

**Expression of Interest for
Professional Architectural
Engineering Design
Services for a
Joint Operations Facility**

RFQ Number DEFK11028

March 15, 2011

Submitted to:

**West Virginia Army National Guard,
Division of Engineering
and Facilities**

Submitted by:



Gannett Fleming

**ISO 9001:2008
CERTIFIED**

RECEIVED
2011-MAR-15 A

PLANNING D
STATE OF



GANNETT FLEMING, INC.
Suite 203
34 Commerce Drive
Morgantown, WV 26501-3858

Office: (304) 296-6492
Fax: (304) 296-6495

www.gannettfleming.com

March 15, 2011

PURCHASING DIVISION
BUILDING 15
2019 WASHINGTON STREET, EAST
CHARLESTON, WV 25305-0130

RE: EXPRESSION OF INTEREST (EOI)
FOR PROFESSIONAL ARCHITECTURAL ENGINEERING DESIGN SERVICES
FOR A JOINT OPERATIONS FACILITY
RFQ #DEFK11028

Gannett Fleming, Inc. is pleased to submit for your consideration this Expression of Interest (EOI) for Architectural and Engineering Services related to the design services for a joint operations facility.

As the Manager of WV Operations, I will personally ensure that this project meets the expectations of the WV Army National Guard. We have assembled a team of highly qualified individuals in response to your advertisement. Our team consists of multiple Gannett Fleming personnel in key disciplines and office locations (primarily Morgantown, WV, Pittsburgh and Harrisburg, PA) supplemented by two sub-consultants: DRS Architects from Pittsburgh, PA, and Potesta & Associates, Inc. from Charleston, WV. Our project team has the appropriate staff immediately available to meet your project schedule.

We look forward to your favorable review of our qualifications. We would also welcome the opportunity to present our credentials to you and look forward to the chance to discuss our capabilities with the selection committee. Please contact me at 304-296-6492 if you have any questions or if I can provide any clarifications regarding our qualifications.

Sincerely,

GANNETT FLEMING, INC.

A handwritten signature in black ink, appearing to read "S. H. Petro" with a stylized flourish at the end.

Samer H. Petro, P.E.
Manager – WV Operations

A Tradition of Excellence

Expression of Interest for Professional
Architectural Engineering Design Services
For a Joint Operations Facility

DEFK11028

March 15, 2011

Cover Letter

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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
DEFK11028

PAGE
1

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

RFQ COPY

TYPE NAME/ADDRESS HERE

SHIP TO

DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
02/01/2011				
BID OPENING DATE: 03/15/2011		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UQP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-00-00-001		
<p>ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL</p> <p>EXPRESSION OF INTEREST (EOI)</p> <p>THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WV NATIONAL GUARD, DIVISION OF ENGINEERING AND FACILITIES, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ARCHITECTURAL ENGINEERING DESIGN SERVICES FOR A JOINT OPERATIONS FACILITY TO BE LOCATED IN THE VICINITY OF THE WEST VIRGINIA NATIONAL GUARD STATE HEADQUARTERS IN CHARLESTON, WV PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO TARA LYLE VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, VIA FAX AT 304-558-4115, OR VIA EMAIL AT TARA.L.LYLE@WV.GOV.</p> <p>DEADLINE FOR ALL TECHNICAL QUESTIONS IS 2/23/2011 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED. CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Sauer</i>	TELEPHONE 304-296-6492	DATE 3/10/11
TITLE <i>OFFICE MANAGER</i>	FEIN 25-1613591	ADDRESS CHANGES TO BE NOTED ABOVE

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

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

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

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

INSTRUCTIONS TO BIDDERS

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



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

Request for Quotation

RFQ NUMBER
DEFK11028

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

RFQ COPY

TYPE NAME/ADDRESS HERE

SHIP TO

**DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION**

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	P.O.B.	FREIGHT TERMS
02/01/2011				

BID OPENING DATE: **03/15/2011** BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER:-----TL/32-----</p> <p>RFQ. NO.:-----DEFK11028-----</p> <p>BID OPENING DATE:-----03/15/2011-----</p> <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:</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Same</i>	TELEPHONE 304-296-6492	DATE 3/10/11
TITLE OFFICE MANAGER	FAX 25-1613591	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR' 2



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
DEFK11028

PAGE
3

ADDRESS CORRESPONDENCE TO ATTENTION OF
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VENDOR

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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/01/2011				

BID OPENING DATE: **03/15/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>SAMER H. PETRO, P.E.</p> <p>-----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):</p> <p>-----</p> <p>***** THIS IS THE END OF RFQ DEFK11028 ***** TOTAL: _____</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Samer</i>	TELEPHONE 304-296-6492	DATE 3/10/11
TITLE OFFICE MANAGER	FEN 25-1613591	ADDRESS CHANGES TO BE NOTED ABOVE

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

RFQ No. DEFK 1102B

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: GANNETT FLEMING, INC.

Authorized Signature: [Signature] Date: 3/10/2011

State of West Virginia

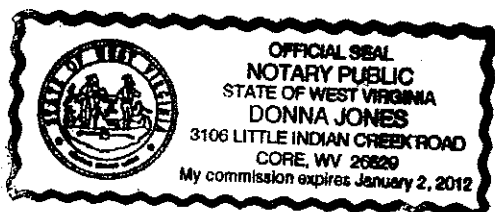
County of Monongalia, to-wit:

Taken, subscribed, and sworn to before me this 11 day of MARCH, 2011.

My Commission expires Jan 2, 2012

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]




INTRODUCTION

The Gannett Fleming team is pleased to submit this Expression of Interest for the West Virginia Army National Guard, Construction and Facilities Management Office (CFMO) to provide architectural/engineering services for the design of a Joint Operations Facility near Charleston, WV.

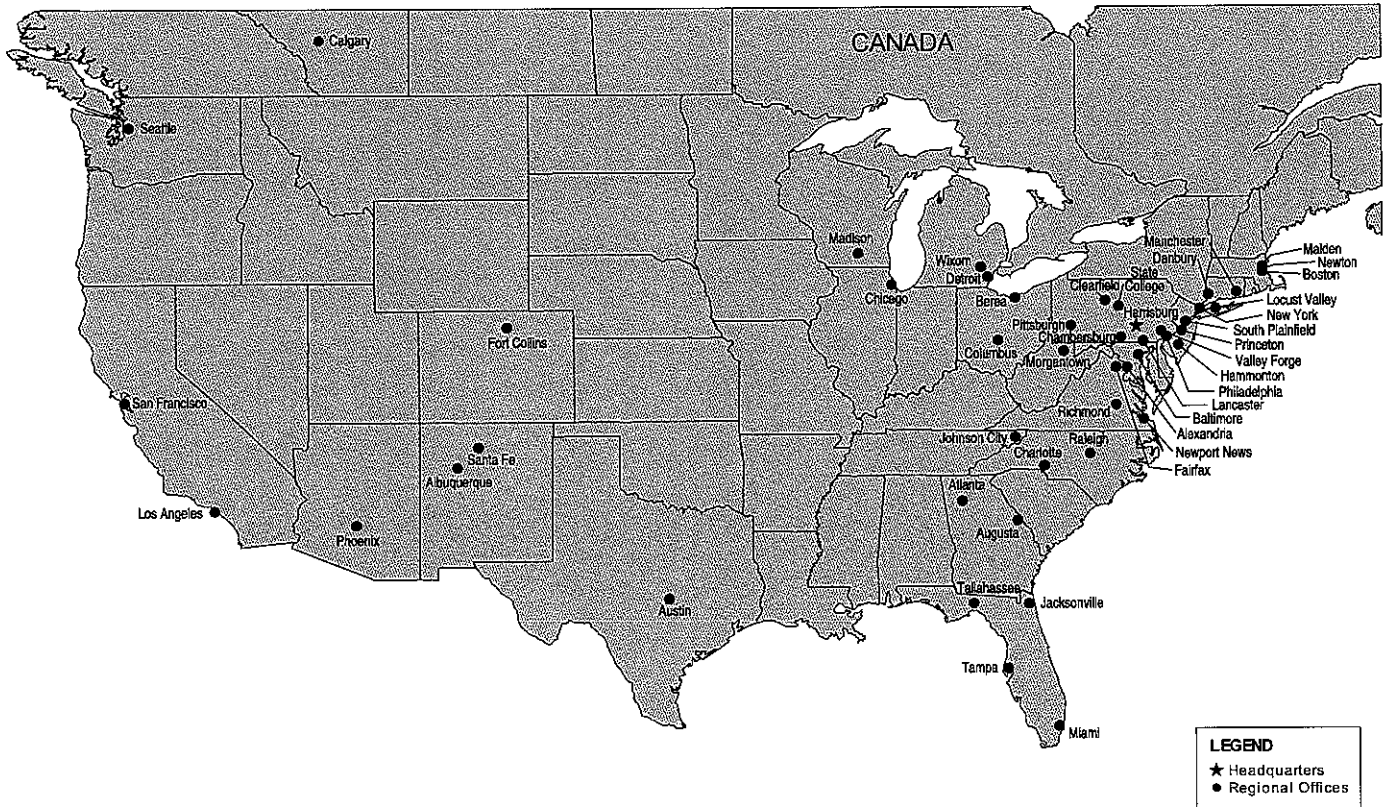
The Gannett Fleming Team represents three outstanding firms with a state-wide and regional reputation for excellence in working with the Army National Guard and other government agencies, including the U.S. Army, the Pennsylvania Army National Guard, National Park Service, the Natural Resources Conservation Service, the Pennsylvania Department of Conservation and Natural Resources, the U.S. Forest Service, and many others.

The Gannett Team consists of multiple Gannett Fleming personnel in key disciplines and office locations (Morgantown, WV and Pittsburgh and Harrisburg, PA) supplemented by DRS Architects from Pittsburgh, Pennsylvania and Potesta & Associates, Inc. with offices in Charleston and Morgantown, WV.

The following information addresses the experience and qualifications of our firms and also touches on specific evaluation criteria identified in the announcement, offering clear evidence of the experience and capabilities that uniquely qualify the Gannett Fleming team to provide the West Virginia Army National Guard CFMO with professional, timely, and cost-effective services.

 **Gannett Fleming** (Gannett Fleming) is an international consulting engineering company active in almost every phase of consulting engineering since its establishment in 1915. Over the years, the company has performed more than 30,000 assignments in 50 states and in 20 countries. Gannett Fleming has expertise in building-focused architectural and engineering services to a variety of commercial, industrial, and institutional clients. We provide analysis, evaluation, plans, and design for facility projects that involve rehabilitation, expansion, new construction, and process change. We provide services in mechanical/HVAC, electrical/lighting, structural, security, data and voice communications, energy management, audio visual, civil/utility, site development, and architectural disciplines. Our projects are heavily focused on sustainability and energy efficiency and strive to achieve LEED certification. The company and its wholly-owned subsidiaries employ more than 2,000 persons with expertise in numerous disciplines. Gannett Fleming is listed among the nation's most prestigious engineering firms. *Engineering News-Record* (ENR) recently ranked Gannett Fleming as 47th among the 500 leading United States consulting firms.

- *Ranked among Top 50 Engineering Firms in the United States*
- *Providing multi-disciplined Engineering Services for 95 Years*
- *Some clients served for 40+ years*



09/03mrd

Gannett Fleming offers the specialized experiences necessary to successfully perform all of the required engineering services in-house. The firm has extensive experience and professional staffing with expertise in the following activities:

- Mechanical/HVAC
- Fire Protection/Life Safety
- Electrical
- Lighting
- Structural
- Security
- Data and Voice Communications
- Energy Management
- Audio Visual/Theatrical
- Computer Technology
- Achitectural
- Vertical Transportation
- Civil/Utility
- Geotechnical
- Traffic
- Landscape Architecture

Our office in Morgantown, WV, which will be managing this contract, is staffed with qualified and talented engineers and technicians. In addition to strong site/civil engineering capabilities, we offer in-house structural and geotechnical services.

OUR COMMITMENT TO QUALITY IS CENTERED ON PROJECT MANAGEMENT

Gannett Fleming has extensive experience with state contracting, including successful

management of A/E contracts. We understand the importance of quality, timeliness, and cost control, and have proven records of success in balancing these often-competing realities—even within today's fluctuating construction materials markets.

Gannett Fleming invests considerably in Project Manager training, and provides the latest tools to assist in keeping all assignments, large and small, on schedule and on budget. These will be used by our Project Manager for this contract, Samer H. Petro, P.E., who has participated on numerous architectural and engineering contracts for more than 20 years.

The strength of the proposed project team includes:

- An organizational structure with key personnel with prior state and other applicable management and design involvement using established design and quality guidelines.
- A project team consisting of multiple Gannett Fleming personnel in key disciplines and office locations (Morgantown, WV and Pittsburgh, PA) supplemented by two sub-consultants: DRS Architects (architectural services) and Potesta & Associates, Inc. (surveying services).



DRS Architects (DRS), (SB)

Architects/Planners/Interior Designers

DRS is one of the leading architectural, planning and interior design firms in this region for over 50 years. DRS is a small business. The firm enjoys a long standing reputation in the management of the design process, in control of project costs and schedules, and design excellence.

DRS offers a broad range of traditional planning/design services which include architectural design, facilities analysis, feasibility studies, master planning, site planning, space programming and interior design. The firm utilizes the services of outside engineering consultants selected for their experience with the particular building type. The engineering consultants are fully integrated into the Project Team through the entire design/construction process.

Over the last fifteen years, DRS has completed ten reserve centers/ readiness centers with maintenance facilities for the U. S. Army Reserve and Pennsylvania National Guard. Most recent relevant projects include the \$19 M Stryker Brigade Readiness Center and Organization Maintenance Shop and the \$4 M Operational Maintenance Shop for the PA Army National Guard. DRS has also completed buildings for the FBI, DEA, and local municipal buildings including police departments. DRS has completed two major maintenance facilities for the Port Authority of Allegheny County. These include the renovations and additions to the Ross & West Mifflin Division Garage and

renovations to the Collier Division Garage.

DRS also completed two vehicle maintenance facilities for the U. S. Postal Service in Warrendale and the North Side of Pittsburgh. A privately owned maintenance facility was completed for the Mellon Family at Rolling Rock Farms in Laughlintown, Pennsylvania. DRS has extensive experience in providing professional services to many Government Agencies. These include the City of Pittsburgh, County of Allegheny, Baltimore Corps of Engineers, Department of Energy, U. S. Postal Service, PA DGS, GSA, and VA. The Firm has consistently been ranked "above average" by these various Governmental Agencies.

DRS engages engineering consultants and other specialists for each individual project and fully integrates them into our Project Team for the entire design/construction process. DRS recently completed an Indefinite Delivery Contract with the Baltimore Corps of Engineers. Projects included various engineering projects at Letterkenny; the design/build RFP for the \$46M Advanced Chemistry Lab; the design/build RFP for the Lodging Facility at the Defense Distribution Depot Susquehanna, New Cumberland, Pennsylvania; and the field investigation/preconcept design for the Sample Receipt Facility.

The Firm is fully automated with several computer aided design drafting (CADD) systems including Microstation, Version 8 and AutoCAD 2009 and Revit . Members are currently utilizing building information modeling (BIM) on several projects.

These CAD programs are utilized in the preparation of design and construction documents as well as facility planning, programming and analysis. DRS has been using CADD since 1983 and has completed over \$3 B in projects. DRS is fully networked and our project delivery and productivity is further enhanced by the use of the Internet for electronic construction document management. Further DRS project experience can be viewed at our website, www.drsarchitects.com. DRS has seven LEED Accredited Professionals on staff. As a team effort, DRS emphasizes strategies for sustainable design, site development, water savings, energy efficiency, materials selection and indoor environmental quality.



Potesta & Associates, Inc. (Potesta)

Potesta offers a wide range of engineering and environmental services thanks to their capable team of engineers and scientists. Their staff also includes civil, geotechnical, environmental, mining, and chemical engineers, Licensed Remediation Specialists, biologists, toxicologists, geologists, hydrogeologists, ecologists, site designers, foresters, stream restoration design specialists, a landscape architect, surveyors, CADD designers, field technicians, and support personnel.

Their surveyors are experienced in many aspects of surveying such as topographic

mapping, boundary surveys (rural/farms, city lots, and subdivisions) and ALTA surveys, control surveys, flood certificate surveys, well location surveys, and construction surveys for layout of work, record drawings, and quantity measurements. Related areas include courthouse research, preparation of right-of-way plans, and verification of property owners. Potesta has licensed professional surveyors registered in West Virginia, North Carolina, South Carolina, Ohio, Virginia, and Pennsylvania. Their total combined surveying experience comes to well over 50 years.

Potesta's surveyors use state-of-the-art equipment such as Topcon total stations, Trimble R-8 GNSS, and SMI Version 8 data collectors with SMI software. Reduction and design software used includes AutoCAD, Softdesk Civil/Survey design, Autodesk Land Design, Microstation, and InRoads design software.

Potesta is equipped with modern surveying instruments, allowing efficient data processing and accurate gathering of field information. Total station instruments equipped with data collectors are utilized for complete field-to-office automation allowing for high levels of productivity in the field. The latest versions of software are then used to process survey data and create drawings or required end products. These products can be supplied to our clients in AutoCAD and/or Microstation format.

Surveys completed by Potesta are performed by or under the direction of a professional licensed surveyor. Surveys and mapping are completed to the standards outlined by the National Map Standards as well as other applicable quality standards.

Their staff is experienced in global positioning surveys (GPS). GPS equipment, Trimble R-8 GNSS, and existing base stations are among Potesta's surveying tools. Based upon the site location and ultimate use of the survey information, a recommendation is made to the client as to whether or not traditional survey or GPS is most applicable to their project.

CONTRACT/PROJECT MANAGEMENT

Gannett Fleming has identified key project personnel in the *Key Personnel Section* of this submission to fill all roles required to successfully complete this project. The project will be managed from our Morgantown, WV office. Samer H. Petro, P.E. will serve as our Project Manager.

PROJECT MANAGER- Samer H. Petro, P.E., WV Operations Manager and Senior Project Manager. Mr. Petro, a long-time Morgantown resident and a WVU graduate, has completed his BSCE in 1987 and his MSCE in 1993. His diverse background includes significant experience in both new construction and renovation of existing facilities, bridges, buildings, and civil infrastructure. He brings over 20 years of total relevant experience to this project. Mr. Petro is very familiar with the location of the West Virginia Army National Guard State Headquarters in Charleston, WV. He is ideal to manage the Joint Operations Facility and coordination of this project and will be responsible for ensuring that the requirements for each task are completed in a

satisfactory manner and that the schedule is achieved. He will communicate regularly with the project team to ensure that the final products meet all the expectations of the WV Army National Guard CFMO. Other project duties will also involve preparing monthly progress reports and processing change orders and applications for payment.

QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) – Raymond A. Wright, Facilities Construction Manager. Mr. Wright will be responsible for providing QA/QC services, including scheduling, cost estimating, budgeting, document reviews, and coordination among project stakeholders and WV Army National Guard CFMO.

PROJECT PRINCIPAL/ARCHITECTURE - Charles H. Beauduy, R.A., FCSI, CCS, CCCA, LEED AP, Senior Associate and Vice President for Gannett Fleming, Inc., and Vice President of Ganflec Architects and Engineers, Inc. Mr. Beauduy will be responsible for overall conceptual design and design development. In addition, Mr. Beauduy as Project Principal will approve all task order proposals, staffing plans, scopes of work, and task order cost estimates. Mr. Beauduy's architectural design experience includes a number of significant military, municipal, transportation, and private projects, as well as experience with joint operations facilities for the military.

The project team consists of two subconsultants:

- DRS Architects will be responsible for architecture considerations.
- Potesta & Associates, Inc. will be responsible for surveying.

The Gannett Fleming project team personnel shown in the organization chart and proposed in the *Key Personnel Section* of this submission, possess the registrations and licenses required to perform studies, inspections, testing, design, and construction-phase services for this assignment.

PERFORMANCE CAPABILITY

Our project team reflects sufficient capacity to provide the required architectural and engineering services to accomplish the project goals with timely, cost-effective solutions; and the expertise to address unforeseen conditions and schedule aberrations.

CLIENT SATISFACTION EVALUATION

Gannett Fleming solicits a "Client Satisfaction Evaluation" from every client—state, government, municipal, private industry, etc. Typically, we receive responses from approximately 45-55 percent of those solicited. There are six individual measurement points – technical quality, timeliness, effectiveness, dependability/reliability, cooperation, and communication – and one overall "performance" assessment. Ratings are based on a scale of one through five, with five being the highest.

EXPERIENCE AND QUALIFICATIONS

Performance

The records for the prior seven complete years are included for overall “*performance*”:

Year	Total # Responses	Highest Rating (#5)	Second Rating (#4)	Subtotal	% Total Responses
2003	320	168	99	267	83.4
2004	283	171	88	259	91.5
2005	302	191	95	286	94.7
2006	250	156	83	239	95.6
2007	263	180	68	248	94
2008	744	162	575	737	98.6
2009	225	151	62	213	94.6

This combined data represents a consistently high level of client satisfaction irrespective of client market sector in an increasingly critical environment.

Technical Quality

An extremely important factor that contributes to the overall “*performance*” assessment is our clients’ subjective evaluation of technical quality as shown:

Year	Total # Responses	Highest Rating (#5)	Second Rating (#4)	Subtotal	% Total Responses
2003	230	136	68	204	88.7
2004	242	137	86	223	92.1
2005	275	174	86	260	94.5
2006	243	143	79	222	91.4
2007	69	43	20	63	91.3
2008	744	133	571	704	94.6
2009	225	139	64	203	90.2

Timeliness

One other critical factor that contributes to the overall assessment of “performance” is our clients’ perception of our timeliness.

Year	Total # Responses	Highest Rating (#5)	Second Rating (#4)	Subtotal	% Total Responses
2003	231	132	65	197	85.3
2004	242	128	83	211	87.2
2005	275	149	94	243	88.4
2006	234	126	84	210	89.7
2007	69	41	22	63	91.3
2008	744	125	571	696	93.5
2009	225	130	64	194	86.2

PROJECT CONTROL

Gannett Fleming’s methodology to manage the project and control the schedule, quality, and costs is briefly outlined below.

Project Understanding – We will make certain that the Gannett Fleming Team members understand the scope of work of the project as communicated with WV Army National Guard C&FMO staff to complete each task/phase of this project efficiently, within budget, and on time for conceptual design phase, construction document phase, and construction administration phase.

Quality Assurance/Quality Control – Gannett Fleming’s quality policy is to “provide professional services that meet the requirements of clients and involve all personnel in continually improving work processes.” As part of that commitment, in 2007, Gannett Fleming set and successfully achieved its goal of achieving ISO 9001:2008 certification.

This certification, along with our corporate quality guidelines, establishes and monitors requirements for:

- Working with the client to establish an appropriate scope of work.
- Allocating necessary resources to the project.
- Monitoring the progress (cost and schedule) of the work.
- Establishing and following project standards.
- Reporting progress to the client.
- Checking and correcting work products.
- Transmitting deliverables to the client.
- Closing out the project.

Schedule Control –The Project Manager will be responsible for maintaining the project schedule. He will be responsible to pull the necessary personnel and resources to meet the needs of the task order and the deadlines established.

The Project Manager will work with the WV Army National Guard CFMO to establish reasonable schedules with associated deadlines for input. He will keep them informed of any seen or unforeseen changes to schedule regardless of reason, and will provide regular updates to the project schedule.

Scope/Cost Control – Gannett Fleming routinely manages well over \$300 million dollars in professional services on major project work each year. Additionally, we provide construction management services on several hundred million dollars of construction services annually. Cost containment is a basic criterion for virtually everything we do. It is imperative to our future that we maintain a competitive position in the marketplace. That means a constant, careful management of our costs. It is critical that our clients receive engineering services that are not only technically sound, but are performed within strict cost-control objectives and responsive to our client's needs and expectations. Gannett Fleming will make certain that during the design process the team delivers a well-conceived and complete work product. The QA/QC review team will be actively involved throughout the entire design process to minimize any engineering related design change. In addition, regularly scheduled stakeholder design and review sessions and associated design minutes also ensure that the owner's input has been properly addressed and recorded. Those issues that do arise during the construction process that necessitate a change will be reviewed thoroughly with the owner and contractor to minimize the cost and scheduling impact of the change.

Budget Tracking and Compliance - Gannett Fleming proposes to use its existing management information system, BST Enterprise, in the planning, budgeting, and cost tracking and control of work assignments under this project. The existing management information system is PC-based and Internet accessible, which allows effective digital communication and use of data throughout the firm.

Our project team organization includes a Project Principal, Project Manager, Task Order Managers, QA/QC Manager, key specialists, and project staff.

The Project Manager is the point of contact for the WVANG. Contractual authority will reside with the Project Manager, Samer Petro; however, he will act as a contract administrator and expeditor for the Project Principal. He will execute task orders, monitor QA/QC implementation, and prepare invoices for WVANG approval.

Project Management

Members of the project team will understand the scope of work on this project and implement change, where necessary, and properly plan and communicate at each phase of the project with the WVANG staff and Task Order Managers, subconsultants, and each member of the project team to complete this project efficiently, within budget, and on time. Gannett Fleming's Project Management and Quality Guidelines will serve as the universal structure for communication and project management among our project team.

These guidelines incorporate a dynamic Continuous Quality Improvement (CQI) program that monitors client perception to make certain our clients realize the level of quality they expect. Before work is initiated on any project, a project execution plan (PEP) will be prepared in accordance with the guidelines. The PEP is specifically designed for each task order. The PEP will be prepared by the Task Order Manager with input from the Project Manager and the Project Principal. The PEP is approved by the QA manager before authorization is granted to proceed with the project. The PEP includes information in the following areas:

- Task order goals and objectives and deliverables.
- A detailed description of each task to be performed.
- Schedule.
- Team organization and subcontracting.
- Key personnel and their responsibilities.
- Resources needed for each task.
- Task order budget based on man hours and costs to complete each task.
- QA/QC procedures.
- The independent technical review team composition.
- Communication protocol and frequency.

The task order team is led by seasoned Project Managers who are knowledgeable in the type of work to be performed; NGB guidelines, policies, and regulations; the project's local conditions; and the required WVANG procedures for executing the task order. Each task order begins with a kick-off meeting for all key team members. During this meeting, task order components are discussed in the context of the overall schedule. Budget and personnel assignments are reviewed and communication protocols are established. Commitments are confirmed for the assigned personnel including subconsultant personnel.

Periodic team meetings are scheduled on an as-needed basis. The meetings may be face-to-face or, as happens in many cases, via a virtual team meeting. The means of communication for virtual team meetings are e-mail, desktop and real-time conferencing, telephone conference calls, video teleconferencing, electronic bulletin boards, or WebEx project document sharing. Virtual teams are unrestrained by space, time, or physical presence. The team meetings make certain everyone is linked into the task order schedule and execution takes place as planned. Issues discussed include specific task order

objectives, policies, strategies, and expertise as well as resolution of project issues. In most cases, the team has previously worked together, and the intent is for them to work together in the future where the project complexity fits the team members' expertise.

We have found face-to-face teams communicate better initially, but as the team members develop relationships and gain experience, the virtual teams function more efficiently than the face-to-face teams. The virtual team members have senior staff that coach and guide them when necessary. Creative, proactive individuals and modern communication technologies enables us to reduce costs, match the individuals with the required expertise to the project needs, and make efficient use of each team member's time by integrating their different schedules in an efficient manner.

QA/QC Compliance

Gannett Fleming has a QA/QC Officer who has the authority to require implementation of all actions necessary to document and correct a situation that creates an adverse impact on the quality of the work product.

The QA/QC Officer, Ray Wright, will be called upon throughout the task order to offer insight into solutions and to provide review. In-house senior architects and engineers with relevant experience on facilities projects will provide peer review. Prior to submission, the QA/QC Officer will review project deliverables, and audits will be conducted throughout the project. Audits serve the following functions:

- To determine whether work is performed in a systematic, understandable, and professional manner. In particular, data gathering, data handling practices, computer program documentation, and data analysis procedures would be audited
- To verify specific quality requirements implementation
- To detect and define problems so that immediate corrective action can begin
- To verify that QC has been performed
- To make certain that performance is responsive to the WVANG's needs and objectives

Subconsulting Plan and Role of Subconsultants

Currently, there are two subconsultants. If needed, additional subconsultants may be added to the project team in accordance with guidelines and procedures. In each case, during the development of the scope of services and cost estimate, the Project Manager will help to define requirements for subconsultant deliverables within their area of expertise. Subconsultants will be expected to identify personnel with corresponding authorities and responsibilities within their own organization. Subconsultant managers and staff are expected to have contact with the WVANG staff but will be instructed to accept directions relating to their scope of services, schedule, or budget only through the authorized Manager.

Subconsultant task order assignments, requirements, and deliverables will be clearly defined and communicated to the appropriate subconsultant personnel to maximize efficient performance. The Project Manager is responsible for monitoring technical quality and verifying subconsultant performance and budgetary control during the performance of this work. Subconsultant invoices will be reviewed and approved by the Project Manager before the invoices are entered into our accounting system.

System for Identifying and Addressing Problems

Task order problems tend to be specifically related to schedules, staffing, budgets, or scope of services. Our Task Order Managers have numerous tools available to them to track project progress, including Web-based management information systems (MIS). These allow up-to-the-minute reports showing all costs and charges associated with an assignment.

Cost Control – Our firm routinely manages more than \$200 million in professional services on major project work each year.

Cost containment is a basic criterion for virtually everything we do. It is imperative to our future that we maintain a competitive position in the marketplace. That means constant, careful management of our costs. It is critical our clients receive architectural and engineering services that are not only technically sound but are performed within strict cost-control objectives.

To enable our Project Managers to implement cost control, we have developed an effective MIS. This system consists of the following basic elements:

- Project time charges are entered by each employee into our electronic timesheet system on a daily basis. Timesheets are compiled and checked on a bi-weekly basis. Timesheet entries indicate the work assignment as well as the task on which time was spent.
- Level of effort and approximate payroll charges to tasks are compiled bi-weekly. Travel and other direct charges are provided by Task Order Managers and subconsultants on a weekly basis.

Each Task Order Manager and Project Manager tracks the costs of his project team's activities on a bi-weekly basis. Actual computerized cost information is derived from corporate accounting and assembled into a bi-weekly report that compares actual costs to budgeted costs. This system has several important advantages over off-the-shelf project MIS, including the following:

- It is extremely simple and not demanding of time. Therefore, individuals are likely to provide timely input and are also likely to use its output
- It is folded into the Gannett Fleming electronic timesheet process and does not require a parallel record keeping system
- Our subconsultants are not required to learn a new system; they simply provide raw hours and rate information by regular, scheduled transmissions

Schedule Control – The project team has the capacity and expertise to complete this project on time. We recognize a major element used to evaluate the effectiveness of our services is the degree to which schedules are completed. Our project efforts are directed toward a high level of schedule control and our project management policies have been devised to support this objective. Gannett Fleming will utilize a number of tools to assist with efficient project execution for this project. Examples of this include our Web-based project management and accounting tools, in conjunction with scheduling software, regular team communications, corporate procedures for project execution, and good sound judgment. This allows our Project Manager to identify problems early, so expedient correction can minimize schedule or cost overruns.

PAST EXPERIENCE AND SIMILAR PROJECTS

Gannett Fleming has selected a Team with qualifications to match this project's requirements. Our proposed Team consists of a highly qualified group of engineers, architects, planners, environmental scientists, and technicians who collectively possess the analytical and technical experience to provide the services necessary for the design of a Joint Operations Facility in the vicinity of the WV Army National Guard Headquarters in Charleston, WV. Our team offers the following strengths:

- Facility planning, design, and construction inspection experience.
- Employee-owned, discipline-based firm that responds to clients first and is not distracted by outside business concerns.
- 95 years of corporate experience.
- Commitment to sustainability and energy efficiency in our design and practices.

SPECIALIZED EXPERIENCE

The Gannett Fleming Team have provided designs of new facilities or utility systems of various types, sizes and complexities as well as the rehabilitation of existing facilities or utility systems of various types, sizes and complexities for both the US Army and Air National Guard (NG). Gannett Fleming has also delivered designs for new construction and repair/renovation investigations and designs on a variety of facility types and project types throughout Pennsylvania for the Pennsylvania Air National Guard and Army National Guard on three consecutive IDIQ contracts with the USPFO for PA.

During the past 31 years, we have also designed more than 40 facilities for the NG. We have a good appreciation of the NG's procedures and have substantial experience in using Army and Air Force Design Criteria. The following sections describe our team's expertise:

Sustainable Design

In recent years, there has been greater emphasis on using sustainable design practices. Gannett Fleming is an active proponent in the principles of sustainable design (energy conservation, pollution prevention, waste reduction, and the use of recovered materials) and has incorporated this philosophy on specific projects and in our core business practices. We are a member of the U.S. Green Building Council (USGBC), participate in applicable industry workshops, and have certified Leadership in Energy and Environmental Design (LEED) Accredited Professionals, representing various disciplines including mechanical, electrical, and architectural.

Currently Gannett Fleming employs more than 40 LEED Accredited Professionals. These individuals successfully demonstrate knowledge of green building practices and principles and the LEED rating system, resources, and process. They continue to demonstrate Gannett Fleming's commitment to designing high-performance, energy-efficient, and environmentally friendly facilities. Gannett Fleming uses integrated design

PAST EXPERIENCE AND SIMILAR PROJECTS

approach and life-cycle costing to evaluate options that provide the most energy efficient solution for each client.

Our dedication to implementing sustainable technologies and systems focuses on improving our personal performance through an improved working environment using more efficient and cost-effective building systems. Energy conservation (which favorably reduces source pollution) is an important aspect of our design philosophy, beginning with the building envelope, efficient lighting, and efficient heating and cooling systems, supplemented by building management systems.

Our proposed project team for this assignment consists of 19 LEED Accredited Professionals. Additionally Gannett Fleming has received LEED certification or registered (awaiting certification) for the following projects displaying the diversity of usage of sustainable design practices:

Project Title	Square Feet	Cost	Completed
Londonderry School District, Harrisburg, PA	26,000	\$3 mil	2005
Harrisburg Area Community College, Harrisburg, PA	50,000	\$10 mil	2006
Greater Richmond Transit Company, Richmond, VA	100,600	\$35 mil	2010
MTA Metro-North Railroad, Croton-on-Harmon, NY	180,000	\$48 mil	ongoing
Northampton Borough Municipal Authority, Northampton, PA	31,500	\$25 mil	2006
Exelon Renewal Energy Education Center, Fairless Hills, PA	4,000	\$1.5 mil	2008
PAANG Air Support Operations Squadron Bed-Down Facility, Annville, PA	34,100	\$5.27 mil	ongoing
Project Title	Square Feet	Cost	Completed
PAANG Troop Camp Dormitory, Annville, PA	16,150	\$4.7 mil	ongoing
Campus Square Office Building, Harrisburg, PA	75,000	\$8.5 mil	ongoing
PAANG Bldg 75 Maintenance Hangar Renovation, Harrisburg, PA	54,600	\$4 mil	ongoing
Conowingo Dam Visitor Center, Darlington, MD	4,000	\$1 mil	ongoing
New Jersey Turnpike Authority Interchange 8 Toll Facility, NJ	8,000	\$1 mil	ongoing
PAANG Regional Support Group Headquarters Facility, PA	17,000	\$6.3 mil	ongoing
Borland Lab Renovation, State College, PA	76,000	\$1 mil	2008
School of Forest Resources, State College, PA	96,000	\$1 mil	2006

Gannett Fleming provides a qualified team and focused approach to performing energy and sustainability assessments. Our full service in-house capabilities include engineering, architectural, construction management, environmental, and specialty services that are focused on providing comprehensive energy management, design, and operations solutions. Our staff includes Certified Energy Auditors, Certified Energy Managers, Certified Lighting Efficiency Professionals, and High-Performance Building

PAST EXPERIENCE AND SIMILAR PROJECTS

Design Professionals. Gannett Fleming's services include energy consultation and audit studies, energy modeling services, preliminary and final design services, construction management, equipment testing, start-up, commissioning, and ongoing services.

