

**Architect & Engineering Services for the
West Virginia Army National Guard,
Buckhannon Readiness Center,
Upshur County, West Virginia
RFQ Number: DEFK9015**

**West Virginia Army National Guard
Department of Administration, Purchasing Division
Building 15, 2019 Washington Street, East
Charleston, WV 25305**

February 25, 2009



Mason & Hanger

A Day & Zimmermann Company

300 West Vine Street, Suite 1300
Lexington, KY 40507-1814
tel 859.252.9980 fax 859.389.8870
www.masonandhanger.com

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STATE OF WV



February 25, 2009

John Abbott
West Virginia Army National Guard
Department of Administration, Purchasing Division
Building 15, 2019 Washington Street, East
Charleston, WV 25305

Re: Architect & Engineering Services for the West Virginia Army National Guard, Buckhannon
Readiness Center, Upshur County, West Virginia
RFQ Number: DEFK9015

The Mason & Hanger Group Inc. is pleased to present our response to the request for Expression of Interest (EOI) for the above referenced project.

Mason & Hanger, with offices in Lexington, KY and Overland Park, KS, was founded in 1827. Our company is the oldest, continuously operating engineering and construction company in the United States. We provide the long-term reliability and stability our customers depend on, while also remaining on the cutting edge of technology in order to deliver quality, execution and performance that exceeds client expectations. Our company provides a full range of design and construction services for military facilities, infrastructure, and installation support on sites nationwide.

We offer the West Virginia National Guard a team with extensive experience and a track record in successfully executing design and construction of Readiness Centers, Armed Forces Reserve Centers for National Guard and Army Reserve, and Army, Air Force and Marine Reserve Centers.

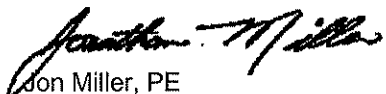
Mason & Hanger proposes to provide architectural, civil (support to Capitol Engineering), structural, mechanical, fire protection, and electrical engineering, landscape and interior design services from our Lexington, KY office for this new 39,000 SF Readiness Center. Our team also includes Capitol Engineering, Inc. of Charleston, WV, a local firm we have enjoyed working successfully with on the Readiness Center at Camp Dawson, Kingwood, WV. Capitol Engineering, Inc. will provide civil engineering and surveying services in support of the new facility.

We look forward to the opportunity to continue our relationship with the West Virginia Army National Guard to ensure the successful completion of the Readiness Center project at Buckhannon, WV on schedule, and within budget.

Please do not hesitate to contact me if you have any questions or need additional information.

Very truly yours,

MASON & HANGER


Jon Miller, PE
Director of Project Management
Lexington office

Enclosure



Mason & Hanger

A Day & Zimmermann Company

Overview / Relevant Experience

Mason & Hanger provides full discipline, single-source architectural, engineering, construction, and design/build services in support of the nation's armed forces. Our personnel have an in-depth understanding of the facility requirements necessary to support the rotational training of troops conducted by the National Guard through our 15 years of designing facilities for the National Guard and the Reserves.

M&H's experience has included 75+ projects with over \$625M in construction costs over the last 15 years:

- 56 Training Centers (includes Maintenance Shops and Unheated Storage facilities)
- 20 Miscellaneous facilities and infrastructure projects to include: aviation, secure intelligence centers, security operations centers, firing ranges, and conference centers.



Our full discipline in-house A/E capabilities, leadership in innovative design and construction, and outstanding partnership with our clients have been keys to the success of our projects over the past decade.

M&H has provided an array of services supporting the National Guard and Reserve Program including:

- Site Investigations, Studies, and Strawman Development
- Design Guide Updates
- Charrettes
- D/B RFPs, Concept Designs, and 100% A/E Designs
- Design/Build and Construction
- Construction Administration Services

Tools: Building Information Modeling (BIM) / 3D Design and Innovative Construction

- Experience providing BIM for National Guard / Reserve Component facilities
- Recent innovative construction experience includes composite tilt-up, pre-cast, modular, and pre-engineered

Locations

300 West Vine Street, Suite 1300
Lexington, KY 40507
859.252.9980

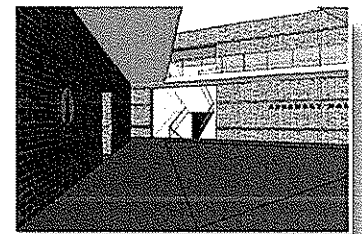
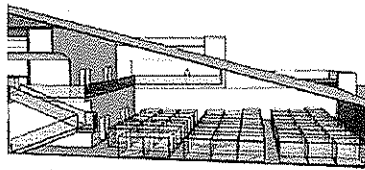
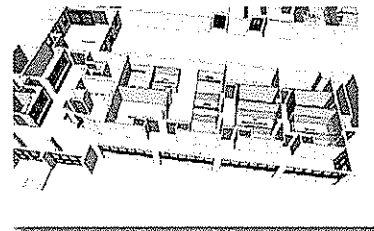
7270 West 162nd Street
Overland Park, KS 66085
913.681.2323

Full Discipline A/E Expertise

We have 85 personnel in our Lexington, KY office with all of the required disciplines in-house and specialized expertise to support the design of this new 39,000 SF armory. Our in-house design expertise includes:

- Full Discipline Design: Architecture, Mechanical, Electrical, Civil and Structural Engineering
- Specialties: Interior Design, Landscape Architecture, Fire Protection, AT/FP, Blast Design, Architectural Illustrations, 3D Design
- Sustainable Design / LEED, Hazards Analyses

Examples of our recent 3D concepts include:



CEI Overview

Capitol Engineering is a locally owned consulting engineering firm founded in 1999. CEI has steadily grown since its inception with three employees. CEI possesses in-house services in civil, environmental and mining engineering, contract administration, and surveying and mapping. Our staff is made up of two Professional Engineers, a Professional Surveyor, Project Engineers and Scientists, CAD Operators, Technicians, and administrative personnel. Our client base is comprised of contractors, architects, engineers, developers, private industry, and federal and state agencies. A complete list of services is as follows:

Civil Engineering

*Geotechnical Engineering
Project Management
Rail Siding Design
Roadway Design
Site Development & Grading Plans
Siting Studies
Slope Stability Analysis
Stormwater Systems
Wastewater Treatment Systems*

Environmental Engineering

*Environmental Due Diligence
Environmental Site Reviews
Erosion & Sedimentation Control
NPDES, GPCC, SPCC Plans
Solid Waste & Landfill Design
Stormwater Management Plans*

Construction Administration

*Bid Analysis & Management
Construction Observation
Damage Settlement
Submittal Review*

Surveying & Mapping

*Control Surveys
Floodplain Studies
GPS Surveys
Mineral Reserve Surveys
Planimetric Surveys
Quantity Determination Surveys
River & Lake Soundings
Topographic Survey*

Mining Engineering

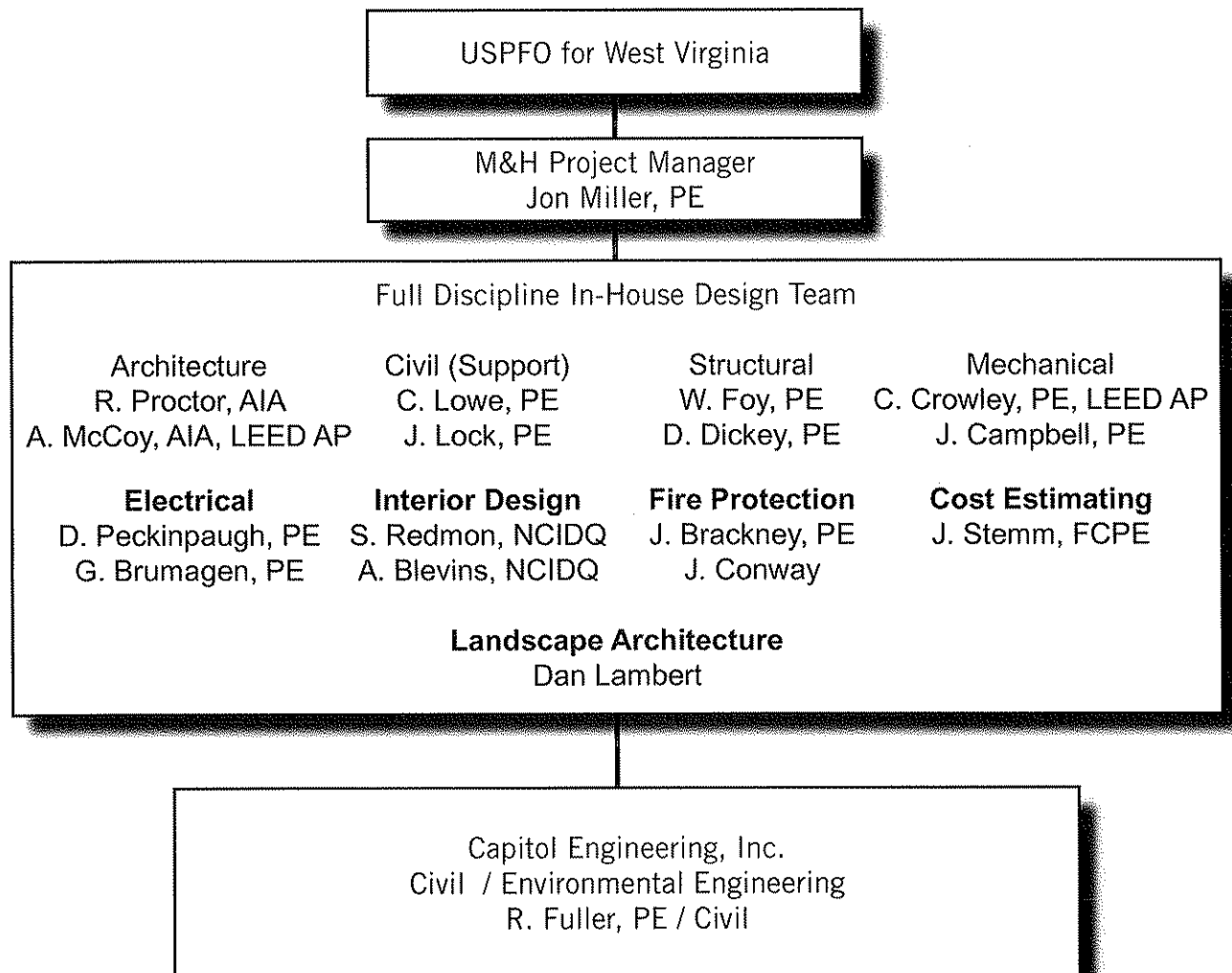
*Abandoned Mine Land Reclamation
Acid Mine Drainage Passive Treatment
Geologic & Hydrologic Evaluations
Mine-Related Subsidence Investigations
Mining Permits, Modifications, & IBR's
Reclamation Liability Audits
Surface Mine Surveying & Mapping*



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The Mason & Hanger team will work closely with the West Virginia National Guard to develop a well planned, functional, and cost effective facility that the troops can take pride in while receiving the most advanced training possible.



The following resumes for the M&H Team shows the required professionally qualified personnel with extensive experience providing A/E services for training, administrative, maintenance shops, support equipment maintenance shops, and storage facilities. Resumes are also included for our team member, Capitol Engineering, Inc.



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Jon Miller, PE — Project Manager
Education: BS/Electrical Engineering/1987
Registration: Professional Engineer/1992

Mr. Miller has over 13 Years Experience with National Guard & Reserves projects and has provided Project Management for 45+ National Guard and/or Reserve Projects (training centers, vehicle maintenance, unheated storage, HQ, security centers, ranges, hangars, airfield infrastructure, piers/seawalls) across the U.S.

