

August 14 2020

Department of Administration, Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305-0130

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WV PURCHASING  
DIVISION

**WEST VIRGINIA ARMY NATIONAL GUARD  
ARMY AVIATION SUPPORT FACILITY #1 (AASF1)  
LOCATED AT WILLIAMSTOWN, WV**

The EADS Group, Inc. / EADS Architects, Inc. (EADS) is pleased to submit our qualifications to provide professional Architectural, Engineering and Construction Administration Services to the State of West Virginia for the professional architectural services to renovate the shower/restroom areas of the AASF1 to meet current building codes, ADA compliance and current military force protection regulations. EADS has been satisfying the engineering, architectural, environmental, planning and related needs of federal, state and private clients since 1955.

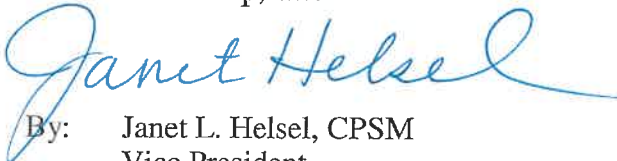
With over 250 employees in nine (9) offices including Morgantown, WV, Cumberland, MD and Somerset, PA, we have the resources to begin this project immediately and complete all work in a timely manner. Our personnel consist of: Professional Engineers, Registered Architects, Registered Landscape Architects, Registered Land Surveyors, Professional Geologists, Certified Planners, Environmental Specialists, Construction Inspectors and highly skilled technical staff.

Briefly, we would like to summarize a few key points for your consideration:

- We have been in business for over 60 years.
- We offer a wide array of in-house technical consulting services.
- Our Quality Control Program is ISO 9001 certified. We are one of only a few engineering / architecture firms to achieve this program registration.
- Our staff is very knowledgeable and experienced in the design and construction of military facilities.

With many years of experience, flexibility and capacity, EADS is capable of serving your needs and delivering quality service with integrity. If you would like additional information, or if you would like to schedule a meeting to discuss this project, please feel free to contact Project Manager, James R. Stephen, R.A., N.C.A.R.B. at 814-445-2470 office, 814-525-7753 mobile, or by email at [jstephen@eadsarchitects.com](mailto:jstephen@eadsarchitects.com).

Respectfully submitted,  
The EADS Group, Inc.

  
By: Janet L. Helsel, CPSM  
Vice President

For: Gregory L. Elliott, RLA – Principal & Vice President  
Manager of Architecture & Site Development

**EXPRESSION OF INTEREST  
CEO1 ADJ21\*2**

**Architectural / Engineering Design Services  
For Army Aviation Support Facility #1  
Williamstown AASF1-Shower-Restroom Renovation**

**Prepared for:  
West Virginia Army National Guard  
Charleston, WV**

**August 2020**



ENGINEERING ARCHITECTURE AND DESIGN SERVICE

**250 Scott Avenue  
Morgantown, WV 26508  
(304) 212-5927**

# TABLE OF CONTENTS

- 1. Letter of Interest**
- 2. Qualifications and Experience**
  - Firm Overview / Capabilities
- 3. Personnel Listing - Key Personnel**
  - Organizational Chart (*Staffing Plan*)
  - Resumes
- 4. Project Experience**
  - Project Profiles
- 5. References**
- 6. Method of Approach**
- 7. Quality Management Plan**

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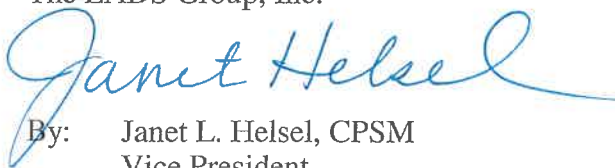
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With many years of experience, flexibility and capacity, EADS is capable of serving your needs and delivering quality service with integrity. If you would like additional information, or if you would like to schedule a meeting to discuss this project, please feel free to contact Project Manager, James R. Stephen, R.A., N.C.A.R.B. at 814-445-2470 office, 814-525-7753 mobile, or by email at [jstephen@eadsarchitects.com](mailto:jstephen@eadsarchitects.com).

Respectfully submitted,  
The EADS Group, Inc.



By: Janet L. Helsel, CPSM  
Vice President

For: Gregory L. Elliott, RLA – Principal & Vice President  
Manager of Architecture & Site Development

# FIRM OVERVIEW

## Quality Service with Integrity

### Board of Directors:

- ◆ Thomas M. Reilly, P.E.  
*President and CEO*
- ◆ Craig L. Weaver, P.E.
- ◆ David M. Yahner, P.E.
- ◆ Janet L. Helsel, CPSM
- ◆ Gregory L. Elliott, RLA
- ◆ Stephen M. Sewalk, P.E.

### The EADS Group is a Corporation Registered in:

- ◆ Pennsylvania
- ◆ Maryland
- ◆ New Jersey
- ◆ Ohio
- ◆ Texas
- ◆ Virginia
- ◆ West Virginia
- ◆ Alabama
- ◆ Arkansas
- ◆ Kentucky
- ◆ Louisiana
- ◆ Mississippi

### Office Locations:

- ◆ Altoona, PA
- ◆ Beaver, PA
- ◆ Clarion, PA
- ◆ Cumberland, MD
- ◆ Johnstown, PA
- ◆ Lewistown, PA
- ◆ Morgantown, WV
- ◆ Pittsburgh, PA
- ◆ Somerset, PA

- ◆ Est. 1955
- ◆ Over \$29 Million in revenue in 2019
- ◆ ISO 9001 Certified
- ◆ Employee-owned and managed
- ◆ Over 250 employees

QUICK FACTS

### MISSION

The Mission of The EADS Group is to provide our clients quality service with integrity, the success of which is measured by their level of satisfaction. By maintaining a climate of integrity, innovation, and constant improvement, we ensure our technical staff the opportunity for personal growth while creating a working partnership with our clients.

### BACKGROUND

For over 65 years, The EADS Group has been satisfying the engineering, architectural, environmental, planning and related needs of federal, state and private clients.

Extensive knowledge and expertise is represented in over 250 professionals in the following office locations - Altoona, Beaver, Clarion, Johnstown, Lewistown, Pittsburgh and Somerset, PA; Cumberland, MD and Morgantown, WV. Our professional team is made up of: Professional Engineers, Certified Planners; Registered Landscape Architects, Registered Land Surveyors, Professional Geologists, Registered Architects, Environmental Specialists, Construction Inspectors, Photogrammetrists, and highly skilled technical personnel. We offer the resources of many talented individuals with literally hundreds of successful projects to their credit.

### PEOPLE

The key to our organization is people. The loyalty, dedication and longevity of our staff ensure that The EADS Group can provide continuity and professionalism to all assignments. Our personnel are educated, trained and experienced in their chosen disciplines, specifically to provide quality service to our clients. They are flexible. Each project, large or small, becomes the responsibility of a project manager and a specially selected team.

### COMMITMENT

To you, our customer. To our community. To ourselves. To quality. We are committed. As an employee-owned company, each member of the EADS Team is invested and dedicated to providing only the highest quality of work. Exemplifying our commitment to quality is our ISO 9001 certification. Our process-based quality management system puts customer satisfaction in the foreground of all our daily operations and ensures the successful completion of your project.

THE  
EADS  
GROUP

# FIRM CAPABILITIES

## ARCHITECTURE

The EADS Group entered the architectural design market in 1980. Our architectural team specializes in the renovation, restoration and expansion of existing facilities, as well as the design of new structures. Projects completed range from small structures for private developers, to high-tech, top security facilities for the federal government. Historic restoration projects have also been completed in strict compliance with the National Register of Historic Places.

## SITE DEVELOPMENT

The EADS Group provides total capabilities in the transformation of undeveloped property into functional commercial, industrial and institutional facilities. From the acquisition of the property through construction management, we offer total in-house capabilities. The disciplines available to you include surveyors, right-of-way specialists, environmental scientists, civil engineers, landscape architects, geologists, hydrogeologists, photogrammetrists, water/wastewater engineers, structural engineers and construction specialists.

## WATER & WASTEWATER

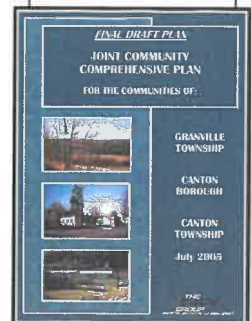
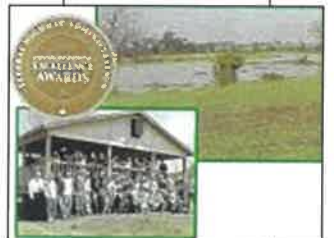
The EADS Group has earned an excellent reputation for providing quality sanitary engineering services. Service to clients began in the late 1940's through the founder of one of our companies, providing the firm with decades of experience in this discipline. We received design approval for the construction of the first aerated facultative lagoon treatment facility in the Commonwealth of Pennsylvania, and were responsible for the initiation of slow sand filtration for safer drinking water within the Commonwealth. Staff is knowledgeable of local, state and federal regulations and investigates solutions tailored to the financial as well as technological needs of each client.

## ENVIRONMENTAL

Our staff has extensive experience with waterways permitting, environmental risk assessments, site investigations, wetlands delineation and mitigation, and all related permitting. The scope of services covers terrestrial and aquatic ecology, water resources, vegetation and wetlands, soils and geology, air quality, noise, hazardous wastes, and socio-economics/land use. Projects have been successfully completed for private and public sectors: 17 Street Logan Partnership, L.P., Westvaco, Appleton Papers, Crown American Corp., National Park Service, U.S. Fish and Wildlife Service, Environmental Protection Agency, Pennsylvania Departments of Environmental Protection (DEP) and Transportation (PennDOT), and U.S. Navy and U.S. Army Corps of Engineers.

