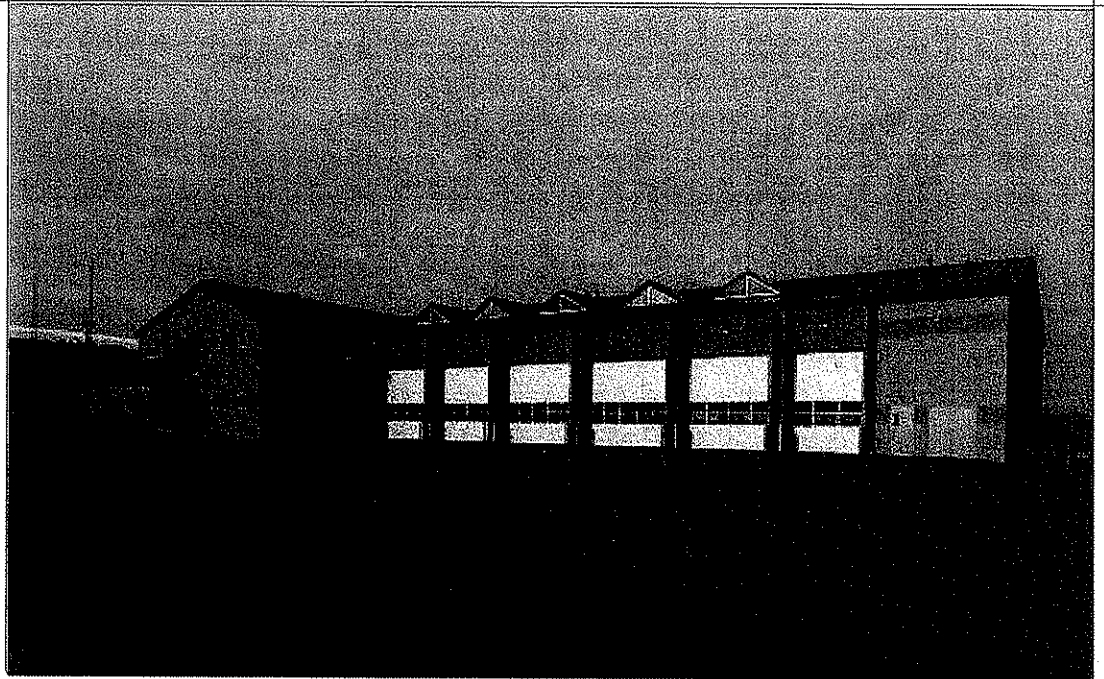
PROJECT EXPERIENCE

MILITARY PROJECTS

WVANG
FIRE, CRASH,
RESCUE
BUILDING
CHARLESTON,
WEST VIRGINIA

FIRM'S ROLE:

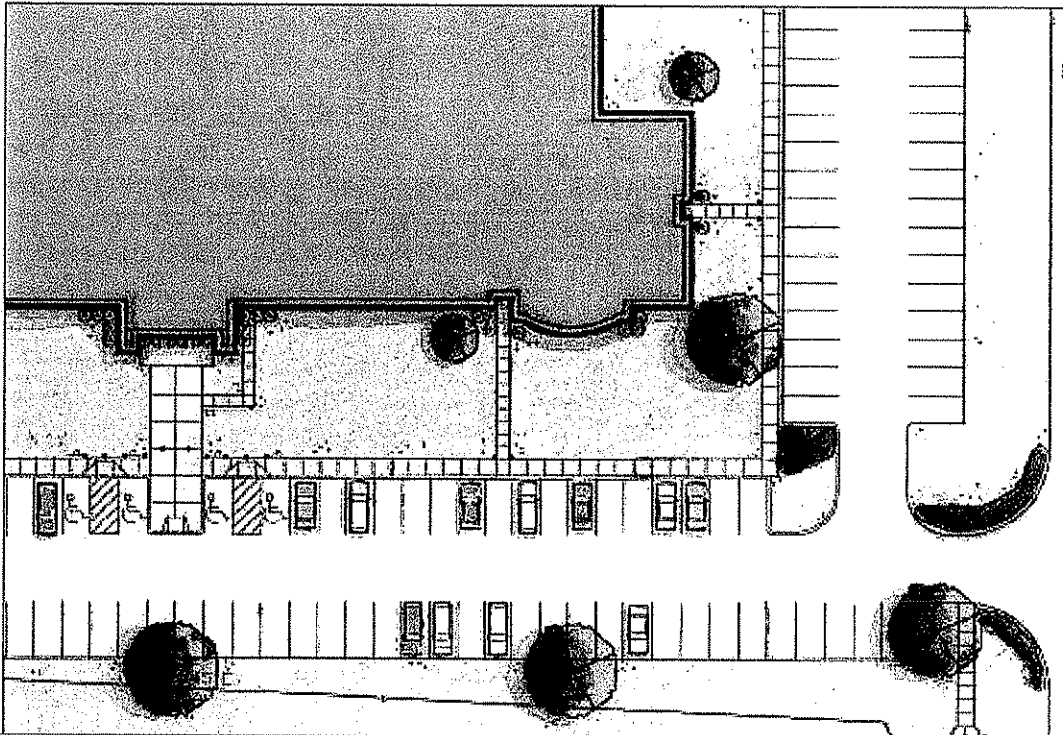
TERRADON PROVIDED SITE
MASTER PLANNING AND DESIGN
FOR THIS NEW BUILDING AT
YEAGER AIRPORT.