Our comprehensive energy assessment program gives our clients an objective analysis of their costs and operations. Such an analysis can provide the basis for energy conservation measures, improved facility management and operations, as well as implementation of sustainability practices. Gannett Fleming's in-house architectural, engineering, and technical services are organized to positively support our client's energy conservation efforts and their energy service requirements. Our Energy Services Team has developed a detailed approach to identifying and evaluating the potential benefits of energy conservation measures, which has led to reduced operating costs for our clients. Other areas of expertise include:

- **Electrical** - Our electrical design experience includes copper and fiber data networks, router/hub selection, wireless telemetry, and distance learning systems as well as traditional facility design, high-voltage applications, and retail lighting and power design. Our experience in power system design includes the phases of high-, medium-, and low-voltage power distribution systems; substations; protective relaying; emergency power; and cogeneration systems for industrial facilities. The comprehensive electrical services we have provided for special systems include lighting, telephone, security, fire protection/control, closed circuit television, card access, paging/intercom, and Uninterruptible Power Supply systems.

Our state-of-the-art power systems expertise gives us the ability to handle projects where system reliability and performance, along with meeting schedule and budget requirements, are critical client concerns. We have evaluated and modeled the adequacy and reliability of existing systems and auxiliary facilities and completed many major projects involving phase-by-phase design and construction with minimal disruption to our clients active operations. Our electrical distribution systems are routinely modeled using interactive PC-based load flow and fault duty software programs to evaluate the adequacy of the existing systems. We are also well versed in control theory and application as well as the integration of existing multi-vendor systems. These systems include Building Automation Systems; Energy Management Systems; Programmable Logic Controllers Systems; the types of field instrumentation; computer systems; and operator interfaces such as Human-Machine Interfaces, telemetry links, and data communications in support of a totally integrated design.

- **Mechanical** - Our mechanical engineers are trained to use the latest design codes, industry standards, and CADD software. The mechanical services we provide include site inspection; feasibility and energy studies; design development; construction document development; and construction services for heating, ventilating, and air conditioning; and plumbing systems.

PAST EXPERIENCE AND SIMILAR PROJECTS

- **Site/Civil** - Our civil engineers are trained to use the latest design codes, industry standards, and CADD software. The site/civil services we provide include site inspection; storm water management, site grading, and erosion sediment control. Other services our civil engineers typically provide include waterline and sanitary sewer line connections to the site. In addition, our engineers typically prepare and submit agency permits requirements.
- **Construction Administration Services** - We also have provided construction-related engineering services during the construction phase of almost all of our designs. Our services are tailored to the specific needs, size, and complexity of each project. This means providing all of the necessary management and technical services from planning and pre-design . . . through final design . . . during construction . . . and into operation. Specifically, our approach to Construction Administration includes developing a contract that contains language with specific milestones to be achieved (by the contractor) within a certain time frame, diligently monitoring progress, and challenging any slippage. Ligated damages may be associated with these milestones. Our goal is to provide comprehensive construction observation and monitoring of contractor progress, catch any schedule slippage early on, and compel corrective action at the earliest point possible. Our experience is that delays in contract completion are often due to slippage occurring early on in the critical path of activities. Our team has provided similar services and are familiar with military projects and know what to look for, where to start, and what questions to ask the contractor. We intend to have the contractor submit a schedule for approval by Engineer/Architect (at the beginning of the project) and we will hold contractor accountable.
- **Analysis and implementation of anti-terrorism and force protection requirement:** Gannett Fleming, Inc. has incorporated anti-terrorism and force protection (AT/FP) measures into all of its structures designed for federal facilities since the publication of draft design criteria in 2001. Examples of AT/FP measures used in our plans and designs include the following:
 - Operations and Training Facility, 201st Red Horse Squadron, Fort Indiantown Gap, PA, 22,500-square-foot Operations and Training facility. The design incorporated many elements of sustainable design and met the design standards of the Anti-Terrorism/Force Protection criteria (UFC 4-010) for military facilities.
 - Lightning Force Academy, Fort Indiantown Gap, PA, 4,000-square-foot facility for the training and education of personnel responsible for the construction of temporary communications rooms under simulated field conditions. The project incorporated many elements of sustainable design and met the design standards of the Anti-Terrorism/Force Protection criteria (UFC 4-010) for military facilities.
 - Regional Equipment Operators Training School, Fort Indiantown Gap, PA, 4,000-square-foot schoolhouse for the training and education of heavy

PAST EXPERIENCE AND SIMILAR PROJECTS

equipment operators tasked with repairing and constructing temporary military airfields. The project incorporated many elements of sustainable design and met the design standards of the Anti-Terrorism/Force Protection criteria (UFC 4-010) for military facilities.

- Air Operations Squadron Training Facility, 112th Air Operations Squadron, State College, PA, 22,500-square-foot Operations and Training facility. The design incorporated many elements of sustainable design and met the design standards of the Anti-Terrorism/Force Protection criteria (UFC 4-010) for military facilities.
- Facilities Standardization Program, Access Control Points for U.S. Army Installations, U.S. Army Corp of Engineers. Bases include Fort George G. Meade, and Fort Belvoir.

Our team has designed many projects for DOD and National Guard facilities and related agencies. The following projects demonstrate GF's and DRS's past experience with similar projects as the joint operations facility. Our team has the experience, capabilities, location, and enthusiasm to ensure a successful project for the West Virginia Army National Guard.



ARCHITECTS

COMPANY NAME
DRS Architects

U.S. ARMY RESERVE CENTERS/OMS MORGANTOWN, ELKINS & KINGWOOD, WEST VIRGINIA

ROLE: PRIME

Project Management
Site Planning
Architectural Design
Interior Design
Coordination of Engineering Disciplines

CONSTRUCTION COST

\$12,000,000

COMPLETION

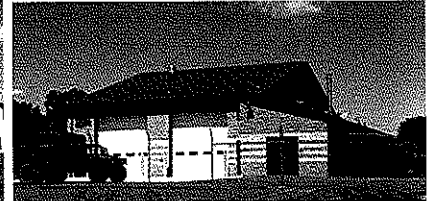
1994—1996

REFERENCE

U.S. Army District, Baltimore
Corps of Engineers
P. O. Box 1715
Baltimore, MD 21203-1715
Margie Marcus, Design Manager
(410) 962-6790

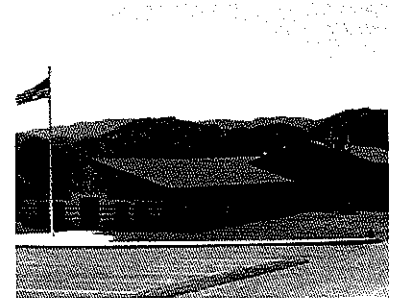
SCOPE OF PROJECT

DRS has prime responsibility for the design of three USAR Centers with each having an Organizational Maintenance Shop in Morgantown, Elkins and Kingwood, West Virginia. All three facilities are constructed.



The 300-Member Morgantown USAR Center is located on an 8 acre site and contains 21,700 SF of space in the Administration/Training Building and 5,500 SF in the four bay OMS building.

The 60-Member Elkins USAR Center is located on a 4.2 acre site and provides 12,000 SF of space in the Administration/Training Building and 4,200 SF in the three bay OMS Building.



The 100-Member Kingwood USAR Center is located on a 4.8 acre site and provides 19,000 SF of space in the Administration/Training Building and 5,000 SF in the four bay OMS Building with 600 SF of covered storage area.

The DRS Design Team was responsible for the site planning, space planning, facility design, all submission requirements, i.e., design analysis, LCCA, M-CACES, construction schedule, construction drawings and specifications, interior design and selection of furniture for all three of these Reserve Centers. In selecting the furniture, the Design Guide for U. S. Army Reserve Centers and Furniture Design Guide for U. S. Army Reserve Centers was used. All three projects were designed to meet ADA Compliance. This was the first group of USARC/OMS' undertaken by DRS.

All three facilities contain the following functional elements:

- Administrative Spaces - Full time staff offices; Unit exclusive offices; Unit common spaces; Retention.
- Educational - Classrooms; Learning Center; Library; Comsec Training.
- Storage Spaces - Unit and Individual Storage; Comsec Storage.
- Assembly Area and Support Spaces - Food Preparation; Arms Vault; Chair Storage.
- OMS Facility - Work Bays; Wash Bays; Shop Office; Battery Room; Parts & Tool Storage; Flammable Storage; Hazardous Storage.

Because of our performance on these projects, the Baltimore Corps of Engineers awarded DRS four other U. S. Army Reserve Center w/ Organizational Maintenance Shop projects.



ARCHITECTS

COMPANY NAME
DRS Architects

U. S. ARMY RESERVE CENTER WITH OMS/AMSA DESIGN/BUILD PROJECT WHEELING, WEST VIRGINIA

ROLE: 30% CONCEPT DESIGN

Project Management
Site Planning
Architectural Design
Interior Design
Review of Design/Build Contractors
Submissions

CONSTRUCTION COST

\$10,197,000

COMPLETION

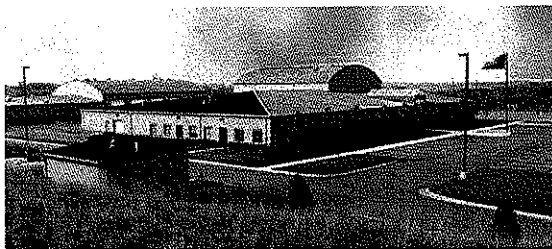
1994 Concept Design
1996 Construction

REFERENCE

U.S. Army District, Baltimore
Corps of Engineers
P. O. Box 1715
Baltimore, MD 21203-1715
Bill Taylor, Design Manager
(410) 962-4453

SCOPE OF PROJECT

The Army Reserves and the Corps of Engineers chose to complete this project by the Design/Build method based on the 30% Concept Design in order to expedite the schedule. The DRS Design Team working in conjunction with the BCOE also developed the RFP Package which primarily used Commercial Standards in lieu of COE requirements. Proposals were obtained from Design/Build Contractors and a contractor was selected. DRS was responsible for reviewing the Design/Build Contractor's submissions.



The project includes a 24,000 SF Training Building and 17,000 SF OMS/AMSA. The Training Building consists of full-time staff offices, unit exclusive offices, unit common space, retention office and

administrative support. Assembly areas include assembly hall, chair/table storage, kitchen, arms vault and armorer. Educational facilities include classrooms, library reading room, library storage, learning center, training aid storage, comsec training and comsec storage. Special training areas include weaponeer room, medical section, soils testing lab and drafting room. Storage areas include unit and individual storage, staging and supply offices.

The OMS/AMSA contains an organizational maintenance shop consisting of shop office, tool storage, parts storage, battery storage and charging, flammable storage and a controlled waste storage.



The area maintenance support activity (larger maintenance facility) consists of shop offices, toilets and locker rooms, classroom and break area, tool room, parts room, battery room, small arms repair shop, small arms vault, AMSA flammable storage and controlled waste storage. Joint areas of the OMS/AMSA include four double work bays with a 10-ton overhead crane and double wash bay.



ARCHITECTS

**U.S. ARMY RESERVE
CENTER/OMS
GRANTSVILLE, WEST VIRGINIA**

ROLE: PRIME

Master Plan
Project Management
Architectural Design
Interior Design
Coordination of Engineering Disciplines

COMPLETION

1998

CONSTRUCTION COST

\$4,500,000

REFERENCE

U.S. Army District, Baltimore
Corps of Engineers
P. O. Box 1715
Baltimore, Md 21203-1715
Margie Marcus, Design Manager
(410) 962-6790

SCOPE OF PROJECT



The DRS Design Team was responsible for architectural/engineering and interior design services. Site Delineation Study and Engineering Feasibility Study were required to determine the viability of the selected site.

The project consisted of a 15,300 SF Training Building and 2,400 SF Organizational Maintenance Shop. The Training Building contains full-time staff offices, unit exclusive offices, unit common space, retention office and administrative support. Assembly areas include assembly hall, chairs/table storage, kitchen, arms vault and armorer. Educational facilities include classrooms, library reading room, library storage, learning center, training aid storage, comsec training and comsec storage. Special training areas include weaponeer room and special projects classroom. Storage areas include unit and individual storage, staging area and supply offices. A completed interior design package was developed for this facility.



The OMS contains shop office, tool storage, parts storage, battery storage and charging, flammable storage, hazardous storage and toilet. The maintenance area consists of a double work bay and single wash bay.



ARCHITECTS

**STRYKER COMBAT
BRIGADE
READINESS CENTER &
OMS
CAMBRIDGE SPRINGS, PA**

OWNER

Department of Military & Veterans Affairs

ROLE: DESIGN/BUILD ARCHITECT

Project Management
Site Planning
Architectural Design
Interior Design
Submissions

DESIGN/BUILD CONTRACTOR

Mascaro Construction Company

CONSTRUCTION COST

\$19,000,000

SQUARE FOOTAGE

85,000 SF

COMPLETION

June, 2008

REFERENCE

Mark Austin, Director,
Bureau of Facilities and Engineering
Department of Military & Veterans Affairs
Fort Indiantown Gap, Pennsylvania
717-861-2915



The two-story, 65,000 SF, \$19 M Readiness Center is designed to support the consolidation of three units totaling 438 reservists. Each unit has dedicated locker rooms, unit storage, arms vault and administrative offices to permit independent operations. Facilities shared by the three units include a 2,200 SF medical clinic; a 1,200 SF fitness room, a 7,300 SF assembly hall with full service kitchen, 4 large classrooms, break areas, general administrative offices and a recruitment center. In addition, there are areas designated for specific functions. The building is designed to permit community access to the assembly hall and adjacent restrooms while locking out the remainder of the facility. The site development and building construction are appropriate to meet the Anti-Terrorism and Force Protection Level established for the facility.

The maintenance facility is 20,000 SF and designed to provide adequate field maintenance support for vehicles and equipment supported by this Facility.



The facility consists of six (6) maintenance workbays of which two (2) bays are serviced by a 15-ton overhead crane, one (1) warm-up bay, one (1) welding bay plus administrative, personnel, storage and work areas. The six (6) workbays, each 32' x 74', are designed as drive through bays to accommodate the largest equipment supported by the facility. Supporting facilities include one (1) exterior wash rack, one (1) exterior fuel storage and dispensing system, controlled waste handling facility and a building for miscellaneous storage. Primary heating system for the workbays is an in-slab radiant piping system with hot water provided by two (2) gas-fired boilers which is supplemented by gas-fired radiant heaters at the overhead door. Utility services to each workbay include a carbon monoxide exhaust system, compressed air hose reel, overhead power reel and 220v power outlets.

Both buildings are constructed of a steel frame, concrete masonry walls with split face concrete masonry and face brick veneer and a SBS modified bitumen metal roofing system.

Parking for POV and military vehicles is provided.

The Readiness Center is designed to achieve a SPiRiT Bronze rating for energy and environmental design. The project was constructed with the Design/Build method of delivery.



U. S. ARMY RESERVE AVIATION FACILITY JOHNSTOWN, PA

ROLE: PRIME

Master Plan
Project Management
Architectural Design
Interior Design
Coordination of engineering disciplines

COMPLETED

1997

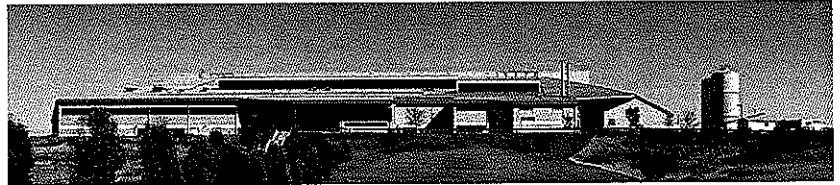
CONSTRUCTION COST

\$22,000,000

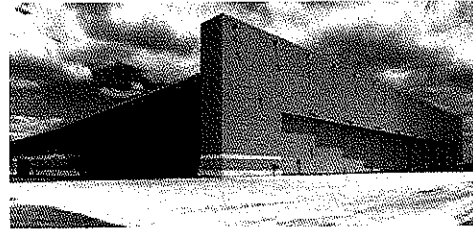
REFERENCE

James K. Payne, Chief, Project Development
US Army Corps of Engineers
Aberdeen Proving Ground-IPO Bldg. E-1356
Bush River & Scully Roads
Aberdeen Proving Ground, MD 21010
Phone: 410-436-0526

SCOPE OF WORK



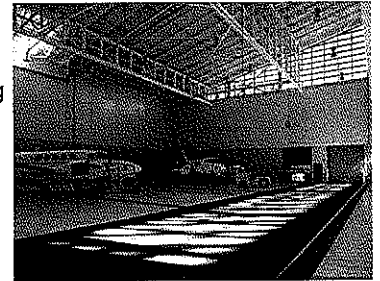
DRS had prime responsibility for the design of a new 120,000 SF U. S. Army Reserve Aviation Facility for both rotary and fixed wing aircraft located at the Johnstown-Cambria County Airport. The multi-building complex is located on a 80-acre site and construction was completed in the spring of 1997. It was determined that the Facility was to be shared by the U. S. Army Reserves and PAARNG. Salient points of the project includes:



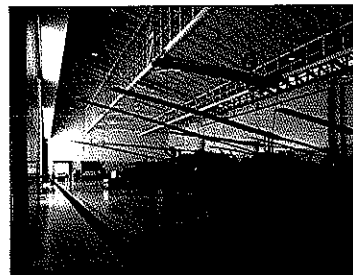
Site development included the entrance roads, site utilities, parking lots, security fencing and landscaping. The scope of the work includes design of taxiways, hangar apron areas, parking for twenty-four AH-1's and four C-12's associated aircraft and taxiway lighting, aircraft signage and

site storm drainage collection and retention.

Hangar floor area of 330 feet x 94 feet with a safety corridor around the perimeter is comprised of flexible work bays and a wash bay. Individually motorized operation sliding doors with door pockets at either side provide access to the Hangar. A 5-ton crane with a 40 foot span serves the entire length of the hangar. A foam water fire suppression system is provided along with a detention area.



Shop areas include hydraulics, air frames, sheet metal shop, rotor shop, engine shop, battery shop, material and maintenance control, corrosion control, arms vault, unit maintenance and GSE storage. Support spaces for the shop areas include parts storage, tool room, ordnance and extensive storage space.



Aircraft related spaces include avionics, navigation and flight planning, flight briefing room, officers ready room, safety and NATOPS, quality assurance and maintenance administration.

Administrative spaces include offices and common administration area, classrooms, legal, medical, computer work area and reserve facilities. Common spaces include lobby, break room, toilets and locker rooms.

The Reserve Center will provide administrative areas, unit common space, assembly hall, classrooms, learning center, library, unit and individual storage and support space. A secured parking area is also provided for military equipment parking.

DRS provided the selection of furniture for 60,000 SF of office space for this project using GSA Furniture & Furnishings Procurement and UNICOR.