## PLANNING

The EADS Group provides planning services to local governments, public agencies and the development community. Planning services draw upon the mapping, transportation, and environmental capacities of the company, uniquely blending them in a unified approach to assist local officials and the business community in understanding and improving their respective environments. Planning services are coordinated and provided by professionals having a multi-disciplinary background and approach, with extensive experience in comprehensive and strategic planning, land use planning and development planning, in the public and private sectors.

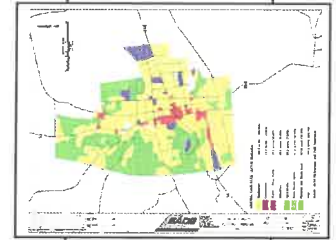


# Firm Capabilities

Page 2

## MAPPING

Staff has the ability to produce Geographic Information System (GIS), enhanced digital orthophotography and photogrammetric mapping at any scale chosen by our clients. Normal mapping scales provided range from a design scale of 1" = 30' to a scale of 1" = 500', for planning documents. Mapping is provided in GIS ArcInfo, AutoCAD and Microstation formats. Maps can be provided in a layered digitized format, including contours as layers. We also have the ability to produce maps using GPS control surveys and analytical aerotriangulation.



## CONSTRUCTION MANAGEMENT

Construction management is completed in support of in-house design services and for projects designed by other professionals. A mix of experience and training provides clients with the knowledge of the latest construction technology and sensitivity to the environment during the construction process. Materials testing capabilities are also available in-house.



## MINING & GEOTECHNICAL

Since the founding of one of our companies in 1940, we have completed numerous mining and geotechnical engineering projects. Our experience includes all aspects of mining and geotechnical engineering including mine layout and design, operations, permitting, mine transportation systems, reclamation, mine drainage treatment, geotechnical analysis (including foundation and slope stability analysis), soils engineering, water analysis, etc. Clients are in both the private and public sector reaching from Louisiana to Arkansas and north to Wisconsin and New Brunswick, Canada.



## SURVEYING

The EADS Group has been providing professional surveying and mapping services to government, business and industry for more than sixty years. Surveying services are incorporated as an integral part of each of the in-house disciplines offered. Whether strictly related to surveying, or as a support function, our survey crews are capable of providing timely and accurate data necessary for the successful completion of any project. Our crews are familiar with the most recent regulations and standards, and utilize state-of-the-art equipment and software programs to complete each assignment. EADS is also able to provide both high quality photography and accurate mapping with ground control with the use of Drone UAV Services.



## TRANSPORTATION

The EADS Group has been responsible for the design of over \$1 billion worth of roadways, highways and bridge construction projects. Our designers have been trained extensively in the use of both Softdesk and Microstation survey, mapping and highway design computer software. This permits the generation of alignments, profiles and cross sections from the initial input of the raw survey data. Today, we provide highway, bridge, and airport planning design and construction services to State Transportation Departments, the U.S. Army Corps of Engineers, Counties, Municipalities, Authorities, and Private Developers. Our engineers and technicians also inspect 300+ bridges on a continual two-year cycle. Our company led a multi-discipline team of Engineers, Geologists and Environmental Specialists to successful completion of one of the largest transportation improvement projects in PA - The Lewistown Narrows. This project has received various awards including: FHWA-Award of Excellence, ACEC/PA-Grand Conceptor Diamond Award, ACEC-Engineering Excellence Honor Award, AASHTO-America's Transportation Award Large Project-on Time, and FHWA/PA-Transportation & Historic Preservation Excellence Award

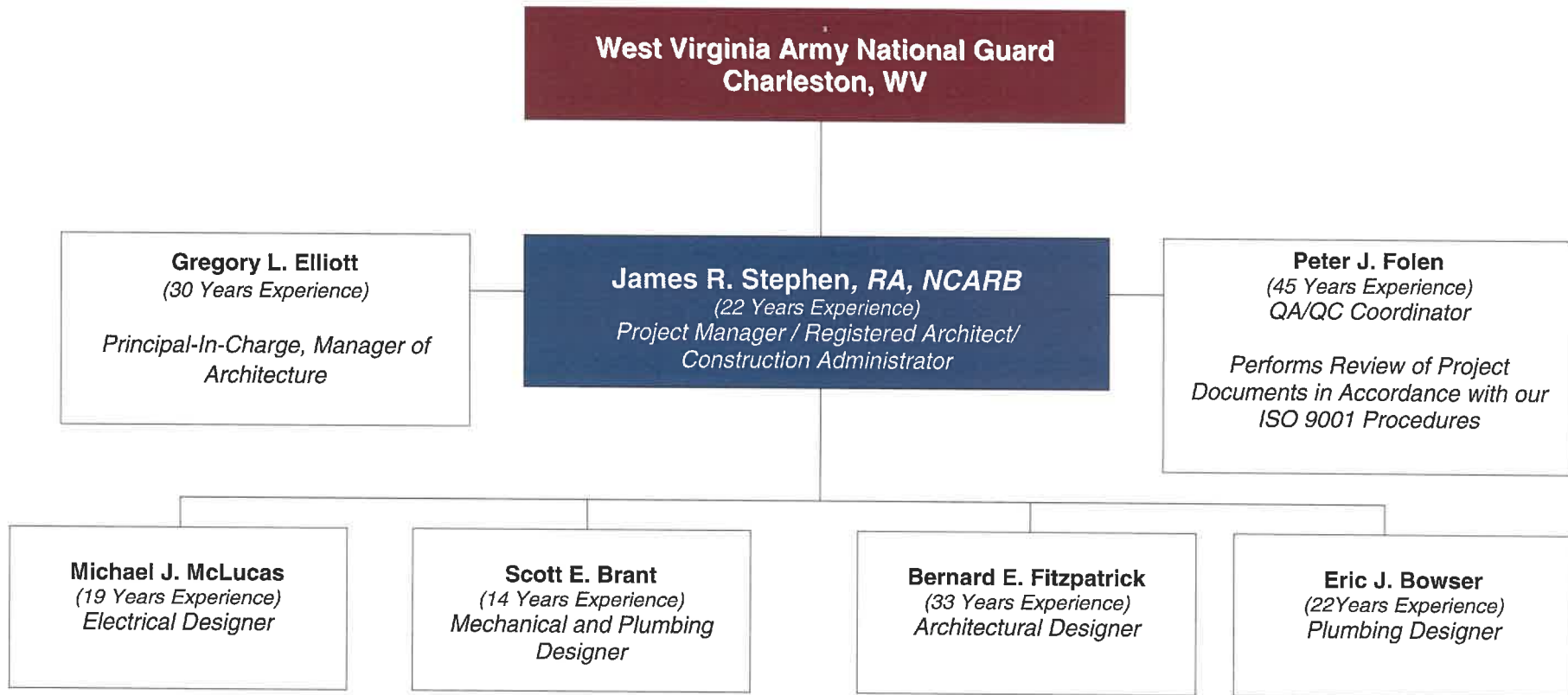




# ORGANIZATIONAL CHART AND EXPERIENCE OF KEY PROJECT PERSONNEL

ARCHITECTURAL / ENGINEERING DESIGN SERVICES  
FOR ARMY AVIATION SUPPORT FACILITY #1  
WILLIAMSTOWN AASF1-SHOWER-RESTROOM RENOVATION

## PROJECT TEAM ORGANIZATIONAL CHART



# JAMES R. STEPHEN, R.A., N.C.A.R.B.

## Project Manager / Registered Architect

### Joined The EADS Group

February 2012

### Years With Other Firms

14

### Education

B.A.  
Architecture  
Architectural History - Minor  
The Pennsylvania State  
University  
1999

The University of Pittsburgh  
at Johnstown  
Additional Credits and Courses

McGraw Hill Construction  
Continuing Education Center  
AIA/CES Provider J047  
Various Courses  
2012

2012 IBC, IRC, IECC  
Significant Changes with  
Maryland Amendments  
April 2013

### Registrations

R.A. / PA / 2003

Exp. - 06/30/2021

R.A. / MD / 2012

Exp. - 05/31/2022

R.A. / WV / 2013

Exp. - 06/30/2021

R.A. / OH / 2014

Exp. - 12/31/2021

R.A. / NJ / 2016

Exp. - 7/31/2021

### Memberships

NCARB - National Council for  
Architectural Registration  
Boards

### GENERAL QUALIFICATIONS

Mr. Stephen is an experienced Project Architect / Manager and is a dedicated and self-motivated individual who works well on team projects. His enthusiasm and skills further enhance our design team, as well as his strong commitment to client satisfaction. Prior to joining EADS, he was the Owner and Project Architect / Manager of Stephen Architectural Studio. His experience has included, but is not limited to:

- Successfully completed numerous new construction, renovation and addition projects on time and within budget
- Diversified experience in design and construction for all types of projects
- Computer experience with AutoCAD, Revit, Sketch-Up, and Photoshop
- Architectural Presentation Renderings / 3D Modeling
- Budget / Cost Analysis and Estimation
- Zoning, Code Review and A.D.A. Research / Design
- Project Design and LEED Design
- Worked on many award winning projects

### EXPERIENCE

Mr. Stephen's recent project experience includes, but is not limited to:

Salisbury-Elk Lick Area School District (*Project Architect*). The project consisted of site improvements and a new accessible 800 sf connection corridor between the Elementary School and Junior/Senior High School. Students traverse daily between the two schools for shared facilities including the cafeteria and gymnasium. EADS Architects provided full design services including: Concept design through construction document preparation, Code reviews and approvals, Municipal approvals and utilities coordination, Mechanical and lighting design, Landscape architecture and site design, Bidding and award, Construction administration.

Philipsburg Osceola Area School District - Philipsburg-Osceola Area School District (*Project Architect*). In 2019 EADS Architects, Inc. was commissioned by the School District to perform an assessment and prioritization to the facility needs at the District High School, Middle School and two elementary schools. The Board of Education selected renovations of the six High School science rooms for the 2020 construction season. The work included replacement of the science equipment, furnishings and casework. The room finishes were also renovated. EADS is responsible for the design, bidding and award, and construction observation on behalf of the School District.

