



Architects • Engineers • Surveyors

Expression of Interest:

*West Virginia Army National Guard
HVAC Renovation/Upgrade Design for
Dunbar and Bluefield Armories*

State of West Virginia Centralized Expression of Interest - Solicitation # 0603 ADJ160000002

07/06/16 09:34:48
WV Purchasing Division

www.PickeringUSA.com



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Architects • Engineers • Surveyors

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

Dear Review Committee:

Pickering Associates is pleased to have the opportunity to submit this proposal for providing architectural/engineering services for the HVAC Replacement/Upgrades at the Dunbar and Brushfork Armories. We feel confident our design team is uniquely qualified to provide design services for this project and feel a team approach between WV Army National Guard officials and its engineers/architects is the key to the successful completion of your project.

Pickering Associates is pleased to present our proposal outlining our technical expertise, management, staff capabilities and experience for providing high quality engineering and architectural services. Our approach will offer advantages in methodology and delivery, which will elevate the success of your project both now and for years to come.

We understand the primary focus is on replacing/upgrading the existing HVAC systems for both the Dunbar and Brushfork Armories to better serve the current and future demands of these facilities. Our team, through our past projects and experiences, has learned unique ways to meet even the most challenging of demands. We will take the time to review and evaluate not only the existing equipment but also understand the issues and challenges the owner and personnel at these locations are struggling with on a daily basis. We look forward to personally discussing our qualifications to complete this project on time, within budget and exceeding your expectations.

Should you have any questions regarding this proposal, please do not hesitate to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Hosek".

Jeff Hosek, PE, LEED AP (BD+C)
Mechanical Engineering Department Manager

Management and Staffing

Parkersburg

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Marietta

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Athens

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Founded in 1988, Pickering Associates has been providing architectural, engineering and surveying services to the Mid-Ohio Valley for over twenty-five 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.

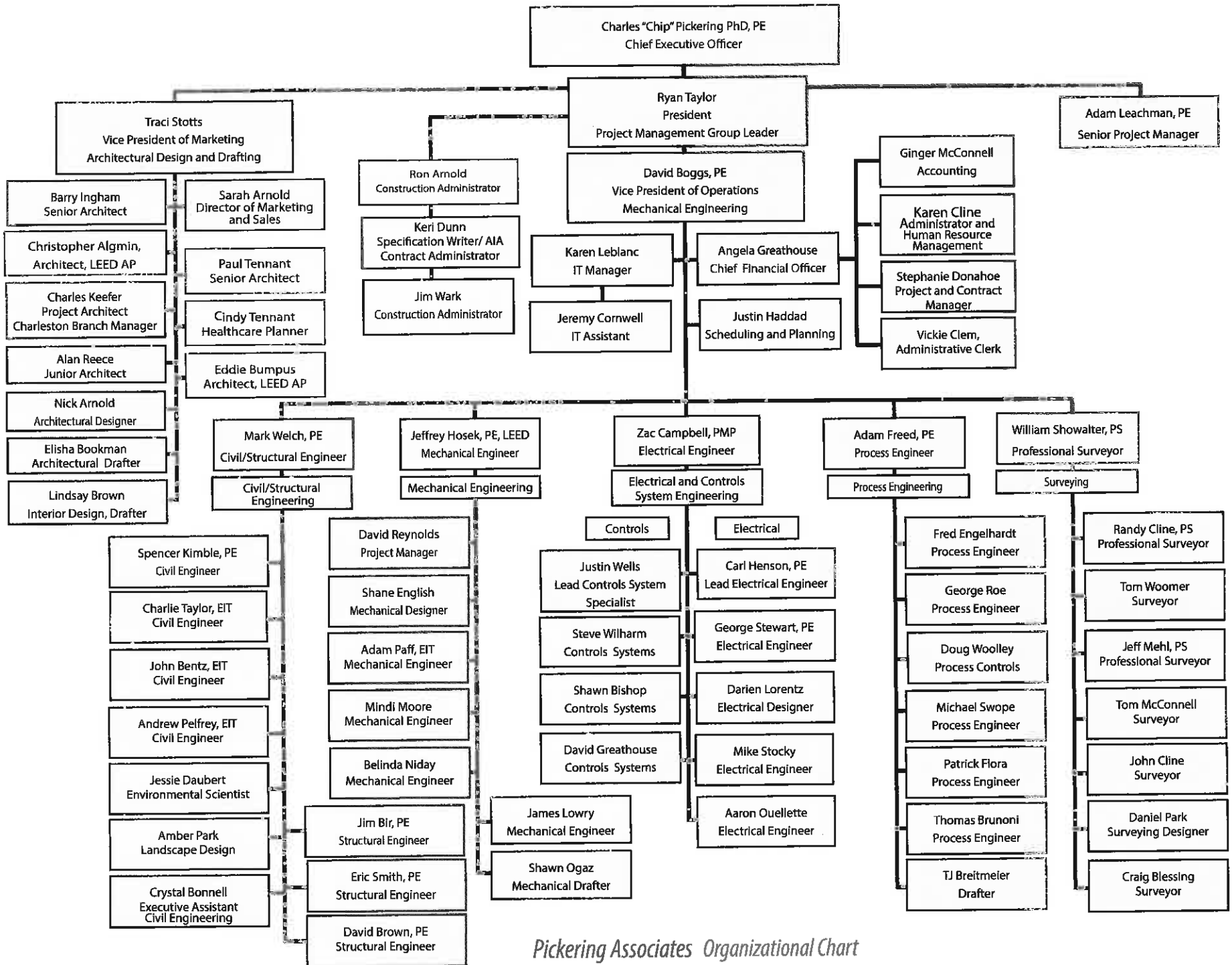
Our architectural, engineering and surveying firm consists of an exceptional balance of experience and the desire to provide our customers with a quality product at a fair price. Our highly qualified staff includes licensed professional engineers, professional surveyors, licensed architects, designers, 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.

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.

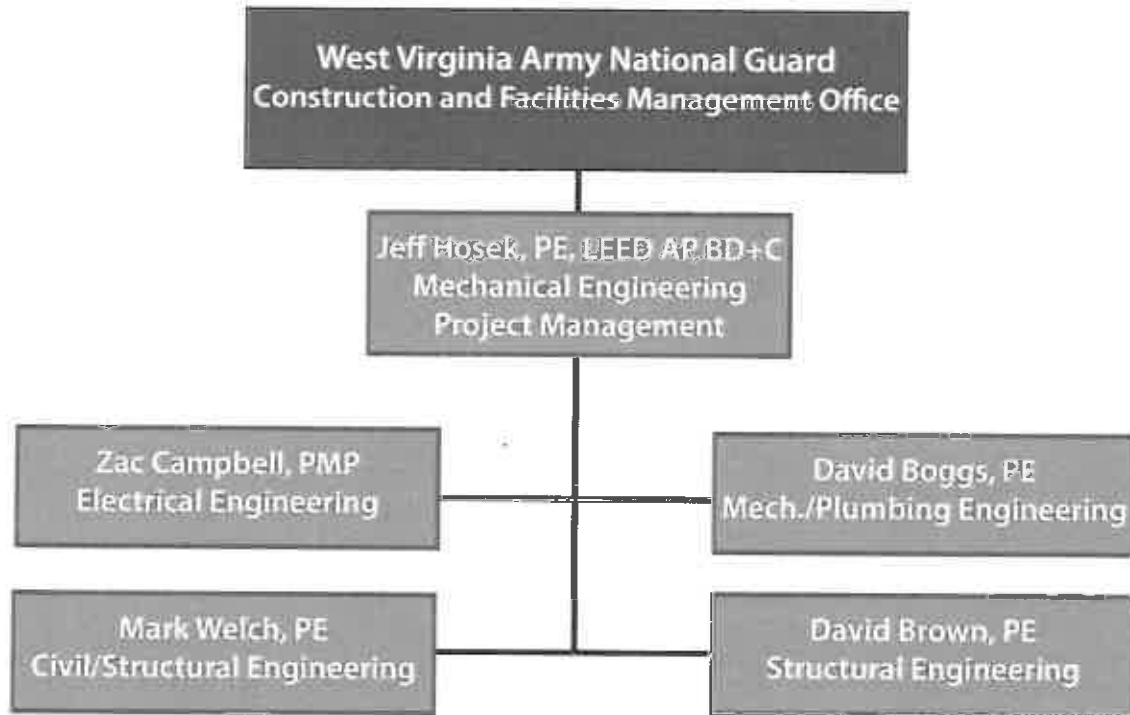
Our broad client base is representative of the area and includes education, healthcare, retail, utilities, municipal, chemicals and plastics, metals, and power generation among others. The types of projects we provide range from conceptualization and construction estimates to full turn-key design including construction management. Every project is unique and our approach to the solution is determined accordingly. Whether the project is a small electrical or mechanical modification, a larger multi-discipline new building or retrofit, or a green field installation, it receives all the attention and care required to make the project a success.