ARCHITECTS

COMPANY NAME
DRS Architects

OPERATIONAL MAINTENANCE SHOP
PENNSYLVANIA DEPARTMENT OF GEN-
ERAL SERVICES FOR
PA ARMY NATIONAL GUARD
RICHLAND TOWNSHIP
JOHNSTOWN, PENNSYLVANIA

ROLE:

Project Management
Architectural Design
Interior Design
Coordination of all engineering disciplines

COMPLETION

January 2005

ESTIMATED CONSTRUCTION COST

\$4,161,000

DRS FEE

\$260,000

REFERENCE

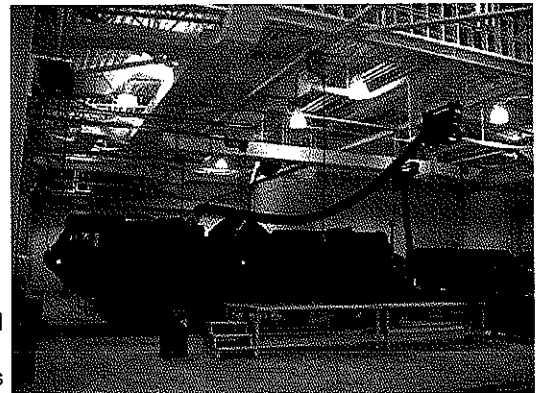
Major Mark Austin
Pennsylvania Army National Guard
Department of Military Affairs
1129 Utility Road
Annville, PA 17003
(717) 861-2915

SCOPE OF PROJECT



The new maintenance facility is designed to provide adequate organizational maintenance support for vehicles and equipment supported by this Shop. The facility will consist of eight (8) maintenance workbays of which two (2) bays will be serviced by a 30-ton overhead crane, one (1) warm-up bay plus administrative, personnel and work areas. The eight (8) workbays, each 32' x 74', are designed as drive through bays to accommodate the largest equipment system supported by the facility. Supporting facilities include one (1) exterior wash rack, one (1) exterior fuel storage and dispensing system, controlled waste handling facility, building for miscellaneous storage, military vehicle parking (74) and POV parking (31).

The building is constructed of a steel frame, concrete masonry walls with split faced concrete masonry veneer and a curved seamed metal roofing system. Primary heating system for the workbays will be an in-slab radiant piping system with hot water provided by two (2) gas-fired boilers. Utility services to each workbay includes a carbon monoxide exhaust system, compressed air hose reel, overhead power reel and 220v power outlets.



The site configuration and physical constraints had a major impact upon building placement and orientation. The site contains 13.56 acres in an irregular configuration. A 6.15 acre portion of the site is within the runway protection zone of the adjacent airport and is unbuildable. The remaining 7.41 acres is bisected diagonally by an area of wetlands leaving approximately 5.00 acres for development.



ARCHITECTS

DRS approaches all of our projects with an eye toward environmental stewardship. Currently, seven of our architects and designers are LEED Accredited Professionals and we are actively encouraging others to become accredited. At the outset of the LEED process, we establish an open, collaborative process with our engineers and the entire project team to seek the best solutions that contribute to our client's long and short range sustainable or LEED certification goals.

The following are DRS Architect's projects that have received LEED or SPiRiT* certification or are designed for LEED certification.



Sample Receipt Facility

BNY Mellon—30 and 31st Floors—Pittsburgh, PA
LEED Gold Certification

BNY Mellon—27th Floor—Pittsburgh, PA
Designed for LEED Silver Certification

BNY Mellon—32nd Floor—Pittsburgh, PA
Designed for LEED Platinum Certification

Drug Enforcement Administration, Milwaukee, WI
Designed for LEED Certification



Advanced Chemistry Lab

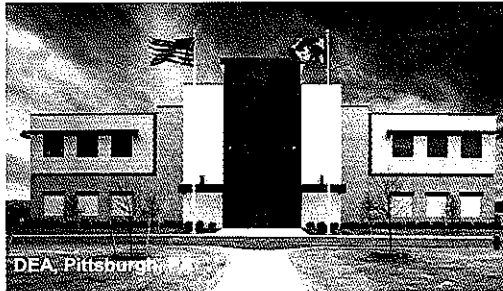
Drug Enforcement Administration, Pittsburgh, PA
LEED Certification

DRS Office Renovations, Pittsburgh, PA
Designed for LEED Certification

Duquesne University, Power Center, Pittsburgh, PA
LEED Silver Certification

SSA Building, McKeesport, PA, LEED Silver Certification

PNC YMCA at Market Square, Pittsburgh, PA
Designed for LEED Silver Certification



DEA, Pittsburgh

Thelma Lovette YMCA, Pittsburgh, PA
Designed for LEED Silver Certification

Student Union, Slippery Rock University, Slippery Rock, PA
Designed for LEED Silver Certification

Expansion/Renovation of the Schools of Dental Medicine & Pharmacy, University of Pittsburgh, Designed for LEED Certification

McCoskey Center, Slippery Rock University, Slippery Rock, PA
Designed for LEED Existing Building



PA DMVA Stryker Brigade RC

Advanced Chemistry Lab, Aberdeen Proving Ground, MD
Bronze SPiRiT Certification

Sample Receipt Facility, Aberdeen Proving Ground, MD
Bronze SPiRiT Certification

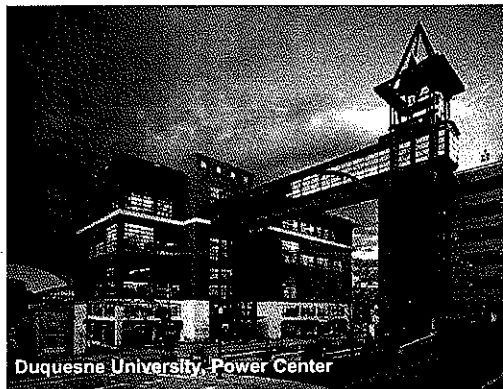
PA DMVA Stryker Brigade Readiness Center, Cambridge Springs, PA, Bronze SPiRiT Certification

Duquesne University, Student Union, 1st Floor, Pittsburgh, PA,
Designed for LEED Silver Certification

Duquesne University, Gumberg Library Renovation—Pittsburgh, PA
Designed for LEED Certification

Duquesne University, Locker Room Renovation—Pittsburgh, PA
Designed for LEED Certification

Starting Gate, Beaver, PA, Designed for LEED Certification



Duquesne University, Power Center

*The SPiRiT rating was developed by the Department of Defense prior to adopting LEED standards.



**PENNSYLVANIA AIR NATIONAL GUARD
148TH AIR SUPPORT OPERATIONS SQUADRON
BED-DOWN FACILITY**

Client: U.S. Property and Fiscal Office for Pennsylvania

Location: Fort Indiantown Gap, Pennsylvania
Construction Cost: \$5.27 Million

Gannett Fleming provided complete architectural, structural, civil, geotechnical, environmental, mechanical, and electrical engineering design services for a bed-down facility for the Pennsylvania Air National Guard's 148th Air Support Operations Squadron. The project involved the design of 34,100 square feet of new facilities.

The functional areas designed for this facility include command and control, mission training, radio and vehicle maintenance, weapons storage, planning and administrative support, communications, military testing, and storage, as well as a conference area, classrooms, and a break room. In addition, cold storage sheds to house approximately 24 high-mobility multipurpose wheeled vehicles and 14 M-101 aircraft trailers were designed.

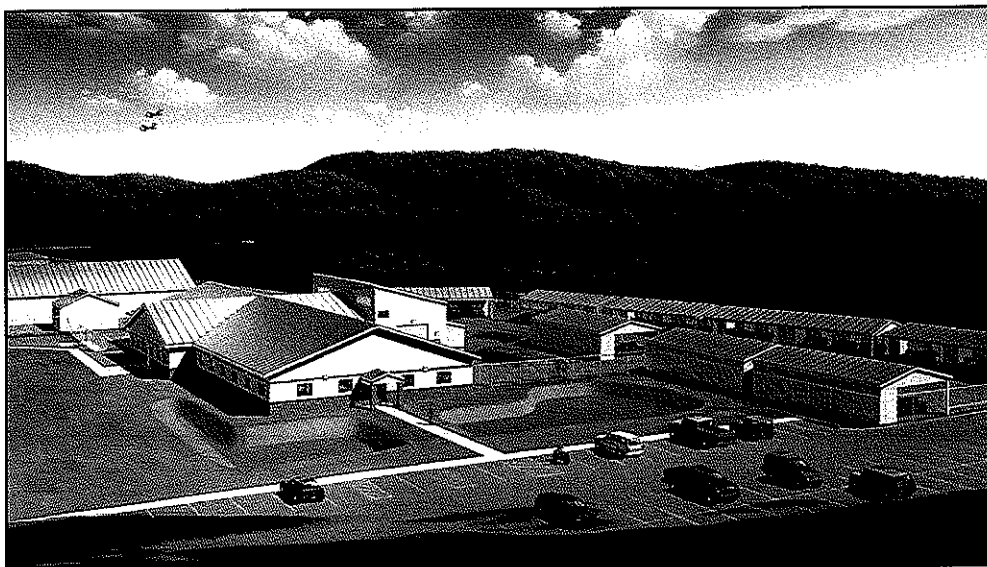
Features

- 16,600-square-foot training facility
- 2,500-square-foot addition to an existing vehicle maintenance facility

- 15,000-square-foot free-standing vehicle storage structures
- Registration with U.S. Green Building Council for Leadership in Energy and Environmental Design (LEED) Silver certification
- 34,100-square-foot project area

Services Provided

- Architectural design
- Structural engineering
- Civil engineering
- Geotechnical engineering
- Mechanical engineering
- Electrical engineering
- Environmental engineering





PAANG COMMUNICATIONS ELECTRONICS TRAINING COMPLEX

Client: U.S. Property and Fiscal Office for
Pennsylvania

Location: State College, Pennsylvania

Construction Cost: \$8.5 Million

Gannett Fleming provided complete architectural/engineering services for a three-building communications electronics training complex for the Pennsylvania Air National Guard (PAANG) at the University Park Airport. The project consisted of the site development of 25 acres of roadways, utility infrastructure, parking, technical training site, and the design of three buildings to provide a new base of operations for two Mobile Radar Units of PAANG. Site development design included access roads, stormwater management, parking areas for 170 vehicles, tech site areas, and outdoor storage for equipment.

Building/Features

- A 22,000-square-foot Operations and Training Building
- Administrative offices
- Logistics

- Intelligence
- Operations classrooms
- Radar and communications maintenance
- Dining room and kitchen
- A 13,000-square-foot Vehicle Maintenance and AGE Shop
- Office area
- Classrooms
- Locker rooms
- Lube, paint, and refueler maintenance bays
- Tool storage
- A 10,000-square-foot Base Supply and Mobility
- Storage Warehouse
- Administration
- Shipping and receiving
- Clothing and mobility storage
- Warehouse
- Locker rooms



**PENNSYLVANIA AIR NATIONAL GUARD
193RD REGIONAL SUPPORT GROUP TROOP
TRAINING QUARTERS**

Client: U.S. Property and Fiscal Office for
Pennsylvania

Location: Annville, Pennsylvania

Gannett Fleming provided complete architectural, structural, civil, geotechnical, environmental, mechanical, and electrical engineering design, and bid-phase services for a 17,497-square-foot dormitory project for the Pennsylvania Air National Guard's 193rd Regional Support Group at Fort Indiantown Gap in Annville.

Our firm designed a new, 84-bed dormitory facility with ancillary common spaces, to support the functions at the training site. The structure replaces the existing bachelor enlisted quarters and bachelor officer quarters facilities on the base. In addition, our firm was retained to provide construction-phase services.

The dormitory facility was designed to achieve a Silver rating, according to the Leadership in Energy and Environmental Design (LEED®) design criteria, and to comply with the Energy Policy Act of 2005. The project design also meets relevant requirements of the Anti-Terrorism Force Protection standards.

Services Provided

- Site upgrades
 - parking, sidewalks, and landscaping
 - utilities extended from adjacent campus
- Billets
 - one-person rooms (includes Americans with Disabilities Act (ADA)-compliant rooms), two-person rooms, and four-person rooms
 - bathrooms (includes ADA-compliant bathrooms)
- Common spaces
 - dayroom, services office, unisex restroom, fitness room, and vending/ice/laundry room
- Support spaces
 - mechanical, electrical, communications, janitorial and elevator equipment rooms
 - elevator

Sustainable Features

- High-efficiency heating, ventilation, and air-conditioning (HVAC) systems
 - air-side energy recovery systems, dedicated outside air units with high-efficiency filtration, condensing boilers, and water heaters
- High-efficiency water source heat pumps
 - individual room control and occupancy sensors for automatic temperature set back
- Water conservation
 - low-flow shower heads and dual-flush toilets
- Renewable energy generation to reduce peak energy demand
 - roof-mounted photovoltaic panels





**PENNSYLVANIA AIR NATIONAL GUARD
201ST RED HORSE SQUADRON
TRAINING FACILITY**

Client: U.S. Property and Fiscal Office for Pennsylvania

Location: Fort Indiantown Gap, Pennsylvania

Construction Cost: \$5.1 Million

Gannett Fleming is providing complete architectural, structural, civil, geotechnical, mechanical, and electrical engineering design services for a new 22,500-square-foot operations and training facility for the Pennsylvania Air National Guard's 201st Red Horse Squadron. The facility includes operations, engineering, base operating support, readiness, arms vault, combat arms training, logistics, medical, security contracting functions, training classrooms, administration, storage, planning, recruiting, conference, testing laboratory, medical, restroom/locker room, and communications areas. The five-acre site has a secure perimeter and is located at Fort Indiantown Gap in Area-1, Block 500.

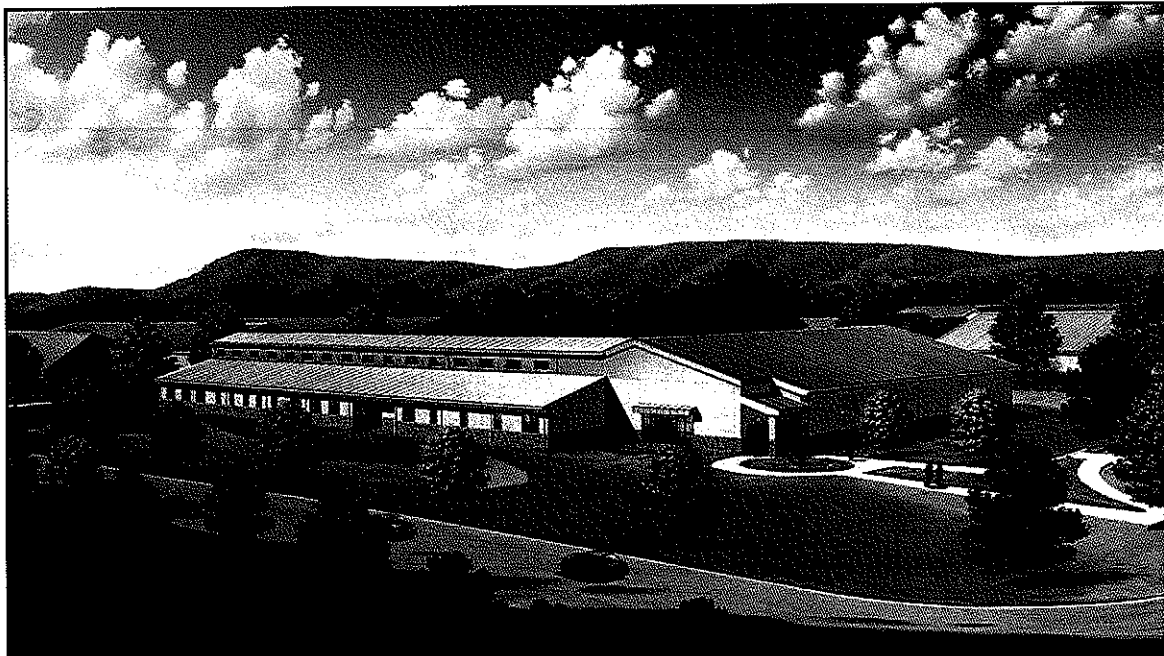
- A unit deployment control center
- A combat arms training area
- Sustainable design features

Services Provided

- Architectural design
- Structural design
- Civil engineering
- Geotechnical engineering
- Mechanical engineering
- Electrical engineering
- Security

Project Feature

- A 22,500-square-foot training facility
- Site development for a five-acre site





**PENNSYLVANIA AIR NATIONAL GUARD
112TH AIR OPERATIONS SQUADRON
TRAINING FACILITY**

Client: U.S. Property and Fiscal Office for Pennsylvania

Location: State College, Pennsylvania

Construction Cost: \$4.77 Million

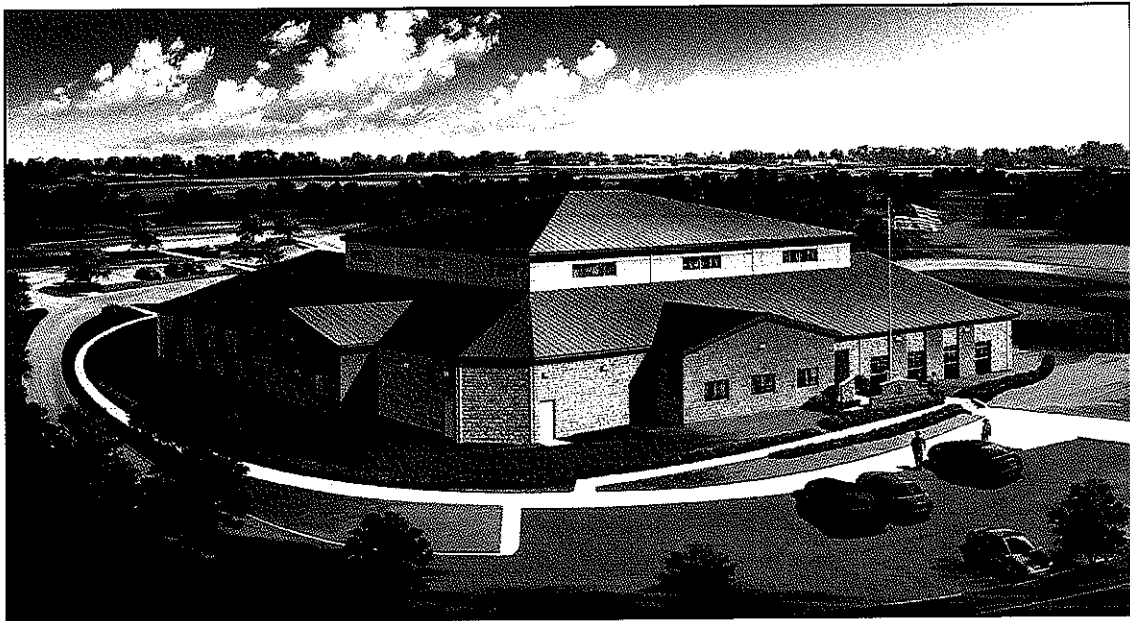
Gannett Fleming provided complete architectural, structural, civil, geotechnical, mechanical, and electrical engineering design services for a new training facility for the Pennsylvania Air National Guard's 112th Air Operations Squadron. The project involved a new 22,500-square-foot facility. The facility includes an operations training floor; a battle laboratory; a secure intelligence training room; classrooms; an auditorium; conference, communications, maintenance, military testing, arms vault, warehouse, and storage areas; a gymnasium; and a break room. The 6.3-acre site has a secure perimeter and is located on the University Park Airport.