Bishop Walsh High School - Cumberland, MD (*Project Architect*). Conducted code review, opinion of costs and construction documents for the interior renovations of an existing school. Office and services include the Girls and Boys Locker Rooms, Weight Room, Showers and Restrooms, Team Meeting Rooms, Chemistry Lab, Biology Lab and two Classrooms. Renovated Building Square Footage: 16,000 sf, Construction Cost \$900,000.

OMNI Bedford Springs - Bedford Springs Golf Clubhouse (*Project Manager / Project Architect*). Conducted code reviews, design development services and prepared construction documents for a new golf clubhouse facility. Design scope consisted of a new restaurant & bar area, golf pro shop with dressing room, office space, full commercial kitchen, new high-end restroom facilities, exterior porch and patio dining/sitting areas with exterior fire pit, site development including all new landscaping, parking areas and golf cart rental area. Additional responsibilities included Construction Administration Services and Project Closeout. Building Square Footage: 4,500 sf; Construction Cost: \$1,800,000.

County of Snyder - Central Susquehanna Regional 911 System (*Project Architect*). Conducted a program needs assessment, code review, opinion of costs, design and construction documents for renovation of an existing emergency operations center with a new addition. Addition includes a new 911 Telecommunication Center, Restrooms and Lockers, Break Area, Server Room and Secure Entrance. Building Square Footage: 8,600 sf, Construction Cost \$1,296,000. (Construction in Progress)

County of Tioga - Tioga County Department of Emergency Services Facility (*Project Architect*). Conducted a program needs assessment, code review, opinion of costs and design for renovation of an existing available building, new addition and new construction on the site including a new vehicle warehouse facility and new communication towers. Office and services include 911 Center, Emergency Operations Center, Continuation of Government facilities, DES Administration. DES Building Square Footage: 10,200 sf, Vehicle Warehouse Square Footage: 4,200 sf, Construction Cost \$5,200,000.

County of Clinton - Clinton County Department of Emergency Services Facility, (*Project Architect*). Conducted a program needs assessment, design development, code review, opinion of costs and produce construction documents for renovation of an existing available building and new construction on the site. Office and services include 911 Center, Emergency Operations Center, Continuation of Government facilities, DES Administration, Veteran's Affairs Office. Building Square Footage: 11,000 sf, Construction Cost \$2,500,000.

County of Tioga - Tioga County Courthouse Additions and Renovations (*Project Architect*). Conducted a program assessment, code review, opinion of costs and design for renovations of an existing Courthouse and Annex. New addition and renovations include a new, secure, public entry vestibule, new security entry system for inmate processing and misc. existing facility improvements. Construction Cost \$3,200,000.

Valcott Enterprises - Overbrook Personal Care Center, Pittsburgh, PA (*Project Architect / Manager*). Performed a Needs Assessment of a former school facility for renovation into a personal care facility. Services and project included Code Review/Deficiencies, Structural Evaluation, MEP and Fire Protection Review, Opinion of Construction Costs, Schematic Floor Plan Design. Building Square Footage: 52,000 sf, Project Budget: \$3,000,000.

Goodwill Industries - New office and warehousing centers, Western PA (*Project Architect*). Performed multiple needs assessments of existing facilities for Goodwill's operations including office facilities and warehousing. Services included Code Review/Deficiencies, Opinion of Construction Costs, Schematic Floor Plan Layouts, Hazardous Material and Asbestos Evaluation.

County of Lebanon - Lebanon County EMA Facility (*Project Architect*). Conducted a program needs assessment, code review, opinion of costs and design for a new EMA Facility and new construction on the site. Office and services include 911 Center, Emergency Operations Center, Continuation of Government facilities, EMA Administration. Building Square Footage: 13,200 sf, Opinion of Cost \$3,400,000.

Seven Springs Ski Resort - Southwind Condominiums (*Project Designer*). Conducted a code review, opinion of costs, schematic design and presentation/marketing renderings for a new condominium development.

Westmoreland County Housing Authority - W.C.H.A. Office Complex (*Project Architect*). Conducted a code review, opinion of costs and design for a new LEED office facility. Office and services include new Staff Offices and Support Areas for the Westmoreland County Housing Authority. Building Square Footage: 24,000 sf, Anticipated Construction Cost \$4,800,000.

County of Clarion - Clarion County Courthouse (*Project Architect / Manager*). Conducted a program needs assessment, code review, opinion of costs and design for the renovation of an existing courthouse. Office and services include the Court of Common Pleas, Domestic Relations, Assessors, Prothonotary, Recorder of Deeds, Auditors, County Maintenance, Information Technology and Sheriff's Department. Building Square Footage: 34,500 sf, Opinion of Cost \$7,000,000.

# PETER J. FOLEN

## QA / QC Coordinator

### Joined The EADS Group

May 1984

### Years With Other Firms

10

### Education

M.S.  
Architecture  
Pennsylvania State University  
1974

B.A.  
Architecture  
Pennsylvania State University  
1973

### Memberships

National Fire Protection  
Association  
  
National Trust for Historic  
Preservation  
  
PA Federation of Museums &  
Historical Organizations  
  
Roof Consultants Institute

### GENERAL QUALIFICATIONS

Mr. Folen is an experienced contract manager and contract administrator who has successfully completed a wide variety of projects. As a Manager, he is responsible for scheduling personnel, monitoring daily activities, providing technical and quality control oversight, and mentoring staff to ensure that contractual obligations are met and that clients' needs are satisfied. Mr. Folen's expertise includes:

- **Project Manager for 50+ school district projects (renovations, additions, and new construction)**
- **Project Manager for 75+ roof replacement projects**
- Completion of more than 50+ program needs assessments and facility programs
- Project Manager and Project Representative for 200+ building projects
- Project Manager for 125+ Pennsylvania municipal government projects (county, township, and borough)
- Project Manager for 30+ historic preservation and registration projects, historic sites surveys, historic districts and National Register nominations

### EXPERIENCE

Mr. Folen's recent project experience includes, but is not limited to:

Philipsburg-Osceola Area School District - In 2019 EADS Architects, Inc. was commissioned by the School District to perform an assessment and prioritization to the facility needs at the District High School, Middle School and two elementary schools. The Board of Education selected renovations of the six High School science rooms for the 2020 construction season. The work included replacement of the science equipment, furnishings and casework. The room finishes were also renovated. EADS is responsible for the design, bidding and award, and construction observation on behalf of the School District.

Hollidaysburg Area School District- Although EADS Architects, Inc. has assisted the School District with various project types, the focus in recent years has been the replacement of aging roofing system throughout the District. EADS was responsible for the design, bidding and award, and construction observation for the following projects:

- 2020: Frankstown Elementary School - Replacement of 53,000 SF Asphalt Shingle roof and 6,700 SF of EPDM membrane roofing and insulation.
- 2019: Foot of Ten Elementary School - Replacement of 47,000 SF Asphalt Shingle roof and 6,700 SF of EPDM membrane roofing and insulation.
- 2017: Hollidaysburg Area Junior High School - Replaced 60,970 SF built-up coal tar roof covered with a ballasted rubber membrane with tapered insulation and new EPDM total roofing system.
- 2011: Longer Elementary School - Replaced 29,670 SF shingle roof with new roof felts, ice guard, architectural asphalt shingles, gutters and downspouts.

Mount Union Area School District - Over the course of a 15 year period EADS Architects, Inc. served as the architect of record and responsible for planning, design, bidding and award, and construction observation on more than 20 major projects. These included roof replacement projects, renovation and improvements to existing facilities and construction of a new maintenance building. The most significant projects were the extensive renovations and additions project at the High School, major renovations and additions to an elementary school and the construction of a new PA Department of Education acclaimed elementary school.

Shade-Central City School District, Architectural Services Retainer, Somerset County, PA (Project Manager). Completed the following projects for the district: High School roof assessment, management plan, and repair projects, handicap lifts, handicap restroom renovation, and high school entrance and office renovations for security and access. Responsible for design, bidding/award and construction services.

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County of Tioga - Tioga County Department of Emergency Services Facility, Wellsboro, PA (*Project Manager*). Renovations and improvements to a two story, 7,220 SF building and 2,980 SF new additions for the Tioga County Department of Emergency Services Facility. The project work will provide for a new 911 Center, Emergency Operations Center, DES offices, server room and dispatcher support facilities. The project includes a new 4,150 SF pre-engineered storage building for hazmat trailers, emergency vehicles, and equipment. EADS is responsible for architectural, structural, site development, and MEP (consultant) design; bidding and construction observation.

County of Clinton - Clinton County Department of Emergency Services Facility, Flemington, PA (*Project Manager*). Renovations and improvements to a former elementary school building for the Clinton County Department of Emergency Services Facility, and the Clinton County Office of Veterans Affairs. The work included renovations to the 11,000 SF main floor, sprinkler system and mechanical room in the basement, 500 kw emergency generator, new 911 Center, Emergency Operations Center, offices, new access road and parking areas, and stormwater system improvements. EADS is responsible for architectural, site development, and MEP (consultant) design; asbestos abatement, bidding and construction observation.

County of Greene - Greene County Prison New Food Preparation Facility, Waynesburg, PA (*Project Manager*). Construction of a new 1,050 SF building addition to the Greene County Prison for a new food preparation facility. The project included design of a food preparation kitchen with new food service equipment, fire suppression systems, coolers, freezers and food storage facilities. EADS was responsible for architectural, structural, site development, MEP (consultant) and utility design, bidding and construction observation. The project was "fast-track" due to the urgency of need.