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.





Pickering Associates Organizational Chart



Technical Expertise



Jeffrey D. Hosek, P.E.

Position/Title

Mechanical Engineer

LEED Project Engineer

Mechanical Engineering Department Manager

Duties

Mechanical Engineer

Education

University of Akron

B.S., Mechanical Engineering

Dr. Seuss

Licenses

Professional Engineer WV, OH, KY, PA

*Sometimes the questions are
complicated and the answers
are simple.*

Lead Mechanical Engineer for Emergency Department Consolidation and Patient Room Expansion project. Project scope includes providing design and engineering for the steam connection to the existing heating plant on the south tower with an underground feed to the new facility, coordinating heating tie-in, provide design and engineering for the heating piping distribution, provide design and engineering for the building's new chiller plant and piping distribution, provide design and engineering for the building's air moving equipment and distribution, provide design and engineering for the installation of miscellaneous equipment for the new floor plan arrangements.

Mechanical Engineer of record for the conversion of a multi-unit HVAC system into a more efficient single unit system at the Caperton Center on the campus of West Virginia University at Parkersburg. Added additional zones to allow for additional user control of set points.

Mechanical Engineer for a new F&I field office in Cleveland, Ohio. Energy efficient equipment and significant sound attenuation materials were used in this four-story building.

Lead Mechanical Engineer and Project Manager for OR Chilled Water project at Cabell-Huntington Hospital. Provided design options for reducing the levels of acceptable ranges, and implemented installing another chiller in series and replacing fan and coil components of the existing operating room air handling units.

Lead Mechanical Engineer for a new 5,400 SF medical office building located in Belpre, Ohio. This office is a satellite office for a previous client who wished to expand services. The new building is home to an Osteoporosis Clinic and DXA scanning suite which are capable of operating independently of each other.

Lead Mechanical Engineer for OB and pediatric department renovations. Project included re-routing existing portions of the supply, return and exhaust ductwork and modify/install new as necessary for the renovated spaces. Project also included relocated air devices and thermostats.

Lead Mechanical Engineer for Fifth Floor Medical/Surgical Nursing Unit Renovations. Project included removing two P-TAC units from each of the patient rooms on the north wing of the project area and replace with a 4-pipe heating-cooling unit in the ceiling space and new chilled and steam piping routed from the mechanical penthouse. Control for the units was connected to the existing facility automation system.

Lead Mechanical Engineer for a new Healthsouth suite on the fourth floor of the main hospital. Project included re-routing existing portions of the supply, return and exhaust ductwork and modify/ install new as necessary for the renovated spaces. Project also included relocated air devices and thermostats.

Lead Mechanical Engineer for the renovation of the first floor for Nursing and Dialysis. Project included design of new system for isolation rooms, re-routing existing portions of the supply, return and exhaust ductwork and modify/install new as necessary for the renovated spaces. Project also included relocated air devices and thermostats.

Lead Mechanical Engineer for the renovation of First East. Project included the renovation of over 11,000 SF of existing space on the first floor of the main hospital. Design included a medical/surgical nursing unit, dialysis and isolation area. The isolation rooms each required separate HEPA filter systems among other precautionary steps.

LEED project manager for converting a downtown Columbus, Ohio fire station into a local family health center. Replaced existing mechanical and electrical systems with updated energy-efficient systems. Existing equipment was recycled to limit construction waste and utilized local and regional materials to comply with LEED requirements.

Prepared plans for new VAV indoor steam and chilled water air handler with humidification for new surgery rooms. Rewired existing piping and ductwork to work with floor plan revisions.



Zac A. Campbell, P.M.P.

Position/Title

*Electrical Engineer,
Electrical and Controls System Engineering
Department Manager*

Duties

Electrical Engineering

Education

*Fairmont State University
B.S., Electrical Engineering and Technology
Marshall University,
M.S., Engineering Management*

Licenses

*Project Management Professional,
Project Management Institute*

*The difference between the
possible and the impossible lies
in a person's determination.*

Tommy Lasorda

Lead Electrical Engineer for new Emergency Department Consolidation and Patient Room Expansion project. Project scope includes providing design and engineering for the electrical connection to the existing 15kV Mon Power switch tap and the installations of the new medium voltage underground feed to the new facility electrical room, providing design and engineering for the building's electrical distribution system to meet the expectations of the new electrical loads, providing design and engineering for the installation of new receptacles, light fixtures, light switches, electrical equipment for the new floor plan arrangements, providing design and engineering for the life safety requirements, emergency power requirements, and emergency lighting requirements for the new floor plan arrangements, etc.

Electrical Engineer for the renovation of HVAC system in a campus building in Athens, Ohio. Project included replacement of air handling unit motors and specifying wiring of new Variable Frequency Drives.

Electrical Engineer for a new medical office building located in Belpre, Ohio. Project included new receptacles, light fixtures, life safety, emergency power and lighting, fire alarm detection, and telecommunication. Extensive coordination was required for the specialized scanning equipment.

Electrical Engineer for OB and Pediatric department renovations. Project included new receptacles, light fixtures, life safety, emergency power and lighting, fire alarm detection, telecommunication, nurse call and facility paging to fit the new floor plan.

Electrical Engineer for Fifth Floor Medical/Surgical Nursing Unit Renovations. Project included new receptacles, light fixtures, life safety, emergency power and lighting, fire alarm detection, telecommunication, nurse call and facility paging to fit the new floor plan.

Electrical Engineer for Third Floor Medical/Surgical Nursing Unit Renovations. Project included new receptacles, light fixtures, life safety, emergency power and lighting, fire alarm detection, telecommunication, nurse call and facility paging to fit the new floor plan.

Electrical Engineer for an emergency room, fast-track, and central registration renovation project. Project included new receptacles, light fixtures, life safety, emergency power and lighting, fire alarm detection, telecommunication, nurse call and facility paging to fit the new floor plan.

Electrical Engineer for the design and construction administration of a new 1200A, 480V electrical service and electrical distribution system in an existing building in Downtown Parkersburg, WV for West Virginia University at Parkersburg's new Downtown Center. The project includes a new main panel and subpanels throughout the building for future building loads.

Electrical Engineer for the relocation of three cardiac catheterization laboratories. Project consisted of three new cath labs, adjacent control rooms, equipment rooms, special procedure bays, echo room, stress testing room and various support spaces.

Electrical Engineer for the installation of two (2) uninterruptable power supplies for the main operating rooms and the ambulatory surgery rooms at Marietta Memorial Hospital.

Electrical Engineer for the Fourth Floor Acute Care Unit Renovations. Project included renovations to approximately 19,600 SF of the fourth floor at the north tower and east/west wings of the main building at the Memorial Campus. The area was renovated to accommodate 33 private acute care patient rooms, 10% of which are ADA compliant. The project also included provisions for nurse stations, clean utility, soiled utility, nourishment, medication rooms, storage rooms, central bathing facilities, offices, staff locker rooms, and various other support spaces as required by the functional program.