Additional Training / Certification:

3-Day National Charrette Institute Dynamic Planning Training, October 2007
Member of Kentuckiana SAME Post
Registered with ProjNet/DrChecks
1-Day COE A/E Quality Expectations Seminar
1-Day COE Project Manager's Training (8 PDH's)
3-Day Project Manager's Training Seminar, PSMJ
S.A.V.E. - Approved Value Engineering Training

Relevant Project Experience

Readiness Center, Kingwood, WV
Aviation Readiness Transformation Center / Project Planning Charrette, Windsor Locks, CT
Charrette / National Guard Armory, Morgantown, WV
Charrette / National Guard Armory, Moorefield, WV
Armed Forces Reserve Center, Kingsville, TX
Armed Forces Regional Readiness Support Command Headquarters, Ft. Dix, NJ
Armed Forces Reserve Center, Vance AFB, OK
Armed Forces Reserve Center and Field Maintenance Shop, Richmond, KY
Armed Forces Reserve Center, Ft. Benning, GA
Armed Forces Reserve Center, San Antonio, TX
101st Airborne Assault Division Command and Control Headquarters, Ft. Campbell, KY
Air Force Reserve Security Forces Operations Center, Seymour Johnson AFB, NC
Alteration / Addition of Existing U.S. Armed Forces Reserve Center and Design of New US Army Reserve Center, Ft. Carson, CO
Construction Services for Shop Drawing Review and Site Visits, Ft. Carson, CO
Army Reserve High Tech Regional Training Site (RTS) - Maintenance Facilities, Sacramento, CA
Construction Services, High Tech RTS, Sacramento, CA
U.S. Armed Forces Reserve Center, Tuscaloosa, AL
Consolidated Maintenance Facility, Niagara Falls, NY
Consolidated Training Facility, Niagara Falls, NY

Add / Alter U.S. Army Reserve Center, Caven Point, NJ
Armed Forces Reserve Center, OMS / AMSA and Unit Storage Building, Ayer, MA
Armed Forces Reserve Center, OMS / AMSA and Unit Storage Building, Westover ARB, MA
Joint Services Command & Control Headquarters, Lima, OH
U.S. Armed Forces Reserve Center, Whitehall, OH
U.S. Army Reserve Center/Storage, Ft. Hunter Liggett, CA
U.S. Marine Corps Reserve Center / OMS, Grissom ARB, IN
Joint Intelligence Training Facility, Ft. Sheridan, IL
U.S. Army Reserve Center, Ft. Campbell, KY
Munitions Maintenance, Training and Storage Complex, Montgomery, AL
National Guard Armories, Leitchfield, KY
Organizational Maintenance Shop & Marine Area Maintenance Support Activity Facility, Vallejo, CA
Organizational Maintenance Shop and Area Maintenance Support Activity, Hooks, TX
Repair of Security Police Squadron, ARS, Vienna, OH
Armed Forces Reserve Center, San Antonio, TX
U.S. Armed Forces Reserve Center, Manchester, NH
U.S. Armed Forces Reserve Center / Organizational Maintenance Shop, West Hartford, CT
U.S. Armed Forces Reserve Training Center, New Orleans, LA
U.S. Army Reserve Center, Houston, TX
U.S. Army Reserve Center / AMSA / OMS / Unheated Storage, Omaha, NE
U.S. Army Reserve Center / OMS, Saginaw, MI
U.S. Army Reserve Center / OMS, Ft. Meade, MD
U.S. Army Reserve Center / OMS, Ft. Ontario, NY
U.S. Army Reserve Center / OMS / Storage, Ft. Story, VA
Construction Services / U.S. Army Reserve Center, Ft. Story, VA
U.S. Army Reserve Center / OMS / Storage, Wausau, WI
U.S. Army Reserve Center / OMS / UHS, Ft. Meade, MD
U.S. Army Reserve Center / OMS / UHS, Chattanooga, TN
U.S. Army Reserve Center / OMS / UHS, Las Vegas, NV
U.S. Army Reserve Center / OMS / Storage, Bellefonte, PA



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Rodney Proctor, AIA — Architect
Education: B-ARCH/Architecture/1991
Registration: Registered Architect / NCARB /1997

Mr. Proctor has over 20 years experience and 10 with National Guard & Reserves projects including architectural design for 45+ National Guard and/or Reserve Projects. His designs reflect the functionality required to support the rotational training of troops while providing an aesthetically pleasing facility to blend with the existing community.

Additional Training / Certification:

3-Day National Charrette Institute Dynamic Planning Training,
October 2007
2006 International Building Code Workshop, AIA KY
Registered with ProjNet/DrChecks
Member: Roofs Consultants Institute
Green Buildings/Leadership in Energy & Environmental Design

Relevant Project Experience

Readiness Center, Kingwood, WV
Project Planning Charrette Document, National Guard Armory,
Morgantown, WV / \$15,417,000
Project Planning Charrette Document, National Guard Armory,
Moorefield, WV / \$13,476,000
Air Force Reserve Security Forces Operations Center, Seymour
Johnson AFB, NC
Alteration / Addition of Existing U.S. Armed Forces Reserve
Center and Design of New US Army
Reserve Center, Ft. Carson, CO
Construction Services for Shop Drawing Review and Site Visits,
Ft. Carson, CO
Army Reserve High Tech Regional Training Site (RTS) -
Maintenance Facilities, Sacramento, CA
Aviation Readiness Transformation Center / Project Planning
Charrette, Windsor Locks, CT
Charrette / National Guard Armories, Paducah/Blue Grass Army
Depot, KY
D/B New Century U.S. Army Reserve Center, Gardner, KS
Add / Alter U.S. Army Reserve Center, Caven Point, NJ
Armed Forces Regional Readiness Support Command
Headquarters, Ft. Dix, NJ
Armed Forces Reserve Center, Vance AFB, OK
Armed Forces Reserve Center, OMS / AMSA and Unit Storage
Building, Ayer, MA
Joint Services Command & Control Headquarters, Lima, OH
U.S. Armed Forces Reserve Center, Whitehall, OH

U.S. Army Reserve Center / Unheated Storage, Ft. Hunter Liggett,
CA
U.S. Marine Corps Reserve Center / OMS, Grissom ARB, IN
Full Facility Restoration for Maus-Warfield U.S. Army Reserve
Center, Rockville, MD
Organizational Maintenance Shop & Marine Area Maintenance
Support Activity Facility, Vallejo, CA
Organizational Maintenance Shop and Area Maintenance Support
Activity, Hooks, TX
Renovate Regional Support Command Headquarters, Devens, MA
Revitalization of U.S. Army Reserve Center, Ft. Totten, NY
Security Forces Squadron Training Facility, Buckley AFB, CO
U.S. Armed Forces Reserve Center / Organizational Maintenance
Shop, West Hartford, CT
U.S. Army Reserve Center / AMSA / OMS / Unheated Storage,
Omaha, NE
U.S. Army Reserve Center / OMS, Saginaw, MI
U.S. Army Reserve Center / OMS, Ft. Ontario, NY
U.S. Army Reserve Center / OMS, Ft. Meade, MD
U.S. Army Reserve Center / OMS / Storage, Ft. Story, VA
U.S. Army Reserve Center / OMS / Storage, Wausau, WI
U.S. Army Reserve Center / OMS / UHS, Las Vegas, NV
U.S. Army Reserve Center / OMS / UHS, Ft. Meade, MD
U.S. Army Reserve Center / OMS / Unheated Storage, Bellefonte,
PA
U.S. Army Reserve Center and Aviation Support Facility,
Clearwater, FL
U.S. Army Reserve Center/Organizational Maintenance Shop,
Direct Support Maintenance, Ft.
Gillem, GA



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Aasiya McCoy, AIA — Architect

Education: B-ARCH/Architecture/1993

Registration: Registered Architect 2002 / NCARB /2003

Ms. McCoy has over 10 years experience with National Guard & Reserves projects and has provided architectural design for numerous National Guard and/or Reserve Projects. Her designs reflect careful planning and coordination to provide the troops with a functional and aesthetically pleasing facility to blend with the existing community.

Additional Training / Certification:

3-Day National Charrette Institute Dynamic Planning Training, October 2007

2-Day Bentley Institute 3D Building Design and BIM Training, Architecture, May 2007

2006 International Building Code Workshop, AIA KY

AT/FP Conference (1.0 CEU), March 2003

LEED Accredited Professional, USGBC, 2002

Relevant Project Experience

101st Airborne Assault Division Command and Control Headquarters, Ft. Campbell, KY

Air Force Reserve Security Forces Operations Center, Seymour Johnson AFB, NC

Air Support Operations Squadron (ASOS), Ft. Knox, KY

Air Support Operations Squadron (ASOS) and Weather Facility, Ft. Bliss, TX

Close Combat Tactical Trainer (CCTT), Ft. Bliss, TX

Combined Arms Collective Training Facility (CACTF), Ft. A.P. Hill, VA

Customer Concept Document (CCD) Development for Air Support Operations Squadron, Ft. Hood, TX

Customer Concept Document (CCD) Development for Air Support Operations Squadron, Ft. Drum, NY

Customer Concept Document (CCD) for Air Support Operations Squadron (ASOS), Ft. Carson, CO

D/B New Century U.S. Army Reserve Center, Gardner, KS

Tactical Equipment Maintenance Facility, Ft. Campbell, KY

Armed Forces Reserve Center and Field Maintenance Shop, Richmond, KY

Armed Forces Reserve Center, OMS / AMSA and Unit Storage Building, Ayer, MA

Armed Forces Reserve Center, OMS / AMSA and Unit Storage Building, Westover ARB, MA

Joint Services Command & Control Headquarters, Lima, OH

U.S. Army Reserve Center Revitalization, Lakeland, FL

D/B Vehicle Maintenance Facility & Company Operations Facility, Forward Support Battalion, Ft. Stewart, GA

FBI / DOD Hazardous Devices & Weapons of Mass Destruction

(WMD) Training Center & Urban Range, Huntsville, AL

Renovation of Command Headquarters / Administration Building (B3700), Albany, GA

Revitalization of Patton U.S. Army Reserve Center, Bell, CA

Training Support Center (TSC), Ft. Bliss, TX

U.S. Army Reserve Center / OMS / UHS, Las Vegas, NV

U.S. Army Reserve Center/Organizational Maintenance Shop,

Direct Support Maintenance, Ft. Gillem, GA

ROBERT M. FULLER, P.E.
Principal, Capitol Engineering, Inc.

QUALIFICATIONS

Project Manager with fifteen (15) years of experience with site investigation, planning, design and contract administration services on military, site development and mine reclamation projects. Mr. Fuller has been fully responsible technically, managerially and administratively for the planning, investigation, design and contract document preparation for over fifty (50) projects in the State of West Virginia. Mr. Fuller has served as Associate Professor of Civil Engineering Technology at West Virginia University Institute of Technology on a full-time, part-time and adjunct basis.

CERTIFICATIONS

Registered Professional Engineer – WV, PA, OH
OSHA 40-Hour Health and Safety Training
OSHA Supervisor Training

EDUCATIONAL BACKGROUND

M.S. Engineering, Marshall University Graduate College, 1997
B.S. Engineering Technology, West Virginia Institute of Technology, 1989

PROFESSIONAL EXPERIENCE

Mr. Fuller was principal or project manager for the following West Virginia Army National Guard Projects completed by Capitol Engineering, Inc..

- Joint Interagency Training and Education Center
- Ripley Armed Forces Reserve Center
- Elkins Armed Forces Reserve Center
- Fairmont Armed Forces Reserve Center
- Morgantown Readiness Center
- Kingwood Readiness Center
- Glen Jean Armed Forces Reserve Center
- Summersville Readiness Center
- Lewisburg Readiness Center
- AASF #1 Apron Expansion/Rehabilitation and Taxiway Replacement
- Camp Dawson Runway Extension
- AASF #1 Taxiway Repair
- Camp Dawson Range Renovations
- Williamson Armory Wash Pad and Military Parking
- Camp Dawson Fuel Canopies
- Engineering consultant for the Center for National Response
- Logan County Feasibility Study
- Mingo-Logan Siting Study
- Camp Dawson Chalets Evaluation
- Camp Dawson Rappelling Tower Evaluation
- Ross Property Conceptual Site Layout
- Eleanor AFRC & CSMS Utility Location and Property Staking
- Camp Dawson Qualification Training Range Preliminary Design Drawings
- AASF #1 Lease Boundary Determination and Marking
- Eleanor CHP Rail Spur Layout
- JISOTF Initial Planning Study

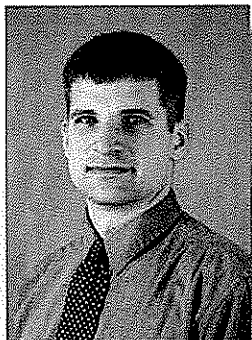
PROFESSIONAL AFFILIATIONS

Society of American Military Engineers
American Society of Civil Engineers
American Institute of Architects
Construction Specifications Institute



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Chris Lowe, PE — Civil Engineer

Education: BS / Civil Engineering / 1998

Registration: Professional Engineer / 2004 year

Mr. Lowe has over 12 years experience and seven with National Guard & Reserves projects and has experience with utility layout, paving, sidewalks, landscape, earthwork, grading and drainage, sediment and erosion control, fencing, AT/FP, MEP and POV parking, storm drainage, site water, sewer, and gas, and site fire protection.

