

A/E Services for West Virginia Army National Guard



**HUNTINGTON TRI-STATE ARMORY  
HVAC RENOVATION DESIGN  
CEOI 0603 ADJ2200000014**

**MAY 17, 2022**



EST. 1988

# OUR MISSION

*Our purpose is to enrich  
our communities through  
service to our clients.*

# TABLE OF CONTENTS

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## SECTIONS

1	OUR HISTORY
2	OUR TEAM
3	YOUR PROJECT
5	YOUR TEAM
6	OUR SERVICES
9	OUR EXPERIENCE
10	OUR WORK
21	RESUMES
26	REFERENCES

Department of Administration, Purchasing Division  
David H. Pauline  
2019 Washington Street, East  
Charleston, WV 25305-0130



Mr. Pauline,

Pickering Associates is pleased to have the opportunity to submit this proposal for providing Architectural and Engineering services for the Huntington Tri-State Armory HVAC Renovation Design located in Kenova, WV. We feel confident that our design team is uniquely qualified to provide design and construction administration services as necessary for this project. The professional staff at Pickering Associates is capable of providing full-service delivery to our clients for projects ranging in size and scope. By providing the complete design for a project from within one company, we are able to maintain open communication, multi-discipline coordination, and create a strong partnership with our clients.

In 2019 and early 2020 I worked with the Field Maintenance Shop on the exhaust system renovation at the Kenova Facility. As you are aware, there are many factors that need to be considered when renovating an existing facility. We understand the importance of verifying existing conditions and take great pride in the efforts that our design team goes to for accurate and complete site work and documentation. Our understanding is that the project requires professional services for architectural and engineering. The scope of work currently includes update and renovation of existing HVAC systems at the Huntington Tri-State Armory facility. Having all engineering services in-house will allow us to easily add or modify the scope of work for these services as needed.

Our approach to your project is outlined in this proposal, which will demonstrate our procedure for communication, our strict adherence to schedules and budget, and our reputation for excellent quality service that results in accurate construction documents. Our team has extensive experience with occupied space renovations and we are aware of some of the challenges, concerns, and issues that will need to be addressed throughout design and construction.

At Pickering Associates, we understand the importance of keeping the Owner informed and engaged throughout the entire design and construction process, and we feel that communication is the key to any successful project. Pickering will begin the design process with a face to face organizational meeting with all stakeholders. The purpose of this meeting is to meet the project team, discuss and define the scope of work, and be the kick-off for the design process. After this initial meeting, our Project Manager will work with the design team to provide you with a well-designed and coordinated project, while keeping you informed throughout the entire process.

We believe that our previous related experience, qualified design team, sets us apart, making our full-service design firm an excellent choice for your project.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read 'Jeff Hosek', is located below the 'Respectfully submitted,' text.

Jeff Hosek, PE, LEED AP (BD+C)  
Mechanical Engineering Department Manager | Project Manager  
304.464.5305 EXT: 2002  
jhosek@pickeringusa.com

# ABOUT THE COMPANY

*Founded in 1988, Pickering Associates has been providing architectural, engineering and surveying services throughout West Virginia and Ohio for the past thirty years.*

Our company is the product of three generations and more than 75 years of construction experience. This experience plus state-of-the-art engineering practices create a full-service, multi-discipline, architectural, engineering and surveying firm serving a wide range of needs and featuring innovative, customized solutions. Our highly qualified staff includes licensed professional engineers, professional surveyors, licensed architects, designers, and drafters as well as support personnel.

The disciplines we cover include architecture, surveying, project management, civil engineering, structural engineering, mechanical engineering, electrical engineering, process engineering, automation and control, and construction administration. Pickering Associates specializes in the above listed disciplines with education, government, healthcare, industrial, oil & gas and private sector clients.



**“WE ARE  
COMMITTED TO THE  
PROFESSIONAL  
DEVELOPMENT AND  
TECHNICAL  
ADVANCEMENT OF  
OUR EMPLOYEES.”**

# ABOUT THE PEOPLE

In choosing Pickering Associates, your project will be performed to your specifications with frequent meetings and status reports to keep you up-to-date on the status of the project. Our sole focus is your full satisfaction with the completed quality installation.

Successfully executing more than 10,000 projects in its history, the firm has built a tremendous wealth of experience gaining insight into what works for each of our client types. Those lessons learned add substance to our work and provide our clients with unparalleled value. Our objective is to partner with our clients improving their performance, flexibility, life-cycle cost, sustainability and ultimately well-being.

## LEADERSHIP

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### **C.E.O. & President**

Ryan Taylor  
Sr. Project Manager

### **V.P. of Marketing & Development**

Traci Stotts, AIA, NCARB  
Architect

### **Executive V.P. of Design**

David Boggs, P.E., CPD  
Sr. Mechanical Engineer

### **V.P. of Construction**

Mark Welch, P.E.  
Sr. Project Manager

## DEPARTMENT LEADS

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### **Civil Engineering**

Spencer Kimble, P.E.

### **Electrical Engineering**

Carl Henson, P.E.

### **Mechanical Engineering**

Jeff Hosek, P.E. LEED AP (BD+C)

### **Piping Engineering**

Patrick Flora, E.I.

### **Structural Engineering**

Eric Smith, P.E.

### **Architecture**

Traci Stotts, AIA, NCARB

### **Building Information Modeling**

Chris Algmin, AIA, NCARB

### **Construction Administration**

Sean G. Simon, AIA, NCARB

### **Surveying**

Bill Showalter, P.S.

# YOUR PROJECT

Pickering Associates takes pride in our approach to projects and project management. We strive to deliver consistent projects that execute our Client's expectations.

Our project manager, Jeff Hosek, will communicate with each design discipline through all phases of design and construction to ensure the project is well coordinated. He will keep the WVANG informed throughout the entire process and confirm information gets distributed to the entire team. Communication will be consistent from the project kickoff meeting through closeout. Jeff will also lead in the development of the project schedule in conjunction with WVANG.

## **Goal/Objective 1:**

**Provide a complete design including all engineering and architectural disciplines to prepare construction bid documents for advertising and awarding a construction contract using West Virginia State Purchasing procedures. Key design elements include utilizing energy efficient, economically sustainable and maintenance friendly equipment.**

Pickering Associates endeavors to produce an accurate and well-coordinated set of construction documents for every project that we work on. We are very familiar with West Virginia State Purchasing procedures and guidelines.

Our design process will begin with examining the existing conditions any equipment and facilities. The results of the examination will be incorporated into a schematic design. We feel that time spent with your staff to better understand the project, will allow us to be more efficient in completing the schematic design phase for this project and progress us to the next phase quicker, therefore allowing us to meet your anticipated design schedule.