WVARNG
ELEANOR
READINESS
CENTER
ELEANOR, WEST VIRGINIA

FIRM'S ROLE:

TERRADON PROVIDED SITE
ENGINEERING AND DESIGN
SERVICES FOR THIS 15
MILLION DOLLAR READINESS
CENTER LOCATED IN
ELEANOR, WEST VIRGINIA.
THE FIRM ALSO PROVIDED
TITLE II SERVICES FOR BOTH
THE READINESS AND NEAR BY
MAINTENANCE CENTER.



PROJECTS
CONTINUED**City of Buckhannon WWTP**

Participated in the design of the new 1.5 MGD dual oxidation ditch design. Design responsibilities were for the oxidation ditches and clarifiers. (While at KGB&W)

Union Public Service District - 40th Street Plant Upgrade

Served on design team to upgrade plant to a 0.4 MGD contact stabilization activated sludge plant. Responsibilities were for sizing the contact stabilization process and aerators. (While at KGB&W)

Flatwoods Canoe-Run PSD - Sewage Pumping Stations

Primary designer of six sewage pumping stations to convey sewage from the town of Gassaway to the Town of Sutton for treatment. (While at KGB&W)

City of Charleston Elk Two Mile - Sewer and Sewage Pumping Station

Designed three miles of sewer and a sewage pumping station to serve Capitol High School, Coonskin Drive, and the residents along Elk Two-Mile Creek in Charleston. (While at KGB&W)

City of Charleston Sanitary Board - Ruthdale Sewer Extension

Served as Project Manager for the \$8 million project to extend sewers into Corridor G to serve the new Southridge Centre. (While at KGB&W).

Corridor G Pump Station Upgrade

Designed upgrades to the sewage pumping stations and force main for the Corridor G area of Charleston. The project included a 1000 foot long, butt-fused polyethylene force main across Kanawha River. A total of four sewage pump stations were upgraded at a cost of \$2.5 million. (While at CSB).

Belt Filter Press Replacement

Designed a new 2 meter belt filter press, polymer system, wash water booster station, conveyors, and sludge feed pumps. Cost was \$800,000 (While at CSB).

Porter's Hollow Pump Station And River Crossing Upgrade

Designed an upgrade to the Porter's Hollow Pump Station and 1000 foot river crossing across Kanawha River. Project included two 2000 gpm pumps, variable frequency drives, odor scrubbers, hoist and trolley to remove pumps, magnetic flow meter, and 1,500 feet of 24" gravity sewer. (While at CSB)

PROGRAM TEAM STAFFING

GREGORY D FOX, ASLA, LEED
LANDSCAPE ARCHITECT

TERRADON's Land Development Services are managed by Gregory D. Fox, ASLA. Mr. Fox, a native of West Virginia, has been responsible for a number of notable recreation, commercial, and educational site development projects since joining TERRADON in February of 2000. His group earned a 2001 Engineering Excellence Award from the West Virginia Association of Consulting Engineers for the master planning of an extreme sports park at WVUIT in Montgomery. They also earned a 2002 Engineering Excellence Award from the West Virginia Association of Consulting Engineers and a 2002 Merit Award from the American Society of Landscape Architects for the City of Fairmont Riverfront Master Plan project. Most recently, the 2005 Gold Award from the American Council of Engineering Companies and a 2005 Honor Award from the American Society of Landscape Architects was presented to the firm for the site design of the new West Virginia Division of Environmental Protection Headquarters Building.