Additional Training / Certification:

3-Day National Charrette Institute Dynamic Planning Training,
October 2007

Registered with ProjNet/DrChecks
Airfield Paving Seminar, USACE

Relevant Project Experience

Armed Forces Reserve Center, OMS / AMSA and Unit Storage
Building, Ayer, MA

Armed Forces Reserve Center, Whitehall, OH

U.S. Army Reserve Center / Unheated Storage, Ft. Hunter Liggett,
CA

Security Forces Squadron Training Facility, Buckley AFB, CO

U.S. Army Reserve Center / OMS / Storage, Wausau, WI

Air Traffic Control Tower and Radar Air Traffic Control Facility, Ft.
Worth, TX

Training Area Infrastructure Projects, Ft. Benning, GA

Access Road to Good Hope Maneuver Area, Ft. Benning, GA

Combat Pistol/ MP Qualification, Ft. Hunter Liggett, CA

Construction Services, ISBC, Camp Roberts, CA

Convoy Live Fire Range, Ft. Hunter-Liggett, CA

Convoy Live Fire Range, Ft. Bliss, TX

Engineering Services Facility, Cape Canaveral, FL

Joint Ordnance Engineering & Logistics Facility, Crane, IN

Main Entry Gate, Beaufort, SC

Digital Multipurpose Training Range, Ft. Indiantown Gap, PA

Fire & Movement Range, Ft. Benning, GA

Infantry Platoon Battle Course, Camp Roberts, CA

Infantry Squad Battle Course, Camp Roberts, CA

Infrastructure Upgrades, Ft. Hunter Liggett, CA

Joint Use Small Arms Range, Minneapolis-St. Paul IAP ARS, MN

Modified Record Fire Range, Ft. Benning, GA

Multipurpose Scout Qualification Range, Ft. Hood, TX

Range Control Facility, Ft. Hunter-Liggett, CA

Replace Water & Gas Lines West of Weed Street, Albany, GA

Shop Drawing Review, Urban Assault Course, Ft. Devens, MA

SOF Ground Mobility Maintenance Facility Addition, Virginia
Beach, VA

SOF High Explosives Magazines, Virginia Beach, VA

Urban Assault Course, Devens, MA

Urban Assault Course, Camp Roberts, CA

Urban Assault Course, Ft. Bliss, TX

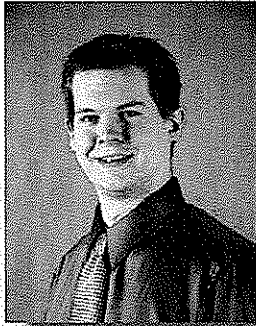
Urban Assault Course, Ft. Hunter Liggett, CA

Whole Neighborhood Revitalization, Ft. Riley, KS



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Jared Lock, PE — Civil Engineer
Education: BS/Civil Engineering/2001
Registration: Professional Engineer / 2007

Mr. Lock has over 10 years experience and seven with National Guard & Reserves projects and has experience with coordination of site utility consultants, site design including layout, demolition, paving, sidewalks, earthwork, fencing, AT/FP, MEP and POV parking lots, site water, sewer, and gas, and site fire protection.

Additional Training / Certification:

3-Day National Charrette Institute Dynamic Planning Training,
October 2007
Project Time & Cost, Inc.; MCACES, 2nd Generation (MII) Basic
Training, December 2006
Registered with ProjNet/DrChecks
Airfield Paving Seminar, COE Transportation Sys. Ctr.

Relevant Project Experience

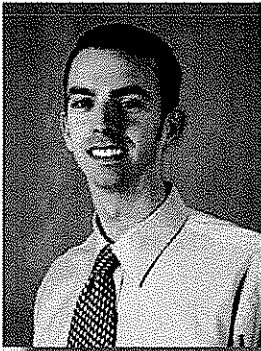
101st Airborne Assault Division Command and Control
Headquarters, Ft. Campbell, KY
Air Support Operations Squadron (ASOS) and Weather Facility,
Ft. Bliss, TX
Alteration / Addition of Existing U.S. Armed Forces Reserve
Center and Design of New US Army Reserve Center, Ft.
Carson, CO
Army Reserve High Tech Regional Training Site (RTS) -
Maintenance Facilities, Sacramento, CA
Customer Concept Document (CCD) Development for Air Support
Operations Squadron, Ft. Drum, NY
Customer Concept Document (CCD) Development for Air Support
Operations Squadron, Ft. Hood, TX
Armed Forces Regional Readiness Support Command
Headquarters, Ft. Dix, NJ
Armed Forces Reserve Center, Vance AFB, OK
Armed Forces Reserve Center, OMS / AMSA and Unit Storage
Building, Westover ARB, MA
Joint Services Command & Control Headquarters, Lima, OH
U.S. Armed Forces Reserve Center, Whitehall, OH
D/B Vehicle Maintenance Facility & Company Operations Facility,
Forward Support Battalion, Ft. Stewart, GA
FBI / DOD Hazardous Devices & Weapons of Mass Destruction
(WMD) Training Center & Urban Range, Huntsville, AL
Organizational Maintenance Shop & Marine Area Maintenance
Support Activity Facility, Vallejo, CA
Security Forces Squadron Training Facility, Buckley AFB, CO

U.S. Army Reserve Center / AMSA / OMS / Unheated Storage,
Omaha, NE
U.S. Army Reserve Center / OMS, Ft. Meade, MD
U.S. Army Reserve Center / OMS, Ft. Ontario, NY
U.S. Army Reserve Center / OMS / Storage, Ft. Story, VA
U.S. Army Reserve Center / OMS / UHS, Las Vegas, NV
U.S. Army Reserve Center / OMS / Unheated Storage, Bellefonte,
PA
U.S. Army Reserve Center and Aviation Support Facility,
Clearwater, FL
U.S. Army Reserve Center/Organizational Maintenance Shop,
Direct Support Maintenance, Ft. Gillem, GA



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David Dickey, PE — Structural Engineer / AT/FP
Education: MS / Structural Engineering / 2000
Registration: Professional Engineer / 2004

Mr. Dickey has over 10 years experience and over seven with National Guard & Reserves projects and has experience with complex building foundations and assessments of excavation adjacent to foundations and structural designs to withstand dynamic loadings such as seismic, high wind and blast (explosion) phenomena in accordance with the latest version of TM5-1300, DOD 6055.9. **Mr. Dickey is currently the PM for the Construction Services for the Readiness Center at Camp Dawson, WV (Kingwood).**

Additional Training / Certification:

10-Day Blast Resistant Structural Design Course, Protective Design Center, Omaha District USACE, 2008
3-Day National Charrette Institute Dynamic Planning Training, October 2007
2-Day Bentley Institute 3D Building Design and BIM Training, Structural, May 2007
Project Time & Cost, Inc.; MCACES, 2nd Generation (MII) Basic Training, December 2006
32nd Explosives Safety Seminar, DDESB; 2006
Registered with ProjNet/DrChecks
Explosion Effects and Structural Design for Blast (Security), Baltimore, MD, sponsored by NCERD

U.S. Army Reserve Center / OMS, Ft. Ontario, NY
U.S. Army Reserve Center / OMS / Storage, Ft. Story, VA
U.S. Army Reserve Center and Aviation Support Facility, Clearwater, FL
U.S. Army Reserve Center/Organizational Maintenance Shop, Direct Support Maintenance, Ft. Gillem, GA
Weapons Release Shop, Fuel Cell Hangar and Engine Trim Pad, Moody AFB, GA

Relevant Project Experience

Readiness Center, Kingwood, WV
Construction Services for Readiness Center, Kingwood, WV
101st Airborne Assault Division Command and Control Headquarters, Ft. Campbell, KY
Air Force Reserve Security Forces Operations Center, Seymour Johnson AFB, NC
Add / Alter U.S. Army Reserve Center, Caven Point, NJ
Joint Services Command & Control Headquarters, Lima, OH
U.S. Armed Forces Reserve Center, Whitehall, OH
FBI / DOD Hazardous Devices & Weapons of Mass Destruction (WMD) Training Center & Urban Range, Huntsville, AL
Organizational Maintenance Shop & Marine Area Maintenance Support Activity Facility, Vallejo, CA
Organizational Maintenance Shop and Area Maintenance Support Activity, Hooks, TX
Renovate Regional Support Command Headquarters, Devens, MA
Squadron Ops; Weapons Release Shop; Munitions Maintenance, Flight Simulator, Ft. Worth, TX
U.S. Army Reserve Center / AMSA / OMS / Unheated Storage, Omaha, NE
U.S. Army Reserve Center / OMS, Saginaw, MI



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Warren Foy, PE — Structural Engineer

Education: BS / Civil Engineering - Structural Emphasis / 1988

Registration: Professional Engineer / 1993

Mr. Foy has over 29 years experience and 20 with National Guard & Reserves projects and has experience with training facilities, administrative, maintenance and installation support facilities, AT/FP and security design elements including blast hardened facilities and rapid response facilities, Natural Phenomena (Wind & Seismic) Hazards Evaluations and Seismic Design Criteria TM 809-4 based on FEMA 302.

Additional Training / Certification:

3-Day National Charrette Institute Dynamic Planning Training
2-Day Bentley Institute 3D Building Design and BIM Training
Project Time & Cost, Inc.; MCACES, 2nd Generation (MII) Basic Training

Project Managers Bootcamp, PSMJ Resources
Registered with Dr. Checks

Force Protection Courses, Part 1 through 4

- DoD Minimum Antiterrorism Standards for Buildings, (UFC 4-010-01)
- "A Puzzling State: Balancing Security Concerns with Practical Applications"
- Water System Vulnerability Assessments & Protection
- Chemical/Biological/Radiological Weapons Protection
- Assessments of Buildings and Site Improvements to Include Barrier Design and Layout
- Structural Hardening of Facilities for Explosive Effects
- Glazing Design for Force Protection
- Blast Loads on Structures

National SAME Symposium: Comprehensive Force Protection
Advances in Structural Steel Design Course

Relevant Project Experience

Readiness Center, Kingwood, WV

Alteration / Addition of Existing U.S. Armed Forces Reserve Center and Design of New US Army Reserve Center, Ft. Carson, CO

Army Reserve High Tech Regional Training Site (RTS) - Maintenance Facilities, Sacramento, CA

Aviation Readiness Transformation Center / Project Planning Charrette, Windsor Locks, CT

Consolidated Training Facility, Niagara Falls, NY

Construction Documents, Munitions Maintenance and Storage Complex, Montgomery, AL

Add / Alter U.S. Army Reserve Center, Caven Point, NJ

Armed Forces Reserve Center, Vance AFB, OK

U.S. Army Reserve Center / Unheated Storage, Ft. Hunter Liggett, CA

U.S. Marine Corps Reserve Center / OMS, Grissom ARB, IN
Joint Intelligence Training Facility, Ft. Sheridan, IL

Munitions Maintenance, Training and Storage Complex, Montgomery, AL

Organizational Maintenance Shop & Marine Area Maintenance Support Activity Facility, Vallejo, CA

Organizational Maintenance Shop and Area Maintenance Support Activity, Hooks, TX

Security Forces Squadron Training Facility, Buckley AFB, CO

U.S. Armed Forces Reserve Center, Manchester, NH

U.S. Armed Forces Reserve Center / Organizational Maintenance Shop, West Hartford, CT

U.S. Armed Forces Reserve Training Center, New Orleans, LA

U.S. Army Reserve Center / AMSA / OMS / Unheated Storage, Omaha, NE

U.S. Army Reserve Center / OMS, Ft. Ontario, NY

U.S. Army Reserve Center / OMS, Saginaw, MI

U.S. Army Reserve Center / OMS, Ft. Meade, MD

U.S. Army Reserve Center / OMS / Storage, Ft. Story, VA

U.S. Army Reserve Center / OMS / Storage, Wausau, WI

U.S. Army Reserve Center / OMS / UHS, Ft. Meade, MD

U.S. Army Reserve Center / OMS / Unheated Storage, Bellefonte, PA

U.S. Army Reserve Center and Aviation Support Facility, Clearwater, FL

U.S. Army Reserve Center/Organizational Maintenance Shop, Direct Support Maintenance, Ft. Gillem, GA



Mason & Hanger

A Day & Zimmermann Company

Cathy Crowley, PE — Mechanical Engineer
Education: BS/Mechanical Engineering/1989
Registration: Professional Engineer / 1997

Ms. Crowley has over 19 years experience and eight with National Guard & Reserves projects and has experience with HVAC, other mechanical system design and energy / life cycle cost analysis, control system design and integration, commissioning, and specification preparation and cost estimating.