County of Elk - Office of Emergency Services Facility, Elk County, PA (*Project Manager*). Conducted a program needs assessment to renovate and expand the existing facility, new construction on the existing site, new construction on alternate suitable sites and renovation of an existing available building. Recommended the options of renovating the existing 27,000 SF building because it met the program needs and was the least construction cost. Office and services included 911 Center, Emergency Operations Center, Continuation of Government facilities, County records storage, DES Administration. Butler Area Sewer Authority (BASA) - Renovations and Improvements to BASA Administrative Office Building, Butler County, PA (*Project Manager / QA/QC*). The original Butler Area Sewer Authority office building was constructed in the 1950's. The expansion of services and growth in customers has resulted in the need for additional engineering and customer service personnel. The renovation project addressed the need, as well as the upgrade of the building systems, improve energy efficiency and to provide access to handicapped persons. The project work included reconstruction of all interior spaces of the 8,900 SF two story building, door, window and roof replacements and improvements to the HVAC, plumbing and electrical systems. Construction Cost: \$1,400,000.

Butler Area Sewer Authority (BASA) - Renovations to the Maintenance Building and Sewer Crew Garage, Butler County, PA (*Project Manager / QA/QC*). To accommodate the program renovations to the BASA administrative office space, alternative building space was required for the maintenance department and sewer crew operations. Two existing buildings at the treatment plant campus were renovated and improved. The maintenance building is 3,355 SF with an office, breakroom, accessible restroom, mechanical and storage rooms, and a shop/garage area. The sewer crew garage is 18,482 SF with an office, breakroom, accessible restroom, equipment storage rooms, emergency generator room, and enclosed heated and unheated vehicle parking areas. Construction Cost \$542,000.

Butler Area Sewer Authority (BASA) - Four Roof Replacement Projects, Butler County, PA (*Project Manager / QA/QC*). After inspection and temporary repairs were made in the Fall of 2011, BASA replaced the following aging roofs:

- Treatment Plant Chemical Building, 100 Litman Road, Butler, PA - 4,486 SF
- Treatment Plant Sludge Thickener Building, Litman Road, Butler, PA - 4,413 SF
- Monroe Street Pump Station, 208 S. Monroe Street, Butler, PA - 1,443 SF
- Karns Crossing Pump Station, 154 Bonnie Drive, Butler, PA - 1,151 SF

Central Electric Cooperative, Inc. (CEC) - New Corporate Headquarters Building, Clarion County, PA (*Project Manager*). The existing headquarter building was over crowded and inefficient. CEC commissioned EADS to design a new facility to meet current and future program needs. The new building is a 19,000 SF, two-story steel structural frame building. Offices and services include administrative, finance and billing, customer services, communications, marketing, engineering, IT, HR, GIS, and a storm center. Construction Cost: \$4,300,000

Goodwill Industries of the Conemaugh Valley - Richland Goodwill Retail Store and Donation Center, Cambria County, PA (*Project Manager*). The Richland Goodwill Store and Donation Center is a 15,000 SF building with a structural steel frame on reinforced concrete caisson foundations. Customers enter into the 10,000 SF open area retail store. Donations can be made at the convenient drop-off canopy to the 5,000 SF warehouse and process spaces that include a training room, break room and manager's office. The retail and donations areas are utilized to provide job training to persons with barriers to employment. EADS was responsible for design, bid solicitation, award and construction services. Construction Cost: \$2,000,000

# GREGORY L. ELLIOTT, RLA - PRINCIPAL Manager of Architecture and Site Development

## Joined The EADS Group

September 1989

## Years With Other Firms

0

## Education

B.S.  
Landscape Architecture  
Pennsylvania State University  
1989

Postgraduate Studies  
Business Administration

Dale Carnegie Graduate  
1999

## Registrations

RLA / PA / 1998

Exp. - 05/31/2021

RLA / MD / 2007

Exp. - 03/28/2021

RLA / NJ / 2018

Exp. - 05/31/2022

## Seminars

Stormwater Management  
Site Assessment/Erosion &  
Sedimentation Control  
Pavement Design  
Recreational Trail Design

## Community Service

Associate Director  
Somerset Conservation District

Board Member  
Cambria-Somerset Authority

## GENERAL QUALIFICATIONS

Mr. Elliott is a creative problem solver who has successfully designed and managed a wide variety of architectural and site development projects over the course of his career. Mr. Elliott's expertise includes:

- Arrangement of the land and the natural and man-made elements upon it through the application of creative and technical skills for efficient, safe, and enjoyable human use
- Managing the site development discipline for all projects, establishing relations between buildings, roadways, access, parking areas, walkways, and open spaces in a manner that is compatible with the character of the land and its intended use
- Handicap accessible site design in accordance with the latest ADA standards and IBC regulations
- Project Manager for Architecture and Site Development having completed over 200 major projects
- Completing several streetscape projects utilizing Hometown Streets and Safe Routes to School, PCTI, Growing Greener and DCED funding in accordance with PennDOT requirements
- Assisting municipalities with Plan reviews, land development issues, including drainage and paving, and preparation of ordinances

## EXPERIENCE

Mr. Elliott began his professional career with The EADS Group upon graduating from The Pennsylvania State University. In addition to project management and design, he is responsible for project permitting; compliance with local, state, and federal codes; and coordination with authorities having jurisdiction. An example of the projects he has completed include, but are not limited to the following:

- Ligonier Diamond Park Renaissance Project - located in Ligonier Borough, PA (*Project Manager*). This project has won three prestigious awards.
- Bishop Walsh High School Renovation Project in Cumberland MD (*Project Manager*).
- PA DGS - Department of Military and Veteran's Affairs, Two New National Guard Readiness Centers, Mt. Pleasant and Latrobe, Westmoreland County, PA (*Project Manager*). Ensured the facilities met the needs of the using agency.
- National Park Service - Flight 93 National Memorial, Somerset County, PA (*Project Manager*). Design of new Maintenance Facility.
- National Park Service - Flight 93 National Memorial, Somerset County, PA (*Project Manager*). Provided client contact and stormwater management and Erosion & Sediment Pollution Control Design. Also prepared Individual NPDES Permit application.
- Wheeler Bros., Inc. - 32,000 SF new Warehouse and Office Building (*Project Manager*).
- Martella Pharmacy, Park Hill and Windber, PA - Design and Construction Administration for two new pharmacy buildings (*Project Manager*).
- Somerset County Commissioners - Airport Runway Extension, Somerset County, PA (*Project Manager*).
- Stoystown Auto Wreckers - Multiple Projects, Somerset County, PA (*Project Manager*). Prepared NPDES Permit Application for stormwater from industrial facilities; provided employee education for compliance with NPDES Permit; and prepared design for new 50,000 SF warehouse with offices and dismantling bays.
- HK Realty - New Holiday Inn Express, Somerset County, PA (*Project Manager*).

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- Tableland Services, Inc. - Obahiah Estates Subdivision, Somerset County, PA (*Project Manager*). Completed the design, engineering, permitting and construction administration for new residential subdivision project.
- First Nation Wood Pellet Plant, North Star Industrial Park, Somerset County, PA (*Project Manager*). Provided design, oversight of drawing/specifications development, client contact, permitting, and assistance with bidding.
- Tom Croner, Shady Lane Subdivision, Somerset County, PA (*Project Manager*). Provided design oversight of drawing development, client/permit agency contact and submission of permit and approval applications.
- Goodwill Industries of Conemaugh Valley, New Retail Store and Donation Center, Cambria County, PA (*Discipline Manager*). Provided site design, oversight of drawing development, preparation of technical specifications, preparation of NPDES Permit application and other approval submissions.
- Mt. Union Area School District - New Elementary School, Huntingdon County, PA (*Discipline Manager*). A \$5,000,000 new elementary school and additional projects.
- Somerset County Commissioners - New Senior Citizen Centers, Somerset County, PA (*Project Manager*).
- Somerset County Commissioners - New Parking Garage, Somerset County, PA (*Discipline Manager*).
- CVS Pharmacy Corporation, Inc - Parking Lot, Somerset County, PA (*Project Manager*). A 90-trailer parking lot.
- PennDOT - Lewistown Narrows - Canal Basin Master Plan, Mifflin and Juniata Counties, PA (*Project Manager*).
- PennDOT/Department of General Services - Three New Welcome Centers, Washington, Pike, and Adams Counties, PA (*Project Land Architect*). Mr. Elliott's responsibilities included: development of master site plans, vehicular and pedestrian circulation, entrance plaza/drop-off area design, stormwater management and roof drain design, erosion and sedimentation control, walkway design, layout and dimensioning, contour grading, construction details, picnic area design, handicapped access design, site planting and interiorscape design, site lighting and preparation of cost estimates and technical specifications.
- Somerset County Commissioners - New Office Building, Somerset County, PA (*Project Land Architect*). A \$10,000,000 office building.
- Hidden Valley and Seven Springs Resort Communities - Land planning and site design skills, both located in Somerset County, PA (*Project Manager*). Lot layout, master site plans, subdivision design, resort development, recreational design, roadway design and stormwater management for numerous projects.

Mr. Elliott managed ADA investigation studies and preparation of drawing to implement corrective measures for 125 branch offices of a top 20 National Bank.

Mr. Elliott has prepared final bid documents and provided construction consultation for the following streetscape projects administered by PennDOT:

- Mifflin County Commissioners - Lewistown Streetscape Project, Phases I, II, IIIa, IIIb, IIIc, IV and V, Lewistown, Mifflin County, PA (*Project Manager*).
- Meyersdale Borough Streetscape Project, Somerset County, PA (*Project Manager*).
- Jennerstown Borough Streetscape Project Phase I and II, Somerset County, PA (*Project Manager*).
- Somerset Borough Streetscape Project, Somerset County, PA (*Project Manager*).
- Benson Borough Streetscape Project, Somerset County, PA (*Project Manager*).
- Brown Township Streetscape Project, Mifflin County, PA (*Project Manager*).