Project Features

- A 22,500-square-foot training facility
- Site development for a 6.3-acre site
- Sustainable design features
- A 1,900-square-foot, 20-foot-high battle laboratory

Services Provided

- Architectural design
- Structural engineering
- Civil engineering
- Geotechnical engineering
- Mechanical engineering
- Electrical engineering



AIR TRAFFIC CONTROL TRAINING COMPLEX**Client:** U.S. Property and Fiscal Office for Pennsylvania**Location:** Johnstown, Pennsylvania**Construction Cost:** \$5 Million

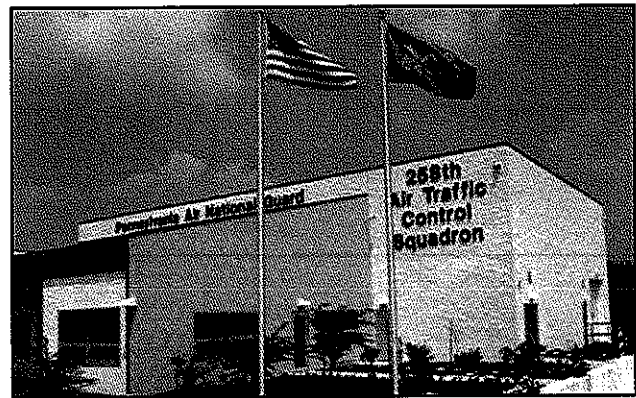
Gannett Fleming provided design and construction-phase services for an air traffic control training complex for the Pennsylvania Air National Guard at the Johnstown Cambria County Airport, Johnstown, Pennsylvania. The complex includes a composite support facility, mobile radar facilities, and a mobile control tower. Tasks for the project consisted of site development of ten acres of roadways, utility infrastructure, parking, mobile radar and tower sites, and design of a new training facility for the 258th Air Traffic Control Squadron. The composite support facility has a total gross area of 20,350 square feet and houses operations functions, air traffic control functions, maintenance shops, and warehouse and supply areas.

Services Provided

- Civil engineering
- Geotechnical engineering
- Architectural design
- Preparation of construction documents

Project Features

- Offices and support areas
- Classroom and training room
- SIPERNET room
- Composite power production and refrigeration shop
- Composite communications electronics maintenance shop, battery room, and hazmat room





PAANG INDEFINITE DELIVERY/ INDEFINITE QUANTITY CONTRACT

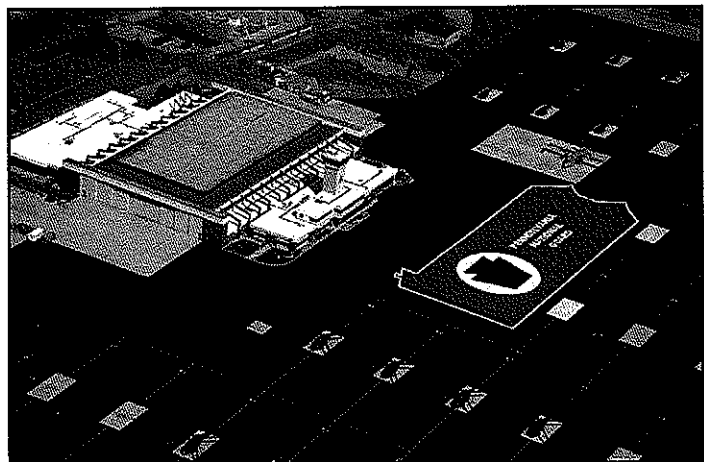
Client: U.S. Property and Fiscal Office for
Pennsylvania

Location: Fort Indiantown Gap, Annville,
Pennsylvania

Gannett Fleming provided architectural, civil, geotechnical, and environmental engineering design and related services for a five-year, open-end contract for a variety of projects at Fort Indiantown Gap.

Facilities/Projects Designed

- Building 19-101: Replacement of a 45,500-square-foot roof
- Building 8-1: Renovation of existing 8,340-square-foot bachelor officers' quarters to 14 one-man rooms, offices, polygraph training rooms, and classrooms for the Northeast Counter drug Training Center (NCTC)
- Building 4-114: Renovation of an existing block wall mess hall into a 9,500-square-foot training site medical clinic
- Building 19-109: Renovation to facilitate the enlargement of an existing aviation medical clinic
- Buildings 19-108 and 19-109: Fascia replacement
- Raid House Facility: Renovation of an existing 8,340-square-foot, two-story wooden building into a state-of-the-art raid house for law enforcement training
- NCTC Distance Learning Center: New 4,800-square-foot clear-span metal building with offices, classrooms, and support areas for the NCTC to use as a Distance Learning Center
- Muir Airfield Pavement Projects: Repairs and rehabilitation of airfield aprons, including 15,500 square yards of resurfacing and the rehabilitation of sequestered airfield apron areas. Also designed helicopter landing pads and associated paving
- EST 2000 Simulator Building: New 7,200-square-foot clear-span metal building to house the EST 2000 Simulator
- SIMNET Simulator Building: New 6,000-square-foot clear-span metal building to house the SIMNET Simulator
- Parking Lot Projects: 50 personal-owned vehicle (POV) parking lot and associated site improvements for Building 8-80, and parking and site infrastructure for the Military Education Facility and Buildings 8-71 and 8-73. The project included parking for 216 POVs, access road, signage, walks, landscaping, utilities, and repaving existing roads
- Medina Ridge Tank Trail: One-mile-long by 35-foot-wide aggregate-covered trail for tracked and wheeled vehicles to gain access to the Medina Ridge training area

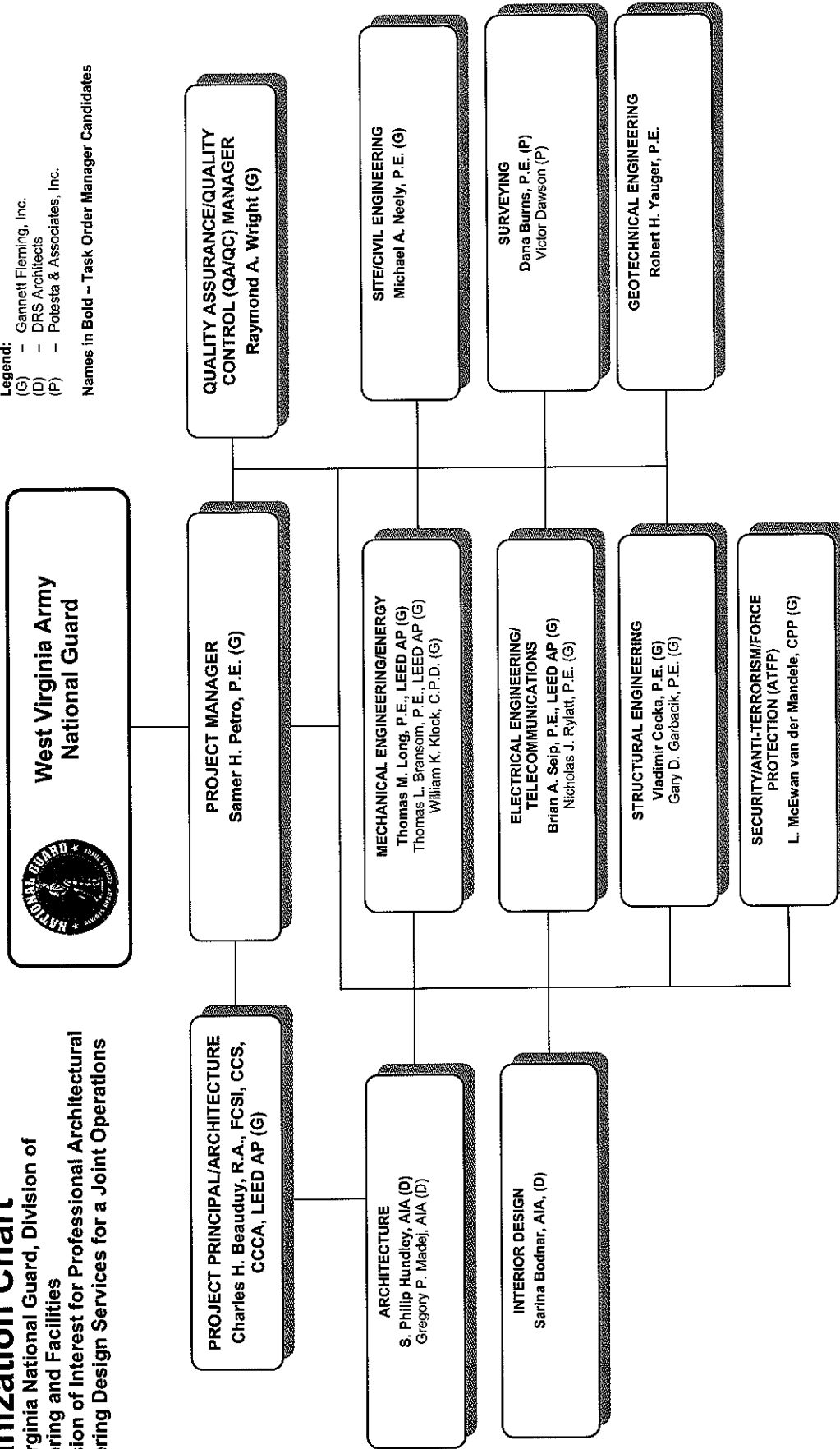


Organization Chart

West Virginia National Guard, Division of
 Engineering and Facilities
 Expression of Interest for Professional Architectural
 Engineering Design Services for a Joint Operations
 Facility

Legend:
 (G) - Gannett Fleming, Inc.
 (D) - DRS Architects
 (P) - Potesta & Associates, Inc.

Names in Bold - Task Order Manager Candidates



PROJECT ASSIGNMENT: Project Manager/Structural

YEARS EXPERIENCE WITH FIRM: 6

YEARS EXPERIENCE WITH OTHER FIRMS: 11

EDUCATION:

B.S.C.E., Civil Engineering, West Virginia University, 1987

M.S.C.E., Civil Engineering, West Virginia University, 1993

PROFESSIONAL REGISTRATION(S):

P.E.: Ohio - No. PE.66132 (2001)

West Virginia - No. 015710 (2003)

Kentucky - No. 24682 (2006)

CURRENT RESPONSIBILITIES:

Manager WV Operations / Senior Project Manager - responsible for supervising, directing, and performing structural design activities, as well as the complete development of plans and specifications for new construction and renovation of existing facilities, bridges, buildings, and civil infrastructure. Experience also includes coordination of large multi-discipline projects involving architectural/interior design, site/civil, structural, MEP, construction administration, and other services. Also responsible for preparing budget information, scheduling project related submissions, and preparing proposals with man-hour estimates.

SUMMARY OF EXPERIENCE:

MPRT Facilities Master Plan, Morgantown, WV, *West Virginia University*, Project Director responsible for overall project execution and QA review of critical tasks including the structural inspection of the MPRT stations and maintenance facilities (seven structures total). The project involved creating a facilities master plan for an automated people mover known as the Morgantown Personal Rapid Transit System (MPRT) which operates between the various campuses of West Virginia University. The master plan also provided an assessment of existing facilities conditions, options for future improvements, public involvement and financial planning. Responsibilities also included significant coordination with various disciplines (site/civil, structural, electrical, transit, planning) and stakeholders.

Evansdale Campus Bridge and Garage, Morgantown, WV, *West Virginia University (WVU)*. Project Manager responsible for the development of conceptual renderings for a pedestrian bridge over U.S. Route 19 on the WVU Evansdale campus. These early concepts included cable-stayed and arch truss alternatives. The project also included a proposed multi-level parking facility accommodating 1,017 vehicles.

Automated Train Guideway, Phoenix, AZ, *City of Phoenix Aviation Department*. Senior Structural Engineer responsible for the design and plan development for a portion of an elevated automated train with complex geometry. The mainline structure consists of multiple steel box girders (tub girders) and multiple concrete cast-in-place, post-tensioned box girders. Responsible for the design of the spur lines consisting of multiple three-span, highly curved, continuous single steel box girder (tub girder) superstructures with a 250-foot radius of curvature. Principal Reviewer and Senior Structural Engineer responsible for design verification of the superstructure and substructure units of the cast-in-place, curved, post-tensioned box girders.

North Shore Connector, Pittsburgh, PA, *Port Authority of Allegheny County*. Structural Project Engineer responsible for the design of a portion of a 16-span aerial structure consisting of structural steel, trapezoidal plate girders (tub girders) spanning an average of 130 feet per span. The connector is composed of simple, two-span, and three-span continuous structures. The bridge carries light rail transit vehicles and also supports a double cross-over and station platform.

Water Treatment Plant Design, New Bethlehem, PA, Redbank Valley Municipal Authority. Senior Structural Engineer responsible for the structural design, including mat foundations, concrete walls, structural slabs, steel framing, and the checking of structural drawings of a 0.80 mgd surface-water treatment plant and 0.4 Mgal water-storage tank. Equipment for the plant includes a vertical turbine pump, chemical feed equipment, sedimentation, filtration, sludge pumping, sludge holding tanks, and sludge dewatering.

Headsville Bridge Replacement, Mineral County, WV, West Virginia Department of Transportation, Division of Highways. Project Manager and Senior Structural Engineer responsible for designing a bridge replacement. Work includes development of structure geometry; type, size, and location studies; foundation submissions; final design submission; and construction cost estimates. The Headsville Bridge consists of four horizontally curved steel plate girders and the substructure units consist of semi-integral abutments supported by steel piles and two single column post-tensioned integral piers with solid circular column shafts.

Dolls Run Bridge Replacement, Monongalia County, WV, West Virginia Department of Transportation, Division of Highways. Senior Structural Engineer responsible for designing a bridge replacement. Work includes development of structure geometry; type, size, and location studies; foundation submissions; final design submission; and construction cost estimates. The project consists of replacing the existing bridge with a new structure at its existing location using a temporary bridge for maintaining traffic. The structure is on a 30-degree skew and tangent alignment. The superstructure consists of a single span steel structure with integral abutment.

Morgan Run Bridge, Monongalia County, WV, West Virginia Department of Transportation, Division of Highways. Senior Structural Engineer responsible for pier redesign as a VE to Mosites Construction Company.

16th Street Bridge, Phoenix, AZ, City of Phoenix Street Transportation Department. Senior Structural Engineer responsible for retrofit of a two span concrete slab bridge using carbon fiber reinforced polymer (CFRP) composite materials. The project also included preparing bridge repair plans, calculating load ratings, and load testing using strain gages to verify effectiveness of FRP repair.

Charles H. Beauduy, R.A., FCSI, CCS, CCCA, LEED AP

Resume

PROJECT ASSIGNMENT: Architectural / Assistant P.M.-Design

YEARS EXPERIENCE WITH FIRM: 28

YEARS EXPERIENCE WITH OTHER FIRMS: 3

EDUCATION:

B.S., Architecture, University of Oklahoma, 1979
Leadership Harrisburg Area, 1999

PROFESSIONAL REGISTRATION(S):

R.A.: Pennsylvania - No. RA011066X (1988)

West Virginia - No. 4099 (2008)

Construction Specifications Institute (CSI):

CCS: Certified Construction Specifier (1984)

CCCA: Certified Construction Contract Administrator (2003)

USGBC - LEED 2.2 Accredited Professional (2009)

SUMMARY OF EXPERIENCE:

Continuing Services Agreement, Multiple-Award Task-Order Contract, Kabul, Afghanistan, U.S. Army Corps of Engineers, Afghanistan Engineer District. Project Manager as a subconsultant responsible for complete architectural, structural, civil, geotechnical, environmental, mechanical, and electrical engineering design and construction-phase services on a design-build project in support of U.S. military and Afghan security forces in Afghanistan. Completed the design for a new 33-building National Logistics Compound for the Afghan National Police. The work included complete site design, road and parking design, utility design, and infrastructure improvements. Facilities included two vehicle maintenance facilities, vehicle refueling point building, three administration buildings, three warehouses, generator building, laundry building, medical clinic, training building, gym, three enlisted/officer quarters buildings, dining facility, ammunition bunker, facilities maintenance building, small arms repair and range building, communications maintenance building, fire station, well pump house, entry control point reception building, and two guard facilities.

Troop Training Quarters, Fort Indiantown Gap, PA, U.S. Property and Fiscal Office for Pennsylvania. Project Manager responsible for complete architectural, structural, civil, geotechnical, environmental, mechanical, and electrical engineering design and construction-phase services for a new troop dormitory facility on an existing Air National Guard base. The project is a two-story, 40-room, 84-bed, 17,500-square-foot facility complete with Americans with Disabilities Act (ADA)-accessible rooms, elevator, day room, fitness room, and office space. The project also included utility extensions, parking lot, and stormwater management. Leadership in Energy and Environmental Design (LEED) strategies, such as high-efficiency heating, ventilation, and air-conditioning (HVAC) systems; water-conserving fixtures; roof-mounted photovoltaics; enhanced thermal envelope; paving to reduce heat island; vegetation restoration; and native plantings, were used to aid in obtaining LEED objectives. Meadow plantings, an outdoor seating plaza overlooking a detention basin, and a 100-foot-long pedestrian bridge over an existing creek were also used to enhance the retreat concept. The design is registered with the U.S. Green Building Council and has a LEED Gold status as its design and construction goal. The project also met the Energy Policy Act of 2005 and the design standards of the Anti-Terrorism/Force Protection criteria (UFC 4-010) for military facilities.