David A. Boggs, P.E.

Position/Title

*Senior Mechanical Engineer, Plumbing Engineer
Vice President of Operations*

Duties

Mechanical and Plumbing Engineer

Education

*Viginia Tech,
B.S., Mechanical Engineering
Marshall University,
M.S., Engineering Management*

Licenses

Professional Engineer WV, OH

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

Abraham Lincoln

Lead Plumbing Engineer and Mechanical Engineer for Emergency Department Consolidation and Patient Room Expansion project. Plumbing and mechanical scope included review existing conditions for medical gas tie-ins to existing systems in South Tower, reviewing and evaluating water source requirements for proposed addition with CCMC Engineering Department, reviewing existing drawings and work to determining underground sanitary tie-in location, providing design and engineering for the medical gas distribution systems for the expansion, etc.

Mechanical/Plumbing Engineer of record for new \$7MM medical office facility in Parkersburg, West Virginia. Building was designed for multiple HVAC zones to reflect tenant separation requirements of the building owner. Tenant design was based on Pharmacy, prosthetic laboratory, medical offices and a restaurant. Common restrooms, private bathrooms, and exam room sinks comprised the plumbing system design requirements.

Mechanical Engineer of record for a \$1MM medical/dental office facility in Parkersburg, West Virginia. Design included packaged HVAC systems with multiple zones and facility exhaust systems. Plumbing design included dental vacuum and air systems as well as domestic water distribution systems for building tenants, including tenant restroom requirements to meet code requirements.

Plumbing Engineer of record for a new 5,400 SF medical office building located in Belpre, Ohio. Design included domestic water distribution system for exam room sinks and facility restrooms as well as sanitary and storm water drain, waste vent system design all in within the state plumbing code requirements.

Plumbing Engineer of record for the renovation of first floor patient rooms and dialysis center for a hospital facility in Parkersburg, WV. Project design included 18 private patient room bathrooms four with ante room lavatories and ADA accessibility, all equipped with a shower fixture. Design also included the relocation of the hospital's dialysis unit and plumbing systems, a 4 bed unit. Plumbing design for the 18 patient rooms included a new medical gas distribution system specification for the med-gas outlet headwalls.

Lead Plumbing Engineer for OB and pediatric department renovations. Project included new triage, waiting, private rooms with new enlarged toilet rooms including showers, and rework of existing tub rooms to relocate an existing pediatric tub and add a new shower.

Lead Plumbing Engineer for Fifth Floor Medical/Surgical Nursing Unit Renovations. Project included replacing/relocating fixtures for ADA compliance.

Lead Plumbing Engineer for Third Floor Medical/Surgical Nursing Unit Renovations. Project included replacing/relocating fixtures for ADA compliance in the twenty-seven patient rooms, staff rooms and various shower/tub rooms. Also replaced an existing shower room tub with a shower and designed a new shower room.

Lead Plumbing Engineer for a new Healthouth suite on the fourth floor of the main hospital. The project included 8 private patient toilet rooms, one semi-private room with ADA accessible toilet rooms, two new shower rooms, and one bath room with tub. Project also required the addition of medical gas and relocation of existing sprinkler heads.

Lead Mechanical and Plumbing Engineer for a new 37.5 bed Behavioral Health Unit which was designed to be located in existing space on the third floor of the Main Hospital. Spaces included eighteen semi-private and one private patient room, two group therapy rooms, dining area, laundry room, shower rooms, nurses station, physicians offices, consultation area, activity area, family visitation area, support area and staff locker room.



Mark Welch, P.E.

Position/Title

*Civil Engineer, Structural Engineer
Civil/ Structural Engineering Department Manager*

Duties

Civil Engineer and Project Manager

Education

*West Virginia University
B.S., Civil Engineering
Marshall University,
M.S., Engineering Management*

Licenses

Professional Engineer WV, OH, LA, PA

*The joy of engineering is
turning today's dream into
tomorrow's reality.*

Abraham Lincoln

Lead Civil/Structural Engineer for new Emergency Department Consolidation and Patient Room Expansion project. Project consisted of evaluating storm water management requirements per City, County, State, and NPDES requirements, create site layout showing proposed structure(s), retaining walls, major signs, sidewalk, landscaping, drives, and parking lots, designing grading, drive alignment, parking lot geometry, and storm water drainage, Coordinate proposed design with respective utility providers, etc.

Lead Civil Engineer for new 930 SF equipment room addition and renovations to approximately 6500 SF of existing space on the ground floor of the main hospital at the Memorial Campus of the Camden Clark Medical Center.

Assisted in the design to enclose an existing courtyard between two buildings in order to house both transportation and phlebotomy offices in a hospital in Parkersburg, West Virginia. Designed combination structural steel/cold-formed metal roof and lateral-resisting system to accommodate existing building characteristics and movement.

Project Manager for an investigation and reporting on the cause of a structural collapse of the fifth floor roof at a hospital in Parkersburg, WV. Responsibilities included the development of the structural analysis report and recommendations to fix the issues at hand.

Assisted with the design and drafting of the structural and architectural work on a rad room renovation at a hospital in Parkersburg, WV. Work included installation of a new x-ray machine and new structural supports.

Lead Civil Engineer for CCMC memorial campus documentation – located existing outside utilities on the entire memorial campus master plan including water, sanitary sewer, electrical main, fire truck water connections, etc.

Designed site grading and parking layout for bank in Parkersburg, WV. Responsibilities included performing storm water drainage calculations to obtain permits and designed a swale to hold excess storm water and outlet pipe.

Designed storm water system and new grading layout for a fire department annex in Vienna, WV. Other duties also involved assisting with the design, drafting and construction estimate of the architectural, civil and structural project elements of the new two-story facility.

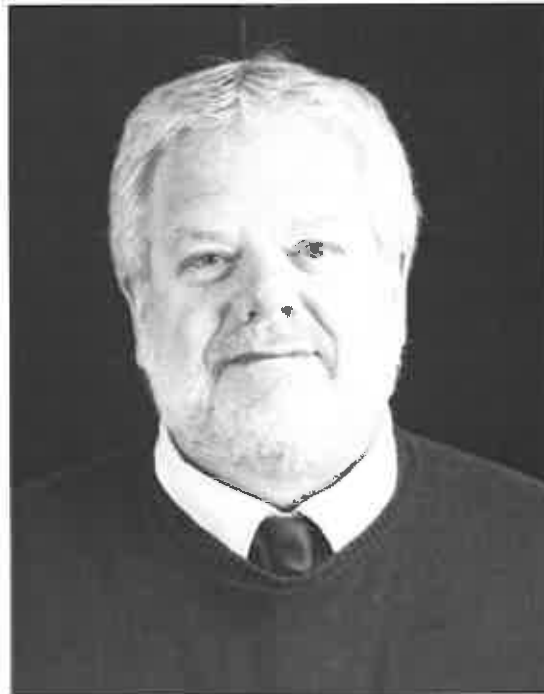
Lead Civil Engineer for a polymer recycling facility located in the Polymer Alliance Zone in Davisville, WV. Civil design included utilities, grading, site layout, roadways, parking, loading docks, retaining walls, site drainage, sediment erosion control.

Lead Civil Engineer for a brownfield development of approximately 30 acres to be used for a new manufacturing facility in West Virginia. Design includes utilities, grading, site layout, roadways and parking and erosion control.

Lead Civil Engineer for an expansion of operations at a refinery in Marietta, Ohio. Civil design included utilities, grading, site layout, roadways, and site drainage of approximately one acre.

Designed a new storm sewer system for a higher education roadway project in Athens, OH. Responsibilities included designing and drafting site plan, profiles, etc., creating front end bid documents and construction specifications as well as performing construction administration.