Mr. Elliott has extensive experience in recreational planning and design including DCNR procedures. He has designed 23 playgrounds in accordance with the Consumer Product Safety Commission guidelines for playground safety and the Americans with Disabilities Act. The following are several new park and trail projects he has designed and administered the construction of:

- Hollidaysburg Borough - Chimney Rocks Park, Hollidaysburg, Blair County, PA (*Project Manager*).
- Punxsutawney Borough - Tom Barletta Community Park (In-line Hockey and Skate Park). Punxsutawney, PA (*Project Manager*).
- Crawford County - Colonel Crawford Park, Meadville, Crawford County, PA (*Project Manager*).
- Everett Borough - Tenley Park, Everett, Bedford County, PA (*Project Manager*).

Additionally, Mr. Elliott has designed and managed the construction of several athletic fields and running tracks.

# MICHAEL J. McLUCAS

## Electrical Designer

### Joined The EADS Group

November 2007  
2000-2006

### Years With Other Firms

1

### Education

B.S.  
Electro-Mechanical Engineering  
Pennsylvania State University  
2005

Assoc.  
Electrical Engineering  
Pennsylvania State University  
1999

### Additional Training

2016 / Project Manager  
Training

2016 / Instruction on  
Emergency and Standby Power  
Generator Equipment

2015 / Industrial Power  
Systems

2012 / Lutron's Commercial  
Specification Seminar / Lutron  
Listing Controls

2014 / 2011 / 2008 / 2005/ 2002  
/ National Electrical Code  
Changes

2011 / Energy Code Changes

2011 / Energy Efficiency and  
Reliability Seminar

2006 / Commercial Training in  
Design, Specifying and  
Installation of Lighting Controls  
Industrial Electrical Wiring

2006 / Occupancy Control  
Engineering

2004 / Lighting for Educational  
Facilities

### GENERAL QUALIFICATIONS

Mr. McLucas graduated from Pennsylvania State University with a B.S. Degree in Electro-Mechanical Engineering and an Associate Degree in Electrical Engineering. He is well versed in the engineering of interior power systems, site electrical distribution systems, building life-safety emergency power systems, lighting systems, fire alarm systems, telecommunication systems, nurse call systems, electrical connection of HVAC, plumbing, and other miscellaneous equipment, specifications, project preparation and project development. He is further experienced in the construction and operation of such systems and performs inspections throughout the construction phase. Along with the development and engineering of electrical systems, Mr. McLucas is knowledgeable in the codes associated with these systems. He is also involved with Client interaction to ensure the proper system(s) are designed to meet their needs.

### EXPERIENCE

As an Electrical Designer, Mr. McLucas has experience with multiple engineering duties related to various electrical systems for state government institutions, private institutions, and the private sector. Activities have included, but were not limited to:

- Supervising and monitoring design of projects by staff members and performing the review of the electrical design and specifications
- Performing the branch circuiting and panelboard design to serve final electrical and mechanical components
- Performing lighting designs to meet current stringent energy codes and coordinate with outside lighting design consultants
- Communication with Clients and other team members to produce accurate and complete bid documents
- Evaluation of building / site electrical and life safety systems to provide feasibility reports for Clients on future growth potential and required upgrades
- Reviewing shop drawings and communicating with Contractors and Construction Inspectors
- Performing the design of electrical distribution systems for buildings with service entrances of 208V 1 & 3 Phase to 480V 3 Phase, and medium voltage site distribution design includes aerial and underground systems up to 34.5KV 3 Phase
- Additional items - residential inspections, highway and streetscape lighting, security and telecom design, costing estimating, project management, dialer system programming, control panel wiring changes, control and PLC troubleshooting, VFD designs and motor shaft grounding, overall electrical / electronic system troubleshooting, and schematic and ladder logic evaluations

Project experience includes, but is not limited to:

- Cresson Borough Municipal Authority - Electrical troubleshooting and programming changes
- Pennsylvania State University - MRI Room 169 - Lab Equipment Circuiting Design
- Mt. Aloysius Emergency Power Upgrades - Life Safety Upgrades and Emergency Power System
- FBI Building Conditions Assessment - Building Condition Study
- Ustrina Borough Sewer - Electrical design for new treatment plant and pump station
- Burnside Borough - Design for Standby Generator



# SCOTT E. BRANT, P.E.

## Mechanical / HVAC / Plumbing Engineer

### Joined The EADS Group

November 2016

### Years With Other Firms

11

### Education

B.S.  
Marine Engineering &  
Shipyard Management  
United States  
Merchant Marine Academy  
2005

### Registrations

P.E. / PA / 2013

[REDACTED] / Exp. - 09/30/2021

P.E. / MD / 2017

[REDACTED] Exp. - 07/14/2021

### Certifications

Certified Energy Manager  
LEED AP

Certified Electrical and  
Residential Electrical  
PA Code Official

### GENERAL QUALIFICATIONS

As a Mechanical / HVAC Engineer, Mr. Brant performs mechanical and plumbing designs, along with conducting engineering assessments, preparing agreements, design computations, estimates, and project schedules for commercial, industrial and other projects.

### EXPERIENCE

Mr. Brant has performed designs for new construction and renovation projects including, but not limited to:

- Mechanical and plumbing designs for the addition of a 14 apartment wing to the Woodcrest Senior Living facility in East Huntingdon Township, PA
- Energy assessment and mechanical design for a replacement HVAC system serving the Lakeview Lodge at Treasure Lake
- Mechanical and plumbing designs for the construction of a new Tioga County Court building and Magistrate's office
- Mechanical and plumbing designs for the renovation and building addition in support of two new Fresh Thyme supermarkets
- Mechanical and plumbing designs to support the installation of a new automotive paint booth facility at the Mifflin County Academy of Science and Technology

Prior to joining The EADS Group, Mr. Brant worked as a Mechanical/HVAC Engineer, a Facilities Engineer and a Senior Mechanical Engineer. His experience included, but was not limited to:

- Conducted energy modeling and analysis to support multimillion dollar investments for several military aircraft paint facilities, environmental testing facilities, and engine test cells
- Served as the Technical Lead for a \$4M+ energy conservation technology implementation effort to significantly reduce energy consumption at Cavalier Air Force Station's Perimeter Acquisition Radar Characterization System
- Conducted system audits and life cycle replacement recommendations for a 400,000+ PPH steam generation and distribution plant at the Lake City Army Ammunition Plant
- Developed sustainable system designs including solar thermal heating systems, geothermal heat pump systems, and other renewable energy conservation technologies
- Supported design efforts for energy efficient aircraft ground support equipment prototype development
- Supported ASHRAE Level II energy audit at the Iowa Army Ammunition Plant, a 300+ building industrial manufacturing complex

Mr. Brant is also proficient in the use of Advanced Microsoft Office Applications, AutoCAD, Trane Trace HVAC Load Calculation and various Energy Modeling software packages.

# BERNARD E. FITZPATRICK

## Architectural Designer

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### Joined The EADS Group

January 2005

### Prior Years With The EADS Group

8

### Years With Other Firms

10

### Education

Assoc.  
Architectural Drafting  
Pittsburgh Technical Institute  
1986

### GENERAL QUALIFICATIONS

Mr. Fitzpatrick is a self motivated individual who enjoys taking on challenging tasks. He is self sufficient and capable of working independently but is also a strong team player. He routinely takes on multiple roles during projects and is dedicated to meeting project deadlines. Mr. Fitzpatrick has:

- Strong knowledge of CADD (*Computer Aided Drafting and Design*) Software
- Prepared probable cost estimates, quantity take-offs and computations for a variety of projects
- Provided 3D models / renderings and colored presentation drawings
- Performed numerous field investigations for verifying of existing conditions of renovation projects and compliance with established codes
- Met with clients to discuss scopes of work and review projects

### EXPERIENCE

With numerous years of experience in AutoCADD, Mr. Fitzpatrick performs computer generated drafting and design from concept design to construction phase. He also has experience in producing computer generated 3D modeling / rendering. Furthermore, Mr. Fitzpatrick has prepared contract documents and specifications and assists architects / project managers in preparing reports and probable cost estimates.

Mr. Fitzpatrick's recent project experience includes the following:

- Appalachia Intermediate Unit 8 - Mylo Park Office Building, Cambria County, PA (*Designer / CADD Technician*). Responsible for field investigation and preparation of construction documents for window replacement, exterior façade and miscellaneous interior renovations.
- Archdiocese of Baltimore - Interior Renovations at Bishop Walsh High School, Cumberland MD (*Designer/CADD Technician*). Renovations to the locker rooms and classrooms. Responsibilities included preparation of contract documents, shop drawing reviews and generation of 3D models / renderings.
- County of Clinton - Clinton County Department of Emergency Services Facility, Flemington, PA (*Designer/CADD Technician*). Renovations and improvements to a former elementary school building for the Clinton County Department of Emergency Services Facility, and the Clinton County Office of Veterans Affairs. Responsibilities included preparation of contract documents, field investigations and shop drawing reviews.
- Central Electric Cooperative - New Headquarters Building, Clarion County, PA (*Architectural Designer*). Design and layout of new two-story office building along with preparation of contract documents and specifications. Also responsible for generation of color presentation drawings and 3D models / renderings.
- Butler Area Sewer Authority - Compost Handling and Maintenance Buildings Renovation, Butler County, PA (*Architectural Designer*). Prepared contract documents and specifications.
- Crawford County Care Center - New Entrance Canopy, Crawford County, PA (*CADD Technician / Specification Writer*). Design, preparation of construction documents and specifications for a new masonry entrance canopy.
- Central Electric Cooperative - New Garage / Washbay Addition, Clarion County, PA (*Designer/ CADD Technician/Specification Writer*). Design and layout of a new garage / washbay along with preparation of construction documents, specifications and shop drawing reviews.