Additional Training / Certification:

LEED and ASHRAE 91, Lexington, KY
Trane / Trace 700 Seminar, LaCrosse, WI
Sustainable Design Conference, Lexington
1-Day Bentley Institute 3D Building Design and BIM Training
Project Time & Cost, Inc.; MCACES, 2nd Generation (MII) Basic Training
LEED Accredited Professional, U.S. Green Building Council, 2005

Relevant Project Experience

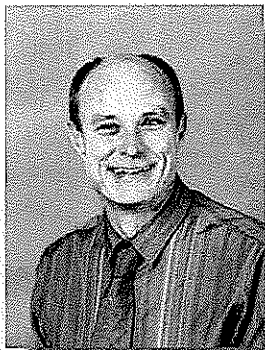
Readiness Center, Kingwood, WV
Project Planning Charrette Document, National Guard Armory, Morgantown, WV
Project Planning Charrette Document, National Guard Armory, Moorefield, WV
101st Airborne Assault Division Command and Control Headquarters, Ft. Campbell, KY
Air Force Reserve Security Forces Operations Center, Seymour Johnson AFB, NC
Alteration / Addition of Existing U.S. Armed Forces Reserve Center and Design of New US Army Reserve Center, Ft. Carson, CO
Army Reserve High Tech Regional Training Site (RTS) - Maintenance Facilities, Sacramento, CA
Aviation Readiness Transformation Center / Project Planning Charrette, Windsor Locks, CT
Customer Concept Document (CCD) Development for Air Support Operations Squadron, Ft. Drum, NY
Customer Concept Document (CCD) Development for Air Support Operations Squadron, Ft. Hood, TX
D/B New Century U.S. Army Reserve Center, Gardner, KS
Tactical Equipment Maintenance Facility, Ft. Campbell, KY
Armed Forces Regional Readiness Support Command Headquarters, Ft. Dix, NJ
Armed Forces Reserve Center, Vance AFB, OK
Armed Forces Reserve Center, OMS / AMSA and Unit Storage Building, Ayer, MA
Armed Forces Reserve Center, OMS / AMSA and Unit Storage Building, Westover ARB, MA

Joint Services Command & Control Headquarters, Lima, OH
Tactical Unmanned Aerial Vehicle (TUAV) Facility, Ft. Campbell, KY
U.S. Armed Forces Reserve Center, Whitehall, OH
U.S. Army Reserve Center / Unheated Storage, Ft. Hunter Liggett, CA
U.S. Marine Corps Reserve Center / OMS, Grissom ARB, IN
D/B Vehicle Maintenance Facility & Company Operations Facility, Forward Support Battalion, Ft. Stewart, GA
Organizational Maintenance Shop & Marine Area Maintenance Support Activity Facility, Vallejo, CA
Organizational Maintenance Shop and Area Maintenance Support Activity, Hooks, TX
Range Control Facility, Ft. Hunter-Liggett, CA
Security Forces Squadron Training Facility, Buckley AFB, CO
Shop Drawing Review, Buckley AFB, CO
U.S. Armed Forces Reserve Center / Organizational Maintenance Shop, West Hartford, CT
U.S. Army Reserve Center / AMSA / OMS / Unheated Storage, Omaha, NE
U.S. Army Reserve Center / OMS, Ft. Ontario, NY
U.S. Army Reserve Center / OMS, Ft. Meade, MD
U.S. Army Reserve Center / OMS, Saginaw, MI
U.S. Army Reserve Center / OMS / Storage, Ft. Story, VA
U.S. Army Reserve Center / OMS / Storage, Wausau, WI
U.S. Army Reserve Center / OMS / Unheated Storage, Bellefonte, PA
U.S. Army Reserve Center and Aviation Support Facility, Clearwater, FL
U.S. Army Reserve Center/Organizational Maintenance Shop, Direct Support Maintenance, Ft. Gillem, GA
Weapons Release Shop, Fuel Cell Hangar and Engine Trim Pad, Moody AFB, GA



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Jeff Campbell, PE — Mechanical Engineer
Education: BS/Mechanical Engineering/1985
Registration: Professional Engineer / 1990

Mr. Campbell has over 19 years experience and nine with National Guard & Reserves projects and has experience with the design of HVAC systems, design narratives, construction specifications and cost estimates. His experience also includes systems designed to achieve 30% less energy usage than ASHRAE codes required

Additional Training / Certification:

LEED and ASHRAE 91, Lexington, KY, May 2008
Sustainable Design Conference, Lexington, KY, April 2008

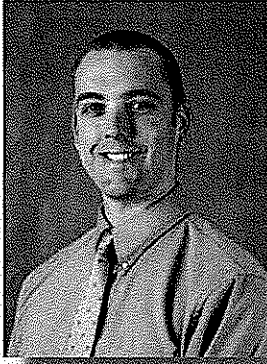
Relevant Project Experience

Aviation Support Facility, Ft. Eustis, VA
D/B New Century U.S. Army Reserve Center, Gardner, KS
CSO Bachelor Housing, Pensacola, FL
Special Weapons Assessment Facility, Crane, IN
TF-34 Engine Shop, Moody AFB, GA
D/B RFP Preparation for 14 Buildings and 1 Road Infrastructure Project (BRAC), New Orleans, LA
D/B Vehicle Maintenance Facility & Company Operations Facility, Forward Support Battalion, Ft. Stewart, GA
Repair Demo Pond and Training Area, Repairs to Admin Building, and Inert Ordnance Warehouse, Panama City, FL
Squadron Ops; Weapons Release Shop; Munitions Maintenance, Flight Simulator, Ft. Worth, TX
U.S. Army Reserve Center / OMS, Saginaw, MI



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Doug Peckinpaugh, PE, LEED AP, RCDD — Electrical Engineer
Education: BS/Electrical Engineering/1993
Registration: Professional Engineer / 2002;
Registered Communications Distribution Designer / 2008

Mr. Peckinpaugh has over 12 years experience and four with National Guard & Reserves projects including electrical systems design, including electrical distribution, interior lighting and power, interior communications, fire alarm, and mass notification systems.

Additional Training / Certification:

3-Day National Charrette Institute Dynamic Planning Training, October 2007
2-Day Bentley Institute 3D Building Design and BIM Training, Electrical, May 2007
Project Time & Cost, Inc.; MCACES, 2nd Generation (MII) Basic Training, December 2006
LEED Accredited Professional, U.S. Green Building Council, 2005

U.S. Army Reserve Center / AMSA / OMS / Unheated Storage, Omaha, NE
U.S. Army Reserve Center / OMS, Ft. Meade, MD
U.S. Army Reserve Center, Full Facility Restoration, Owings Mills, MD
Urban Assault Course, Camp Roberts, CA
Waterfront Security Enclave, P977, Bangor, WA
Waterfront Security Force Facility, Kings Bay, GA
Whole Neighborhood Revitalization, Ft. Riley, KS

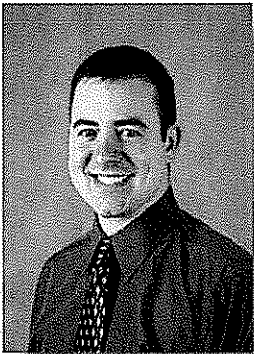
Relevant Project Experience

Readiness Center, Kingwood, WV
Armed Forces Reserve Center, OMS / AMSA and Unit Storage Building, Ayer, MA
Air Force Reserve Security Forces Operations Center, Seymour Johnson AFB, NC
Air Support Operations Squadron (ASOS), Ft. Knox, KY
Air Support Operations Squadron (ASOS) and Weather Facility, Ft. Bliss, TX
Army Reserve High Tech Regional Training Site (RTS) - Maintenance Facilities, Sacramento, CA
Charrette / National Guard Armories, Paducah/Blue Grass Army Depot, KY
Charrette / National Guard Armory, Morgantown, WV
Close Combat Tactical Trainer (CCTT), Ft. Bliss, TX
Tactical Equipment Maintenance Facility, Ft. Campbell, KY
Engineering Services Facility, Cape Canaveral, FL
Training Area Infrastructure Upgrades, Ft. Leonard Wood, MO
D/B Vehicle Maintenance Facility & Company Operations Facility, Forward Support Battalion, Ft. Stewart, GA
Joint Use Small Arms Range, Minneapolis-St. Paul IAP ARS, MN
Range Control Facility, Ft. Hunter-Liggett, CA
SOF Ground Mobility Maintenance Facility Addition, Virginia Beach, VA
Training Support Center (TSC), Ft. Bliss, TX



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Greg Brumagen, PE — Electrical Engineer
Education: BS/Electrical Engineering/2003
Registration: Professional Engineer / 2008

Mr. Brumagen has over six years experience and three with National Guard & Reserves projects including electrical and communications design including electrical distribution, lightning protection, interior lighting and power, interior communications, fire alarm, mass notification systems, and site electrical and communications plans.

Additional Training / Certification:

2-Day Bentley Institute 3D Building Design and BIM Training,
Electrical, May 2007
Registered with ProjNet/DrChecks

Relevant Project Experience

Close Combat Tactical Trainer (CCTT), Ft. Bliss, TX
Combined Arms Collective Training Facility (CACTF), Ft. A.P. Hill,
VA
D/B New Century U.S. Army Reserve Center, Gardner, KS
Tactical Equipment Maintenance Facility, Ft. Campbell, KY
Armed Forces Regional Readiness Support Command
Headquarters, Ft. Dix, NJ
Armed Forces Reserve Center, Vance AFB, OK
Combined Arms Collective Training Facility (CACTF), Ft. Dix, NJ
Tactical Unmanned Aerial Vehicle (TUAV) Facility, Ft. Campbell,
KY
U.S. Army Reserve Center / Unheated Storage, Ft. Hunter Liggett,
CA
D/B Vehicle Maintenance Facility & Company Operations Facility,
Forward Support Battalion, Ft. Stewart, GA
Readiness Center, Kingwood, WV
U.S. Army Reserve Center / OMS, Saginaw, MI
Urban Assault Course, Ft. Bliss, TX
Urban Assault Course, Ft. Hunter Liggett, CA
Security Force Facility Complex, P977, Bangor, WA
Security Force Facility, Kings Bay, GA



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Stacey Redmon, NCIDQ #017911 — Interior Designer

Education: BA/Interior Design/1999

Registration: NCIDQ / 2002

Ms. Redmon has over 11 years experience and nine with National Guard & Reserves projects and includes comprehensive interior design (CID) package (Furniture, Fixtures, and Equipment (FF&E) package) and a Structural Interior Design (SID) package (Preparation of furniture layouts and details while working closely with client to provide furniture specification documents, finish schedules and finish keys, interior finish specifications, and preparation of interior, exterior, and furniture finish boards).

Additional Training / Certification:

3-Day National Charrette Institute Dynamic Planning Training, October 2007

2-Day Bentley Institute 3D Building Design and BIM Training, Architecture, May 2007

Registered with ProjNet/DrChecks

Professional Member of IIDA

M-CACES Cost Estimating

Relevant Project Experience

Air Support Operations Squadron (ASOS) and Weather Facility, Ft. Bliss, TX

Alteration / Addition of Existing U.S. Armed Forces Reserve Center and Design of New US Army Reserve Center, Ft. Carson, CO

Comprehensive Interior Design / U.S. Armed Forces Reserve Center, Sand Springs, OK

D/B New Century U.S. Army Reserve Center, Gardner, KS

Add / Alter U.S. Army Reserve Center, Caven Point, NJ

Armed Forces Regional Readiness Support Command Headquarters, Ft. Dix, NJ

Armed Forces Reserve Center and Field Maintenance Shop, Richmond, KY

Armed Forces Reserve Center, OMS / AMSA and Unit Storage Building, Ayer, MA

Armed Forces Reserve Center, OMS / AMSA and Unit Storage Building, Westover ARB, MA

Joint Services Command & Control Headquarters, Lima, OH

Tactical Unmanned Aerial Vehicle (TUAV) Facility, Ft. Campbell, KY

U.S. Armed Forces Reserve Center, Whitehall, OH

U.S. Army Reserve Center / Unheated Storage, Ft. Hunter Liggett, CA

FBI / DOD Hazardous Devices & Weapons of Mass Destruction (WMD) Training Center & Urban Range, Huntsville, AL

FBI/DoD Secure Training Center, Huntsville, AL

Range Control Facility, Ft. Hunter-Liggett, CA

Security Forces Squadron Training Facility, Buckley AFB, CO

Training Support Center (TSC), Ft. Bliss, TX

U.S. Armed Forces Reserve Center / Organizational Maintenance Shop, West Hartford, CT

U.S. Army Reserve Center / AMSA / OMS / Unheated Storage, Omaha, NE

U.S. Army Reserve Center / OMS, Ft. Meade, MD

U.S. Army Reserve Center / OMS, Ft. Ontario, NY

U.S. Army Reserve Center / OMS / Storage, Ft. Story, VA

U.S. Army Reserve Center / OMS / Storage, Wausau, WI

U.S. Army Reserve Center / OMS / UHS, Ft. Meade, MD

U.S. Army Reserve Center / OMS / UHS, Las Vegas, NV

U.S. Army Reserve Center / OMS / Unheated Storage, Bellefonte, PA

U.S. Army Reserve Center and Aviation Support Facility, Clearwater, FL

U.S. Army Reserve Center, Full Facility Restoration, Owings Mills, MD

U.S. Army Reserve Center/Organizational Maintenance Shop, Direct Support Maintenance, Ft. Gillem, GA



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Amy Blevins, NCIDQ — Interior Designer
Education: BA/Interior Design/1999
Registration: NCIDQ / 2003

Ms. Blevins has over 10 years experience and two with National Guard & Reserves projects and includes comprehensive interior design (CID) package (Furniture, Fixtures, and Equipment (FF&E) package) and a Structural Interior Design (SID) package (Preparation of furniture layouts and details while working closely with client to provide furniture specification documents, finish schedules and finish keys, interior finish specifications, and preparation of interior, exterior, and furniture finish boards).