Project Manager and Civil Engineer for multiple fresh water storage ponds for vertical and horizontal Marcellus Shale natural gas drilling operations throughout West Virginia. Design typically included site grading, cut and fill design, storage volume analysis and design, and embankment slope stability design.



*From client concept to contractor constructability,
our engineering details all aspects of the project.*

David A. Brown, P.E.

Position/Title

*Senior Project Manager
Civil/Structural Engineer
Mechanical Engineer*

Duties

*Project Manager
Civil and Structural Engineer*

Education

*Youngstown State University
B.S.A.S., Civil Engineering Technology
- Construction and Structural Engineering
Specialization*

*Youngstown State University
A.A.S., Civil Engineering Technology*

Licenses

Professional Engineer OH, WV, IN, VA

Senior Project Manager at Ohio University for Glidden Hall AHU Replacements. Developed project scope and budget, managed design and construction for rehearsal and recital halls. \$0.6M, to be completed August 2015.

Senior Project Manager at Ohio University for Alden Library, AHU Replacements. Developed project scope and budget, managed design and construction. \$1.8M, completed January 2015.

Senior Project Manager at Ohio University for Stocker Center AHU Replacements. Developed project scope and budget, managed design and construction. \$0.5M, completed in January 2015.

Senior Project Manager at Ohio University for Shoemaker Center Infrastructure Improvements. Developed project scope and budget, managed design and construction for an electrical switchgear replacement, HHW boiler replacements and roof replacement. Improvements will reduce facility energy costs. \$0.75M, completed fall 2013.

Senior Project Manager at Ohio University for West Green Chilled Water Plant, Chiller #3. Project managed construction of a steam turbine water-cooled 2,500T chiller project, included change in pumping scheme from primary secondary to variable primary. Completed summer 2014.

Project Manager at Ohio University for Voigt Hall, Residence Hall Electrical Upgrade. Developed project scope & budget, prepared RFQ, construction administration and inspection for dormitory rehabilitation project, including new primary and secondary electric, electronic access & security upgrades. \$1M completed summer 2011.

Project Manager at Ohio University for Lausche Heating Plant Renovation Phase's 3 A & B. Major Renovation of campus central heating plant, coal and natural gas fired boilers, 210,000 pph low & high pressure steam production capabilities. Developed project scope & budget, prepared engineering RFQ, equipment procurement, administration and inspection for coal handling, ash handling, digital controls, control room, boiler re-tubing, stoker drives, bag-house addition, domestic water supply & backflow prevention, economizer replacement, cyclone replacement, pipe over-stress remediation, steam turbine drive replacement, steam flow control project. \$10.6 M, completed in multiple phases from 2005 to 2010. Partial Mechanical & Structural Engineer of Record.

Project Manager at Ohio University for Clippinger Laboratories, Infrastructure Renovation. Multi-phase Mechanical & Electrical Improvements; Developed project scope & budget, prepared RFQ, construction administration and inspection for physical science laboratory building project, including central fume hood exhaust upgrade, district chilled water distribution, complete HVAC and electrical renovation. \$9.6M to be completed in phases by 2014. Chilled Water Distribution Engineer of Record.

Project Manager at Ohio University for Shoemaker Center HVAC Upgrade. Developed project scope & budget, prepared engineering RFQ, construction administration and inspection for HVAC rehabilitation project, including central chilled water distribution. \$700K completed 2009.

Project Manager at Ohio University for Bromley Hall, Mechanical Upgrade Phase 1. Chiller & Cooling Tower Replacement, 400T water-cooled electric centrifugal w/VFD, Hydronic Piping Renovations. Directed temporary hydronic riser repairs, developed project scope & budget, prepared engineering RFQ, evaluated possible District Chilled Water Plant development, project procurement, construction administration and inspection for chiller/cooling tower replacement project. \$700K, completed 2003.

Our Services

Comprehensive Design

At Pickering Associates, we understand the importance of keeping the Client informed and engaged throughout the entire design and construction process. It is crucial to the project to get the Client involved early in the process along with other key stakeholders, in order to understand the needs of the facility. Our plan would be to engage the key stakeholders in weekly design meetings to ensure expectations and schedule constraints are met.

Our design process will begin with 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 than our competitors, 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 the City of Charleston - 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 sketches will also provide the client with a general indication of the exterior design and overall look of the addition. Once schematic design is complete, we will move into the design development phase for the project.

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 architect 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 Owner has approved the design development phase, the Architect 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. Renderings of both the interior and exterior of the new addition will be prepared and provided to the Owner to use for marketing purposes. A physical 3D model can also be prepared (if desired by the client) to accurately portray the final design and to use as a marketing tool.

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.

Consensus Building

Consensus building is essentially mediation of a conflict which involves many parties and is usually carried out by a facilitator that moves through a series of steps.

In the beginning, our facilitator or project manager identifies all of the parties who should be involved, and recruits them into the process. We propose a process and an agenda for the meeting, but allow the participants to negotiate the details of the process and agenda - giving the participants a sense of control of the process. This process builds trust between the participants and the facilitator, between the participants themselves, and with the overall process.

Defining and often re-defining the conflict is usually the next step. The project manager will get the participants to define the issues in terms of interests, which are usually negotiable, rather than positions, values, or needs, which usually are not. The project manager will then get the participants to brainstorm alternative approaches to the problem. This is typically done as a group effort, in order to develop new, mutually advantageous approaches.

After the participants generate a list of alternate solutions, these alternatives are carefully examined to determine the costs and benefits of each (from each party's point of view), and any barriers to implementation are documented. Eventually, the choice is narrowed down to one approach which is modified, until all the parties at the table agree to the solution. The project manager then takes the agreement back to the owner for discussion and approval.



Sustainable Design

Pickering Associates is a LEED affiliated firm. We have architects and engineers that are current with LEED registration and the firm has completed multiple projects ranging from the certified level to platinum. We use software and best engineering practices to provide the end user the most energy efficient building systems. When you combine this with providing architectural design that works with these systems for insulation and avoidance of solar heating, you end up with an energy efficient building.

Multi-discipline Team

We also believe that because we are a full-service firm, (having the majority of the designers, architects, engineers, landscape designers, surveyors, project managers, and construction administration professionals on staff and under one roof), we are able to provide a better coordinated project than firms who are required to use many outside consultants. We organize regular in-house project team coordination meetings throughout the design phases of a project to discuss and work-out 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 proved valuable in many cases where the design schedule is accelerated and/or where there is equipment in the project that require the effort and coordination of several disciplines. Typically, there are more change orders in firms that are not full services due to the difficulty and time required for drawing coordination.

Cost Estimation

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.

We know the importance of not only understanding our client's budget, but ensuring that the project is designed to fit into (and stay within) that budget. When an exterior addition is involved, we do our best to give our client a project that will not only look nice, but provide a design that will fit into the context of the existing facility by making it look like it belongs. We do not feel that it is appropriate to over-design a project to make a statement – thus increasing construction costs and making it difficult to stay within the client's project budget. We believe that it is more important to design features into the project that will allow for a better functioning project.

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 typically provide an updated estimate of probable construction costs for each phase of design, thus monitoring and providing control for the project budget. 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.



Building Information Modeling

Pickering Associates approaches Building Information Modeling as a very useful tool that can accomplish goals that extend beyond the typical design and construction phases of the project. Defining the specific project expectations is critical for the owner and designers. We work with the owner and start with their anticipated use of the BIM model once construction is complete. From there, we work through the design schedule incorporating all aspects of BIM that will enhance the owners understanding of the project. We will assign model management responsibilities, quality assurance responsibilities, and level of development criteria – all linked to specific schedule milestones. We incorporate clash detection, collaboration tools, visualization capabilities, and analytical studies throughout to benefit the project development process. We utilize these aspects of BIM and elevate them with in-house 3D printing services to provide exceptional professional services.