# ERIC J. BOWSER

## Engineering Technician

### GENERAL QUALIFICATIONS

Mr. Bowser's well-rounded experience, from buildings to the ground they sit on and the infrastructure that supports them, exemplifies the value of his diversity. His capabilities include:

- Ability to clearly convey the design intent, allowing for better understanding and ultimately better bid prices from contractors
- Working efficiently and accurately to minimize errors and omissions
- Mechanical aptitude to foresee the entire construction process which effectively coordinates sequencing and scheduling
- Maintaining a personal knowledge base that is up-to-date on current products, codes and regulatory requirements
- Timeliness and accuracy when coordinating information between the team members, owners and agencies

### Joined The EADS Group

October 2001

### Prior Years With The EADS Group

2

### Years With Other Firms

2

### Education

Assoc.  
Computer Aided  
Drafting and Design  
York Technical Institute  
1999

### Certifications

2015 / American Society of  
Plumbing Engineers (ASPE) -  
Certified in Plumbing Design  
Exp. - 4/30/21

2013 / Pennsylvania  
Department of Environmental  
Protection /  
Sewage Enforcement Officer  
#03846

2010 / CDS NeXtGen  
#825JXC

2010 / ACI Concrete Field  
Testing Technician - Grade I

2010 / Confined Space Entry/  
OSHA Standard 29 CFR  
1910.146

Construction Winter School

### EXPERIENCE

Mr. Bowser's experience includes projects for State, County and Local agencies as well as private developers and organizations. Throughout his career, his project involvement has included site development, architectural / mechanical / electrical renovations and new construction, water / sewer infrastructure and treatment processes, as well as private utility distribution and monitoring. He is involved throughout an entire project, from the start-up phases of completing research and reports, through preliminary and final design submissions, and the final completion of closeout procedures such as final inspections and documenting as-built conditions.

His project experience includes, but is not limited to:

- Hollidaysburg Sewer Authority - Wastewater Treatment Plant Upgrade, Blair County, PA
- Cresson Borough Municipal Authority - Wastewater Treatment Plant Upgrade, Cambria County, PA
- City of Johnstown - Prosser Street Pump Station Renovation, Cambria County, PA
- American Eagle Paper Mills - 90 TPD Dispersing & Bleaching System, Tyrone, Blair County, PA
- Improved Dwelling for Altoona - Blair Tower Domestic Water Distribution Replacement, Blair County, PA
- Clinton County Commissioners - Clinton County Storage Building, Clinton County, PA
- Goodwill Industries of the Conemaugh Valley - Richland Goodwill Retail Store and Donation Center, Cambria County, PA
- Crawford County Commissioners - Roof Replacement and Sprinkler Upgrade at the Quality of Living Center of Crawford County, Crawford County, PA
- Garrett Transit Service Facility, Garrett County, MD
- AMTRAN - Trolleyworks Business Park Renovation - Phase I, Blair County, PA
- AMTRAN - Miscellaneous design projects, Blair County, PA
- AMTRAN - Security and Fire Protection Project, Blair County, PA
- Borough of Somerset - Public Safety Building Renovations and Improvements, Somerset County, PA

- Borough of Somerset - New Somerset Borough Municipal Building, Somerset County, PA
- Central Electric Cooperative Building Renovations and Additions, Clarion County, PA
- Titusville Opportunity Park - Natural Gas Distribution and Metering, Crawford County, PA
- Falling Springs Nursing and Rehabilitation Center - Sprinkler System Installation, Franklin County, PA
- Altoona Hospital Trauma Addition, Blair County, PA
- Altoona Hospital T-3 Hyperbaric Facility Renovations, Blair County, PA
- Altoona Police Station, Blair County, PA
- Annex Study/Renovation Clarion Courthouse, Clarion County, PA
- Blair Orthopedic Medical Office Building, Blair County, PA
- New Manufacturing Facility to house American Piezo Ceramics, Inc., Clinton County, PA
- Blair Senior Services - New Tyrone Senior Center, Blair County, PA
- Somerset Daily American Newspaper Office Building, Somerset County, PA
- The Pennsylvania State University - Altoona Campus Illicit Discharge Remediation, Blair County, PA
- The Pennsylvania State University - Henning and A.S.I. Building Renovations, Center County, PA
- Berlin Brothersvalley School District - New Field House and School Renovations, Somerset County, PA
- Clarion University - Health Science Education Center, Clarion County, PA
- Mount Union Area School District - Mapleton Elementary School Additions and Renovation, Huntingdon, PA
- Mount Union Area School District - Shirley Township Elementary School Renovation Project, Huntingdon County, PA
- Greater Altoona Career and Technology Center - New 4th Avenue Parking Facility, Blair County, PA
- Borough of Houtzdale - Sanitary Sewer Replacement Construction Observation, Clearfield County, PA
- Redevelopment Authority - RAS Pump Replacement at Dornick Point, Cambria County, PA
- Duncansville Municipal Authority - Sewage Treatment Plant Expansion, Blair County, PA
- State College Borough Water Authority - Water Distribution System Mapping, Centre County, PA
- Bedford Borough Water Authority - Fairgrounds Waterline Extension, Bedford County, PA Johnstown
- Various Waterline / Sewerline extensions and relocations for Municipalities in Central and Western Pennsylvania

Mr. Bowser provided technical support for the following Pennsylvania Department of General Services projects:

- New Latrobe Armory, Westmoreland County, PA
- Switchgear and Perimeter Lighting at SCI Cambridge Springs, Crawford County, PA
- Upgrade Electrical Utility System at SCI Greensburg, Westmoreland County, PA
- Reconstruction of Underground Water System at SCI Smithfield, Huntingdon, PA
- Juvenile Detention Facility Complex, SCI Pine Grove, Indiana County, PA

# MOUNT PLEASANT ARMORY

## Westmoreland County, Pennsylvania

On behalf of the U.S. Army National Guard, the PA Department of General Services (PA DGS) selected The EADS Group to plan and design a 37,522 S.F. facility with training classrooms for 300+ military personnel and administrative office space. The new facility was constructed with split-face block.

Design for the facility followed U.S. Army National Guard design guides for armories. The design team worked closely with the issuing agency and the Department of Military and Veteran's Affairs, to ensure that their goals were met and the project budget was maintained.

Exterior features included:

- Site selection and environmental constraints
- A 110-car bituminous parking lot
- Vehicle wash platform and fuel dispensing system
- Secured gravel hardstand military vehicle parking area
- Stormwater detention basin
- Landscape plantings

Interior space included:

- Administration offices and a recruiting office
- Classrooms
- A 5,800 square-foot assembly hall
- Kitchen and restrooms
- Physical fitness room and locker rooms
- Arms vault
- Vehicle maintenance training bays

Furthermore, the HVAC system included the installation of two cast iron sectional boilers, which serve a hot water distribution system. The hot water system is designed with redundancy to ensure operation of the facility. Cooling is provided to the building through the use of direct expansion refrigerant coils in the air-handling units, which also introduce the required level of outside ventilation air. Kitchen hoods were provided with ventilation, makeup air and required fire protection system.

The allocation for the building construction was estimated by the user and PA DGS at \$3,900,000. The low bids came in during the fourth quarter of 1997 at \$3,305,060.



**Construction Cost:**  
\$3,305,000

**Contracting Agency:**  
**PA Department of General Services**  
18th & Herr Streets  
Harrisburg, PA 17120

**EADS Project Manager:**  
**Gregory L. Elliott, RLA**

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# LATROBE ARMORY

## Westmoreland County, Pennsylvania

The Pennsylvania Department of General Services awarded contracts for construction of the new Latrobe National Guard Armory. The armory is located on the grounds of Torrance State Hospital in Derry Township, Westmoreland County.

EADS Architects prepared the architectural, site development and structural design. The EADS Group Building Systems department completed the mechanical and electrical design. EADS applied and secured an NPDES Permit for this project.

The design team worked closely with the issuing agency, the Department of Military and Veteran's affairs, to ensure that their goals were met and the project budget was maintained.

The new 29,000-square-foot facility was constructed with a brick veneer to compliment the adjacent state hospital complex of buildings.

Interior spaces included:

- Administration offices
- Classrooms
- A 5,800-square-foot assembly hall
- Kitchen
- Recruiting office
- Restrooms
- Physical fitness room
- Arms vault
- Vehicle maintenance training bays
- Locker rooms

Exterior features included:

- An 84-car bituminous parking lot
- Vehicle drop off area
- Vehicle wash platform and fuel dispensing system
- Military vehicle parking area
- Stormwater detention basin



**Construction Cost:**  
\$3,900,000

**Contracting Agency:**  
**Bureau of Facilities and Engineering**  
Utility Road,  
Fort Indiantown Gap  
Annville, PA 17003-5002

**EADS Project Manager:**  
**Gregory L. Elliott, RLA**

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# CHARLESTON ARMY RESERVE

## Charleston, West Virginia

This project was the design of a new 200 member U.S. Army Reserve Center to house the 3<sup>rd</sup> Brigade 80<sup>th</sup> Division Training Battalion. The building consists of administrative offices, classroom facilities, shops, locker rooms, rest rooms. The site development consists of parking areas, roadways, sidewalks, landscaping, fencing, secured areas, exterior lighting, and utilities. Special areas within the primary building involved a kitchen and cafeteria, an arms locker, and a battery room.

The Reserve Center was placed on a ridge top site at the rear of the Wal-Mart store. Access to the new facility utilized the existing entrance road from U.S. 119. Additionally, 850 feet of access road was designed to carry traffic smoothly through the commercial development and into the reserve center.

Although the government owned a total of 19 acres, only 6 acres were suitable for development. The remaining acreage consisted of very steep slopes, which presented a design challenge in meeting the space requirement of the reserve center. The project required a 32,180 square foot, two story building, and parking spaces for 136 cars. In addition to the access road, an additional 700 feet of roadway was designed within the site to provide circulation to the parking areas, building loading dock and the assembly hall.