We always involve the authorities-having-jurisdiction during the schematic design to make certain that we address any and all concerns that they may have, thus reducing costly changes during design and/or construction. We have a close working relationship with agencies such as the West Virginia State Fire Marshal's Office and are familiar with the local and state requirements that need addressed for a wide range of projects.

At the end of the schematic design phase Pickering will present rough sketches to the owner for approval. These

sketches will provide the owner with the opportunity to verify that we have correctly interpreted your desired functional relationships between various activities and spaces.

The design development phase is a transitional phase where the design team moves into developing the contract documents. In this phase, the architects and engineers prepare drawings and other presentation documents to crystallize the design concept and describe it in terms of architectural, electrical, mechanical, and structural systems. In addition, we will also prepare an estimate of probable construction costs so you will have a better indication of anticipated project costs. By preparing this estimate early in the design process, it will allow us to identify potential cost savings that may be required to keep the project within your anticipated budget. At the end of the design development phase, the architect will provide the client with drafted to-scale drawings that will illustrate the project as it would look when it's constructed. These drawings will specifically define the site plan, floor plans and exterior elevations. It is important that the client provide input to the project manager at this time as the design development drawings are used as the basis for the construction drawings and used to further develop and refine the estimate of probable construction costs for the project.

Once the Team prepares detailed working drawings, thus progressing into the construction document phase of the project. During this time, final drawings and specifications are produced for the project. These documents will be used for bidding the project to contractors. These drawings and specifications become part of the construction contract. The construction documents will include all necessary information to ensure that the project will be constructed as conceived by the Owner and design team.

## **Goal/Objective 2:**

**Designer shall be responsible for researching and investigating the location of existing as applicable, and to provide drawings and specifications of any and all utility as needed and directed by the owner and/or state agency, utility company or other approval authority for Kenova, West Virginia.**

Pickering Associates will use our survey crew in conjunction with GPRS, LLC to document the existing utilities. The design documents will show all locations and required changes to the existing utilities.

## **Goal/Objective 3:**

**Drawings, specifications and cost estimates are to be submitted at 35%, 65%, 95% and 100% design mile-**

# YOUR PROJECT CONTINUED...

stones cost estimates are to be revised and submitted with each 35%, 65%, 95% and 100%.

We know the importance of not only understanding our client's budget, but also ensuring that the project is designed to fit into (and stay within) that budget. We utilize cost control methods to make sure that the overall project budget does not increase without the client's knowledge or prior approval. We will provide an updated estimate of probable construction costs for 35%, 65%, 95% and 100% phases of design, thus monitoring and providing control for the project budget. Drawings and specifications will be submitted along with the cost estimates at the 35%, 65%, 95% and 100% milestones. If scope items are added to the project during the design phase we make certain that the client understands the implications and costs associated with each change or addition - prior to officially adding it to the project. We always submit cost estimates with the document submissions. Our cost estimates are line item estimates. We do not use square foot cost estimates. In order to provide estimates for probable construction costs with accuracy, Pickering subscribes to and utilizes RS Means CostWorks On-Line. This tool provides comprehensive, localized, and up-to-date construction costs to help us create reliable estimates for our projects.

#### **Goal/Objective 4:**

##### **Provide construction administration and bidding services to the Owner.**

Pickering Associates can handle the bidding & negotiation phase of the project with our experienced in-house construction administration team. We have systems in place, and are equipped to electronically distribute the bidding documents to contractors and equipment suppliers interested in bidding the project, as well as produce hard copies as required. We will assist in contacting contractors to get interest in bidding the project, answer requests for information during the bidding process, assemble addendums, schedule, coordinate and lead a pre-bid meeting, and assist the owner with bid opening and contractor evaluation.

During construction administration Pickering Associates can be an agent of the owner, overseeing construction to ensure conformity to construction drawings, specifications, and standards. Pickering will assist the owner in awarding the contract, lead and coordinate weekly construction meetings, produce meeting agendas and meeting minutes, answer RFI's from contractors, review submittals, process change orders and pay applications, perform regular site visits, complete a punch list at the end of the project, and keep the owner informed throughout the entire process. This closely monitored

process helps to ensure that the final project represents the intended design as indicated in the construction documents.

#### *Our Unique Qualities:*

We believe that Pickering Associates has many unique qualities that set us apart from other firms. Below is a list of qualities that we feel are worth calling attention to:

- 1) Full Service Firm: Pickering Associates is a Full-Service A/E firm. We have all architects and engineers in-house, including surveyors. Being a full-service design firm, we can effectively and efficiently communicate with our entire team thus ensuring a well-coordinated design effort.
- 2) Our Experience: We have completed other design projects that are similar to your renovation project and have assembled an experienced project team that works well together. We understand the needs of your facility and believe that our work with the WVDNR on prior projects gives us an insight to the scope and design that other firms may not offer.
- 3) Our Technology: Pickering Associates uses Building Information Modeling (BIM), 3D Scanning, Virtual Reality, and 3D printing technology in developing our project concepts throughout the design process, as needed. These tools also allow for us to better communicate the final layout and look of the project with our clients and allows our clients to experience what the project will look like prior to construction.
- 4) Our Communication: Our Project Manager will provide consistent communication with all project stakeholders throughout the project design. We make sure that the project scope and schedule are aligned with the project requirements, and the client's desires and expectations.



## YOUR PROJECT TEAM

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### **Project Owner**

WV Army National Guard  
Construction and Facilities Management Office  
Huntington Tri-State Armory



## LEADERSHIP

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### **Project Manager**

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Jeff Hosek, PE  
LEED AP BD+C  
Mechanical Engineer  
Project Manager

Jeff coordinates and manages a team that provides planning and development to industrial, commercial and institutional accounts. He has a wealth of experience with HVAC design.

## DESIGN TEAM

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### **Structural Engineering**

Eric Smith, PE

### **Electrical Engineering**

Mark Moore, PE

### **Piping Engineering**

David Boggs, PE

### **Construction Administration**

Sean G. Simon, AIA, NCARB



# WHAT FULL SERVICE MEANS

## CIVIC

For owners and designers, civic buildings present a unique set of challenges and opportunities in an effort to maintain, renovate and expand services provided within the facility as well as service a wide range of individuals all with different needs and abilities. While some civic projects allow a design team to start from the ground up, many civic building projects involve the adaptive reuse of an existing facility or an addition to an existing facility in order to facilitate the owner's continued demand for growth. It is also important for owners to find a team with the depth of experience in dealing within the restrictions of limited budgets, governing regulations, multiple phase oversight and approving agencies.