REGISTRATION Professional Landscape Architect
West Virginia
Virginia
Ohio
Pennsylvania

ACCREDITATION LEED

EDUCATION B. S. Landscape Architecture, 1988, West Virginia University
B. A. Geography (Planning), 1994, West Virginia University

WORK EXPERIENCE
2000 - Present TERRADON Corporation
1996 - 2000 Martin Boal Anthony & Johnson Architects, Charlotte, NC
1993 - 1996 Site Design, Huntington, WV
1989 - 1993 E.G.&G., Inc., Akron, OH
1988 - 1989 PSC Engineers, Lancaster, PA

PROJECT EXPERIENCE
Fairmont Coke Works Site Redevelopment, Fairmont, WV
Fountain Place Development, Logan, WV
Southridge Center Phase II, Charleston, WV
Fairmont Riverfront Master Plan, Fairmont, WV
Blue Mountain Village, Bluefield, WV
Ashland Development, Southern, WV
Quarry Creek Expansion, Charleston, WV
Lake of Egypt, Southern Illinois
River Ridge, Gauley Bridge, WV
Leatherwood Crossing, Bluefield, VA



REFERENCES

Leatherwood Development, Derrick S. Ruble, (276) 322-2988

Glade Run Development, Tom Woodring, (724) 452-4453

FMC Real Estate Division, Alison Mertwoy, (215) 299-6677

Commercial Developments, Rich Rashid, Ridgeline Development Inc, (304) 545-9117

West Virginia Department of Transportation, Paul Mattox, PE, Commissioner, (304) 558-0444

West Virginia Department of Transportation, Marvin Murphy, PE, State Highway Engineer, (304) 558-0444

Deer Creek Development, Jeffery E. Jones, Deer Creek Enterprises, LLC, (304) 634-3501

Fairmont State University, James Decker, Construction Manager, (304) 367-4861

City of Fairmont, Jay Rogers, Director of Planning & Development, (304) 366-6211

Harvey Town Park, Greater Huntington Parks & Recreation, James McClelland, (304) 696-5954

CAS STRUCTURAL ENGINEERING, INC.



Structural Engineering, Inc.

Firm Profile

CAS Structural Engineering, Inc. — CAS Structural Engineering, Inc. is a West Virginia Certified Disadvantaged Business Enterprise structural engineering firm located in the Charleston, West Virginia area.

Providing structural engineering design and/or analysis on a variety of projects throughout the state of West Virginia, CAS Structural Engineering has experience in excess of 20 years on the following types of building and parking structures:

- **Governmental Facilities (including Institutional and Educational Facilities)**
- **Industrial Facilities**
- **Commercial Facilities**

Projects range from new design and construction, additions, renovation, adaptive reuse and historic preservation (including use of The Secretary of the Interior's Standards for Rehabilitation) to evaluation studies/reports and analysis.

CAS Structural Engineering utilizes AutoCAD for drawing production and Enecalc and RISA 2D and 3D engineering software programs for design and analysis. Structural systems designed and analyzed have included reinforced concrete, masonry, precast concrete, structural steel, light gauge steel and timber.

Carol A. Stevens, PE is the firm President and will be the individual responsible for, as well as reviewing, the structural engineering design work on this project. While CAS Structural Engineering, Inc. has only been in business for seven years, Carol has over 20 years of experience in the building structures field, working both here in West Virginia and in the York, Pennsylvania vicinity.

CAS Structural Engineering, Inc. is covered by a \$1 million errors and omissions liability policy.

P.O. Box 469

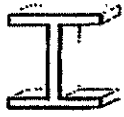
Alum Creek, WV 25803-0469

(304) 756-2564 (voice)

(304) 756-2565 (fax)

**A West Virginia Certified DBE Consultant
Certified in the Practice of Structural Engineering**

CAS



Structural Engineering, Inc.

Carol A. Stevens, P.E.
Structural Engineer

EDUCATION

West Virginia University, BSCE, 1984
Chi Epsilon National Civil Engineering Honorary
The Pennsylvania State University, ME Eng Sci, 1989

PROFESSIONAL REGISTRATION

P.E. 1990 Pennsylvania
P.E. 1991 West Virginia
P.E. 1994 Maryland
P.E. 2008 Ohio

BACKGROUND SUMMARY

2001 – Present President, Structural Engineer
CAS Structural Engineering, Inc.