Additional Training / Certification:

LEED Accredited Professional, U.S. Green Building Council, 2008
3-Day National Charrette Institute Dynamic Planning Training, October 2007

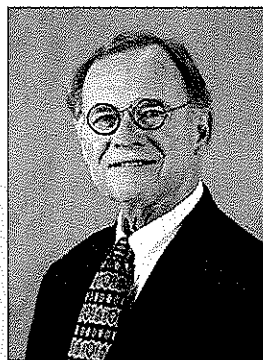
Relevant Project Experience

Army Reserve High Tech Regional Training Site (RTS) - Maintenance Facilities, Sacramento, CA
Close Combat Tactical Trainer (CCTT), Ft. Bliss, TX
Armed Forces Reserve Center, Vance AFB, OK
Engineering Services Facility, Cape Canaveral, FL
U.S. Armed Forces Reserve Center, Whitehall, OH
U.S. Army Reserve Center / Unheated Storage, Ft. Hunter Liggett, CA
Renovation of Command Headquarters / Administration Building (B3700), Albany, GA
Security Forces Squadron Training Facility, Buckley AFB, CO
Squadron Ops; Weapons Release Shop; Munitions Maintenance, Flight Simulator, Ft. Worth, TX
U.S. Army Reserve Center / AMSA / OMS / Unheated Storage, Omaha, NE
U.S. Army Reserve Center / OMS, Saginaw, MI



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Jim Brackney, PE — Fire Protection Engineer
Education: BS/Fire Protection & Safety Engineering/1963
Registration: Registered Fire Protection Engineer / 1969

Mr. Brackney has over 44 years experience and seven with National Guard & Reserves projects. He has experience with life safety and code analyses, sprinkler system design, hydraulic calculations and fire flow tests for design of automatic sprinkler system

Additional Training / Certification:

2006 International Building Code Workshop, AIA KY, June 2007
NFPA and EPA Fire Code Changes Seminar, ORR Protection Systems
COE A/E Quality Expectations Seminar LCOE
Certified Inspector of Fire Suppression Systems, KY
Certified Inspector of Fire Alarm Systems, KY / FAR 856

Relevant Project Experience

Readiness Center, Kingwood, WV
Air Force Reserve Security Forces Operations Center, Seymour Johnson AFB, NC
Alteration / Addition of Existing U.S. Armed Forces Reserve Center and Design of New US Army Reserve Center, Ft. Carson, CO
Army Reserve High Tech Regional Training Site (RTS) - Maintenance Facilities, Sacramento, CA
D/B New Century U.S. Army Reserve Center, Gardner, KS
Armed Forces Reserve Center, OMS / AMSA and Unit Storage Building, Ayer, MA
Armed Forces Reserve Center, OMS / AMSA and Unit Storage Building, Westover ARB, MA
Joint Services Command & Control Headquarters, Lima, OH
U.S. Armed Forces Reserve Center, Whitehall, OH
U.S. Army Reserve Center / Unheated Storage, Ft. Hunter Liggett, CA
D/B Vehicle Maintenance Facility & Company Operations Facility, Forward Support Battalion, Ft. Stewart, GA
Fire Alarm Replacement, Federal Building, Frankfort, KY
Fire Alarm Study for Command & Control HQ, Lima, OH
Fire Alarm System Upgrade, Medical Center, Wright-Patterson AFB, OH
Fire Alarm Testing, Command & Control HQ, Lima, OH
Fire Protection Suppression System, Air Mobility Command Building 1600, Scott AFB, IL

Fire Protection System and General Repairs to Hangar 122, Oceana, VA
Organizational Maintenance Shop and Area Maintenance Support Activity, Hooks, TX
Range Control Facility, Ft. Hunter-Liggett, CA
Repair Existing Fire Detection System, Air Mobility Command Building 1600, Scott AFB, IL
Repair Fire Protection Water Service, Scott AFB, IL
Security Forces Squadron Training Facility, Buckley AFB, CO
Training Support Center (TSC), Ft. Bliss, TX
U.S. Army Reserve Center / AMSA / OMS / Unheated Storage, Omaha, NE
U.S. Army Reserve Center / OMS, Saginaw, MI
U.S. Army Reserve Center / OMS, Ft. Meade, MD
U.S. Army Reserve Center / OMS / Storage, Ft. Story, VA
U.S. Army Reserve Center / OMS / Storage, Wausau, WI
U.S. Army Reserve Center / OMS / Unheated Storage, Bellefonte, PA
U.S. Army Reserve Center and Aviation Support Facility, Clearwater, FL



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Dan Lambert — Landscape Architecture
Education: MS/Landscape Architecture/1997

Mr. Lambert has over 14 years experience with National Guard & Reserves projects and includes site inspection work, surveying, grading, design, and graphics. This experience includes seeding and sodding of the site; trees, ground covers, flowers, plant beds; irrigation systems, wetland protection and creation; re-introduction of native and indigenous plant species; naturalized force protection measures; and planters, pavers, walks, fountains, walls, stairs & steps.

Relevant Project Experience

101st Airborne Assault Division Command and Control Headquarters, Ft. Campbell, KY
Air Support Operations Squadron (ASOS) and Weather Facility, Ft. Bliss, TX
Alteration / Addition of Existing U.S. Armed Forces Reserve Center and Design of New US Army Reserve Center, Ft. Carson, CO
Army Reserve High Tech Regional Training Site (RTS) - Maintenance Facilities, Sacramento, CA
Aviation Readiness Transformation Center / Project Planning Charrette, Windsor Locks, CT
Charrette / National Guard Armories, Paducah/Blue Grass Army Depot, KY
Charrette / National Guard Armory, Morgantown, WV
Consolidated Training Facility, Niagara Falls, NY
Customer Concept Document (CCD) Development for Air Support Operations Squadron, Ft. Drum, NY
Armed Forces Reserve Center, Vance AFB, OK
Armed Forces Reserve Center, OMS / AMSA and Unit Storage Building, Ayer, MA
Joint Services Command & Control Headquarters, Lima, OH
Transient Quarters, Johnstown ASF, PA
U.S. Armed Forces Reserve Center, Whitehall, OH
D/B Vehicle Maintenance Facility & Company Operations Facility, Forward Support Battalion, Ft. Stewart, GA
Organizational Maintenance Shop & Marine Area Maintenance Support Activity Facility, Vallejo, CA
Organizational Maintenance Shop and Area Maintenance Support Activity, Hooks, TX
Security Forces Squadron Training Facility, Buckley AFB, CO
U.S. Armed Forces Reserve Center, Manchester, NH
U.S. Armed Forces Reserve Training Center, New Orleans, LA
U.S. Army Reserve Center / AMSA / OMS / Unheated Storage, Omaha, NE

U.S. Army Reserve Center / OMS, Saginaw, MI
U.S. Army Reserve Center / OMS, Ft. Ontario, NY
U.S. Army Reserve Center / OMS, Ft. Meade, MD
U.S. Army Reserve Center / OMS / Storage, Ft. Story, VA
U.S. Army Reserve Center / OMS / Storage, Wausau, WI
U.S. Army Reserve Center / OMS / Unheated Storage, Bellefonte, PA
U.S. Army Reserve Center and Aviation Support Facility, Clearwater, FL
U.S. Army Reserve Center/Organizational Maintenance Shop, Direct Support Maintenance, Ft. Gillem, GA



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Jack Stemm, FCPE — Cost Estimator

Education: BS / Construction Management / 1974

Mr. Stemm's experience includes cost estimating and/or project management for over 500 projects; various levels of estimates for Design/Build, Construction Management, Program Management and Bid/Build projects, preliminary presentation schedules, subcontractor/supplier and cost database, and 20 Hours LEED Training

Additional Training / Certification:

Fellow Member of the American Society of Professional Estimators

Awarded Estimator of the Year by the National ASPE Organization and the Kansas City Chapter.

Over 30 articles on construction estimating published in various publications. Presented to universities and construction organizations presentations on estimating and bidding.

Relevant Project Experience

ADAL Intelligence Squadron Facility, Offutt AFB, NE

Senior Estimator: Responsibilities included quantity survey and pricing, subcontractor and supplier solicitation, bid day assembly and purchasing of designated sections of work for the additions and alterations to the Intelligence Squadron Facility to include remodeling 19,910 square feet of the original facility; construction of a two-story addition at 26,363 square feet per floor as well as a 1,051 square foot link between the original and new buildings, for a total of 54,323 square feet. New construction consists of reinforced concrete foundation, slab, steel framing, masonry walls, membrane roof, fire detection/protection, utility ties, SCIF, site improvements, pavements, communication and all other necessary support. Cost: \$8,700,000

Air Force Reserve Squadron Operations/Life Support Facility, Whiteman AFB, MO

Senior Estimator: Responsibilities included quantity survey and pricing, subcontractor and supplier solicitation, bid day assembly and purchasing of designated sections of work for this 31,600 SF, 2-Story facility. Includes administration and command suites, pilot equipment storage, training, SCIF, simulator rooms and readiness storage for BRAC relocation of A-10 Squadron to Whiteman AFB Cost: \$8,777,185

F/A-22 Technical Training Facility, Sheppard AFB, TX

Senior Estimator: Responsibilities included quantity survey and pricing, subcontractor and supplier solicitation, bid day assembly and purchasing of designated sections of work for a 122,000 SF, 2-story high bay technical training facility for beddown of the F/A 22 Raptor aircraft. Project includes 17 simulator bays. Cost: \$20,805,321

Fire Crash Rescue Station, Dyess AFB, TX

Senior Estimator: Responsibilities included quantity survey and pricing, subcontractor and supplier solicitation, bid day assembly and purchasing of designated sections of work for a facility that provides emergency response to both the flight line and base facilities. Includes administrative areas, dorm areas, recreation areas, maintenance areas and 22 bays for emergency response apparatus and equipment. Cost: \$20,560,088

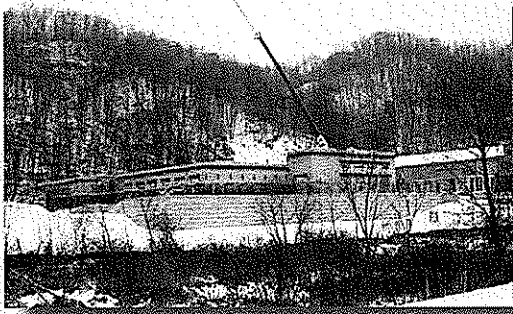
Fuel System Maintenance Hanger, Vance AFB, OK

Lead Estimator: Responsibilities included quantity survey and pricing, subcontractor and supplier solicitation, bid day assembly for 4-bay hangar to accommodate T-1A Jayhawk, T-38, and T-6A aircraft facility. Also includes administration area and supporting storage areas. Project also includes renovation of existing fuel system hangar wash back. Cost: \$8,400,000



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Construction Services for Readiness Center
Camp Dawson, Kingwood, WV / Cost: \$ 6,529,394

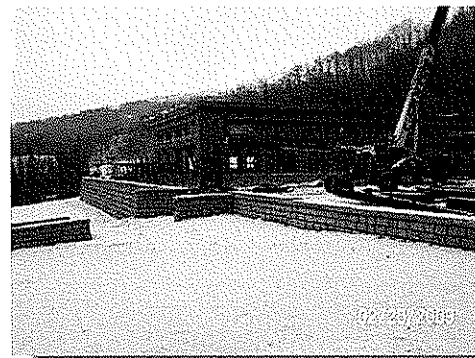
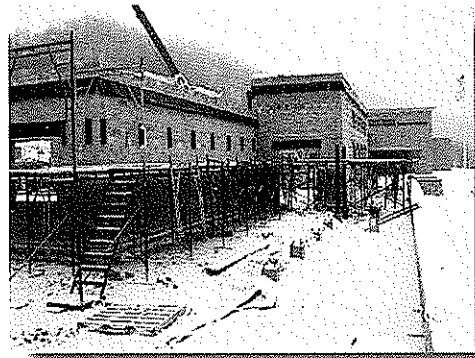
Full Time On-site Inspector, Site Investigations,
Shop Drawing Reviews, Response to RFIs, Verification of Pay Applications

USPFO for West Virginia / CPT Rocky Hodges / 304-561-6451

Mason & Hanger is providing construction supervision and inspection (SIOH), and on-site evaluation services for all site improvements, utility extensions, plumbing, electrical, HVAC, exterior and interior finishes for the successful completion of a fully functional facility.