There was no existing storm drainage on the reserve center site, but increases in stormwater runoff resulting from the development had to be conveyed to an existing stormwater detention basin. This basin had been designed by the commercial center developer to also include runoff from the reserve center site. Because this basin was 180 feet lower than the reserve center, the runoff had to be collected on site and conveyed to it by way of slope pipes and gabion level ditches. Due to the extreme existing ground slope, in some cases steeper than 2:1, the slope pipe was elevated above ground on concrete piers, anchored into the ground. This proved to be the most economical way to convey the stormwater, while preventing soil erosion on the steep slopes.

This project involved approximately 17,000 cubic yards of excavation and 3,100 cubic yards of embankment. A general National Pollution Discharge Elimination System (NPDES) permit was obtained from the West Virginia Department of Environmental Protection. The EADS Group prepared the application for the permit, which included storm drainage and stormwater management, calculation and erosion and sediment pollution control Best Management Practices (BMPs).



**Construction Cost:**  
\$4,984,000

**Contracting Agency:**  
**U.S. Army Corps of Engineers**  
**(COE), Baltimore District**  
10 South Howard Street  
Baltimore, MD 21201

**EADS Project Manager:**  
**Peter J. Folen**

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# GENEVA ECS/AMSA/MAINTENANCE GARAGE & WAREHOUSE

## Geneva, Pennsylvania

The EADS Group provided A/E services for the design of a U.S. Army Reserve Equipment Concentration Site (ECS) and Area Maintenance Support Activity (AMSA) facility on a 25-acre parcel of land located at the U.S. Army Reserve Keystone Training Area in Greenwood Township, Crawford County, PA. Included in the design were a 21,000 square foot vehicle maintenance garage and a 30,720 square foot warehouse building.

Approximately 9 acres of the area surrounding the buildings was designed for vehicle storage and circulation. Overall design included twelve low-bay and four high-bay overhead doors. Two overhead cranes with lift capacities of 5-10 tons were included in the high-bays for the mobilization of military vehicle engines. A vehicle wash platform, fuel dispensing system and two equipment loading ramps were located within this area which was paved with concrete and enclosed with a chain link fence. Staff parking was provided outside the fenced area. An access road was provided from the adjacent township road.

The project disturbed approximately 21 acres of land, including a 4-acre wetland mitigation site designed by our staff. Stormwater from the site was collected in inlets and ditches then conveyed to a stormwater detention basin for controlled release. The stormwater collection system was designed in accordance with local ordinances and PennDOT criteria. A National Pollution Discharge Elimination System (NPDES) permit was obtained prior to the construction of the project, and a Joint DEP/COE permit was required for the wetland mitigation.



**Construction Cost:**  
\$9,000,000

**Contracting Agency:**  
U.S. Army Corps of Engineers  
(COE), Baltimore District  
10 South Howard Street  
Baltimore, MD 21201

**EADS Project Manager:**  
Peter J. Folen

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# MEADVILLE RESERVE CENTER RENOVATIONS & EXPANSIONS

## Meadville, Pennsylvania

Expansions and modifications were required at the U.S. Army Reserve Center with OMS (Operational Maintenance Supply) at Meadville, Pennsylvania. The project consisted of a Training Building, 11,678 square feet, which included:

- Administrative areas
- Classrooms
- Assembly areas
- Complete kitchen facilities
- An arms vault
- A mechanical equipment room, storage and locker rooms
- Toilets and showers

The Shop Building, 2,470 square feet, consists of:

- Two work bays, shop offices
- Storage, and supply
- Locker rooms
- Repair rooms
- Tool and battery rooms

One of the work bays is equipped with a 5-ton overhead crane and a wash platform with an oil/water separator.

The EADS Group provided design of:

- HVAC systems
- Lighting systems
- Paved parking lots for privately owned and military vehicles
- Utilities and related facilities

A total of 12,294 square feet of an EPDM membrane roofing system was installed. Asbestos abatement was also performed on the existing buildings.



**Construction Cost:**  
\$1,600,000

**Contracting Agency:**  
**U.S. Army Corps of Engineers**  
**(COE), Baltimore District**  
10 South Howard Street  
Baltimore, MD 21201

**EADS Project Manager:**  
**Peter J. Folen**

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# ST. MARY'S RESERVE CENTER RENOVATIONS & EXPANSIONS

## St. Mary's, Pennsylvania

This project involved the renovation and expansion of the U.S. Army Reserve Center with OMS (Operational Maintenance Supply) at St. Mary's, Pennsylvania. The Training Building, 11,793 square feet, includes:

- Administrative areas
- Classrooms
- Assembly areas
- Complete kitchen facilities
- An arms vault
- A mechanical equipment room
- Storage and locker rooms
- Toilets and showers

The Shop Building, 2,470 square feet, consists of two work bays, shop offices, storage, supply, locker, repair, tool and battery rooms. One of the work bays is equipped with a 5-ton overhead crane and a wash platform with an oil/water separator.

The project also included HVAC systems, lighting systems, and paved parking lots for privately owned vehicles and military vehicles. Utilities and related facilities were provided, and a 12,400 square foot EPDM membrane roofing system was installed. Asbestos abatement was also performed on the existing buildings.

**Construction Cost:**  
\$1,500,000

**Contracting Agency:**  
**U.S. Army Corps of Engineers**  
(COE), Baltimore District  
Fort Indiantown Gap  
Baltimore, MD 21201

**EADS Project Manager:**  
**Peter J. Folen**

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# SEVEN SPRINGS RESORT SPORTING CLAYS LODGE AND TRILLIUM SPA

Somerset County, Pennsylvania

Since the early 1960's EADS has completed the design of numerous projects at Seven Springs Resort, including the new and larger ski lodge, convention center, a 10-story hotel addition containing 310 rooms, exhibit hall, a multi-story ski lodge at the base of the main two ski slopes, the wastewater treatment plant, bridges and parking lot designs. In 1996 the original swimming pool was demolished and EADS designed a new swimming pool building. EADS most recent projects at Seven Springs Resort are:

## Sporting Clays Lodge

The new 7,000 square foot sporting clays lodge facility will play host to a variety of tournaments, private lessons, corporate and non-profit events. The facility has a pro-shop and retail space, full service restaurant and private dining room, and **shower** and locker room facilities for both men and women. The mechanical/electrical room is located in the basement area of the building, as well as support storage areas. The 3,700 square foot outdoor deck, a large portion of which is under roof, overlooks the facilities lake. The building is heated and cooled using a geothermal system with 300 foot deep well, which are located under the parking lot. This complex will be LEED certified.

EADS Architects, Inc. was responsible for the architectural building and structural designs services. EADS also provided coordination with the timber truss fabricator, mechanical /electrical design firm, site design firm and interior designer.

## Trillium Spa

This project consisted of renovating an existing 6,200 building containing ten chalets into a new spa. A new 1,000 square feet addition was constructed to create a covered entry, vestibule, waiting area, retail area, and office space. The facility contains full spa amenities as well as a couples room, coed relaxation lounge and treatment rooms. There are separate men's and women's areas containing saunas, steam rooms, **showers** and locker rooms. The spa contains a separate area for manicures and pedicures. The heating and cooling is provided using a geothermal system with wells along the outside of the existing structure.

EADS Architects provided architectural and structural design services for the project and was also responsible for coordination of the other design disciplines involved in the project.



**Completion Date:**  
2009

**Construction Cost:**  
Sporting Clays Lodge:  
\$2,300,000  
Trillium Spa:  
\$1,300,000

**References:**  
**Seven Springs Resort**  
777 Water Wheel Drive  
Champion, PA 15622

Mr. Chris Marso  
814-352-7777

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# THREE WELCOME CENTERS

## Adams, Washington & Pike Counties, Pennsylvania

The EADS Group was involved in the design of three Welcome Centers across Pennsylvania for the Department of General Services.

Each Welcome Center required parking for 50 to 75 vehicles, exterior lighting, picnic areas, and Welcome Center building. Each building included **restroom facilities** and information center. We provided engineering for all site utilities, including sewage, water, electric, and telephone. The Washington County and Pike County sites required the design and construction of sewer and water line extensions to the project. The Adams County site design provides for a well and on-site sewage treatment plant.

In addition to design services, these projects required evaluation of environmental issues, such as wetlands, archaeological, and historical resources. We prepared a Categorical Exclusion Evaluation Report and a Joint Permit in accordance with PA DOT procedures to obtain all environmental clearances for each site.

During several Agency Coordination Meetings (ACM), these projects were presented in accordance with the most current ten (10)-step project development process. The projects were also presented to the Environmental Resource Committee (ERC) as part of the Joint Permit Application.

Coordination and communication played a crucial role in expediting the environmental clearance process. Constant coordination and communication among our offices, the Department of General Services and the Department of Transportation was accomplished through periodic project status reports, action plans, faxes, phone and modem interfaces. Using this communication strategy, each of the above (client and consultant) was able to correspond with the appropriate agency (i.e. PHMC, PA FBC, PA DEP, etc.) in a knowledgeable manner and without duplicating effort.

The Pennsylvania Department of Transportation is the operator of the Welcome Centers.



Adams County



Washington County



Pike County

### Construction Cost:

Washington & Pike:

\$7,636,000

Est. Construction Cost for

Adams: \$4,500,000

### References:

**PA Department of General  
Services**

18th & Herr Streets

Harrisburg, PA 17125

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# SENIOR CITIZEN CENTER FOR SOMERSET AREA AGENCY ON AGING

## Somerset County, Pennsylvania

Somerset County had outgrown its facility to serve the County's elderly. The Area Agency on Aging of Somerset County was functioned out of the former Somerset County Armory in Somerset PA. The facility could no longer adequately serve the elderly and the many programs that they were entitled to.

Somerset County turned to EADS Architects Inc. to design, bid, and provide construction services for a new facility. Programming for the new facility was completed with the Agency's Director,. From this programming, a design was arrived at that would satisfy the needs of Somerset County's elderly.