Community Involvement

Pickering Associates is invested in the community of the Mid-Ohio Valley and works with several local non-profit organizations to accomplish their design goals within a minimal budget. A few of our clients include Wood County Habitat for Humanity, our local Boy Scout troops, the Latrobe Street Mission in Parkersburg, and the Gospel Mission Food Pantry in Marietta, Ohio. It is important to us that these organizations are able to fulfill their mission in the community and continue to serve the residents of the Mid-Ohio Valley.



Our Approach

Your Project

Pickering Associates will perform a complete site survey and detailed review of the existing conditions to develop a complete as-built set of drawings to be utilized for the proposed system renovations. We will rely on our project team experience and previous applicable project development procedures to move forward with detailed design drawing development to meet the needs and expectations of the proposed project scope.

Project management and communication will be key in establishing and managing all project stakeholders expectations, and ensuring that we will continually meet and exceed those expectations along with the typical project constraints of scope, cost, and schedule. Internal and external design review meetings will be applied reduce the Project Team's risk to changes or adjustments during construction. Our experienced team will use established relationships and previous procedures with state and other governing authorities to make the permit and plan approval process streamlined.

Our approach to projects is to see the project through from conception to commissioning. We will support the project team through continuous communication and attention to detail from design throughout construction to deliver a successful project in the end.

Related Prior Experience

Type

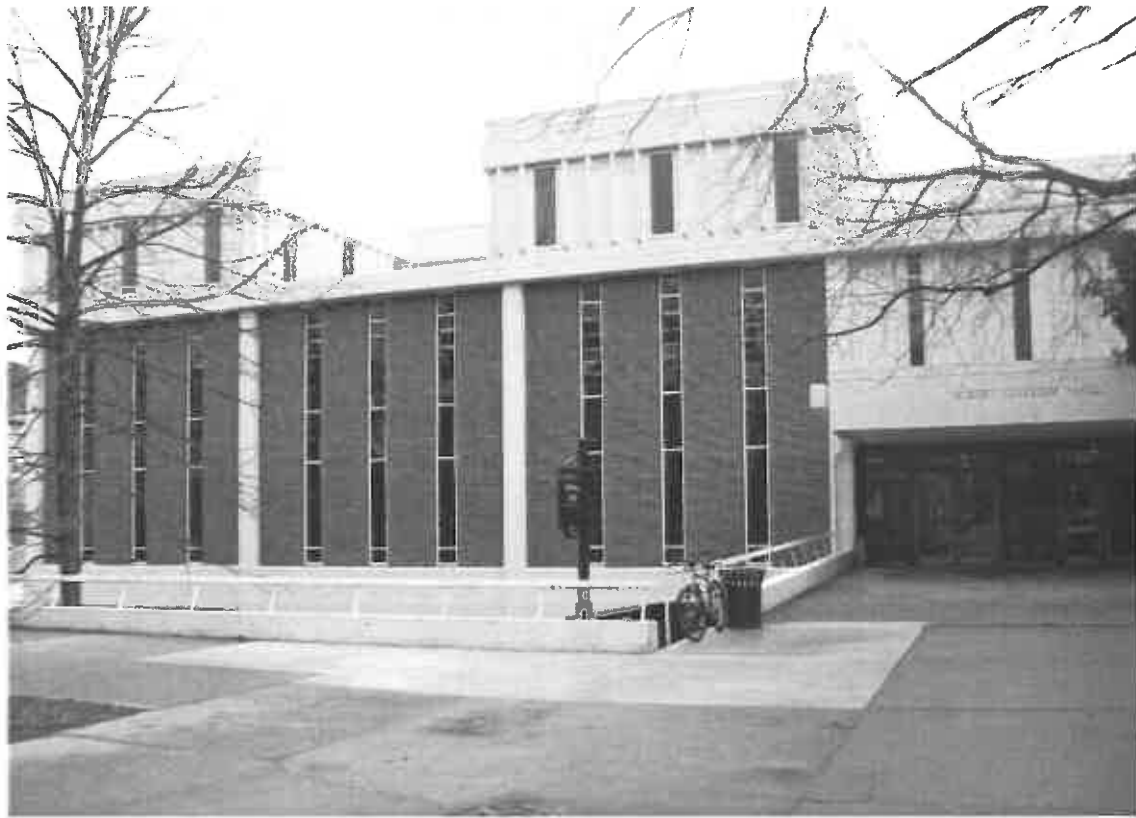
Education

Services

Electrical

Civil

Mechanical



Pickering Associates provided the mechanical and electrical engineering for the project. The scope of work includes the replacement of an existing air handling unit (AHU) that serves the recital hall of the Robert Glidden Music Hall. The engineering scope reviewed design alternates for cooling, building chilled water or stand-alone direct expansion (Dx) cooling. The building chiller is over-sized and does not provide winter cooling, therefore Dx cooling was selected. The previous AHU used campus steam for heating. This type of AHU coil for small units does not provide an appropriate amount of control turndown.

Ohio University project management requested Pickering Associates to review the existing building heating hot water (HHW) system to check its capacity for the added HHW load and its overall condition. Ohio University current design standards require all HHW systems to be 100% redundant. The existing building's HHW system was found not able to meet the heating demands of the new AHU and existing equipment. The HHW also did not meet current university design standards. Based on these findings Ohio University directed Pickering Associates to include project bid alternates to add a new HHW system for the building that met current university design standards. Additional alternates were added to provide new temperature direct digital controls (DDC) to the HHW Heat Exchangers.

The majority of the project funds is from House Bill 497 and supplemented by local infrastructure bond funding. As of September 30, 2015 the project is in budget including a 10% contingency for unforeseen conditions. The overall budget for the work is \$330,000.00.

Contact: Richard Shultz, R.A. | 740-593-2727 | shultz@ohio.edu

Note 1: David Brown, PE was the Senior Project Manager for Ohio University with the project. He negotiated and executed the engineering agreement, coordinated SD, DD & CD design reviews, determined the engineering and construction scope, budget and schedule of the project and coordinated the pre-bid and bidding process. Hazardous material abatement is also required. Mr. Brown investigated and confirmed the presence of these materials, solicited an abatement consultant and an abatement contractor and then instructed the A/E to add contract requirements to the General Contractor to be aware and coordinate these efforts.



Type

Healthcare

Services

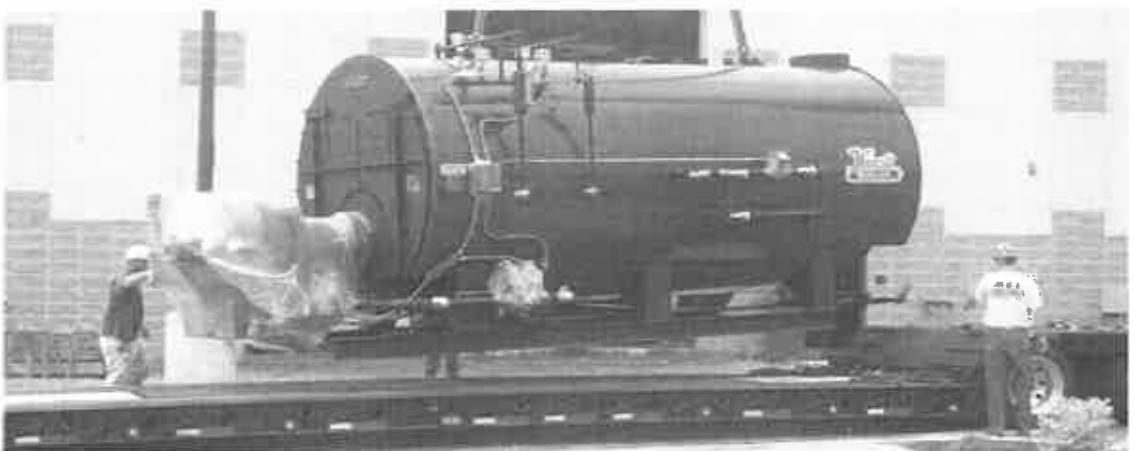
Architectural

Electrical

Mechanical

Plumbing

Construction
Administration



Camden Clark Medical Center (CCMC) desired to replace a 200 hp boiler with a 500 hp boiler so, after several successful projects, the hospital chose to utilize the services of Pickering Associates.