M&H is providing the following services:

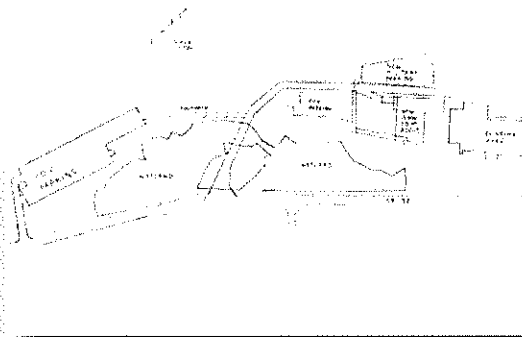
- Full Time On-site Inspector
- Receive, log, and distribute submittals from the contractor to the appropriate disciplines for review
- Receive, log, and distribute RFI's
- Respond to RFI's
- Perform shop drawing review for all submittals pertaining to civil / site related items
- Provide general contract administration services
- Site visits
- Review / approve pay applications





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Readiness Center
Camp Dawson, Kingwood, WV / Cost: \$ 6,529,394

Site Investigations, Charrette, Project Management, Full Discipline A/E Services, Cost Estimating, Specifications

Mobile District USACE / Mr. John Wahlers / 251-690-3500

Mason & Hanger provided Type A, B & C services for a new 17,290 SF addition to the Readiness Center for the West Virginia Army National Guard in Kingwood, WV. This new 58-member West Virginia Army National Guard Readiness Center contains:

- Administrative Areas
- Educational Spaces
- Storage Spaces
- Building Operations and Support spaces for two units (753rd Explosives Ordnance Disposal unit (EOD) and the Special Operations Detachment - Europe (SOD-E))

Administrative areas include:

- Private Offices
- Administrative Common Spaces
- Workstations

Educational spaces include:

- Classrooms
- Training Laboratory

Storage spaces include:

- Unit storage areas
- Janitorial storage
- Other minor closets

Building operation spaces include:

- Network Operations Center (NOC)
- Mechanical Room
- Electrical
- Telephone

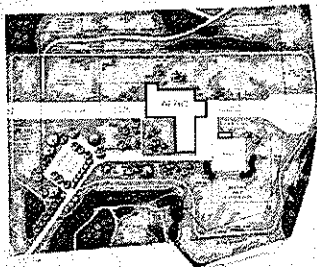
Support spaces include

- Locker Rooms

A SIPRNET space and Review Rooms are provided to accommodate the future needs of the facility.



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National Guard Armory, Project Planning Document Charrette, Morgantown, WV / Cost: \$15,417,000

Site Investigations, Charrette, Project Management, Full Discipline A/E Services

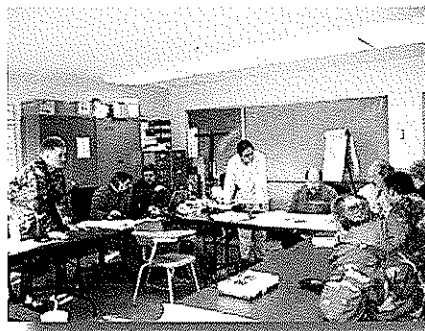
Mobile District USACE / Mr. John Wahlers / 251-690-3500

Mason & Hanger was contracted to conduct and prepare a Project Planning Document Charrette (PPDC) for the Readiness Center project, to include a parametric cost estimate. The purpose of the PPDC is to update and validate the DD 1391 dated 6 July 2005.

The charrette was held on 5-7 December 2005. This report shows the process and findings of this intense design and planning effort. The site schemes were developed during the on-site charrette meetings and are illustrated in Appendix F.

It was determined during the charrette that the project was originally planned as an AFRC with the other DOD tenant being the US Marine Corps Reserve. The Marines dropped out of the program. At that time it was determined that the Army ROTC would become part of the project. By the end of the charrette, it was concluded that the Army ROTC would stay with the University of West Virginia, therefore, also dropping out of the project.

The result of the charrette is a validated scope and cost of the project which now stands at 53,041 SF and \$15,417,000.00. The DD 1390/1391 is now programmed as a National Guard Readiness Center. The project is being 100% federally funded because of the nature of the mission and the requirement for reorganization.



The Project is a Readiness Center located in Morgantown, West Virginia. The Readiness Center will permit personnel from the 249th Army Band, B Battery 1-201st Field Artillery and Det 2-12 1st Forward Support Company of the West Virginia Army National Guard to adequately train, improve operational readiness, and more efficiently execute their current mission. The project site is located on a tract of land being developed on existing Airport property at the Morgantown, West Virginia Airport.

This facility is to be designed with future expansion in mind. The National Guard facilities will be arranged in a functional complex meeting current AT/FP guidance.

Supporting facilities include:
Unheated Enclosed Equipment Storage Building
Military Vehicle And POV Parking
Access Roads And Ramps
Loading Dock
Security Lighting
Site At/FP Measures
Utilities
Landscaping



Mason & Hanger

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National Guard Armory, Project Planning Document
Charrette, Moorefield, WV / Cost: \$13,476,000

Site Investigations, Charrette, Project Management, Full Discipline A/E Services

Mobile District USACE / Mr. John Wahlers / 251-690-3500

Cost: \$15,417,000

Mason and Hanger was contracted to conduct and prepare a Project Planning Document Charrette (PPDC) for the Readiness Center project, to include a parametric cost estimate. The purpose of the PPDC is to update and validate the DD 1390/1391 dated 8 April 2005.

The site schemes were developed during the on-site charrette meetings and are illustrated in Appendix D. The basic result of the charrette is a validated scope and cost of the project which now stands at 44,171 SF and \$13,476,000.

The Revised DD Form 1390/1391 is now showing the project as a Readiness Center which is 100% Federally Funded. The project also has some facility enhancements and additions which will be State funded. This includes such things as enlarged kitchen areas and additional classrooms.

The Project is a Readiness Center located in Moorefield, West Virginia. The Readiness Center will permit personnel from the 157th MP Guard Company of the West Virginia Army National Guard to adequately train, improve operational readiness, and more efficiently execute their current mission. The project site is located on a tract of land being developed by the Hardy County Rural Development Authority along new Corridor H in Moorefield, West Virginia.

This facility is to be designed in a campus arrangement with the Adjacent Eastern West Virginia Community and Technical College (EWVCTC). The facility is to add classrooms and storage areas for EWVCTC use. This added space is to be funded separately thru the State of West Virginia.

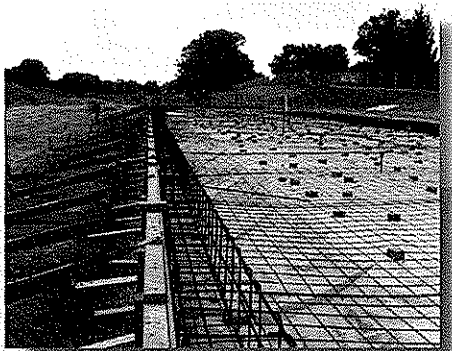
Supporting facilities include:

- Unheated Enclosed Equipment Storage Building
- Military Vehicle And Pov Parking
- Access Roads And Ramps
- Loading Dock
- Security Lighting
- Site At/tp Measures
- Utilities
- Landscaping



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Armed Forces Reserve Center and Field Maintenance Shop, BGAD, Richmond, KY / Cost: \$24,746,000

Site Investigations, Charrette, Architectural and Engineering Design

GRW / Mr. Ron Gilkerson / 859.233.3999

Mason & Hanger as a consultant to GRW, provided A/E services for this new Armed Forces Reserve Center and Field Maintenance Shop located at Blue Grass Army Depot, Richmond, Kentucky. The space will permit personnel from the Kentucky Army National Guard and the 81st RRC to perform the necessary tasks that will improve the different Unit's readiness posture.

Armed Forces Reserve Center (AFRC) / 89,345 SF:

- Administrative areas
- Educational spaces
- Assembly Hall with a fully functioning kitchen
- Storage spaces
- Building operation spaces
- Support spaces
- Unheated storage for the units of the Army Reserve provide additional caged storage areas

Field Maintenance Shop (FMS) / 37,109 SF:

- Administrative area (includes private shop offices)
- Educational spaces include classrooms and library
- Storage spaces include tool and parts storage, a battery room, bulk POL storage and storage for a Lube system
- Building operation spaces include the network operations, mechanical room, electrical, telephone, and janitor rooms
- Support spaces include locker rooms and showers, physical fitness area, break room & vending alcove
- Workbays include 10 drive-thru workbays with adequate space to meet the working needs of the mechanics and provide circulation space around the vehicles

Supporting Facilities include:

- Military Vehicle And Pov Parking
- Access Roads And Ramps
- Loading Dock
- Wash Platform
- Fuel Truck Containment Area
- Security Lighting
- Site AT/FP Measures
- Utilities
- Landscaping

Mason & Hanger also conducted and prepared a Project Planning Document Charrette (PPDC) for the KYARNG, Richmond, KY (created six site schemes). This design is in accordance with the National Guard and Army Reserve criteria.



Mason & Hanger

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U.S. Army Reserve Center, Maintenance Shop,
Unheated Storage, Omaha, NE / Cost: \$21,744,300

Project Management, Charrette, Full Discipline A/E Services, BIM, Cost Estimating,
Specifications

Louisville District USACE / Ms. Betty Beck / Phone 502.315.6357

Mason & Hanger provided full discipline A/E design services for the full design of this 80,500 SF Reserve Training Center and support facilities utilizing MicroStation 3D TriForma for the BIM process.

It was requested by the Users that these facilities blend with community, but also make a statement. The design team took inspiration from the downtown Omaha convention center and neighboring facilities. M&H's designers worked closely with the Users to make sure the complex blended with the local community and met their design intent of "making a statement". This architectural style was challenging both from a structural and a mechanical perspective.

Training Building / Unit Storage (80,500 SF) / Supports 800 permanent USAR reservists and full time support personnel.

- Administrative areas
- Educational spaces
- Weapons Simulator
- Unit Storage Area
- Building operation spaces including Network Operations Center (NOC)
- Support spaces
- Locker and Shower Rooms
- Physical Readiness Training Room
- Assembly Hall (312 person occupancy)
- Kitchen (192 person occupancy)

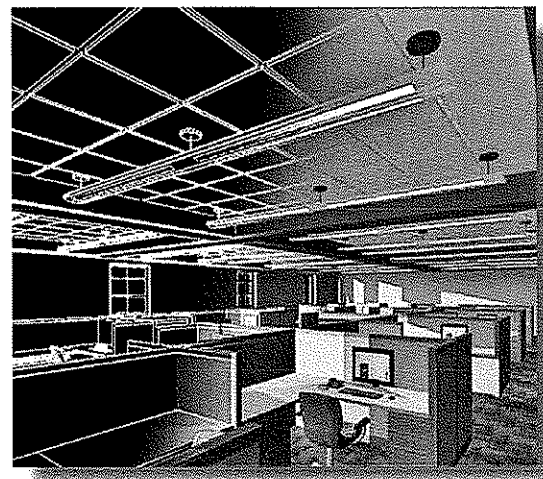
Organizational Maintenance Shop / Area Maintenance Support Activity (21,625 SF)

- 10 high-bay work areas
- Administrative Area
- Controlled Waste Storage
- Flammable Storage
- Tool Storage

Also includes a 4,260 SF Unheated Storage Building and a 1,444 SF Pump House building.

Challenges

The project did not get official approval of the site layout until the 9th month of the project. During that time, the building was re-sited on the property by the land owner and the building was later rotated by the User. Additionally, the survey and geotechnical work was delayed due to existing crops in the field that could not be damaged. Other site constraints included design of septic fields, water wells for the aquifer, highway impact studies and permits, restrictions on distances to classified government equipment, and heavy anti-terrorism and force protection measures caused by the site not being on a controlled perimeter.





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High Tech-Regional Training Site-Maintenance (HT-RTS)
Facility, Sacramento, CA / Cost: \$6,193,000

Project Management, Charrette, Full Discipline A/E Services, BIM, Cost Estimating,
Specifications

Louisville District USACE / Ms. Tara O'Leary / Phone 502.315.6296

Mason & Hanger (M&H) provided 100% design utilizing MicroStation TriForma for BIM for this new 22,888 SF High Tech-Regional Training Site-Maintenance (HT-RTS) facility with associated site work to contain signal training modules at the BT Collins Army Reserve Center in Sacramento, CA. The training center will support approximately 30 staff and instructors and approximately 160 students.