The new two-story facility, located on Edgewood Avenue in Somerset, PA, was constructed of steel and masonry framing with a brick veneer and gable main roof. The eight thousand nine hundred and sixteen square foot first floor housed the Agency's kitchen, dining area, meeting rooms, **restrooms**, elevator, mechanical rooms, and the County's "Meals on Wheels" staging area. The six thousand five hundred sixteen square foot second floor houses administrative offices, meeting rooms, employee lunchroom, file room, **restrooms**, and an elevator. The entire facility is handicap accessible.

The facility's construction was completed within the budget of Somerset County at \$1,392,477.60. Total square footage for both floors is 15,432. Total parking spaces on the site amount to 134. The entire parking area with driveways and storm water flow areas equates to approximately 925 square yards.



**Construction Cost:**  
\$1,392,477

**References:**  
**Somerset Area Agency On Aging**  
1338 S. Edgewood Avenue  
P.O. Box 1267  
Somerset, PA 15501

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# BEDFORD AREA SCHOOL DISTRICT CAPITAL FUNDS IMPROVEMENTS PROJECTS Bedford County, Pennsylvania

The Bedford Area School District has identified capital improvement projects in the buildings and athletic facilities at Bedford Area High School and Hyndman Middle/High School. EADS Architects, Inc. was commissioned to prepare a feasibility study to define alternatives, establish the scope of work for each project and prepare cost estimates.

The following items are the primary features that were addressed by EADS Architects, Inc. in order to facilitate the building and athletic facilities improvements:

- The feasibility and potential alternative solutions to the proposed capital improvements
- Existing deficiencies and required improvements to meet prevailing building codes, occupant safety standards and access for persons with disabilities
- Upgrades to the high school auditorium and gymnasium  
Improvements to the high school athletic facilities including a new combined concession stand, **restroom** and storage building; new ticket booth; new locker and **restroom facilities**; team shelters; press box; miscellaneous facilities improvements to baseball, softball, and football fields; improvements to practice fields; reorient various athletic fields; miscellaneous improvements to track and field events and improvements to tennis courts including pavement rehabilitation
- An opinion of probable construction costs to complete improvements and upgrade systems

## Capital Improvement Projects

### Bedford High School:

- Auditorium renovation
- Gymnasium floor restoration
- Football field press box and concession stand
- Track entrance building (**public restrooms**, locker rooms, concession stand, ticket booth)
- Track press box
- Ball field improvements (Back stop, fencing, dugouts and bleachers)
- Track field event facilities

### Hyndman High School Campus:

- Public **restrooms**
- Concession stand
- Locker room renovations



**Construction Cost:**  
\$2,314,000

### **References:**

**Bedford Area School District**  
330 East John Street  
Bedford, PA 15522

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# REFERENCES

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EADS list of references and contact information from recent contracts are listed below.

**1. County of Tioga**

Court House Annex  
118 Main Street  
Wellsboro, PA 16901

Mr. Marc Rice, Risk Manager  
570-723-8207

**2. Curry Realty**

3900 Industrial Park Drive  
Altoona, PA 16602

Mr. Ron McConnell  
814-944-6113

**3. County of Greene Chief Clerk's Office**

93 E. High Street, 3rd Floor  
Waynesburg, PA 15370

Mr. Jeffrey Marshall, Chief Clerk  
724-852-5210

**4. AMTRAN**

3301 Fifth Avenue  
Altoona, PA 16602

Mr. Eric Wolf, General Manager  
814-944-4074

# METHOD OF APPROACH

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EADS Architects, Inc., a division of The EADS Group, Inc., offers the following Professional Architectural and Engineering Services Method of Approach for the Army Aviation Support Facility #1 (AASF1) renovation project with the West Virginia National Guard Construction and Facilities Management Office (hereafter referred to as the Agency).

## **Planning and Preliminary Design Phase (35% Submittal)**

EADS Architects, Inc. will start the initial consultation with Agency in order to verify existing programmatic requirements and define project scope in order to proceed to the preliminary design of the component parts of the buildings. Consultations, Investigations and Design Activities will include.

1. **Program Planning**

EADS Architects, Inc. will meet with representatives of the Agency to discuss and itemize the project goals and objectives, secure existing building drawings and conduct field investigations and documentation of the existing AASF1 components and conditions. The Agency will be responsible to provide a complete inventory of personnel, furnishings and equipment proposed for the renovated facility.

2. **Preliminary Design**

Preliminary floor plans, details, schedules, and specification outline will be developed in accordance with the program goals and objectives. The Agency will review the preliminary design and recommend revisions and improvements to the plan. An opinion of probable construction costs will be provided with the submittal.

3. **Architectural and Structural Systems**

The Architectural design will focus on the limited renovation requirements of the AASF1, as proposed by the Agency, and will have an updated floor plan that will include shower-restroom details. The design will focus on code compliance, energy conservation features to improve building efficiency, and the requirements of ADA compliance.

4. **Interior Design**

Interior design for the AASF1 will include shower-restroom detailing. Floor coverings, wall finishes, ceiling systems, and shower-restroom partition systems will be selected for approval by the Agency.

5. **Mechanical, Electrical and Plumbing Systems**

Mechanical engineering requirements of the ventilation and exhaust systems for AASF1 will be determined. Plumbing systems for the AASF1 will include the domestic water, hot water, and sanitary waste. Electrical design will include lighting systems.

6. **Utility Assessment and Design**

The design team will coordinate with the utilities serving the showers-restrooms to locate existing utilities and develop modifications to accommodate the renovation project. All required drawings and specifications will be provided.



### **Pre-Final Design (65% Submittal) and Final Design (95% Submittal)**

The Pre-Final Design and Final Design for the renovation work in the AASF1 is the detailed description of the project in graphic and narrative format. The contract drawings, prepared in accordance with West Virginia National Guard Construction and Facilities Management Office requirements, will provide the details of the architectural, and mechanical, plumbing and electrical building systems including schedules, details and complete layouts. Technical specifications will describe the standard of quality for the renovation work. The contract documents will also include the bidding instructions, bid forms, contracts for construction and the terms and conditions for the conduct of the project. EADS Architects, Inc. will coordinate with the Agency to assure that all contract requirements of the Agency are included in the contract documents. An opinion of probable construction costs will be provided with each submittal.

### **Construction Documents Phase (100% Submittal)**

The complete set of bidding and construction documents will be submitted, including the contract drawings, technical specifications, general and supplemental contract conditions and documents, and bidding requirements and documents.

### **Bidding (30 days), Negotiation and Award (To be determined)**

EADS Architects, Inc. will assist, as desired by the Agency, with the bidding and award of the contracts for construction. The services which can be rendered are: a pre-bid conference (including preparation of meeting minutes), response to bidder's questions, preparation of clarifications and addenda, and review of bids and the qualifications of the bidders. Our project team can also provide assistance during the negotiation of contract amounts and facilitate the securing of contractor bonds and insurances.

### **Construction Phase (To be determined)**

EADS Architects, Inc. will assist, as desired by the Agency, during construction and can provide the following construction phase services:

- Coordinate and attend the pre-construction conference.
- Review and approval of shop drawings, product data and other specified contractor submittals
- Conduct job conferences in accordance with the progress of the work
- Provide general observation of the work
- Respond to contractor requests for information
- Address and process contractor change in work requests
- Review and approve contractor's applications for payment
- Conduct the substantial completion inspection and prepare written (punch) list of unsatisfactory or incomplete work
- Review as-built drawings prepared by contractors and incorporate into CAD
- Conduct final inspection and verify the completion of all project work
- Complete close-out of the construction contracts

# QUALITY MANAGEMENT PLAN

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EADS Architects, Inc. (EADS), a division of The EADS Group, Inc., offers the following Quality Control/Quality Assurance (QC/QA) Management Plan for the AASF1 renovation project with the West Virginia National Guard Construction and Facilities Management Office (hereafter referred to as the Agency).

Project quality control and management is essential for a successful project to be realized. The EADS Group's dedication to quality control has given rise to the development and implementation of a firm wide quality management system. In 2004, the firm received ISO 9001 certification. This certification provides evidence to customers/clients and their community of The EADS Group's commitment to producing a quality product/service, good planning and implementation, good resource management, efficient process control, measurement and analysis.

In accordance with The EADS Group/EADS Architects, Inc. Project Quality Control and Management Plan, James R. Stephen, AIA, will serve as the Project Manager & Project Architect. Peter J. Folen, Senior Projects Manager, will serve as the QC/QA Project Coordinator. Together, their duties and responsibilities will include:

- *Develop and implement the project-specific Quality Plan.*
- *Provide primary communication and coordination with the Agency project representatives.*
- *Project and process schedule and manpower allocation.*
- *Schedule, coordinate and attend project meetings. Our Technical Plan includes, at a minimum, a project orientation/initiation meeting, existing building conditions field view, additional field visits as required, renovation program verification meetings/conferences with Agency project representatives, design phase submission reviews, final design and construction documents review conference with the Agency project representatives, and assistance with bidding and construction as required.*
- *In-house project progress and design reviews.*
- *Energy conservation procedures and reviews.*
- *Construction cost control procedures and reviews.*
- *Documentation and reporting as required by the Quality Plan.*
- *Quality Assurance reviews.*

The Project Manager will assign project tasks, coordinate personnel efforts and establish delivery schedules of The EADS Group project team members and Agency representatives in general accordance with the project development. The QA/QC Project Coordinator will schedule and coordinate quality assurance reviews in accordance with the phased submittal procedures.

EADS management process, and our ISO 9001 Certification, assures clients that services performed is coordinated between design team disciplines and designated Agency representatives. It verifies the quality of the process and deliverables, maintains the project within established schedules and cost restrictions, and sets a strict adherence to a standard of care assuring our clients satisfaction is achieved on all EADS projects.