Civic buildings also present a unique design for the team selected for a project by the fact that potentially every component of the design will be subjected to an expanded range of users that are normally not present in other facility designs. Pickering throughout the years has been able to engage with many civic organizations to provide design and consultant services on multiple projects including court room designs, upgrades and renovations, 911 Command Centers, office facilities, fire stations, and conference centers.

Our depth of experience and staffing provides owners with the knowledge and resources to execute their projects effectively. We understand and execute projects to create facilities which meet ADA compliance, higher security through knowledgeable design practices and the use of technology, greater occupancy safety while providing our clients with scheduled phase

gate review points for proper oversight and approval, concise project management to maintain budget and schedule oversight and assistance throughout the review and approval process with governing agencies.

## OUR APPROACH

With the selection of Pickering Associates, your organization gains the full depth of our organization. All projects are scheduled out through all phases of delivery by our resource manager and the project manager, assigning the necessary resources to perform to the schedule necessary for that project and highlight major milestones long before they could become an issue. With more than 60 professionals on staff, you can be confident that Pickering Associates has the resources to meet your project schedule. Because we are a full-service firm, we are able to provide a better coordinated project than firms who are required to use outside consultants. We organize regular in-house project team coordination meetings throughout the design phases of a project to discuss and resolve any issues or concerns that may arise. We feel that this face-to-face coordination with our design team is more effective and efficient than coordinating via email or over the phone.



Our close coordination efforts have proven valuable in many cases where the design schedule is accelerated and/or where there is equipment in the project that requires the effort and coordination of several disciplines.

Pickering Associates has invested in state-of-the art 3D Scanning technologies to more quickly and accurately document existing site conditions. This helps our design teams capture existing site data in more detail and in a format the blends well with our 3D modeling and BIM workflows. This tool allows us to send a small scanning team into an existing building/space and virtually document the conditions of the area in three dimensions, including detailed color photographs throughout the scanned area for design teams to reference throughout the project. This data capture implementation is safer and more efficient for our designers. It reduces the time and equipment needed for traditional hand-measuring that our industry has been accustomed to throughout the years.

By working with Pickering Associates you will see that teamwork is the spirit and foundation of our organization. We acknowledge the importance of a quick turn-around and excellent quality services which our administrative procedures, overall organization and depth of experience are posed to provide you. As you will see from our resumes and company experience, we are uniquely qualified to offer the professional services required and to ensure that your vision becomes a reality.

## **OFFICE LOCATION: HEADQUARTERS**

11283 Emerson Ave.  
Parkersburg, WV 26104

## **CONTACT INFORMATION:**

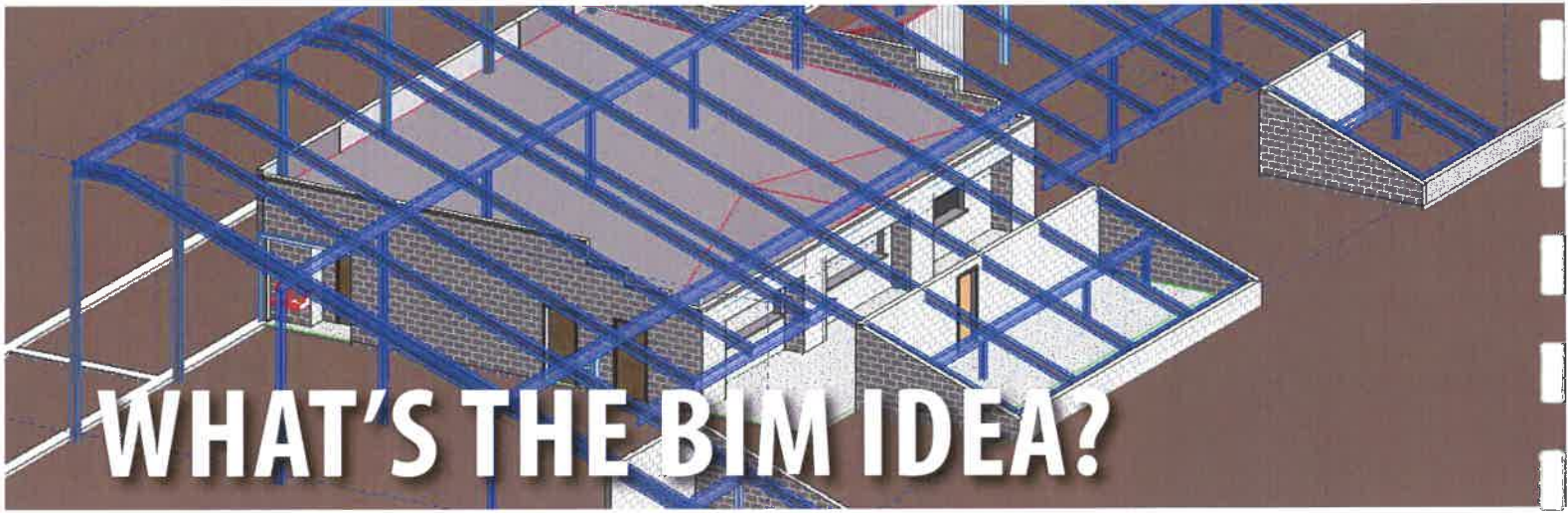
Jeff Hosek, PE, LEED AP (BD+C)  
Mechanical Engineering Dept. Mgr/  
Sr. Project Manager  
(P) (800) 954-5305 EXT: 2002  
(E) [jhosek@pickeringusa.com](mailto:jhosek@pickeringusa.com)

## **SERVICES:**

Architecture  
Interior Design  
3D Model Design  
Landscape Architecture  
Civil Engineering  
Structural Engineering  
Electrical Engineering  
Automations & Controls  
Mechanical Engineering  
Piping Engineering  
Process Engineering  
Surveying  
Marketing Development  
Construction Services  
Project Management

**Rated as one of the  
TOP  
Engineering Firms in  
West Virginia.**

*- The State Journal*



# WHAT'S THE BIM IDEA?

Pickering Associates "IDEA" is our Integrated Design Execution Approach.

**Integrated** - we want our clients, contractors and end users engaged in the process of design. When the right people are involved, accessing the best information, good decisions are made.

**Design Execution**- refers to how we develop and optimize your project. We focus on the questions that have the most impact. We assign the right staff with the right tools

**Our Approach**- recognizes that projects are constantly changing and evolving as the project progresses. We tailor a plan for the project objective, maintain and monitor it so it remains optimized to achieve project goals, faster.

Pickering Associates' Integrated Design Execution Approach - our "IDEA", is a big deal, and will help your project be successful.