The mechanical engineer conducted field surveys to determine existing conditions and proper boiler room layout. In addition, a temporary boiler system was designed to operate while the new system was being installed. As part of this project, CCMC also replaced the current deaerator tank with one of adequate size including replacing all existing end suction style pumps with new vertical inline boiler feed pumps. The relocation of an existing 300 hp boiler was also required to allow for future replacement of equipment.

In addition to the boiler replacement, Camden Clark Medical Center also used our design services to replace the diesel fuel pump in the existing tank located outside the South Tower along with the fuel piping to each of the boilers. Electrical engineering and design were provided to disconnect electrical feeds to the existing boiler unit and diesel fuel pump, and install new electrical feeds to the new boiler unit and diesel fuel pump.

Pickering Associates also provided construction administration and project management throughout the project.

Contact: Barry Justice, Director of Engineering | 304.424.4111 | bkjustice@ccmh.org

Type

Education

Services

Electrical

Mechanical

Plumber

Construction
Administration



Pickering Associates has worked with Ohio University on several projects over the past decade. When the school was in need of replacing the existing boiler system at the Shoemaker Center, including the pumps, air separator, storage tank, etc., they contacted us for electrical and mechanical design for the heating system.

Pickering Associates evaluated the loads of the current system to assist in determining boiler selections, and made a new selection based on high efficiency condensing boiler cascading system based on Lochinvar Knight XL series boilers. The existing combustion air unit was removed and replaced with a modulating damper, operating on thermostat to assist in heat removal when needed.

Pickering Associates provided mechanical and electrical engineering and design services to prepare documents and drawings to replace the existing boiler system and storage tank. Documents were used for permits and construction, including plans, schedules and details. The system included new boilers, storage tank, distribution pumps, boiler pumps, air separator, and expansion tank.

Pickering Associates created a general arrangement plan and demolition plan required for the installation of the new boilers. In addition, design was created for piping to the new boilers. Electrical design was created to remove the existing feeds from the existing boiler units and install new electrical feeds to the new boiler units.

Pickering Associates also provided permitting assistance, and construction administration throughout the project.

Jeff Hosek, PE, was the lead engineer on this project.

Contact: Richard Shultz, R.A. | 740-593-2727 | shultz@ohio.edu

Type

Healthcare

Services

Architectural

Civil

Electrical

Mechanical

Plumbing

Structural



David Brown, PE was the Senior Project Manager for the Alden Library Air Handling Units 1 & 2 Replacement. This project is a continuation of the phased infrastructure improvements for the library. The main section of the library was built in 1968 to 1969. The building has 7 floors and a mechanical penthouse at top level.

AHU's 1 & 2 serve the 1st, 2nd & 3rd floors of the library. Each unit has a total air flow of 40,000 cfm. The project also included the replacement of nearly 100 variable air volume (VAV) distribution boxes. The existing pneumatic HVAC controls were replaced with new Direct-Digital Controls (DDC). In order to keep the 1st, 2nd & 3rd floors of the library ventilated and cooled while being fully occupied a critical-path schedule was required. The existing AHU's were original to the building. Numerous stop-gap repairs were made to the aging units. The existing units used steam coils and were a dual duct type AHU's. The existing heating hot water (HHW) system did not have the capacity to support HHW coils for the replacement AHU's. The size of the original units indicated that they were placed during the construction of the building while it was open and free of obstructions.

Taking the details of the existing conditions and project restraints Mr. Brown developed the project scope. It was clear that with a pre-established budget that project alternates would be required. University facility management at that time mandated no pre-purchasing of major equipment. The primary funding source for the infrastructure improvement was state of Ohio capital funds, House Bill 482. The project was locally administered with Mr. Brown being the primary project contact.

The A/E selection process was initiated by the preparation of an OFCC RFQ submitted to the Ohio Registry. (26) firms submitted their statement of qualifications for the project by September 26, 2012. (3) were short-listed and (1) firm was selected for the engineering. Karpinski Engineering was the successful firm. The fees were negotiated and a fund release request was submitted to CBM Controlling Board. A purchase order was placed on May 9, 2013 and a completed A/E agreement was executed on August 2, 2013. The design documents used the multiple prime delivery method. This method required a more in-depth project management skill set and provided better contractor relations. The typical General Contracting delivery method was not chose because the general construction scope of work was the least amount of project work involved.

The Mechanical and Electrical Trades included alternates for HHW infrastructure improvements. Construction started at the beginning of summer semester 2014 and was completed at the beginning of spring semester 2015. The work included provisions to connect the ductwork of the air handlers. This way no interruption of heating, cooling and ventilation to the 1st, 2nd & 3rd floors of the library occurred. The air handling units were built on site. The components were set in place through an existing ventilation shaft from the rear of the library. A sampling of project photographs are shown below:

Contact: Richard Shultz, P.E. | 740-593-2727 | shultz@ohio.edu



Type
Government

Services
Electrical Engineering



The City of Vienna, West Virginia contracted with Pickering Associates to review the emergency generator installations and configurations at both the Vienna Volunteer Fire Department and the Vienna Police Department. The generator was reconfigured to be connected to the existing fire department and the new facility.

The connection from the police department to the generator was removed and a new generator was installed and utilized for the police department only. All the existing installations were corrected to meet all applicable local codes and standards.

Our engineers reviewed all the existing emergency generator configurations and installations at the venues. They provided the design and engineering to correct all the existing electrical installations associated with the emergency generator and provided the design and engineering to reconfigure the existing emergency generator to the police station. The team provided the design and engineering to install a new natural gas emergency generator and all associated equipment to connect to the existing police station.

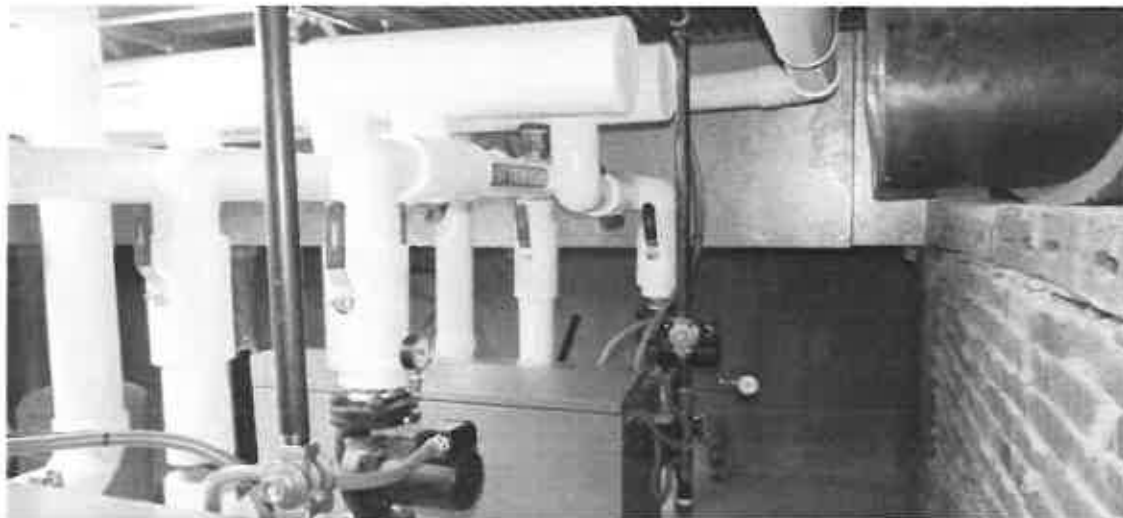
All aspects of the project were coordinated with the Mayor of Vienna and all associated parties.