Existing building 662 was built in 1988 and requires extensive repairs in the interior and exterior of the facility. Training classrooms are operating in open vehicle maintenance bays that do not meet current requirements for classrooms teaching "High Tech" military occupational services. Additionally, there is significant noise carryover from the adjacent classroom spaces. Computers, radios, and other technical equipment malfunction due to inadequate power supply and climate control.

High Tech-Regional Training Site-Maintenance (HT-RTS-M):

- Classrooms
- High-Tech Classrooms
- Offices / Administrative Areas
- Library / Distance Learning Lab
- Vault
- Weapons Simulator
- Military Equipment Parking and Privately Owned Vehicles parking lots

Support Systems / Services

- Designed in accordance with Energy Policy Act of 2005 (EPAct05)
- Sustainable Design
- Anti-Terrorism / Force Protection



Mason & Hanger

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“The attention to detail on this submittal is excellent.”

– Scott Carrithers, Louisville COE 09/30/08

U.S. Army Reserve Center, Saginaw, MI / Cost:
\$11,501,000

Project Management, Charrette, Full Discipline A/E Services, BIM, Cost Estimating, Specifications

Louisville District USACE / Ms. Betty Beck / Phone 502.315.6296

Mason & Hanger (M&H) provided 100% design utilizing the BIM process for this new 150-member U.S. Army Reserve Training Center that is being created by the Grow the Force program.

Training Building (30,489 SF)

- Administrative areas include private offices, administrative common spaces, recruiting and retention offices, mail room and a family support office
- Educational spaces include classrooms, library reading and storage, a learning center, weapons simulator and training aid storage
- Assembly Hall with attached kitchen
- Unit Storage with weapons vault
- Storage spaces include a facility maintenance area, janitorial storage, and other minor closets
- Building operation spaces include the Network Operations Center (NOC), mechanical room, electrical, telephone, and janitor rooms
- Support spaces include toilets, locker rooms, a physical training room, a break room, and a vending alcove

Organizational Maintenance Shop (7,136 SF)

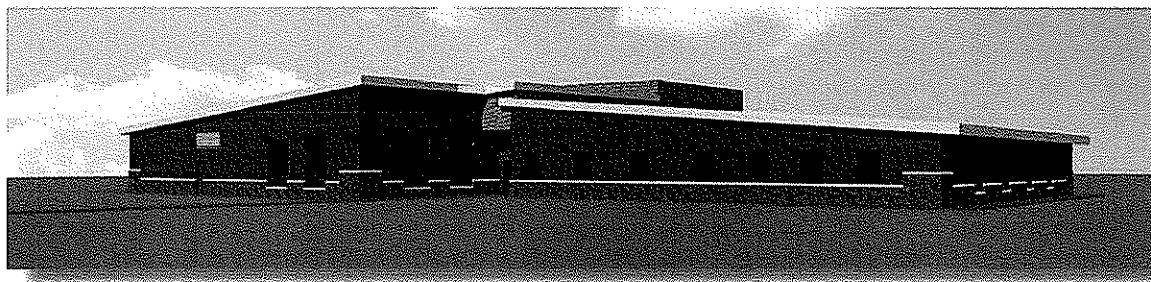
- Four high-work bays (rated Class I, Division 2)
- Parts and Tool storage
- Flammable Storage (rated Class I, Division 1)
- Controlled Waste (rated Class I, Division 1)
- Administrative area

Design Elements

- Anti-Terrorism / Force Protection measures
- Sustainable Design
- Comprehensive Interior Design (CID)
- Designed in accordance with Energy Policy Act of 2005
- Intrusion Detection Systems
- SIPRNET System

Support Services

- Erosion & Sediment Control Permitting
- NPDES Permitting
- Utility Permits



PROJECT EXPERIENCE



Project Title

Army Aviation Support Facility #1
Apron Expansion/Rehabilitation
and Taxiway Replacement

Site Location

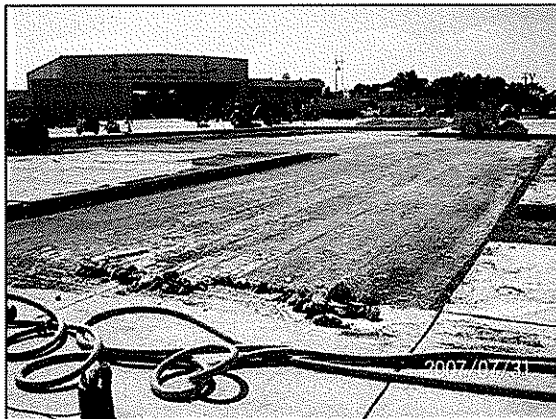
Wood County Airport
Parkersburg, West Virginia

Owner

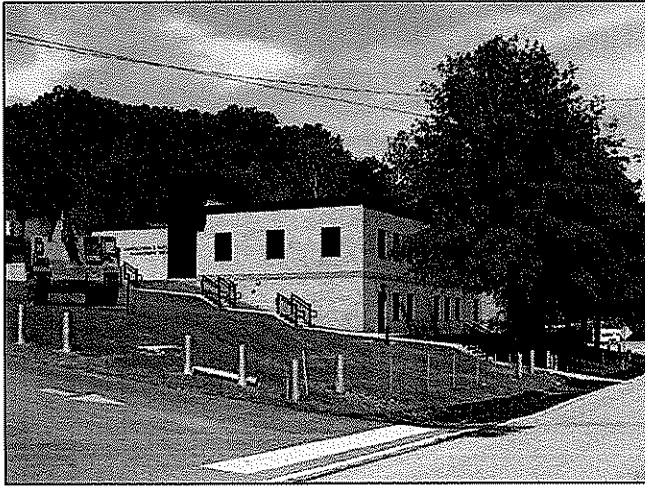
West Virginia Army National Guard
Construction and Facilities Management Office

Project Description

Capitol Engineering, Inc. (CEI) was selected by the West Virginia Army National Guard to perform upgrades and renovation of the Army Aviation Support Facility #1. The project involved replacement of the existing taxiway, rehabilitation of the existing concrete apron, and expansion of the apron. Site investigation services included surveying and mapping, inspection of existing facilities, and a limited geotechnical investigation to support pavement design for the taxiway. CEI prepared design and construction documents for this project and performed Site Observation and Contract Administration for the client. Total project cost was \$2,500,000.



PROJECT EXPERIENCE



Project Title

C&FMO Office Expansion
Site and Civil Design

Site Location

WV National Guard Complex
Charleston
Kanawha County, WV

Owner

West Virginia Army National Guard
Construction and Facilities Management Office

Project Description

The Construction and Facilities Management Office Expansion consisted of the construction of a 12,000 square foot office building, 6,000 square foot maintenance area, and renovations to the existing Army Board office at the Coonskin Drive National Guard Complex. Capitol Engineering, Inc. performed the site investigation and site/civil design portions of the project. Total project cost was \$2,600,000.

The project included the following design elements:

1. Parking area, walkways, stairs and general site features
2. Utilities and an oil/water separator for the maintenance facility.

The project included the following site investigation elements:

1. Preliminary engineering, planning, and field reconnaissance
2. Surveying and mapping
3. Geotechnical investigation and laboratory testing
4. Utility and construction easements



PROJECT EXPERIENCE



Project Title

Camp Dawson
Lower Range Renovations

Site Location

Kingwood, Preston County, WV

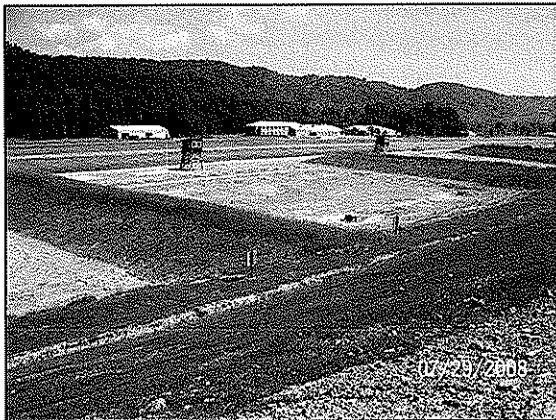
Owner

West Virginia Army National Guard
Construction and Facilities Management Office

Project Description

CEI prepared the plans for renovations to the Small Arms Range Complex at Camp Dawson Army Training Site. The project required the development of a comprehensive Range Master Plan. CEI facilitated the plan development and served on the Master Planning Committee along with personnel from the WVARNG Facilities Management Office, Camp Dawson Operations, and the Post Engineer.

CEI performed site investigation services which included surveying and mapping, inspection of existing facilities, and a limited geotechnical investigation. CEI developed design and construction documents for this project. The most significant upgrades to the facility included a new Combat Pistol Qualification Course and a new 25-meter rifle range. The project also included the design of range support facilities including observation towers, storage buildings, a classroom/latrine building and the extension of utilities from main post. Total project cost was \$1,250,000.



PROJECT EXPERIENCE



Project Title

Camp Dawson
Runway Extensions

Site Location

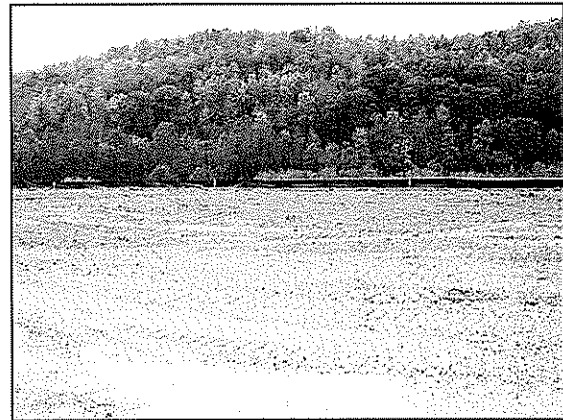
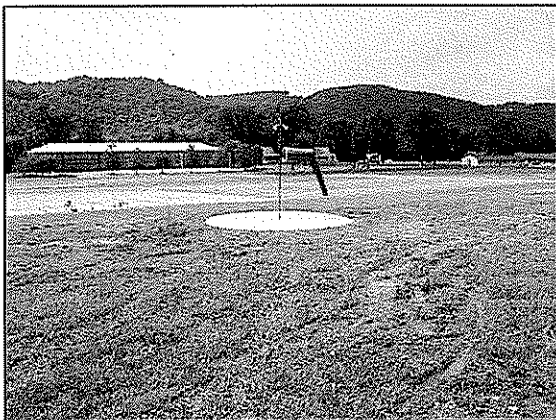
Camp Dawson Collective Training Center
Preston County, WV

Owner

West Virginia Army National Guard
Construction and Facilities Management Office

Project Description

Capitol Engineering, Inc. was selected by the WVARNG/C&FMO for two runway renovation/upgrade projects. The projects involved a 350' paved extension for take offs, a 650' paved extension for emergency runout, lighting and marking replacement, and the installation of a Precision Approach Path Indicator (PAPI) system. The site investigation involved evaluation of the existing lighting system, a geotechnical investigation, and surveying and mapping. CEI prepared construction documents and provided full construction administration of the project. Total project cost was \$1,300,000.



PROJECT EXPERIENCE



Project Title

Elkins Armed Forces Reserve Center
Site and Civil Design

Site Location

U.S. Route 33, near Elkins
Randolph County, WV

Owner

West Virginia Army National Guard
Construction and Facilities Management Office

Project Description

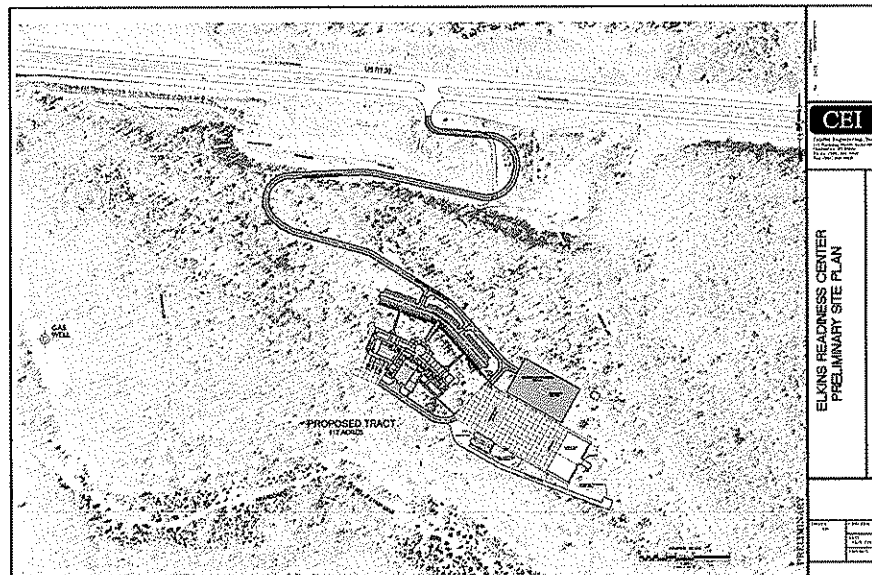
The Elkins Armed Forces Reserve Center Project includes a Readiness Center, maintenance shop and equipment storage building. The complex consists of over 50,000 square feet of heated space, additional unheated storage and approximately 32,000 square yards of rigid and flexible paving. The new facility occupies a 135 acre tract on an undeveloped mountain near Harding in Randolph County. Capitol Engineering, Inc. (CEI) is performing all of the site investigation and site/civil design aspects of the project. Total project cost is estimated to be \$21,000,000.