Building Information Modeling is a process that aligns to all aspects of our "IDEA". It is integrated, allowing easy access to project information. The software we use help understand the proposed design, coordinate, and identify the critical problems that need answers. Most importantly, Building Information Modeling is a process that fits with our Approach. Allowing the project team to evolve seamlessly as more information is available and new stakeholders are brought onto the team.

Efficient visual communication and an in-depth design understanding are the greatest assets that BIM brings to the table at Pickering Associates. The composite model allows our team to accelerate project development and simplify conversations during design reviews. Having the capability to visualize all of the design models together in a single review session aides both inter- and

intra-department collaboration with all project stakeholders like never before. Capturing all client and designer comments and feedback within a 3D model live during a review session saves countless hours of paging through "redlines" generated from traditional 2D physical paper reviews. The added capacity to search and export reports of these digital comments allows our team to capture and track design communications more efficiently than ever before.

Pickering Associates has invested in state-of-the-art 3D Scanning technologies to more quickly and accurately document existing site conditions. This helps our design teams capture existing site data in more detail and in a format the blends well with our 3D modeling and BIM work flows.

This tool allows us to send a small scanning team into an existing building/space and digitize the as-built conditions of the area in three dimensions, including detailed color photographs throughout the scanned area for design teams to reference throughout the project. This data capture implementation is safer and more efficient for our designers. It reduces the time and equipment needed for traditional hand-measuring that our industry has been accustomed to throughout the years. Granting our designers the ability to measure from a 360 degree image or point cloud with higher accuracy and faster than field measurements.

Building Information Modeling is a process that starts at integrating the team, provides access to project information, incorporates tools to understand design execution, and allows teams to focus on what matters most for the project. It perfectly complements Pickering's Integrated Design Execution Approach, and we can't wait to show you BIM and our "IDEA"s!

# EXAMPLES OF PAST PROJECTS/GOVERNMENTAL

## **West Virginia Army National Guard Charleston, WV**

Kenova Vehicle Exhaust HVAC Upgrades  
Eleanor Readiness Center HVAC Renovations  
Camp Dawson Building 215 Windows and Door Replacements  
Camp Dawson Rappel Tower Renovation  
Camp Dawson Structural Repairs  
Camp Dawson Airfield Support Facility  
Camp Dawson Cottages Renovations  
Camp Dawson Bldg 215 Medical Wing Renovation

## **West Virginia Air National Guard Charleston, West Virginia (Yeager Airport)**

Fire/Crash Rescue Station 130th Airlift Wing

## **State of West Virginia Charleston, WV**

Building 8 - Evaluation  
Building 22 Dept of Tax and Revenue - HVAC

## **West Virginia Department of Natural Resources Charleston, WV**

Chief Logan Pump  
New District 6 Office Design  
North Bend Lodge Renovations

## **City of Marietta Marietta, OH**

Phase 1,2,3 Marietta City Hall Renovations  
City Hall Roof Replacement  
Armory Structural & Reroofing  
Duckbill Outfall  
Water Treatment Plant Solids Contact Tank Painting  
North Hills Elevated Water Tank  
Channel Lane Culvert  
Harmar & 676 Elevated Water Tanks  
Sherry Dr/Hadley Ln Water LN Replacement  
Additional Survey-Sherry Dr/Hadley Water  
Greene ST/Colegate Dr Waterline Replacement  
Armory Ground Floor Renovations  
Marietta Waste Water Treatment Plant Phase 2 Services  
Armory Elevator

## **City of Parkersburg Parkersburg, WV**

Engineering Assistance with Boiler I  
Old Sumner School Site and Building Evaluation  
Downtown Electrical Lighting Design  
Emerson New Fire Station Design & Construction Administration  
Covert Street New Fire Station Design & Construction Administration  
Liberty Street New Fire Station Design  
City of Parkersburg Master Planning Design

## **City of Vienna Vienna, WV**

New Building Addition for Police Phase 1&2  
Police Department Redesign  
New Senior Center Addition

## **Vienna Volunteer Fire Department Vienna, WV**

Vienna Volunteer Fire Station Addition  
Police Station Generator Renovation

## **HAPCAP**

**Athens, Hocking, Perry, OH**  
South East Ohio Foodbank Freezer  
Elevator Addition

## **Parkersburg Utility Board Parkersburg, WV**

Repair Martown Reservoir Communication  
Add radio & PLC to Pettyville site  
Quincy Street SCADA

## **Putnum Water Corporation Marietta, OH**

Pump Controls Call-Out  
Solar Panel Call-out 10/2010  
New Water Plant SCADA Installation  
Additional Water Plant SCADA Installation  
Robinson Road Waterline  
Chevy Chase Manor Water Line

## **Parkersburg & Wood County Library Parkersburg, WV**

Library Sign Foundation  
Emerson Library Roof Replacement  
Emerson Library Renovation & New Entry Addition



## PROJECT SPECS:

PROJECT COST  
\$130,000

SQUARE FOOTAGE  
N/A

DESIGN COMPLETION  
APRIL 2019

CONSTRUCTION COMPLETION  
JANUARY 2020

## SERVICES PROVIDED

MECHANICAL ENGINEERING  
ELECTRICAL ENGINEERING  
CONSTRUCTION MANAGEMENT  
PROJECT MANAGEMENT

## CLIENT CONTACT

DAVID UNRUE  
PROJECT MANAGER  
P) (304) 561-6775  
E) DAVID.R.UNRUE.NFG@MAIL.MIL

Pickering Associates provided professional engineering services to The West Virginia Army National Guard for the renovations to an existing vehicle exhaust system in the field maintenance shop (FMS) at their Kenova facility. The renovations had to meet the HEMTT vehicle exhaust flow rate of 500 cubic feet per minute (CFM).

The scope of work included replacement of two existing engine exhaust fans with two new fans including two hose reels per system, for a total of four. Project included documentation of existing building, development of construction documents, preparation of probable construction cost, bidding, contracting and construction administration.





# WVANG - ELEANOR ARMED FORCES CTR

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## HVAC RENOVATIONS

### PROJECT SPECS:

PROJECT COST  
\$646,400

DESIGN COMPLETION  
AUGUST 2020

CONSTRUCTION COMPLETION  
FEBRUARY 2021

### SERVICES PROVIDED

ELECTRICAL  
MECHANICAL  
CONSTRUCTION MANAGEMENT  
PROJECT MANAGEMENT

### CLIENT CONTACT

DAVID UNRUE  
PROJECT MANAGER  
P) (304) 561-6775  
E) DAVID.R.UNRUE.NFG@MAIL.MIL

The West Virginia Army National Guard selected Pickering Associates to design improvements to their HVAC equipment.