1999 – 2001 Structural Engineer
Clingenpeel/McBrayer & Assoc, Inc.

1996 – 1999 Transportation Department Manager
Structural Engineer
Chapman Technical Group, Inc.

1995 – 1996 Structural Engineer
Alpha Associates, Inc.

1988 – 1995 Structural Department Manager
Structural Engineer
NuTee Design Associates, Inc.

1982 – 1988 Engineer
AAI Corporation, Inc.

PROFESSIONAL ASSOCIATIONS

American Society of Civil Engineers, WV Section
National Society of Professional Engineers
American Concrete Institute
American Institute of Steel Construction
West Virginia University Department of Civil and
Environmental Engineering Advisory Committee
WVUIT Department of Civil Engineering Advisory
Committee

CIVIC INVOLVEMENT

ASCE Christmas in April Project

EXPERIENCE

West Virginia, State Capitol Complex, Governor's
Mansion: Structural analysis and design in addition to
evaluation report for modifications and renovations to
several areas of mansion. Building is on State Historic
Register.

West Virginia, State Capitol Complex, Main Capitol
Building Dome: Exploratory investigation of structural
steel components of Lantern Level of dome and
development of contract documents for repairs. Building
is on State Historic Register.

West Virginia, State Capitol Complex, Main Capitol
Building Parapet: Exploratory investigation of
limestone/brick parapet/balustrade of Main Capitol
Building to determine cause of movement/cracking/leaks.
Work is currently under contract. Building is on State
Historic Register.

West Virginia, Hampshire County Courthouse
Elevator: Designed structure for incorporation of
elevator into existing courthouse building.

West Virginia, Upshur County Courthouse: Designed
renovations to 3-story building addition, renovations to
existing 1899 building main entrance and dome structure.

West Virginia, Eastern West Virginia Regional
Airport: Designed foundations and structural steel
framing for new 2-story terminal building.

West Virginia, Star USA Federal Credit Union:
Designed foundations and roof framing for new one-story
commercial building.

West Virginia, Kanawha County Schools: Structural
design of additions to George Washington, Sissonville,
Herbert Hoover, South Charleston and Nitro High
Schools.

West Virginia, State Capitol Complex, Building 3:
Structural design and construction administration of
repairs to limestone canopy.

West Virginia, Fairmont Water Plant: Designed
reinforced concrete structures for new water treatment
facility.

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Alum Creek, WV 25003-0469

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West Virginia, Huntington Municipal Parking Garage: Designed repairs to three-level precast concrete parking structure.

West Virginia, Braxton Health Associates: Designed foundations and roof framing for new one-story medical office building.

West Virginia, Thomas Hospital: Analyzed existing structure for new loads imposed by nuclear camera.

West Virginia, Mt. Calvary Baptist Church: Designed foundations and floor framing for new activities building.

PREVIOUS EXPERIENCE

West Virginia, Sissonville Library: Structural design of new 7,000 SF branch library. Structure consisted of wood framing.

West Virginia, Johnson Ave Professional Building: Structural design of new steel framed office complex.

West Virginia, Greenbrier Animal Shelter: Structural design of new masonry bearing wall and wood roof truss building.

West Virginia, Cabell Huntington Hospital Boiler Mezzanine: Structural analysis and testing of existing reinforced concrete mezzanine with significant degradation from brine tank leakage. Developed new structural system to replace existing concrete mezzanine utilizing steel framing and steel grating.

West Virginia, State Capitol Building: Designed structural system to replace deteriorated reinforced concrete slab at landing on north side of Capitol steps.

West Virginia, North Fork Hughes River Water Treatment Plant: Designed reinforced concrete structure for new water treatment facility.

West Virginia, Beckley Wastewater Treatment Plant: Designed reinforced concrete tanks and masonry support structures for new wastewater treatment plant.

West Virginia, Morgantown High School Additions: Designed steel framing and foundations for science classroom, cafeteria and gymnasium additions to existing education complex.

West Virginia, Grafton High School Addition: Designed steel framing and foundations for new science classroom addition to existing high school.

Pennsylvania, Metropolitan Edison Company, Headquarters: New 80,000 SF two-story reinforced concrete office addition to existing complex.
Pennsylvania, Defense Distribution Region East: Structural engineering and design for a 33,000 SF Hazardous Materials Storage Warehouse.

Maryland, U.S. Army Corps of Engineers, Baltimore District, Administration Building: Seismic design of new 10,000 SF masonry building.