Fuel Cell Hangar Renovation, Middletown, PA, U.S. Property and Fiscal Office for Pennsylvania. Project Manager responsible for the complete architectural, structural, civil, geotechnical, environmental, mechanical, and electrical engineering design and construction-phase services for alterations and additions to a 19,700-square-foot aircraft hangar for the 193rd Special Operations Wing of the Pennsylvania Air National Guard. The project included interior and exterior renovation work to the

existing hangar, including painting and finish upgrades; renovation and replacements to its mechanical, electrical, and plumbing systems; reroofing; reconfiguration of locker and office spaces; addition to the house fire pump system and tool rooms; water storage tanks; hangar door refurbishment; installation of a high-expansion foam fire-suppression system in the hangar; and a fire alarm and fire-suppression system throughout the remainder of the facility.

Bed-Down Facility, 148th Air Support Operation Squadron, Fort Indiantown Gap, PA, U.S. Property and Fiscal Office for Pennsylvania. Project Manager responsible for the complete architectural, structural, civil, geotechnical, environmental, mechanical, and electrical engineering design and construction-phase services for a 34,100-square-foot operations and training bed-down facility for the Pennsylvania Air National Guard. The functional areas designed for the facility include command and control, mission training, radio and vehicle maintenance, weapons storage, planning and administrative support, communications, military testing, and storage, as well as a conference area, classrooms, and a break room. In addition, cold-storage sheds to house approximately 24 high-mobility multipurpose wheeled vehicles and 14 M-101 aircraft trailers were designed. Features include a new 16,600-square-foot training facility, a 2,500-square-foot addition to an existing vehicle maintenance facility, 15,000-square-foot free-standing vehicle storage structures, utility extensions, access drive, parking lot, stormwater management, and other site improvements. Leadership in Energy and Environmental Design (LEED) strategies, such as high-efficiency heating, ventilation, and air-conditioning (HVAC) systems; water-conserving fixtures; enhanced thermal envelope; recycled and regional materials; and native plantings, were used to aid in obtaining LEED objectives. The design is registered with the U.S. Green Building Council and has a LEED Silver status as its design and construction goal. The project also met the Environmental Policy Act of 2005 and the design standards of the Anti-Terrorism/Force Protection criteria (UFC 4-010) for military facilities.

Operations and Training Facility, 201st Red Horse Squadron, Fort Indiantown Gap, PA, U.S. Property and Fiscal Office for Pennsylvania. Project Manager responsible for the complete architectural, structural, civil, geotechnical, environmental, mechanical, and electrical engineering design and construction-phase services for a 22,500-square-foot operations and training facility. The facility includes operations, engineering, logistics, and base operations support; mobility bag storage; arms vault; and a combat arms training room using a simulated combat system. The operations and training functional areas include training, administration, storage, planning, recruiting, conference, material testing laboratory, medical, restroom and locker room, and communications area. The project incorporated many elements of sustainable design and met the design standards of the Anti-Terrorism/Force Protection criteria (UFC 4-010) for military facilities.

Air Operations Squadron Training Facility, 112th Air Operations Squadron, State College, PA, U.S. Property and Fiscal Office for Pennsylvania. Project Manager responsible for the complete architectural, structural, civil, geotechnical, environmental, mechanical, and electrical engineering design and construction-phase services for a 22,500-square-foot operations and training facility for the Pennsylvania Air National Guard. The facility includes an operations training floor for simulated theater battle management; a Secure Compartmented Information Facility incorporating Secure Internet Protocol Router and Joint Worldwide Intelligence Communications System networks; classrooms and a 139-seat auditorium with integrated sound and projection systems; conference, communications, maintenance, military testing, warehouse, weapons vault, and mobility bag storage areas; and a gymnasium and break room. The project included site development for a 6.3-acre site, including roads, parking, stormwater, utilities, infrastructure, and other site improvements. The project incorporated many elements of sustainable design and met the design standards of the Anti-Terrorism/Force Protection criteria (UFC 4-010) for military facilities.

PROJECT ASSIGNMENT: QA/QC

YEARS EXPERIENCE WITH FIRM: 1

YEARS EXPERIENCE WITH OTHER FIRMS: 26

EDUCATION:

B.S., Engineering Technology, New Jersey Institute of Technology, 1984

Healthcare Construction Certificate, American Society of Healthcare Engineers, 2007

Construction Quality Management for Contractors, U.S. Army Corps of Engineers, 2010, Exp.
12/01/2015

CURRENT RESPONSIBILITIES:

Facilities Construction Manager responsible for providing preconstruction through commissioning services, including scheduling, cost estimating, budgeting, document reviews, and coordination among project stakeholders for facilities and other construction projects. In addition, assists in business development for higher education, healthcare, and commercial projects; prepares proposals; and manages projects from the proposal phase to the completion of design. Coordinates the various aspects of contract administration, bidding, and construction-phase services, including periodic field inspections, from the award of contracts to project closeouts. Project duties also involve preparing monthly progress reports and processing change orders and applications for payment.

Gettysburg Campus Expansion, Harrisburg, PA, Harrisburg Area Community College. Senior Project Manager responsible for managing the construction of a regional campus expansion from bid phase through completion and turnover. The project included the expansion of the campus in portions of a former shopping center and renovations and reconfiguration of the existing spaces into a new student commons and library area, new classrooms, and multi-use space. Exterior improvements included a complete façade upgrade, site improvements, and parking lot repair and overlay.

Emergency Department Expansion, Hershey, PA, Penn State Milton S. Hershey Medical Center. Senior Project Manager responsible for representing the owner for the oversight of an emergency department expansion featuring a pioneering process in emergency room treatment called physician-directed queuing (PDQ). PDQ eliminates the traditional emergency waiting room to make the process of care more efficient for both patients and providers. The project required collaboration with the team constructing the adjacent Cancer Institute, a project which included constructing the shell space to accommodate the expansion. The collaboration required a high level of coordination between teams and was further complicated by the need to keep the area's largest trauma center operating uninterrupted 24/7. Responsibilities also included preparing a request for proposal to solicit commissioning services for mechanical systems, as well as awarding and managing the contract.

Midtown Campus Expansion, Harrisburg, PA, Harrisburg Area Community College. Senior Project Manager for the following:

- **Campus Square Administration Offices and Green Center.** Responsible for the fit-out of a new shell space to accommodate central administrative offices for the college and a new "green center" for use by the college as well as other entities. The building achieved LEED Gold certification.

Distribution Facility, Sadsbury, PA, Electronics Boutique. Senior Project Manager responsible for managing the design and construction of a new 300,000-square-foot distribution facility for the leading electronic game distributor in the country. The facility was delivered using the design-build approach and integrated state-of-the-art racking, picking, and conveyance systems with the overall design, which featured high-lumen warehouse lighting; direct-fired, 100 percent outside air units; and concrete floors using the latest American Concrete Institute methods for flatness and performance.



ARCHITECTS

S. PHILIP HUNDLEY, AIA

Principal

REGISTRATION

Pennsylvania, Ohio, West Virginia and seven other states

EDUCATION

B. Architecture/1966/Architecture

PROFESSIONAL AFFILIATIONS

American Institute of Architects
Pennsylvania Society of Architects
Certified, National Council of Architectural
Registration Boards
Construction Specifications Institute
Councilman, Sewickley Heights
Historical Architectural Review Board,
Sewickley Heights
Planning Commission, Sewickley Heights
Western Pennsylvania Conservancy
National Historical Trust

Mr. Hundley is a principal of DRS and has extensive experience as a Principal-In-Charge/Project Manager/Project Designer on a wide range of major commissions undertaken by the firm. These include major projects for the private sector, institutional, the Federal Government and corporations in his forty year career with the firm. During the last fifteen years, he has been responsible for the design of ten Reserve Center/Readiness Center/OMS/AMSA projects. In addition, Mr. Hundley has been involved in the site planning, programming and design of numerous administration/maintenance buildings. Projects for which Mr. Hundley has been responsible have received numerous awards for design and technical excellence. Some of Mr. Hundley's present and past experience includes:

Indefinite Delivery Contract, Port Authority of Allegheny County, Pittsburgh, PA Project Manager for the IDC. Projects included East/South Busway Rehab Study; East Busway Final Design' Rehab of Collier Garage; Security Systems for Collier, Har-mar, Ross and East Liberty Division Garages; Renovation to the Edgewood Train Station; Renovation of pedestrian Bridge on East Busway; Miller Print Building Cost Evaluation; Customer Service Relocation to Steel Plaza; Paint Booth Renovations at the Manchester Garage and wash bay renovations at the South Hills Garage.

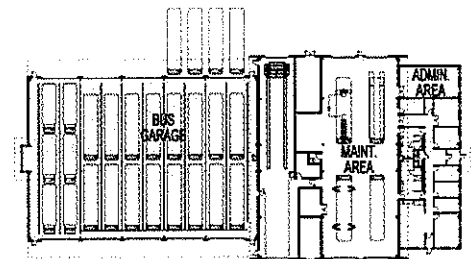
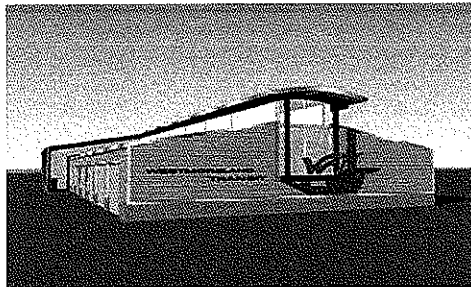
Westmoreland County Transit Authority, Bus Maintenance Garage – Architectural Manager for a 30,000 SF multi-purpose bus maintenance facility. Spaces include administrative, maintenance shop (four bays), indoor fueling, automated bus washing bay, climate-controlled vehicle storage and associated support spaces.

West Mifflin & Ross Division Garage Renovations, Port Authority of Allegheny County, PA Served as Project Manager for the renovations of the West Mifflin & Ross Division Garages. The 250,000 SF, \$22 M project involved a workaround plan which maintained the operation of each garage 24 hours a day without interruption of service during construction. Both garages contain full-service maintenance bays, lifts, pits, chassis wash, body shops with paint booths, overhead crane fueling islands, bus wash lanes, parking and administrative space.

U. S. Army Reserve Aviation Facility, Johnstown, Pennsylvania The \$22 M facilities include a training building and hangar facility. The Aviation Facility is comprised of administrative offices, maintenance shops, educational facilities, storage areas and five work bays. DRS was responsible for the site planning, design of all facilities, along with the interior design package.

USAR Center/OMS, Grantsville, West Virginia—Completed the USAR Center/OMS and includes administrative spaces, educational facilities, unit and individual storage, assembly area, work bays and support space. DRS was also responsible for the site delineation study, engineering feasibility study and interior design package for this project.

Three New USAR Centers/OMS, Morgantown, Elkins, Kingwood, West Virginia The facilities include administrative spaces, educational facilities, unit and individual storage, assembly area, work bays and support spaces. DRS was responsible for designing the three USAR Centers/OMS' along with the interior design packages.





ARCHITECTS

GREGORY P. MADEJ, AIA

Principal

NAME OF FIRM

DRS Architects

REGISTRATION

Pennsylvania, West Virginia and Ohio

EDUCATION

B. Architecture/1971/University of Notre Dame

PROFESSIONAL AFFILIATIONS

LEED Accredited Professional
American Institute of Architects
Pennsylvania Society of Architects
Certified, National Council of Architectural Registration Boards
Past Board Member, Community College of Allegheny County, Education Foundation

SPECIFIC EXPERIENCE AND QUALIFICATIONS RELEVANT TO THIS PROJECT

Mr. Madej has extensive has extensive experience in all areas of design and construction and has served as Project Manager/Quality Control and has been responsible for numerous projects in more than 30 years with DRS. His career has focused on governmental, educational and healthcare facilities. In addition to his project responsibilities, Mr. Madej serves as a coordinator of the Firm's construction document standards. Some of his relevant experience as Project Manager includes:

\$19M Stryker Combat Brigade Readiness Center & Organizational Maintenance Shop, Cambridge Springs, Pennsylvania.

The 65,000 SF Readiness Center supports 438 reservists and includes locker rooms, unit storage, arms vault and administrative offices there is a medical clinic, fitness room, assembly hall, full service kitchen, classrooms, break areas and recruitment center. The 20,000 SF maintenance facility services the vehicles and equipment supported by this facility and includes six maintenance workbays two of which will be serviced by a 15-ton overhead crane. Other facilities include fuel storage and dispensing system, controlled waste handling facility plus administrative, personnel, storage and work areas.

The PAANG Organizational Maintenance Shop in Johnstown, Pennsylvania

was designed to provide adequate organizational maintenance support for vehicles and equipment supported by this Shop. The facility consists of eight (8) maintenance workbays of which two (2) bays serviced by a 30-ton overhead crane, one (1) warm-up bay plus administrative, personnel and work areas.

24,000 SF Ford City, Pennsylvania, Armory for the PA Army National Guard. The Armory includes common spaces, administrative spaces, educational facilities, assembly hall, food preparation area and maintenance training area.

West Mifflin and Ross Division Garages, Allegheny County, Pennsylvania.

Mr. Madej reviewed the construction documents for the renovations and additions of 250,000 SF of space for two Bus Maintenance Garages for the Port Authority of Allegheny County in Pittsburgh, Pennsylvania. Facilities include 25 full service maintenance bays with hydraulic lifts, inspection pits, chassis wash, tire change area and body shops with paint booths. The project was phased to maintain operation during construction.

Drug Enforcement Administration, Pittsburgh, Pennsylvania—

The project was completed via design/build method. The two-story, 48,000 SF DEA Building has 24,000 SF of office space on the upper floor with the ground floor serving as an entrance lobby and garage. The building obtained a LEED certification in 2007.





ARCHITECTS

SARINA BODNAR, AIA

Architect

NAME OF FIRM

DRS Architects

REGISTRATION

Pennsylvania

EDUCATION

B. Architecture/1978/The Pennsylvania State University

PROFESSIONAL AFFILIATIONS

American Institute of Architects
Pennsylvania Society of Architects

SPECIFIC EXPERIENCE AND QUALIFICATIONS RELEVANT TO THIS PROJECT

Ms. Bodnar has extensive experience in many facets of architecture, including the design and detailing of municipal structures. In addition to her project management capabilities, Ms. Bodnar has successfully followed many projects through the construction administration phase, with responsibility for shop drawing approval, site visitation, project meetings and payment requisitions. She is proficient in the use of CADD. As Project Architect she will be responsible for coordination of all consultants. Relevant experience as Project Architect includes:

\$19M Stryker Combat Brigade Readiness Center & Organizational Maintenance Shop in Cambridge Springs, Pennsylvania.

Project Architect for this facility. Both buildings total 85,000 SF and support 438 reservists. Spaces include locker rooms, arms vault, administrative, medical clinic, full service kitchen, classrooms, assembly hall, recruitment center and the Maintenance shop contains six bays two of which are serviced by a 15-ton crane.

Operational Maintenance Shop for the Pennsylvania Army National Guard at Johnstown, Pennsylvania.

Project Architect for the 23,000 SF Facility includes 8 maintenance bays, a wash platform, fuel storage and dispensing system, flammable storage building, controlled waste handling facility, personnel support areas, office areas and various equipment/storage areas. This \$4.69 M project was completed in January 2005.

Westmoreland County Transit Authority, Bus Maintenance Garage

– Project Architect for a 30,000 SF multi-purpose bus maintenance facility. Spaces include administrative, maintenance shop (four bays), indoor fueling, automated bus washing bay, climate-controlled vehicle storage and associated support spaces.

The U. S. Army Reserve Aviation Facility at Johnstown, Pennsylvania,

completed in the Spring of 1997. This \$22 M Facility houses the PAARNG and the U. S. Army Reserves. As Project Architect, she was responsible for the preparation of the construction documents for the 15,000 SF Training Building and the 92,784 SF Hangar Facility. She was responsible for coordinating all engineering disciplines.

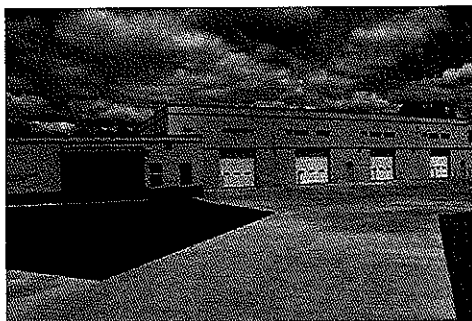
100-Member, \$4.5M Grantsville, West Virginia, USAR Center/Organization Maintenance Shop for the U.S. Army Reserve. The OMS facility houses work bays, wash bays, shop office, tools/parts storage and flammable storage. Served as Project Architect.

\$11.7 M renovations/additions to South Hills Health System Jefferson Hospital, Pittsburgh, Pennsylvania.

Served as Project Architect for this 100,000 SF Multiservice Building that contains offices, laboratories, meeting rooms and a 17,000 SF warehouse/receiving area, a vehicle maintenance garage and an ambulance garage.

150,000 SF West Mifflin Division Garage Renovations/Additions for the Port Authority of Allegheny County, Pennsylvania.

Facilities contain 15 full service maintenance bays with hydraulic lifts, inspection pits, chassis wash, tire changing area and body shops with a paint booth. An important aspect of this project was to develop a workaround plan which maintained the operation of the garage 24 hours a day without interruption of service during the construction. Served as Quality Control.



PROJECT ASSIGNMENT: Mechanical

YEARS EXPERIENCE WITH FIRM: 17

YEARS EXPERIENCE WITH OTHER FIRMS: 24

EDUCATION:

B.S., Mechanical Engineering, Drexel University, 1969

80-Hour Gannett Fleming/The Pennsylvania State University Collaborative Project Management Certificate Program, 2001

Continuing training courses and seminars in Project Management, Fire Protection Systems, Indoor Air Quality, Building Control and Automation Systems, Risk Management, and Business Management Practices

PROFESSIONAL REGISTRATION(S):

P.E.: Pennsylvania - No. PE021700E (1974)

USGBC - LEED 2.0 Accredited Professional (2002)

SUMMARY OF EXPERIENCE:

Stryker Brigade, Lebanon, PA, Pennsylvania Army National Guard. Project Manager responsible for the final design of building HVAC and plumbing systems in a National Guard facility, consisting of renovations to an existing armory to provide a new readiness center. Multiple and redundant mechanical systems were required to accommodate the unit's mission-critical nature. The renovations were completed as a design-build project.