The existing shower and locker room incorporated a new cooling unit and two other existing units were also replaced due to age. Pickering Associates worked with the client to select an energy recover unit with a cooling coil and heating coil to save on energy as well as control humidity within the shower and locker space. Two large packaged rooftop units were included in the design as alternates.

During the design the client desired to include a control sequence to close off all openings into the building as well as de-energize all air moving equipment.

The equipment and controls were awarded, and constructed on time and under budget.





# WV ARMY NATIONAL GUARD CAMP DAWSON COTTAGE RENOVATIONS

## PROJECT SPECS:

PROJECT COST  
EST \$1.25 MILLION

SQUARE FOOTAGE 3 COTTAGES:  
1300 SF  
2700 SF  
3400 SF

DESIGN COMPLETION  
75% COMPLETE

CONSTRUCTION COMPLETION  
TBD

## SERVICES PROVIDED

ARCHITECTURAL  
STRUCTURAL  
CIVIL  
ELECTRICAL  
MECHANICAL  
PLUMBING  
CONSTRUCTION MANAGEMENT  
PROJECT MANAGEMENT

## CLIENT CONTACT

JONATHAN NEAL  
CFO-TSB  
E) JONATHAN.L.NEAL@NFG@MAIL.MIL

The West Virginia Army National Guard selected Pickering Associates to design improvements to three residential cottages at their Camp Dawson facility in Kingwood, WV. The cottages are used by traveling staff and visitors at the base. Each cottage has its own style, ranging from rustic to elegant, and will receive upgrades and improvements inside and out.

Renovations include new exterior siding and stone, windows, doors, and site improvements such as new patios and ADA ramps. Interior upgrades include total energy-efficient HVAC and lighting replacement, electrical improvements, new plumbing fixtures, fully remodeled restrooms and kitchens, and new interior doors. Some rooms will be redesigned to create an open floor plan in the living/kitchen areas, and some guest rooms will be provided with new private bathrooms where they were originally shared between rooms. In addition, all flooring and trim will be replaced, and all walls and ceilings will be painted or covered. New gas fireplaces will be installed in all three cottages, and all units will be upgraded to be compliant with ADA.

Once complete, the cottages will be virtually entirely renovated for improved comfort, energy efficiency and safety for all guests and visitors.





## WVANG - CAMP DAWSON

# AIRFIELD SUPPORT FACILITIES RENOVATION

### PROJECT SPECS:

ESTIMATED PROJECT COST  
\$992,240

DESIGN COMPLETION  
SPRING 2021

CONSTRUCTION COMPLETION  
TO BE DETERMINED BY OWNER

### SERVICES PROVIDED

ARCHITECTURE  
CIVIL  
ELECTRICAL  
MECHANICAL  
PLUMBING  
STRUCTURAL  
CONSTRUCTION ADMINISTRATION  
PROJECT MANAGEMENT

### CLIENT CONTACT

JONATHAN NEAL  
DEPUTY BRANCH CHIEF  
TRAINING SITE BRANCH  
P) (304) 791-4138  
E) JONATHAN.I.NEAL.NFG@MAIL.MIL

The West Virginia Army National Guard selected Pickering Associates to design renovations to two existing buildings which serve as support facilities for the airfield at Camp Dawson.

One building is a single story structure that provides temporary lodging for pilots while onsite. Renovations will include all new blast-resistant exterior doors and windows, new interior doors, upgraded plumbing, HVAC and electric, and all new interior finishes.

The other building is also one story, and houses the control room for the airfield, and miscellaneous offices. Renovations will include all new blast-resistant doors and windows, a new roof, new interior doors, construction of new offices, a conference room, a new ADA restroom, and a garage for a utility vehicle. In addition, the building will receive all new interior finishes and ADA improvements, and the plumbing, HVAC and electric will be upgraded.



## PROJECT SPECS:

ESTIMATED PROJECT COST  
\$1,800,000

DESIGN COMPLETION  
WINDOWS AND DOORS - SPRING 2019  
MED WING - MARCH 2022

CONSTRUCTION COMPLETION  
WINDOWS AND DOORS - FALL 2021  
MED WING - EST. FALL 2022

## SERVICES PROVIDED

ARCHITECTURE  
ELECTRICAL  
MECHANICAL  
PLUMBING  
CONSTRUCTION ADMINISTRATION

## CLIENT CONTACT

JONATHAN NEAL  
DEPUTY BRANCH CHIEF  
TRAINING SITE BRANCH  
P) (304) 791-4138  
E) JONATHAN.I.NEAL.NFG@MAIL.MIL

The West Virginia Army National Guard Command was seeking architectural and engineering professional services to renovate Building 215 at Camp Dawson. This facility houses West Virginia National Guard troops for training and medical examination.

Two separate projects took place. One project included complete replacement of doors and windows with new blast-resistant exterior doors and windows and all new interior doors. The second project includes complete demo and reconstruction of the medical wing to provide new waiting rooms, exam rooms, a dental suite, EKG room, hearing testing and multiple private offices, consultation rooms and restrooms.





## PROJECT SPECS:

ESTIMATED PROJECT COST  
\$425,962

DESIGN COMPLETION  
APRIL 2019

CONSTRUCTION COMPLETION  
JUNE 2021

## SERVICES PROVIDED

ARCHITECTURE  
CIVIL  
ELECTRICAL  
MECHANICAL  
STRUCTURAL  
CONSTRUCTION MANAGEMENT

## CLIENT CONTACT

TODD REYNOLDS  
PROJECT MANAGER  
P) (304) 561-6658  
E) MATTHEW.T.REYNOLDS18.NFG@MAIL.MIL

The West Virginia Army National Guard Command was seeking architectural and engineering professional services for the restoration of the Rappel Tower Support Facilities at Camp Dawson. The Rappel Tower Support Facilities consists of two (2) pre-fabricated concrete buildings; one of which is a classroom building, and the other restroom facilities. Each building has some structural and sustainment issues that need to be addressed both structurally and mechanically. This facility is used by soldiers in training.

The design elements for the project generally included abating mildew and molded wall board and material from classroom area, addressing roof issues, storm drainage, design for new HVAC systems, new instantaneous domestic hot water system, restroom renovations, and new interior and exterior LED lighting for both buildings.

During the development and progression of design scope it was determined that the electrical service to the classroom building and the electrical distribution panel in the restroom building were insufficient to power the necessary and needed HVAC systems to meet the request to air condition the restroom building of the project. Pickering Associates addressed this additional scope with no delay in the schedule.