Pennsylvania, Carlisle Syatec: Design of foundation supports for 800,000 lb rubber vulcanizing machine; enlargement of foreman's office including new framing to support mechanical equipment on roof; new monorail installation; extension of existing gantry rail.

Pennsylvania, Engel Worldwide: Steel framing and foundations for new 12,000 SF two-story office building; design of crane beams and columns for adjacent 60,000 SF crane building.

Pennsylvania, AMP IMF: Structural design for the renovation and conversion of a stamping facility into an integrated manufacturing facility (IMF) housing operations for stamping as well as blow molding processes.

Texas, York International: Structural survey of existing building structure for modifications to incorporate large testing and manufacturing areas for mechanical equipment.

Maryland, Columbia 100: Design of structural steel framing for new two-story 43,000 SF office building.

Pennsylvania, York Federal Savings and Loan Association/New Service Corporation: Design of steel framing, reinforced concrete retaining wall and foundations for new 14,400 SF two-story office building.

Pennsylvania, College Misericordia: Structural design of new 50,000 SF student resident hall utilizing precast concrete planks and masonry bearing walls.

Pennsylvania, Homewood Suites: Structural and foundation design for new two-story hotel.

Pennsylvania, Comfort Inn: Structural and foundation design of new 5-story hotel.

Pennsylvania, M&M Mars: Multi-level steel structure to support dust collectors positioned over existing building, steel framing for motor control center within existing silo building, design of 4-story Alkalizing and Roasting Addition with accommodations for existing functioning railroad siding which remained operations beneath new building.

COL. (RET.) DAVID M. DAVISON

David M. Davison

Objective	Introduction		
Education	1999 – 2001	U.S. Army War College	Carlisle, PA
	Masters of Strategic Studies		
	1968 – 1974	West Virginia University	Morgantown, WV
	BS Chemical Engineering		
Professional experience	1979 - Present	E.I. DuPont de Nemours & Co., Inc.	Belle, WV
	Six-Sigma Black Belt (1/2004 to Present)		
	Leads business process improvement projects in the logistics, supply chains and sourcing.		
	Logistics Consultant (11/1993 to 12/2003)		
	Managed finished product distribution for four product lines of chemicals produced at DuPont's Belle WV plant. Responsible for the safe and cost effective global distribution of approximately 240 millions pounds per year of hazardous chemicals with an annual operating budget of \$20 million.		
	Senior Engineer (7/1990 to 11/1993)		
	Coordinated plant site's Total Quality Management improvement programs and training. Facilitated Continuous Flow Manufacturing/Integrated World-Class Technology improvement teams in manufacturing areas.		
	Areas Supervisor – Capital Work Force (11/1988 to 7/1990)		
	Supervised the site's central capital and mechanical planning and scheduling group and project management engineers. (8 to 10 professionals)		
	Area Supervisor – Mechanical (2/1984 to 11/1988)		
	Supervised the central mechanical shops providing vessel and pipe fabrication, machining, welding and electrical & instrument repair and insulation services. (Five – 1st Line Supervisors and 150 mechanics)		
	Process/Area Engineer (7/1979 to 2/1984)		
	Provided process-engineering support for manufacturing operations and project engineering for major powerhouse electrical, instrument and mechanical upgrading.		
	1974 – 1979	Westvaco Fine Papers	Luke, MD
	Technical and Design Engineering		
	Provided technical support to operations, design engineering, project, and construction management.		

**Military Service
(1970 to 2003)**

Colonel, Corps of Engineers

Served as a citizen-soldier in the WV Army National Guard. Completed service as the Assistant Adjutant General for Installations and Homeland Security. Duty assignments include command of an Engineer detachment, company, battalion, and group plus staff assignments primarily in operations.

Military schools include: the Special Forces Enlisted Qualification Course, Officer Candidate School, Infantry Officer Basic Course, Jumpmaster Course, Infantry and Engineer Officer Advances Courses, Command and General Staff College, Reserve Component National Security Issues Seminar, Defense Strategy Course, Military Personnel Officer Correspondence Course, Engineer Pre-Command Course, and the US Army War College.

US decorations and badges: Legion of Merit, Meritorious Service Medal, Army Commendation Medal, Army Achievement Medal, National Defense Service Medal, Humanitarian Service Medal, Army Service Ribbon, Army Reserve Component Overseas Training Ribbon, Special Forces Tab and Parachutist Badge.

Army Engineer Association's Bronze De Fleury Medal.

References

Available upon request