The project includes the following major design elements:

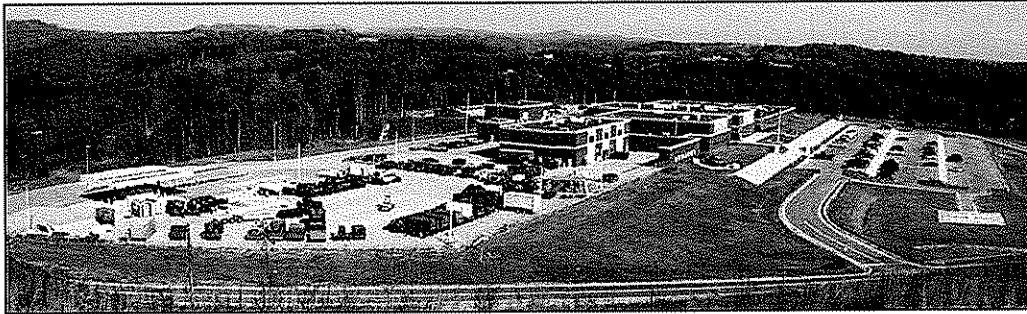
1. Utilities and general site features
2. Military equipment parking, vehicle wash and fueling facilities, and loading ramp
3. Access roads and civilian parking lots

The project included the following site investigation elements:

1. Preliminary engineering, planning, and field reconnaissance
2. Surveying and mapping
3. Geotechnical investigation and laboratory testing
4. Utility, drainage, and construction easements



PROJECT EXPERIENCE



Project Title
Glen Jean AFRC
Site and Civil Design

Site Location
Glen Jean
Fayette County, WV

Owner
West Virginia Army National Guard
Construction and Facilities Management Office

Project Description

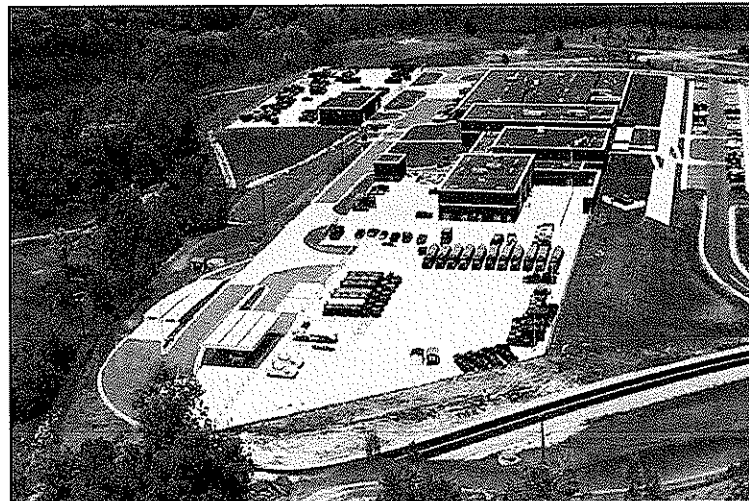
The Glen Jean Armed Forces Reserve Center Project included a Readiness Center, a Military Entrance and Processing Station (MEPS), and an Organizational Maintenance Shop (OMS). The complex consists of over 100,000 square feet of heated space, additional unheated storage and approximately 32,000 square yards of rigid and flexible paving. The new facility occupies a 35 acre tract on a former strip mine near Glen Jean in Fayette County. Capitol Engineering, Inc. (CEI) performed all of the site investigation and site/civil design aspects of the project, as well as construction administration for the sitework. Total project cost was \$19,000,000.

The project included the following major design elements:

1. Utilities and general site features
2. Military equipment parking, vehicle wash and fueling facilities, and loading ramp
3. Access roads and civilian parking lots

The project included the following site investigation elements:

1. Preliminary engineering, planning, and field reconnaissance
2. Surveying and mapping
3. Geotechnical investigation and laboratory testing
4. Mine subsidence investigation
5. Utility and construction easements



PROJECT EXPERIENCE



Project Title

Kingwood Readiness Center
Site and Civil Design

Site Location

Camp Dawson Collective Training Center
Preston County, WV

Owner

West Virginia Army National Guard
Construction and Facilities Management Office

Project Description

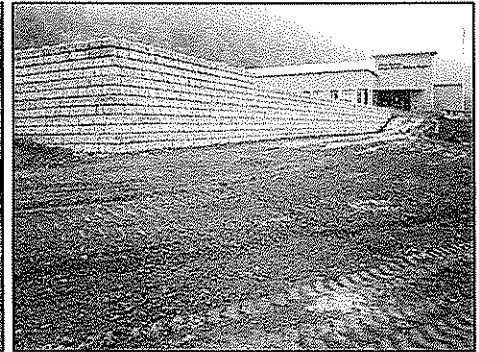
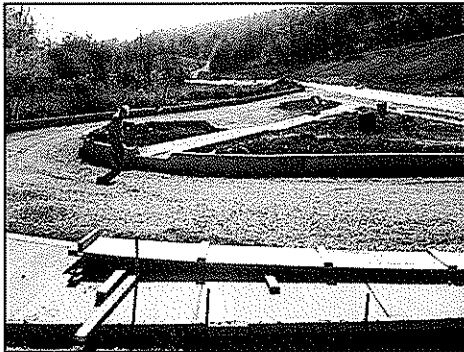
The Kingwood Readiness Center consists of a 20,000 square foot building adjacent and connected to the existing Camp Dawson Armed Forces Reserve Center in Preston County. The new facility occupies the site of the AFRC parking lot, this required design of a new access road and parking lots for both buildings. Capitol Engineering, Inc. (CEI) is performing all of the site investigation and site/civil design aspects of the project. Total project cost is \$6,500,000.

The project includes the following major design elements:

1. Utilities and general site features
2. Military equipment parking
3. Access roads and civilian parking lots

The project included the following site investigation elements:

1. Preliminary engineering, planning, and field reconnaissance
2. Surveying and mapping
3. Geotechnical investigation and laboratory testing
4. Utility and construction easements



PROJECT EXPERIENCE



Project Title

Morgantown Readiness Center
Site and Civil Design

Site Location

Morgantown Municipal Airport
Monongalia County, WV

Owner

West Virginia Army National Guard
Construction and Facilities Management Office

Project Description

The Morgantown Readiness Center complex consists of over 50,000 square feet of heated space, additional unheated storage and approximately 32,000 square yards of rigid and flexible paving. The new facility will occupy a 35 acre tract on a former runway at the Morgantown Municipal Airport in Monongalia County. Capitol Engineering, Inc. (CEI) is performing all of the site investigation and site/civil design aspects of the project. Total project cost is estimated to be \$20,000,000.

The project includes the following major design elements:

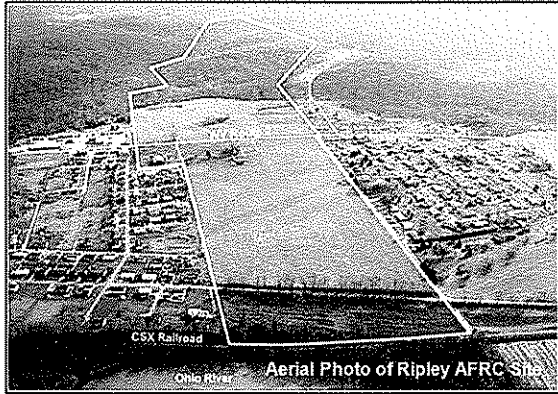
1. Utilities and general site features
2. Military equipment parking, vehicle wash and fueling facilities, and loading ramp
3. Access roads and civilian parking lots

The project included the following site investigation elements:

1. Preliminary engineering, planning, and field reconnaissance
2. Surveying and mapping
3. Geotechnical investigation and laboratory testing
4. Mine subsidence investigation
5. Utility and construction easements



PROJECT EXPERIENCE



Project Title

Ripley Armed Forces Reserve Center
Site and Civil Design

Site Location

Millwood
Jackson County, WV

Owner

West Virginia Army National Guard
Construction and Facilities Management Office

Project Description

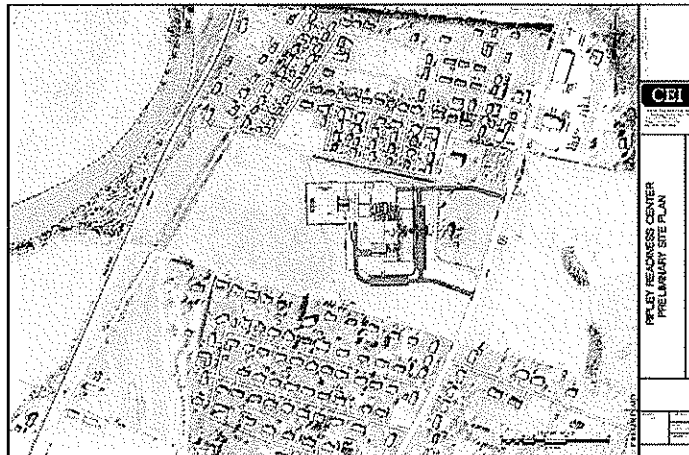
The Ripley Armed Forces Reserve Center Project includes a Readiness Center, a maintenance shop and an equipment storage building. The complex consists of over 50,000 square feet of heated space, additional unheated storage and approximately 22,000 square yards of rigid and flexible paving. The new facility occupies a 335 acre tract on the former Eastern Star property near Millwood in Jackson County. Capitol Engineering, Inc. (CEI) is performing all of the site investigation and site/civil design aspects of the project. This project has an estimated cost of \$20,000,000.

The project includes the following major design elements:

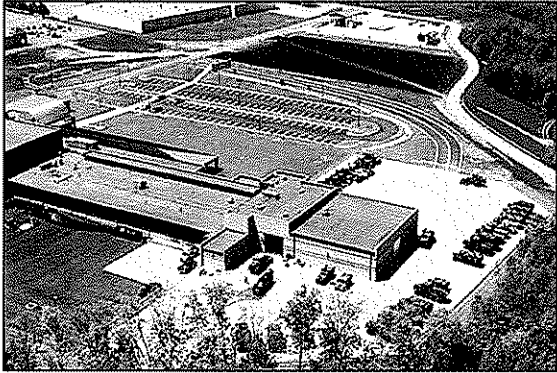
1. Utilities and general site features
2. Military equipment parking, vehicle wash and fueling facilities, and loading ramp
3. Access roads and civilian parking lots

The project included the following site investigation elements:

1. Preliminary engineering, planning, and field reconnaissance
2. Surveying and mapping
3. Geotechnical investigation and laboratory testing
4. Drainage and construction easements



PROJECT EXPERIENCE



Project Title

Summersville Readiness Center
Site and Civil Design

Site Location

Summersville
Nicholas County, WV

Owner

West Virginia Army National Guard
Construction and Facilities Management Office

Project Description

The Summersville Readiness Center Project included a Readiness Center, a Civic Arena and Conference Center, and a unit maintenance shop. The complex consists of over 70,000 square feet of heated space, additional unheated storage and approximately 21,000 square yards of rigid and flexible paving. The facility occupies a 35-acre tract behind the Northside Center in Summersville, Nicholas County. Capitol Engineering, Inc. (CEI) was selected to perform all aspects of the site investigation. Capitol Engineering, Inc. (CEI) performed all of the site investigation and site/civil design aspects of the project. Total project cost was \$15,000,000.

The project included the following major design elements:

1. Utilities and general site features
2. Military equipment parking, vehicle wash and fueling facilities, and loading ramp
3. Access roads and civilian parking lots

The project included the following site investigation elements:

1. Preliminary engineering, planning, and field reconnaissance
2. Surveying and mapping
3. Geotechnical investigation and laboratory testing
4. Easement and right-of-way acquisition