Contact: Robert Rush | 304.295.4511 | robrush@vienna-wv.com



Type
Education

Services
Mechanical
Electrical



As part of Wood County School's on-going effort to maintain and replace aging boiler systems, Pickering Associates provided the engineering and construction administration to replace the existing facility boilers with high efficiency boilers.

The design eliminated the existing two (2) boiler system which served both the main building and the cafeteria. This was replaced with one centralized boiler system for the entire facility.

The new boiler system is comprised of three high-efficiency boilers, two pumps and hydronic system accessories. In addition, a hot water radiant heater was also installed in one of the previous boiler rooms to accommodate additional storage space.

Three alternates were included in the design for bids including a new rooftop HVAC unit for the gymnasium, new rooftop cooling unit for the cafeteria and replacement of an existing gymnasium utility supply fan. Only the alternate for the supply fan was accepted due to current available funding.

The electrical scope of work included new circuit breakers, pump motor starters, safety disconnect switches, fuses, conduit and control wiring. They also replaced the existing lighting fixtures in the mechanical room and teacher's lounge.

This project was designed and bid so that equipment could be ordered and construction could begin immediately following school dismissal for the summer break. The project was complete and inspected in time for school to resume in the fall.

Contact: Gary Cooper, Physical Plant Director | 304-420-9568 | gcooper@access.k12.wv.us

Our Work Fire, Crash and Rescue Station at Yeager Airport

Type

Government

Services

Architectural
Construction
Administration

Project
Management



Prior to merging with Pickering Associates in 2016, Associated Architects was hired by the Air National Guard to design a Fire, Crash and Rescue Station for Yeager Airport. The 20,000 SQ FT facility was completed in the summer of 2006, and includes 12 apparatus bays, which were designed to be able to serve both the flight deck as well as the building on and off campus, living areas, a full kitchen and dorms. This unit also houses the main communications for the Guard's responsive units, with high security requirements for both the protection of the building and also the flight deck. The design included unique elements such as the gravity fed foam fill stations, individual overhead waterfill stations for each bay, hazardous decontamination wash down rooms, air fill rooms and 15 second open garage doors.

The project team, led by Charles Keefer, AIA, worked with the Air National Guard, Yeager Airport and key stakeholders to make sure all programmatic needs were accommodated. The completed project cost was more than \$4.5 million.

Contact: Capt. Fredrick Thomas, P.E., Air National Guard | 304.341.6649



Type

Healthcare

Services

Architectural

Electrical

Mechanical

Plumbing

Structural

Construction
Administration

Project
Management



Pickering Associates has been involved in the design and construction of multiple projects for Cabell Huntington Hospital in Huntington, West Virginia. Projects types range from one discipline to all disciplines depending on the requirements. Some of our projects include:

Full-service engineering and design services to develop construction documents to install two new rooftop HVAC units to supplement cooling to the two existing operating rooms.

Investigation of adjacent air handling systems to the Cystoscopy room to determine if the required airflow can be attained from the nearby system.

Mechanical, Plumbing, and Electrical Design for proposed renovations to the first floor of the medical building at Cabell Huntington Hospital, in coordination with Ed Tucker Architects.

The design for a permanent installation of piping and power to a temporary chiller to cool the operating rooms at Cabell Huntington Hospital to maintain operation while plans are developed for a new water-cooled chiller.

Study for centralizing the hospital's chiller plant operations, which include four water-cooled units and one air-cooled unit. Our team developed a five year plan for centralizing the chilled water operations of the CHH medical facility as well as replacing the existing operating room(s) air handling units.

Designed supplementary direct expansion (DX) cooling coils that were installed in OR rooms, which have maintained temperature and humidity levels within the ASHRAE Standard. We have also been asked to investigate options to reduce the overall room levels to within the Standard and prepare plans for implementing the necessary changes to meet humidity levels of 20-60% RH and temperature levels of 65-70 degrees F.

We used our 3D scanner to document the mechanical room to coordinate existing and new utilities, allowing for documentation to be completed quickly so that we could move into design.

Contact: Ken Jackson | 304.526.2040 | kenneth.jackson@cchi.org



References



222 1/2 Putnam Street, Marietta, Ohio 45750
740-373-0894 - info@hipp1919.com
www.peoplesbanktheatre.com

May 23, 2016

Re: Pickering & Associates Letter of Recommendation

To whom it may concern:

Pickering & Associates was the Architect and Project Manager for the restoration work at the Colony Theatre Rehabilitation project (recently renamed The Peoples Bank Theatre) which was completed in December of 2015. This was a \$7.5 million theatre restoration project which needed to comply with the National Park Service standards for historic rehabilitation as we used both the Federal and Ohio State historic tax credits as part of our funding package.

As the Development Director of the Hippodrome/Colony Historical Theatre Association and now Executive Director, I worked closely with Project Manager, Ron Arnold, but also many other members of the Pickering team. They provided architectural services, as well as engineering work for some of the more complicated electric and HVAC work at the theatre.

In all instances they were responsive to our needs and diligently managed the construction work, keeping in mind the need to comply with historic preservation standards.

I am happy to answer any questions in the future and can recommend them highly for projects of similar scale and construction features.

Sincerely,

R. Hunt Brawley, J.D.
Executive Director



OHIO
UNIVERSITY

Office of the Vice President
for Finance and Administration

Design & Construction
West Union Street Office Center
June 164
Ohio University
Athens OH 45701-1010
P: 740.593.2707
F: 740.593.4008

November 12, 2015

To whom it may concern,

I was David Brown's direct supervisor during his tenure as a Senior Project Manager at Ohio University. David was responsible for developing and implementing Infrastructure projects as well as some building projects with a dollar range from fifty thousand to 13 million dollars.

David has a unique quality of being able to cross engineering disciplines. He is well versed in structural, mechanical and civil design. David had design management responsibilities for our West Green Chiller plant and associated chilled water piping. He has managed many boiler, air handler, chiller/cooling tower projects. David had the lead responsibility for the concrete restoration project for the Convocation Center. He was also in charge of the Walter Field House indoor practice facility that was the University's first design/build project.

David's success is based on his project management abilities and his knowledge and skills as a Professional Engineer. He is well organized and employees a very analytical approach to problem solving.

Sincerely,

Richard Shultz RA

Interim Associated Vice President

For Architecture, Design and Construction

Ohio University

Athens, Ohio



Letter of Reference

Since 1999, Pickering Associates has been Marietta College's local "go to" electrical design and full service architect-engineering firm for both new construction and renovation. Following are the more significant projects that they have completed for me:

- Master Plan and design for the upgrade and extension of underground high voltage distribution system. This work was completed in four phases to support five major construction projects. Pickering Associates coordinated design effort, design schedule and phased completion of work with five different lead architect firms. Their effective communications with the firms, outside the region and with local permit and building authorities resulted in no change orders or schedule delays attributable to the effort.
- Life Safety Upgrades to Dorothy Webster Residence Hall. Retrofitted emergency lighting, general lighting, fire detection and alarm system into a three story, 17,000 square foot building constructed in the 1970's.
- Residence Hall Restroom Renovations. Designed the repair by replacement of restroom fixtures, ventilation, shower and shower partitions and finishes in five residence halls.
- Gilman Hall and Andrews Hall Food Service Renovations. Designed the electrical and lighting and HVAC systems for a \$2 million renovation of two kitchens and student dining areas.

On all these projects Pickering Associates controlled costs without compromising the quality of the final product. What I most appreciate is the level of effort that all disciplines put into their on site investigation during the planning and programming phase. When you have a tight budget established by your Board of Trustees and a tight schedule driven by the return of students, this additional effort can make or break a design that will cost time and money.