## PROJECT SPECS:

PROJECT COST  
\$2,308,775

DESIGN COMPLETION  
MAY 2020

CONSTRUCTION COMPLETION  
APRIL 2021

## SERVICES PROVIDED

ARCHITECTURE  
STRUCTURAL  
PLUMBING  
ELECTRICAL  
MECHANICAL  
CONSTRUCTION MANAGEMENT  
PROJECT MANAGEMENT

## CLIENT CONTACT

SCOT R. CASDORPH, PE  
ARCHITECTURE & ENGINEERING MANAGER  
P) (304) 957-7145  
E) SCOT.R.CASDORPH@WV.GOV

General Services Division's Building 22 houses WV State Tax Department. The building is four floors with a mezzanine and a full basement.

The project included removal of an existing roof top chiller, installation of two new roof top units, installation of a dry cooler, replacement of all VAV's thru out the building, removal of all existing air handlers, installation of new ductwork from the roof top units down to each floor in an exterior enclosure, and new controls for all VAV's and roof top units. There are CRAC units on the second floor which were changed over to operate with the roof mounted dry cooler since the chiller was removed.

The work was completed while the building was occupied. With a great deal of preplanning and a team approach each bi-weekly job meeting included discussion of progress and any needed changes were made relating to the schedule and relocation of staff. The most important factor was to keep the Tax operations working and this was accomplished.





# WOOD COUNTY SCHOOLS

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## HVAC UPGRADES - 2021

### PROJECT SPECS:

PROJECT COST  
EST \$21 M

SQUARE FOOTAGE  
VARIOUS

DESIGN COMPLETION  
JEFFERSON ELEMENTARY - JAN 2022

CONSTRUCTION COMPLETION  
VARIOUS  
JEFFERSON ELEMENTARY - EST SEPT 2022

### SERVICES PROVIDED

MECHANICAL  
ELECTRICAL  
ARCHITECTURAL  
STRUCTURAL  
PIPING  
PLUMBING  
CONSTRUCTION MANAGEMENT

### CLIENT CONTACT

MICHAEL FLING  
ASSISTANT SUPERINTENDENT  
P) (304) 420-9670 X172  
E) MFLING@K12WV.US

Wood County Schools (WCS) desires renovate existing HVAC systems in at least eight (8) facilities throughout the county. Those facilities will be listed in order of priority in the Basic Services. WCS has asked Pickering Associates to perform Design and Construction Administration (CA) services for each of the projects that will be bid out in separate packages. (Emerson Elementary, Edison Middle School, Jefferson Elementary, Martin Elementary, Parkersburg South High School, Parkersburg High School, Kanawha Elementary, Lubeck Elementary and other County property as funding becomes available.)

At this time Jefferson Elementary has been designed and bid out. Improvements include but are not limited to demolition of existing systems, procurement and installation of new equipment, associated architectural improvements, and electrical improvements to complete the HVAC Improvements to Jefferson Elementary School Project Estimated Schedule: Project awarded on February 23, 2022 and to be completed on or before September 23, 2022. Project Cost for Jefferson Elementary: \$3,319,833.



# CHARLESTON AREA MEDICAL CENTER WOMEN & CHILDREN'S HVAC

## PROJECT SPECS:

PROJECT COST  
\$1,166,400

SQUARE FOOTAGE  
N/A

DESIGN COMPLETION  
FEBRUARY 2019

CONSTRUCTION COMPLETION  
JANUARY 2020

## SERVICES PROVIDED

ELECTRICAL  
MECHANICAL  
CONSTRUCTION MANAGEMENT  
PROJECT MANAGEMENT

## CLIENT CONTACT

DAVID CHILDERS  
CORPORATE DIRECTOR  
P) (304) 388-4930  
E) DAVID.CHILDRES@CAMC.ORG

The hospital desired flexibility/redundancy to switch from one of two plants in the event of maintenance or equipment failure. Chilled water pumps serving each side were separated with a cross connection between the existing 350 ton and 250 ton chiller plants at the Charleston Area Medical Center (CAMC) Women and Children's Facility.

The 350 ton unit is currently feeding 200 gallons per minute (GPM) to the 250 ton chiller loop. With the additional chilled water demand and the future cross over to the 250 ton chiller on the existing pumping system the existing duty/stand-by pumps were not sufficient. Both the duty and stand-by pumps will be upgraded to meet the new flow requirements. The pumps were designed operate in tandem to supply the total connected flow. The pumps were provided with VFD's for future modulating control of the future cross over piping system.

The intent of the future cross over piping is to remove the existing cross connection and abandon it in place and install a new cross connection sized for 100% of the current load served by the 250 ton chiller. The new cross connection will continually feed the 250 ton chiller loop and during emergency situations feed 100% of the demand on the 250 ton chiller plant.



# NOBLE LOCAL SCHOOL DISTRICT

## HVAC RENOVATIONS

### PROJECT SPECS:

PROJECT COST  
\$2.3M

SQUARE FOOTAGE  
63,000 SF

DESIGN COMPLETION  
JUNE 2017

CONSTRUCTION COMPLETION  
SEPTEMBER 2017

### SERVICES PROVIDED

ARCHITECTURE  
ELECTRICAL  
MECHANICAL  
PIPING  
PROJECT MANAGEMENT

### CLIENT CONTACT

DAN LEFFINGWELL  
SUPERINTENDENT  
P) (740) 732-2084  
E) DAN.LEFFINGWELL@GOZEPS.ORG

Pickering Associates was hired by the Noble Local School District to renovate the K-8 Building to completely redo the entire HVAC and cooling systems for the entire building. Pickering Associates performed a complete evaluation of the structure and the conditions it was in as well as a development plan of where to put the new systems.

The project required the skill set of the Structural, Mechanical, Architectural, Plumbing, and Electrical design. The entire system was completely replaced and upgraded to improving heating efficiency as well as install a new cooling system that the school did not have prior to the renovations. Pickering Associates performed all the Bidding and Construction Administration for the construction phase of the project, and it was completed in the summer of 2017 and was completed within the three-month period while administrative staff occupied the facility.





## WEST VIRGINIA UNIVERSITY AT PARKERSBURG

CAPERTON CENTER  
FOR APPLIED TECHNOLOGY

# CAPERTON CENTER HVAC REWORK

### PROJECT SPECS:

#### PROJECT COST

\$320,000

#### SQUARE FOOTAGE

10,000 SF

#### DESIGN COMPLETION

JANUARY 2010

#### CONSTRUCTION COMPLETION

AUGUST 2010

### SERVICES PROVIDED

ARCHITECTURE

ELECTRICAL

MECHANICAL

PIPING

CONSTRUCTION MANAGEMENT

### CLIENT CONTACT

ALICE HARRIS

P) (304) 424-8225

E) AHARRI13@WVUP.EDU

Pickering Associates worked with WVU at Parkersburg to rework HVAC in four classroom bays in the Caperton Center for Applied Technology Building. Existing rooftop air handling units originally installed for a group of hands-on, heavy machinery training bays had become inefficient as a result of educational programming changes. Space are now set up for more traditional style classrooms and labs. WVU-P sought out our services to consolidate the HVAC system for these areas into a single unit to more efficiently and quietly service the bays.