Nanoscience Laboratory, U.S. Naval Research Laboratory (NRL), Washington, DC, Naval Facilities Engineering Command, Chesapeake Division. Mechanical Discipline Manager responsible for the design and coordination of HVAC, plumbing, and fire protection systems for a research laboratory. The building incorporates Class 100 clean rooms, quiet and ultra-quiet rooms (acoustically quiet and free of electromagnetic radiation), and support spaces. Design tasks included providing air-handling and air-distribution systems for all spaces to meet user requirements; connection to the NRL's central chilled-water and steam systems; supplemental glycol chiller to meet low-temperature/humidity criteria; variable-speed pumping systems; and a building automation/control system. Plumbing system design included domestic hot- and cold-water piping, acid waste drainage, high-purity compressed-air and nitrogen systems, and provision for future laboratory vacuum and high-purity water systems. The design also incorporates a complete wet-pipe automatic sprinkler system. The project required close coordination with the design-build mechanical/electrical subcontractor.

PROJECT ASSIGNMENT: Mechanical/Energy

YEARS EXPERIENCE WITH FIRM: 12

YEARS EXPERIENCE WITH OTHER FIRMS: 1

EDUCATION:

B.S., Mechanical Engineering Technology, The Pennsylvania State University, 1997
Introduction to Sprinkler Design for Engineers, Society of Fire Protection Engineers, 2001

PROFESSIONAL REGISTRATION(S):

P.E.: Pennsylvania - No. PE060969 (2002)
USGBC - LEED 2.0 Accredited Professional (2002)

SUMMARY OF EXPERIENCE:

PaANG Command Post, Middletown, PA, U.S. Property and Fiscal Office for Pennsylvania.
Mechanical Engineer responsible for designing HVAC and plumbing system modifications for a partial building renovation to incorporate a base command post into an existing building. The HVAC systems include zoned heating and air conditioning with an energy-recovery unit for a training room and conference room that will be incorporated into the command post. The new HVAC systems will operate independently from the existing building HVAC systems.

PaANG Intelligence Vault, Middletown, PA, U.S. Property and Fiscal Office for Pennsylvania.
Mechanical Engineer responsible for designing HVAC system modifications in support of floor plan changes to an intelligence vault. Modifications included adding security screens in ductwork passing through the secure perimeter and relocating some sections of ductwork.

Mid-County Operations Facility, New Castle County, DE, Delaware Transit Corporation.
Mechanical Engineer responsible for designing HVAC and plumbing systems for a bus maintenance facility. The facility includes a bus wash and fueling building, a maintenance and administrative building, and an interior cleaning and fare-collection building. HVAC systems include single-zone air conditioning and heating systems and general ventilation systems with make-up air. Plumbing design included compressed air, drainage, an oil-water separator, bathrooms, and shower facilities.

PROJECT ASSIGNMENT: Plumbing/Fire Protection

YEARS EXPERIENCE WITH FIRM: 14

YEARS EXPERIENCE WITH OTHER FIRMS: 19

EDUCATION:

Diploma, Drafting Technology, Thompson Institute, 1978

PROFESSIONAL REGISTRATION(S):

Certified in Plumbing Design (C.P.D.): American Society of Plumbing Engineers - No. BA21375 (2000)

SUMMARY OF EXPERIENCE:

Operations and Training Facility, 201st Red Horse Squadron, Fort Indiantown Gap, PA, U.S Property and Fiscal Office for Pennsylvania. Plumbing Designer responsible for developing construction documents, specifications, and a cost estimate for a 22,500-square-foot operations and training facility. The facility includes multiple training rooms, administration, storage, locker rooms, recruiting, materials testing laboratory, and a break room. Designed domestic water, sanitary and vent, compressed air, and fire protection systems.

Lightning Force Academy (LFA), Fort Indiantown Gap, PA, U.S Property and Fiscal Office for Pennsylvania. Plumbing Designer responsible for developing construction documents, specifications, and a cost estimate for a 4,000-square-foot training and educational facility. The facility includes classrooms, communications training rooms, administration, offices, and a break room. Designed domestic water, sanitary and vent, and fire protection systems.

Regional Equipment Operators Training School (REOTS), Fort Indiantown Gap, PA, U.S Property and Fiscal Office for Pennsylvania. Plumbing Designer responsible for developing construction documents, specifications, and a cost estimate for a 4,000-square-foot training and educational facility for heavy equipment operators. The facility includes classrooms, communications training rooms, administration, offices, and a break room. Designed domestic water, sanitary and vent, and fire protection systems.

Patuxent River Naval Air Station, Building 467, Lexington, MD, Department of the Navy. Mechanical Designer responsible for drafting the mechanical and electrical systems and assisting in the mechanical design. The project consisted of removing a heating-only air-handling unit and installing an air-handling unit with chilled water and steam coils, an air-cooled chiller, circulating pumps, and complete controls. This equipment was provided for the kitchen.

Renovations to Building 1, Bays 3/5, Administrative Support Center East, New Cumberland, PA, Defense Logistics Agency, Defense Distribution Region East. Plumbing Designer responsible for field survey, design, specifications, and drafting for the renovation of two existing toilet rooms located in each bay. The project included complete removal of existing fixtures and all domestic water, sanitary, and fire protection piping. New toilet rooms were designed to meet Americans with Disabilities Act (ADA) requirements.

PROJECT ASSIGNMENT: Electrical/Telecommunications

YEARS EXPERIENCE WITH FIRM: 13

YEARS EXPERIENCE WITH OTHER FIRMS: 0

EDUCATION:

B.S., Engineering (Electrical and Mechanical Emphasis), Messiah College, 1997

University of Tennessee Certificate in Sustainable Design and Green Buildings Level 1, The University of Tennessee, 2011

PROFESSIONAL REGISTRATION(S):

P.E.: Pennsylvania - No. PE060299 (2002)

Maryland - No. 28580 (2003)

USGBC - LEED 2.0 Accredited Professional (2002)

Building Design and Construction

(2010)

Certified Energy Auditor: No. 1089 (2010)

Renewable Energy Professional: No. 22 (2010)

SUMMARY OF EXPERIENCE:

Operations and Training Facility for the 201st Red Horse Squadron of the Pennsylvania Air National Guard, Fort Indiantown Gap, Lebanon County, PA, U.S. Property and Fiscal Office for Pennsylvania. Electrical Engineer responsible for developing a design narrative, contract drawings, specifications, and a construction cost opinion for an operations and training facility, which includes a combat arms training room, a weapons vault, conference areas, classrooms, administrative offices, a communications and maintenance testing area, a warehouse, and storage areas. Responsibilities include designing the low-voltage power distribution, security/intrusion-detection, fire alarm, and telecommunications systems and coordinating the installation of a new electric utility service for the facility. The electrical system design includes connections for a portable generator for standby power, general power devices, interior lighting, structured wiring for a telecommunications system, and security and fire alarm systems. The interior lighting design will incorporate architectural fluorescent dimming for combat arms training and multimedia briefings. Occupancy sensing, scheduling, and daylighting controls will be used to reduce operating costs while improving functionality.

Lightning Force Academy, Fort Indiantown Gap, PA, U.S. Property and Fiscal Office for Pennsylvania. Electrical Engineer responsible for the development of design narratives, construction documents, construction specifications, and construction cost estimation for a 4,000-square-foot facility for the training and education of personnel responsible for the construction of temporary communications rooms under simulated field conditions. The design of the facility gives students an opportunity to build and tear down communications rooms, including pulling wires via conduits to a point outside of the facility. The design included classrooms, mock communication training rooms, administration area, a break area, and private offices. Responsibilities included designing the low-voltage power distribution, fire alarm, and raceway for a telecommunications systems and coordinating the installation of a new electric utility service for the facility. The electrical system design includes connections for a portable generator for standby power, general power devices, interior lighting, raceway for a structured wiring for a telecommunications system, and fire alarm systems.

Regional Equipment Operators Training School, Fort Indiantown Gap, PA, U.S. Property and Fiscal Office for Pennsylvania. Electrical Engineer responsible for the development of design narratives, construction documents, construction specifications, and construction cost estimation for a 4,000-square-foot schoolhouse for the training and education of heavy equipment operators tasked with repairing and constructing temporary military airfields. The design included classrooms, administration area, a break area, and private offices. Responsibilities included designing the low-voltage power distribution, fire alarm, and raceway for a telecommunications systems and coordinating the installation of a new electric utility service for the facility. The electrical system design includes connections for a portable generator for standby power, general power devices, interior lighting, raceway for a structured wiring for a telecommunications system, and fire alarm systems.

PROJECT ASSIGNMENT: Electrical

YEARS EXPERIENCE WITH FIRM: 14

YEARS EXPERIENCE WITH OTHER FIRMS: 16

EDUCATION:

B.S., Electrical Engineering, University of Pittsburgh, 1980

PROFESSIONAL REGISTRATION(S):

P.E.: Pennsylvania - No. PE041932E (1991)

SUMMARY OF EXPERIENCE:

Data Center and Office Suite Fit-Out, Harrisburg, PA, GTECH Corporation. Project Electrical Engineer responsible for the electrical renovation of an existing office suite into a data center, office area, and conference area. Work included designing a telecommunication grounding system for a new data center in accordance with applicable data center design standards. The project included a new generator and dedicated uninterruptible power supply system for the data center and control room areas, and general renovations of the existing office area by redistributing the branch circuits to accommodate the new floor plans.

Cary Street Bus Operations and Maintenance Facility, Richmond, VA, GRTC Transit System. Project Electrical Engineer responsible for assessing existing electrical systems and designing improvements for a multi-building bus operations and maintenance facility. The initial phase consisted of a limited facility condition assessment to identify electrical code violations, unsafe conditions, and deteriorated equipment. The assessment included service and distribution, process equipment, classified (hazardous) areas, and life-safety systems. Based on this assessment, designed improvements to service and distribution, process equipment, and classified (hazardous) areas to remediate areas of concern. Also responsible for construction services, including shop drawing review, periodic review of construction, and final punch-list preparation.

Building Conversion, Dauphin County, PA, Capital BlueCross. Electrical Engineer responsible for developing contract drawings and specifications for the conversion of a former AMP/Tyco light-manufacturing facility into a new 112,000-square-foot corporate facility for a health care provider. The facility includes a cafeteria and full-service kitchen, open and enclosed office spaces, a computer room, a 225 kW uninterruptible power supply, a 500 kW natural gas-fired emergency generator, and mechanical and electrical spaces. Responsibilities included electrical power distribution, uninterruptible power supply, and emergency generator.

Nanoscience Laboratory Facility, U.S. Naval Research Laboratory (NRL), Washington, DC, Naval Facilities Engineering Command, Chesapeake Division. Electrical Engineer responsible for the preparation of plans and specifications for electrical systems for a new nanoscience laboratory facility on the NRL campus. This new facility included clean rooms, quiet/ultraquiet measurement rooms, and support spaces. Electrical systems and equipment included medium-voltage switchgear and feeders, an emergency generator, an electric power distribution system, laboratory-grade conditioned power, a fire alarm system that incorporated air-sampling devices, a card-access system, copper and optical fiber telecommunications wiring, a lightning protection system, magnetic field mitigation for the quiet and ultraquiet rooms, and a lighting system that incorporated specialty lighting for the clean and quiet/ultraquiet rooms. Also provided construction support services, which included reviewing shop drawings and responding to requests for information.

Southern District Police Facility, Anne Arundel County, MD, Anne Arundel County Department of Public Works. Electrical Engineer responsible for reviewing electrical drawings for accuracy and completeness prior to issuance and supervising electrical design efforts. The project consisted of designing the electrical service and distribution system; lighting; and fire alarm, intrusion-detection, and communications systems.

PROJECT ASSIGNMENT: Structural

YEARS EXPERIENCE WITH FIRM: 21

YEARS EXPERIENCE WITH OTHER FIRMS: 0

EDUCATION:

B.S., Civil Engineering, Structural Design, South Dakota School of Mines and Technology, 1987

PROFESSIONAL REGISTRATION(S):

P.E.: Pennsylvania - No. PE045454E (1996)

SUMMARY OF EXPERIENCE:

Defense Distribution Center, Structural Inspections, New Cumberland, PA, *Defense Logistics Agency, Defense Distribution Region East, Facilities Engineering, Division Engineering Branch.* Structural Project Manager responsible for the inspection of 38 buildings on a Navy base. The buildings were divided into three phases. Phase 1 consisted of roof-framing members with rafters, girders, and columns. Phase 2 consisted of trusses, in addition to the same type of framing in Phase 1. Phase 3 consisted of steel joists, girders, columns, and members. The inspection included locating damaged, deteriorated, and split members and connections. The use of high-lift equipment for access to the roof framing was needed for up-close investigation. Performed a structural analysis of the roof framing members to determine the allowable live (snow) loads of the roof framing to determine what the roof system was capable of supporting. Designed replacement members, reinforcing details, and connections to restore the buildings to the original design values. Work also included cost estimates and construction services.

Operations and Training Facility, 201st Red Horse Squadron, Fort Indiantown Gap, PA, *U.S. Property and Fiscal Office for Pennsylvania.* Structural Project Manager responsible for the design and detailing of a 22,500-square-foot operations and training facility. The facility includes operations, engineering, logistics, and base operations support; mobility bag storage; and a combat arms training room using a simulated combat system. The operations and training functional areas include training, administration, storage, planning, recruiting, conference, material testing laboratory, medical, restroom/locker room, and communications area. The design, if registered with the U.S. Green Building Council, would attain Leadership in Energy and Environment Design (LEED)-certified status design and meet the design standards of the Anti-Terrorism/Force Protection criteria (UFC 4-010) for military facilities.

Lightning Force Academy, Fort Indiantown Gap, PA, *U.S. Property and Fiscal Office for Pennsylvania.* Structural Project Manager responsible for the design and detailing of a 4,000-square-foot facility for the training and education of personnel responsible for the construction of temporary communications rooms under simulated field conditions. The facility gives students an opportunity to build and tear down communications rooms, including pulling wires via conduits to a point outside of the facility. The design included classrooms, mock communication training rooms, an administration area, a break area, and private offices for the facility's commissioned and non-commissioned officers. The project incorporated many elements of sustainable design and met the design standards of the Anti-Terrorism/Force Protection criteria (UFC 4-010) for military facilities.

Regional Equipment Operators Training School, Fort Indiantown Gap, PA, *U.S. Property and Fiscal Office for Pennsylvania.* Structural Project Manager responsible for the design and detailing for a 4,000-square-foot schoolhouse for the training and education of heavy equipment operators tasked with repairing and constructing temporary military airfields. The design included classrooms, an administration area, a break area, and private offices for the facility's commissioned and non-commissioned officers.

PROJECT ASSIGNMENT: Structural

YEARS EXPERIENCE WITH FIRM: 18

YEARS EXPERIENCE WITH OTHER FIRMS: 4

EDUCATION:

B.S., Structural Design and Construction Engineering Technology, The Pennsylvania State University, 1991

M.E., Engineering Science, The Pennsylvania State University, 2002

80-Hour In-House Project Management Training, administered by The Pennsylvania State University, 2001

PROFESSIONAL REGISTRATION(S):

P.E.: Pennsylvania - No. PE049751E (1997)

SUMMARY OF EXPERIENCE:

Operations and Training Facility, 201st Red Horse Squadron, Fort Indiantown Gap, PA, U.S. Property and Fiscal Office for Pennsylvania. Structural Project Engineer responsible for the design and detailing of a 22,500-square-foot operations and training facility. The facility includes operations, engineering, logistics, and base operations support; mobility bag storage; and a combat arms training room using a simulated combat system. The operations and training functional areas include training, administration, storage, planning, recruiting, conference, material testing laboratory, medical, restroom/locker room, and communications area. The design, if registered with the United States Green Building Council, would attain Leadership in Energy and Environment Design (LEED)-certified status design and meet the design standards of the Anti-Terrorism/Force Protection criteria (UFC 4-010) for military facilities. Shallow foundations support insulated concrete formwork walls and shear walls. A light-gauge truss system supports a metal deck roof system.

Lightning Force Academy, Fort Indiantown Gap, PA, U.S. Property and Fiscal Office for Pennsylvania. Structural Project Engineer responsible for the design and detailing of a 4,000-square-foot facility for the training and education of personnel responsible for the construction of temporary communications rooms under simulated field conditions. The design of the facility gives students an opportunity to build and tear down communications rooms, including pulling wires via conduits to a point outside of the facility. The design included classrooms, mock communication training rooms, an administration area, a break area, and private offices for the facility's commissioned and non-commissioned officers. The project incorporated many elements of sustainable design and met the design standards of the Anti-Terrorism/Force Protection criteria (UFC 4-010) for military facilities.

Regional Equipment Operators Training School, Fort Indiantown Gap, PA, U.S. Property and Fiscal Office for Pennsylvania. Structural Project Engineer responsible for the design and detailing for a 4,000-square-foot schoolhouse for the training and education of heavy equipment operators tasked with repairing and constructing temporary military airfields. The design included classrooms, an administration area, a break area, and private offices for the facility's commissioned and non-commissioned officers. The project incorporated many elements of sustainable design and met the design standards of the Anti-Terrorism/Force Protection criteria (UFC 4-010) for military facilities.

Air Strike Operation Support Facility, 201st Red Horse Squadron, Fort Indiantown Gap, PA, U.S. Property and Fiscal Office for Pennsylvania. Structural Project Engineer responsible for designing and detailing a 16,600-square-foot operations and training facility. The facility includes operations areas and meeting rooms. The design, if registered with the United States Green Building Council, would attain Leadership in Energy and Environment Design (LEED)-certified status design and meet the design standards of the Anti-Terrorism/Force Protection criteria (UFC 4-010) for military facilities. Shallow foundations support insulated concrete walls, which support a light-gauge roof truss system carrying a metal deck roof system.

Troop Training Quarters, 201st Red Horse Squadron, Fort Indiantown Gap, PA, U.S. Property and Fiscal Office for Pennsylvania. Structural Project Engineer responsible for the design and detailing of a 2-story, 17,000-square-foot troop training quarters. The facility includes dormitory-type living quarters and meeting rooms. The design, if registered with the United States Green Building Council, would attain Leadership in Energy and Environment Design (LEED)-certified status design and meet the design standards of the Anti-Terrorism/Force Protection criteria (UFC 4-010) for military facilities. Shallow foundations support insulated concrete walls. Long-spanning precast-concrete decking supports the second floor and a light-gauge roof truss system carrying a metal deck forms the roof system.