In my opinion, because of the high quality of their plans and specifications, Pickering Associates has an excellent professional reputation in the general contractor community as an Owner. I believe you get the advantage of the most competitive bid.

Please feel free to contact me at (740) 375-4167 for any additional information that may help you select the most qualified firm for your work.

Sincerely,

Richard Smith, PE
Director, Electrical Firm



December 9, 2015

To Whom It May Concern:

I am writing to recommend the professional services we receive from Pickering Associates. Mark Mondo Building and Excavating has worked with Pickering Associates for many years. We have always received prompt, professional, collaboration and insight when working with them. From simple phone call Q & A, to full service project management, and the myriad of negotiations and regulations of a project, Pickering Associates delivers the services that keep us building projects, year after year. As complicated as a project can be, it is good to know that so many disciplines are so well represented in one firm.

As a regular user of their output, I find that their construction documents to be second to none. Their attention to detail and clarity of presentation is so important when trying to convey the design of a project. Better drawings means better projects. Simple as that.

Sincerely,

A handwritten signature in cursive script that reads 'Mark Mondo'.

Mark Mondo
President
Mondo Building & Excavating, Inc.

LARRY LANG EXCAVATING, INC.

19871 ST RT 60

BEVERLY, OH. 45715

Phone (740) 984-4750 Fax (740) 984-2871 doubledozer@lidozer.com

December 9, 2015

To Whom It May Concern:

We have worked with Pickering Associates for many years on many projects with great success and they are also a great customer for us. They work well with owners and contractors and if there are any issues that might arise they seek to find a solution that both parties can agree on.

We have had many opportunities for bid projects from Pickering and we would also recommend them to our clients when they need services for their Design and Building projects.

Their design teams are knowledgeable in Building Design, Engineering, and site work and communicate well with our staff and Superintendents.

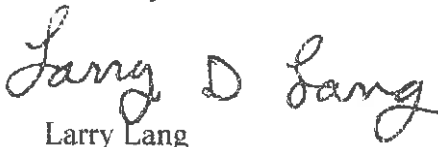
They now have a great way of communicating through their new and enhanced Web Portal. They can share the Owner Project so the contractors can see the projects that our available for bids. Online Plan room where you can find projects anytime or anywhere and View Drawings Order Prints or Upload Files are very useful tools for communication.

The quality and level of the advice and information that we receive from Pickering is superior to other firms.

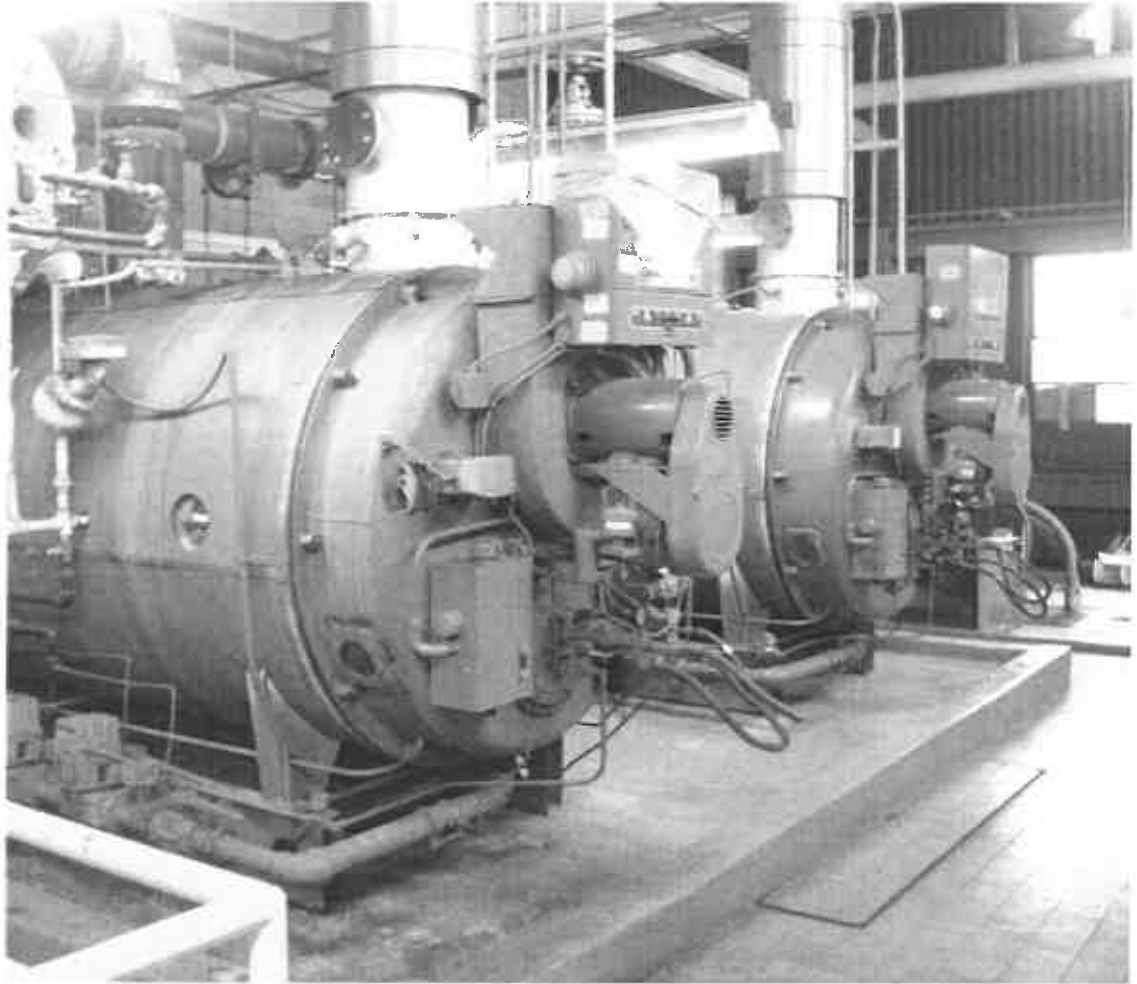
We all know that good planning and design work is very important in any project. And we are impressed with both the attention to detail and their scheduling that Pickering shows with each new project.

We trust Pickering and Associates and look forward to working with them on future projects.

Sincerely


Larry Lang

President



Barry Justice, Camden Clark Medical Center
304.424.2111
bkjustice@ccmh.org

David White, West Virginia University at Parkersburg
304.424.8225
dwhite2@wvup.edu

Gary Cooper, Wood County Schools
304.420.9568
gcooper@access.k12.wv.us

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.

DAVID A. BOGGS, VP of OPERATIONS
(Name, Title)
DAVID A. BOGGS, VP of OPERATIONS
(Printed Name and Title)
11283 EMERSON AVE. PARKERSBURG, WV 26104
(Address)
304-464-5305 / 304-464-4428
(Phone Number) / (Fax Number)
dbooggs@pickeringusa.com
(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation 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 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.

PICKERING ASSOCIATES
(Company)
DAVID A. BOGGS, VP of OPERATIONS
(Authorized Signature) (Representative Name, Title)
DAVID A. BOGGS, VP of OPERATIONS
(Printed Name and Title of Authorized Representative)
7/5/2016
(Date)
304-464-5305 / 304-464-4428
(Phone Number) (Fax Number)

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

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

DEFINITIONS:

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

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: PZCKERWIG ASSOCIATES

Authorized Signature: [Signature] Date: 7/5/2016

State of WV

County of Wood, to-wit:

Taken, subscribed, and sworn to before me this 5 day of July, 2016

My Commission expires Sept. 30, 2022

AFFIX SEAL HERE

NOTARY PUBLIC

[Signature]
Purchasing Affidavit (Revised 07/01/2012)