The existing bays were served by individual roof mounted air handlers. The four main rooms consisted of training areas for either high school students or college students for the training of firefighters, electrical, computer, and lab training rooms. Each of the four bays had a training area and an individual office. It had been the experience of the faculty and staff that this setup proved difficult to easily keep a comfortable, learning atmosphere.

As part of the project, a suspended ceiling and modified lighting was designed for each bay/classroom. This helped both acoustics and aesthetics by better containing a dense network of drains, electrical busses and ductwork. Four existing transformers, previously located within these classrooms, were relocated to storage areas.

Pickering Associates also provided design & specifications for replacing the entire roof area that was affected as a result of the work. This was bid as an alternate to only patching affected areas.





## JEFFREY HOSEK, P.E. LEED AP

MECHANICAL ENGINEER  
LEED PROJECT ENGINEER  
MECHANICAL ENGINEERING DEPARTMENT MANAGER

### BACKGROUND:

#### EDUCATION

UNIVERSITY OF AKRON  
B.S. MECHANICAL ENGINEERING

#### LICENSES

PROFESSIONAL ENGINEER  
W.VA., OHIO, KY., PA., LA., VA., MINN.  
LEED AP (BD&C)

#### YEARS EXPERIENCE

23 YEARS

- Project Manager and Mechanical Engineer on WVANG Eleanor Armed Forces Center in Red House, WV
- Project Manager on WVANG Kenova Shop Vehicle Exhaust in Kenova, WV
- Lead Mechanical Engineer - HVAC Camp Dawson Cottages in Kingwood, WV
- Lead Mechanical Engineer - HVAC Camp Dawson Building 215 Medical Wing Renovation in Kingwood, WV
- Lead Mechanical Engineer - HVAC Rappel Tower Support Renovation in Kingwood, WV
- Lead Mechanical Engineer - HVAC Camp Dawson Airfield Support Facility in Kingwood, WV
- Lead Mechanical Engineer - HVAC Wood County Schools 2021 HVAC Upgrades Wood County, WV (Approx \$21 Million)
- Project Manager CAMC Womens & Children HVAC Renovation Charleston, WV
- Lead Mechanical Engineer - HVAC State of WV Building 22 HVAC Renovations in Charleston, WV
- Project Manager for Noble Local School District K-8 Building HVAC Replacement Noble County, OH
- Lead Mechanical Engineer West Virginia University - Parkersburg Caperton Center HVAC Rework in Parkersburg, WV
- Lead Mechanical Engineer for West Virginia Dept of Natural Resources District 6 Complex in Parkersburg, WV
- Lead Mechanical Engineer for West Virginia Dept of Natural Resources North Bend Lodge Renovation in Parkersburg, WV in Cairo, WV

SOMETIMES THE QUESTIONS ARE COMPLICATED AND THE ANSWERS ARE SIMPLE.

Dr. Seuss



## ERIC SMITH, P.E.

DEPARTMENT MANAGER  
STRUCTURAL ENGINEER

### BACKGROUND:

#### EDUCATION

MARSHALL UNIVERSITY  
M.S. ENGINEERING MANAGEMENT  
WEST VIRGINIA UNIVERSITY  
B.S. CIVIL ENGINEERING

#### LICENSES

PROFESSIONAL ENGINEER  
W.VA. & OHIO

#### YEARS EXPERIENCE

16 YEARS

- Structural Engineer on WVANG Eleanor Armed Forces Center in Red House, WV
- Structural Engineer Camp Dawson Cottages in Kingwood, WV
- Structural Engineer Rappel Tower Support Renovation in Kingwood, WV
- Structural Engineer Wood County Schools 2021 HVAC Upgrades Wood County, WV (Approx \$21 Million)
- Structural Engineer West Virginia University - Parkersburg Caperton Center HVAC Rework in Parkersburg, WV
- Structural Engineer for Noble Local School District K-8 Building HVAC Replacement Noble County, OH
- Structural Engineer for West Virginia Dept of Natural Resources District 6 Complex in Parkersburg, WV
- Structural Engineer for West Virginia Dept of Natural Resources North Bend Lodge Renovation in Parkersburg, WV in Cairo, WV
- Structural Engineer CAMC Womens & Children HVAC Renovation Charleston, WV
- Marietta City Armory Renovations, Marietta, Ohio.
- City of Marietta City Hall Renovations, Marietta, Ohio.
- City of Marietta Wastewater Treatment Plant Renovations, Marietta, Ohio.
- Structural Engineer of Record for the Ohio Department of Transportation Facility of Washington County, Ohio.
- Senior Project Manager and Structural Engineer of Record for Catwalk repairs at Ohio University in Athens, Ohio.
- Structural Engineer for Breakroom Addition to Hino Plant in Mineral Wells, WV

PERFECTION IS NOT ATTAINABLE, BUT IF WE CHASE PERFECTION WE CAN CATCH EXCELLENCE.

Vince Lombardi



## DAVID BOGGS, P.E.

EXECUTIVE VICE PRESIDENT OF DESIGN  
SENIOR MECHANICAL ENGINEER,  
SENIOR PLUMBING ENGINEER

### BACKGROUND:

#### EDUCATION

MARSHALL UNIVERSITY  
M.S. ENGINEERING MANAGEMENT

VIRGINIA TECH.  
B.S. MECHANICAL ENGINEERING

#### LICENSES

PROFESSIONAL ENGINEER  
WV & OH

#### YEARS EXPERIENCE

25 YEARS

- Piping and Plumbing Engineer on WVANG Eleanor Armed Forces Center in Red House, WV
- Piping and Plumbing Engineer on WVANG Kenova Shop Vehicle Exhaust in Kenova, WV
- Piping and Plumbing Engineer Camp Dawson Cottages in Kingwood, WV
- Piping and Plumbing Engineer Camp Dawson Building 215 Medical Wing Renovation in Kingwood, WV
- Piping and Plumbing Engineer Rappel Tower Support Renovation in Kingwood, WV
- Piping and Plumbing Engineer Camp Dawson Airfield Support Facility in Kingwood, WV
- Piping and Plumbing Engineer and Construction Administration for Wood County Schools 2021 HVAC Upgrades Wood County, WV (Approx \$21 Million)
- Piping and Plumbing Engineer State of WV Building 22 HVAC Renovations in Charleston, WV
- Piping and Plumbing Engineer for correcting issues with Ejector Pump State of WV Building 22
- Piping and Plumbing Engineer for Noble Local School District K-8 Building HVAC Replacement Noble County, OH
- Piping and Plumbing Engineer West Virginia University - Parkersburg Caperton Center HVAC Rework in Parkersburg, WV
- Piping and Plumbing Engineer for West Virginia Dept of Natural Resources District 6 Complex in Parkersburg, WV
- Piping and Plumbing Engineer for West Virginia Dept of Natural Resources North Bend Lodge Renovation in Parkersburg, WV in Cairo, WV

DETERMINE THAT THE  
THING CAN AND SHALL  
BE DONE, AND THEN WE  
SHALL FIND THE WAY.