PROJECT ASSIGNMENT: Security/Force Protection

YEARS EXPERIENCE WITH FIRM: 6

YEARS EXPERIENCE WITH OTHER FIRMS: 23

EDUCATION:

B.A., History, Rollins College, 1978

M.P.S., Homeland Security Leadership, University of Connecticut in conjunction with the Naval Postgraduate School, 2008

Courses in pursuit of an M.B.A., University of Massachusetts-Amherst, 2008-present

Graduate Courses in Organizational Security Management, Webster University, 2003-2004

Risk Assessment Methodology (RAM), Sandia National Laboratories, 2002

Homeland Security Comprehensive Assessment Model (HLS-CAM), A Secure America, Inc., 2005

PROFESSIONAL REGISTRATION(S):

Certified Protection Professional: American Society of Industrial Security - No. 14422

CURRENT RESPONSIBILITIES:

Senior Director - Security Services responsible for managing a department that provides consulting services on security issues and physical protection system development, design, implementation, policy development, and training. Services also involve threat assessments, vulnerability assessments, mitigation strategies, and emergency response plans.

SUMMARY OF EXPERIENCE:

Army Protective Design, Confidential Locations, U.S. Army Corps of Engineers. Project Manager responsible for a multi-year contract for Department of Defense assets worldwide. Tasks include a broad range of support activities for physical security strategies and technologies related to military installations and facilities.

Afghan National Police National Logistics Center, Maydan, Afghanistan, U.S. Army Corps of Engineers, Afghan Engineering District. Senior Security Consultant and Security Project Manager relating to the antiterrorism-force protection design (UFC-4-010-01) of a compound that will house several hundred law enforcement personnel and staff. The facility is a self-sustaining community with water and wastewater processing, electric power, barracks, laundry, vehicle maintenance quarters, and armory.

Pentagon Transportation Management Planning Support, Arlington Country, VA, Military Surface Deployment and Distribution Command Transportation Engineering Agency (SDDCTEA). Senior Security Analyst responsible for assessing a number of existing or proposed vehicular access control points using the various criteria from the Unified Facilities Criteria (UFC) 4-022-01, Security Engineering: Entry Control Facilities/Access Control Points, Department of the Army, Army Access Control Points Standard Design, and SDDCTEA Pamphlet 55-15, Traffic and Safety Engineering for Better Entry Control Facilities. Performed a threat analysis and conducted a security review of numerous pedestrian access points.

Access-Control Point Studies, Various Confidential Locations, U.S. Army Corps of Engineers, Norfolk District. Senior Security Consultant responsible for supporting the preparation of a design guide and master specifications for active vehicle barrier control systems. The preparation of the specifications included the implementation of strategies for safety interlocks; redundant system controllers; analytics for video images; and vehicle presence detectors based on inductive, microwave, and optical measurements.

Security System Design Study, Exton, PA, West Whiteland Township. Project Manager for the development of a PPS design for a 33,000-square-foot township administration building. The design provided for several township functions, including police facilities on two floors that contain holding cells and interrogation and interview, arms storage, and administrative areas. The design included access-control and intrusion-detection systems, and CCTV systems.

PROJECT ASSIGNMENT: Civil

YEARS EXPERIENCE WITH FIRM: 4

YEARS EXPERIENCE WITH OTHER FIRMS: 10

EDUCATION:

B.S., Civil Engineering, West Virginia University, 1996

PROFESSIONAL REGISTRATION(S):

P.E.: West Virginia - No. 015304 (2002)

Florida - No. 61143 (2004)

CURRENT RESPONSIBILITIES:

Project Manager for the West Virginia Regional Office responsible for the design of highway, airport, and site development projects, including right-of-way, stormwater, utilities, signing and pavement marking, erosion and sediment pollution control, final cross sections, quantities, and report preparation. Also assists in client consultation, budget preparation, and project scheduling.

SUMMARY OF EXPERIENCE:

Preston County 911 Center, Kingwood, WV, Preston County Commission. Project Manager responsible for final site design, utility coordination, construction plan preparation, permitting, and construction observation of a new 911 center located on approximately 5 acres. The project is currently under construction.

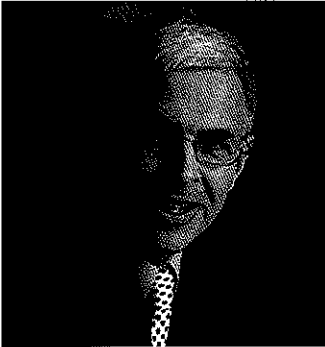
Jerome Park Subdivision, Morgantown, WV, Monongalia County Habitat for Humanity. Project Manager and Project Engineer responsible for final site design, utility coordination, construction plan preparation, permitting, and construction observation of a 13-unit, single-family subdivision. The project is currently in the design phase.

Airport Access Road, Mingo County, WV, Mingo County Airport Authority. Project Manager responsible for the design and preparation of construction plans for an approximately 2-mile access road for a new airport. The design includes horizontal and vertical geometry, erosion and sedimentation control, stormwater management, National Pollutant Discharge Elimination System (NPDES) permitting, quantity calculation, and cost estimation.

Airport Layout Plan, Logan County, WV, Logan County Airport. Project Manager responsible for the preparation of an airport layout plan. The package includes a property map of land uses, airspace evaluation, and plans for future improvements to the 3,600-foot runway and terminal area.

Neighborhood Revitalization, Morgantown, WV, Sunnyside Up, Campus Neighborhoods Revitalization Corporation. Project Manager responsible for utility coordination and preliminary engineering design and cost estimation for inclusion in an application to create a Tax Increment Financing District for the Sunnyside area of the city.

Evansdale Campus Bridge-Garage, Morgantown, WV, West Virginia University (WVU). Project Engineer responsible for preliminary parking garage layout and access road design for a 1,000-space parking garage at the WVU Coliseum.



PROFESSIONAL REGISTRATION

Professional Engineer - West Virginia,
Illinois

OSHA 40-Hour Health and Safety
Training

EDUCATIONAL BACKGROUND

B.S. Civil Engineering, 1978
West Virginia University

M.S. Civil Engineering, 1979
West Virginia University

EMPLOYMENT HISTORY

1997-Pres. Potesta & Associates, Inc.
1994-1997 Terradon Corporation
1979-1994 GAI Consultants, Inc.
1978-1979 West Virginia University
1976-1977 West Virginia Department of
Highways (summers)

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers
National Society of Professional
Engineers
WV Association of Consulting
Engineers

HONORS

Tau Beta Pi/Chi Epsilon

AREAS OF SPECIALIZATION

Management of design and permitting of civil, environmental, geotechnical, and mining engineering projects. Siting, design and permitting of industrial and municipal waste disposal sites; reclamation of abandoned mine lands; and development of stormwater management plans and groundwater sampling programs. Environmental/reclamation liability assessments. Development of site plans for commercial and industrial facilities including hydrologic and hydraulic analyses. Expert witness testimony.

PROFESSIONAL EXPERIENCE

- Management of numerous environmental assessments for property transactions.
 - 70-acre parcel of land adjacent to Kanawha - Western Landfill for Kanawha County SWA
 - 65,000 acre Environmental/Reclamation Liability Assessment for A.T. Massey Coal Company
 - Environmental/Reclamation Liability Assessment involving 56 coal permits in KY for A.T. Massey Coal Company
 - General Electric Company - Nitro, WV
 - K-Mart in Parkersburg, WV
 - Mac's Body Shop for use as recycling center - KCSWA
 - 1200 acres for Island Creek Coal Co. in KY
 - South Central Regional Jail site near Charleston, WV
 - 300 acre coal property in Logan County for FDIC
 - 180 acre parcel of land for potential landfill developments
 - Rhone-Poulenc Ag Company - Institute, WV
 - Laboratory/office building for Eastern Associated Coal Corporation - Beckley, WV
 - Environmental/Reclamation Liability Assessment involving 27 coal permits in southern WV
 - Environmental/Reclamation Liability Assessment for 24,000 acre coal property in southern WV for Eastern Associated Coal Corporation
- Hydrologic and hydraulic analyses of South Ruffner Watershed. Project analyzed various storm events and presented conceptual recommendations to reduce effects of these storms.
 - City of Charleston, WV
- Inspection and preparation of rehabilitation design for Parking Garage No. 1.
 - City of Charleston.
- Coordination for Environmental Impact Statement for Route 19 upgrade from Summersville to Interstate 79 in Braxton County and New River Parkway from Sandstone Falls on I-64 to near Athens on I-77.
 - West Virginia Division of Highways

- Management of consulting services for environmental report preparation and FERC permit applications for various natural gas pipeline projects.
 - Columbia Gas Transmission Corporation
- Project management and design team leader on the following road and environmental projects for West Virginia Division of Highways (WVDOH).
 - North Bridgeport Bypass, Harrison County: Environmental assessment/Design report.
 - North Bridgeport Bypass, Harrison County: Final design, right-of-way, geotechnical, slope design, drainage, roadway plans.
 - Kanawha Turnpike Widening and Upgrade, South Charleston: Surveying, drainage, and development of roadway and signing plans to upgrade Kanawha Turnpike from one-lane to two-lane traffic. Also included redesign of one intersection and the entrance to the Marshall University Graduate School.
 - I-77 Mineral Wells Rest Area WWTP Design, Wood County, WV.
- Managed the following WVDOH projects as a subconsultant firm:
 - Sulphur Springs Bridge, Berkeley County: Geotechnical and surveying - W. R. Ramsey & Associates.
 - U. S. Route 35, Mason County: Geotechnical - H. W. Lockner.
 - Dry Run Interchange, Berkeley County: Geotechnical, Legion Design.
 - Corridor H Section 15, Elkins, Randolph County: Surveying - ms Consultants.
 - Merricks Creek, Cabell County: Surveying - Benatec Associates, Inc.
 - King Coal Highway, Wyoming County: Surveying, ROW plans, utility verification and coordination - Gannett Fleming, Inc.
 - Dundon Bridge Replacement, Clay County: Surveying, ROW, utilities and geotechnical - Modjeski & Masters, Inc.
 - Corridor D Parkersburg, Wood County: Surveying - Benatec Associates, Inc.
- Detailed design and preparation of construction drawings, specifications, contractor's bid sheet, and engineer's cost estimate for six-mile water line extension including fire protection. Included in project was 90,000 gallon water tank, booster station, and pressure relief valves. Extension tied into Norton Harding Jimtown PSD System and served town of Cassity in Randolph County.
 - WVDEP
- Detailed design and preparation of construction drawings, specifications, contractor's bid sheet, and engineer's cost estimate for a half-mile water line extension to serve Beaver Creek near Junior in Randolph County.
 - WVDEP

PROFESSIONAL REGISTRATIONS

Registered Land Surveyor, North Carolina,
South Carolina, West Virginia

EDUCATIONAL BACKGROUND

A. S. Land Surveying
Glennville State College
Glennville, West Virginia

EMPLOYMENT HISTORY

1998-Present Potesta & Associates, Inc.
1993-1998 Dunn Engineers
1888-1993 Woolpert Consultants
1986-1988 W. K. Dickson and Company
1986-1986 Clary-Miller and Associates
1985-1986 William F. Knight Land
Surveying
1984-1985 Morris Exploration Company
1983-1984 William F. Knight Land
Surveying
1981-1983 Columbia Gas Transmission
Company

PROFESSIONAL AFFILIATIONS

North Carolina Society of Land Surveyors
South Carolina Society of Land Surveyors
West Virginia Association of Land
Surveyors
American Congress on Surveying and
Mapping
West Virginia Association of Land
Surveyors, Greater Kanawha Valley
Chapter, President, 2003
West Virginia Society of Professional
Surveyors, Board of Directors 2005-2006

PROFESSIONAL EXPERIENCE

Military:

1. Seymour Johnson Air Force Base, United States Air Force, Goldsboro, North Carolina. Crew Chief.
2. St. George Harbor, U.S. Corps of Engineers, St. George Island, Alaska. Contractor Quality Control Representative.
3. Camp Butner, United States Army, Durham, North Carolina. Crew Chief.

Office, Business and Industrial:

- Wal-Mart, Barboursville, WV. Construction layout for parking, roadways, curb and gutter, and utilities for new store.
- River Ridge, Charleston, WV. Construction layout for new church building, parking, and utilities. Project Manager.
- 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.

Construction Stakeout:

- Charleston Federal Building, Charleston, West Virginia. Staked foundation, anchor bolts, interior and exterior wall lines. Crew Chief/Project Manager.
- Courthouse Parking Building, Charleston, West Virginia. Staked foundation and wall lines. Crew Chief.

Colleges/Universities/Schools:

- 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, 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.
- University of Charleston, Charleston, WV. Stakeout of new pharmacy school building. Crew Chief/Project Manager.

ALTA Land Title Surveys:

- Coolfont Resort, Morgan County, WV. Boundary survey on 920 acres. Project Manager.
- Coldwater Creek, Mineral Wells, Wood County, WV. ALTA survey of 38-acre distribution site. Crew Chief, Project Manager.
- Big Sandy Peaker Plant, Constellation Energy, Cabell County, WV. ALTA survey of 42-acre plant site and 1 mile of transmission lines. Crew Chief/Project Manager.

PROJECT ASSIGNMENT: Geotechnical

YEARS EXPERIENCE WITH FIRM: 12

YEARS EXPERIENCE WITH OTHER FIRMS: 4

EDUCATION:

B.S., Civil Engineering, Carnegie Mellon University, 1993

PROFESSIONAL REGISTRATION(S):

P.E.: Pennsylvania - No. PE055063E (1999)

West Virginia - Pending

SUMMARY OF EXPERIENCE:

U.S. Route 35 Widening, Little Five Mile Creek to Coast Guard Station, Point Pleasant, WV, West Virginia Department of Highways. Geotechnical Project Manager responsible for final design geotechnical investigations and recommendations for approximately two miles of new four-lane highway. Developed boring contract and oversaw subsurface exploration program involving over 6,000 linear feet of drilling and multiple drilling subcontractors. Roadway recommendations included numerous cut and fill slope designs and settlement evaluations. Geotechnical recommendations in support of structural design included deep foundation recommendations for three structures. Computations included pile capacity evaluations, negative skin friction considerations, and drivability analyses. Detailed geotechnical engineering reports and structure foundation reports were prepared and updated based on the continually evolving design. Continually worked with the client and prime consultant to ensure consistent design.

Dolls Run Bridge Replacement, Monongalia County, WV, West Virginia Department of Transportation, Division of Highways. Geotechnical Engineer responsible for foundation design recommendations and roadway approach work for bridge replacement project. Evaluations included bearing capacity, scour, and global stability considerations for new structure. Recommendations for roadway design included evaluations of embankment slope stability, consolidation settlements, and lateral squeeze in soft alluvial soils. Prepared final report of recommendations including detailed analyses.

Beaner Hollow Roadway Improvements, S.R. 4016, Section B01, Brighton, PA, Pennsylvania Department of Transportation, District 11-0. Geotechnical Project Manager responsible for design and construction oversight of approximately 1,200 feet of two-lane state-owned roadway that was failing due to a loss of support caused by a sliding land mass beneath the roadway. Work was performed under an emergency contract, as the roadway provides direct access to Beaver County Medical Center, and an existing 8-inch gas line located directly beneath the roadway was jeopardized by the slide. Developed innovative slide stabilization designs incorporating drilled soil nails, high-tensile steel wire mesh, and erosion control matting. Developed final design plans, specifications, and estimates (PS&E). Provided periodic construction oversight and observation of soil nail testing. Coordinated directly with the Department of Transportation, the construction manager, and the contractor to assist in responding to requests for information and inspecting the work in progress.

Corridor H Section 6 Subsurface Investigation, Hardy County, WV, West Virginia Department of Highways. Geotechnical Engineer responsible for performing a test boring inspection for more than 100 roadway and structure borings. Conducted slope stability analyses for embankment cut-and-fill slope designs. Provided recommended allowable bearing capacities and lateral earth pressures for structure foundations. Calculated and tracked estimated earthwork quantities.

Telephone 304-296-6492
Fax 304-296-6495

FACSIMILE TRANSMITTAL

Gannett Fleming, Morgantown, WV

To: TARA LYLE Date: 3-16-2011
(Name of Individual)

GF Job No. _____

From: WV STATE No. of Pages: _____
(Name of Individual) (Include this page)

Telephone No. of FAX Machine 304-558-3970

Title of Job: DEFK 11028 , ADDENDUM #1

Comment: TARA,

Attached is Addendum #1

FOR DEFK 11028

To be included in our

LOI.

Thanks

Same

RECEIVED
MAR 16 A 10:35
STATE DIVISION
SALE OF WV

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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
DEFK11028

PAGE
1

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

RFQ COPY
 TYPE NAME/ADDRESS HERE

DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION
 1707 COONSKIN DRIVE
 CHARLESTON, WV
 25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
03/08/2011				

BID OPENING DATE: **03/22/2011** BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
1. QUESTIONS AND ANSWERS ARE ATTACHED. 2. TO MOVE THE BID OPENING FROM 03/15/2011 TO 03/22/2011. 3. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID. EXHIBIT 10						
REQUISITION NO.: DEFK11028						
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 <input checked="" type="checkbox"/>						
NO. 2 <input type="checkbox"/>						
NO. 3 <input type="checkbox"/>						
NO. 4 <input type="checkbox"/>						
NO. 5 <input type="checkbox"/>						
I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE 304-296-6492	DATE 3/16/11
TITLE Office Manager	FEIN 25-1613591	ADDRESS CHANGES TO BE NOTED ABOVE

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



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

Request for Quotation

RFQ NUMBER
DEFK11028

PAGE
2

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

VENDOR INFORMATION

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SHIP TO

DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION
 1707 COONSKIN DRIVE
 CHARLESTON, WV
 25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
03/08/2011				
BID OPENING DATE: 03/22/2011		BID OPENING TIME 01-30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: center;"> SIGNATURE GANNETT FLEMING, INC. COMPANY 3-16-2011 DATE </p> <p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p> <p>REV. 09/21/2009</p> <p style="text-align: center;">END OF ADDENDUM NO. 1</p>						
0001	1	JB		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE	TELEPHONE	DATE	
	304-296-6492	3/16/11	
TITLE	FAX	ADDRESS CHANGES TO BE NOTED ABOVE	
Office Manager	25-161 3591		

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