Abraham Lincoln



# MARK MOORE, P.E.

ELECTRICAL ENGINEER

## BACKGROUND:

### EDUCATION

WEST VIRGINIA UNIVERSITY INSTITUTE OF  
TECHNOLOGY  
B.S. ELECTRICAL ENGINEERING

### LICENSES

PROFESSIONAL ENGINEER  
WV, MD

### YEARS EXPERIENCE

20 YEARS

- Electrical Engineer on WVANG Eleanor Armed Forces Center in Red House, WV
- Electrical Engineer on WVANG Kenova Shop Vehicle Exhaust in Kenova, WV
- Electrical Engineer on WVANG Camp Dawson Rappell Tower in Kingwood, WV
- Electrical Engineer State of WV Building 22 HVAC Renovations in Charleston, WV
- Electrical Engineer for West Virginia Dept of Natural Resources North Bend Lodge Renovation in Parkersburg, WV in Cairo, WV
- Electrical Engineer for HVAC renovations for Cabell Huntington Hospital located in Huntington, WV.
- Electrical Engineer for Randolph County Development Authority at Armstrong Manufacturing in Beverly, WV.
- Electrical Engineer for a Commercialization Station for the City of Bluefield, WV.
- Electrical Engineer for upgrades and installation of a new building complex that allows for Fermentation, Chiller Relocation in Maxwelton, West Virginia.
- Electrical Engineer for Ona Transmitting Station Electrical Study for WSAZ television station located in Charleston, WV.
- Electrical Engineer for renovations made at the Memorial EP Lab Charleston Area Medical Center in Charleston, WV.
- Electrical Engineer for renovations performed in the Wound Care Clinic at Cabell Huntington Hospital in conjunction with Ed Tucker Architects, in Huntington WV.

SUCCESS IS NO ACCIDENT.  
IT IS HARD WORK, PER-  
SEVERANCE, LEARNING,  
STUDYING, SACRIFICE  
AND MOST OF ALL, LOVE  
OF WHAT YOU ARE DOING  
OR LEARNING TO DO

Pele



## SEAN G. SIMON, AIA, NCARB

DIRECTOR OF CONSTRUCTION SERVICES  
PROJECT ARCHITECT  
COST ESTIMATING  
QUALITY REVIEW OF FINAL BID PACKAGES

### BACKGROUND:

#### EDUCATION

CONSTRUCTION SPECIFICATIONS INSTITUTE  
CONSTRUCTION DOCUMENT TECHNOLOGIST  
UNIVERSITY OF TENNESSEE  
PROFESSIONAL BACHELOR OF ARCHITECTURE

#### LICENSES

PROFESSIONAL ARCHITECT  
WV

#### YEARS EXPERIENCE

31 YEARS

- Thirty-one years of experience in architectural programming, design, construction document production, and construction contract administration.
- Construction Administrator on WVANG Eleanor Armed Forces Center in Red House, WV
- Construction Administrator on WVANG Camp Dawson Rappell Tower in Kingwood, WV
- Project Manager and Construction Administrator State of WV Building 22 HVAC Renovations in Charleston, WV
- Project Manager and Construction Administrator for correcting issues with Ejector Pump State of WV Building 22
- Construction Administrator Camp Dawson Cottages in Kingwood, WV
- Construction Administrator Camp Dawson Building 215 Medical Wing Renovation in Kingwood, WV
- Construction Administrator Camp Dawson Airfield Support Facility in Kingwood, WV
- Project Manager and Construction Administrator State of WV Building 32 Water Infiltration Issues in Huntington, WV
- Construction Administration CAMC Womens & Children HVAC Renovation Charleston, WV
- Construction Administrator for over 1 million square feet of roof replacement
- Construction Administrator for Wood County Schools Blennerhassett Elementary Addition
- Project Architect for the construction of an 8,400 sf facility for the Moorefield National Guard Armory.

“QUALITY IS NOT AN ACT,  
IT IS A HABIT.”

Aristotle



# REFERENCES

  
**City of Marietta** Engineer  
 (P) (740) 373-5495  
 (E) joseph.tucker@mariettaoh.net

  
**Randolph County Development Authority**  
 Elkins, W.Va.  
 Robert L. Morris, Jr., Executive Director  
 (P) (304) 637-0803  
 (E) ROBBIE@RCDA.ORG



**City of Vienna**  
 Vienna, WV  
 Randall Rapp, Mayor of Vienna  
 (P) (304) 295-5070  
 (E) rcrapp@suddenlink.net

Robert L. Morris, Jr., Executive Director  
 (P) (304) 637-0803  
 (E) ROBBIE@RCDA.ORG



**Charleston Area Medical Center**  
 Charleston, W.Va.  
 David Childers, Director of Construction Services  
 (P) (304) 388-4930  
 (E) david.childers@camc.org



**West Virginia General Services**

**State of WV General Services**  
 Charleston, WV  
 Scot Casdorff, PE  
 Architecture & Engineering Manager  
 (P) (304) 957-7145

**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Name, Title) Jeff Hosek, PE, LEED AP (BD+C)/Mechanical Engineering Department Manager/Project Mgr

(Printed Name and Title) Jeff Hosek, PE, LEED AP (BD+C)/Mechanical Engineering Department Manager/Project Mgr

(Address) 11283 Emerson Avenue / Parkersburg, WV 26104

(Phone Number) / (Fax Number) 740-541-2554 / 800-954-5305 / 304-464-4428

(email address) jhosek@pickeringusa.com

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

*By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.*

Pickering Associates

(Company)

  
(Authorized Signature) (Representative Name, Title)

Jeff Hosek, PE, LEED AP (BD+C)/Mechanical Engineering Department Manager/Project Mgr May 17, 2022

(Printed Name and Title of Authorized Representative) (Date)

740-541-2554 / 800-954-5305 / 304-464-4428

(Phone Number) (Fax Number)

jhosek@pickeringusa.com

(Email Address)