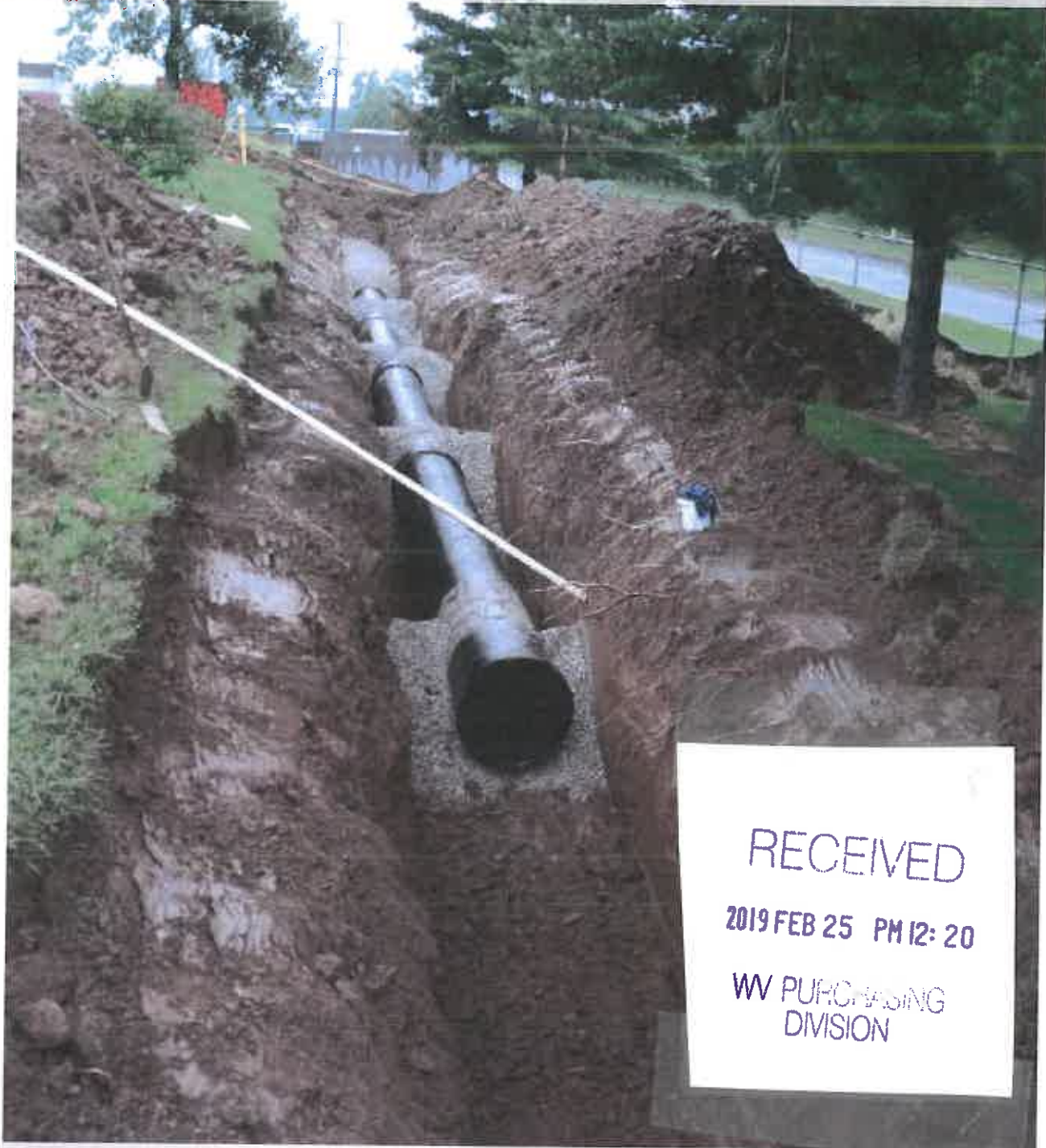


# EXPRESSION OF INTEREST



RECEIVED  
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WV PURCHASING  
DIVISION

**A&E SVC's at Various Parks for Water Line Replacement Project**

**CEOI 0310 DNR 1900000005**

**Guy Nisbet | 304.558.3970**

**Davis, West Virginia**

**February 25th, 2019**

**[www.PickeringUSA.com](http://www.PickeringUSA.com)**

Mr. Guy Nisbet  
Department of Administration, Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305



Dear Mr. Nisbet

Pickering Associates is pleased to have the opportunity to submit this proposal for providing Architectural/Engineering/Surveying for the replacement of certain water lines at Babcock, Chief Logan, North Bend, and Watoga State Parks. We are a full-service A/E Design Firm and will be managing your project under one company. As you will see, we have extensive experience with water and sewer system renovations and improvements.

Through the years, Pickering has taken pride in finding unique solutions to some of the most challenging problems. From a very short delivery/need based schedule for emergency work to limited and stretched budgets/funds. You will find a growing list of repeat clients who come back to Pickering because of the importance we place on each and every job we work on as well as every single client we interact with.

Pickering Associates begins each project with an initial meeting with project stakeholders, who outline the project's goals. During this planning phase, our team will assist the Owner and other stakeholders to define the project scope, determine budget, develop a schedule and identify any risks. After this initial meeting, our Project Manager will review the requirements with our management team, develop a resource plan based on current workload, sequence activities to dedicate these resources, estimate costs, and provide the Architecture and Engineering Section with the assurance that we can meet project expectations. Our firm employs a full-time resource scheduler who utilizes proprietary software specifically designed for A/E firms to maintain scheduled work flow for each employee. This allows our team to plan projects without overbooking and scheduling deadlines we can't meet.

Next, the Project Manager will oversee project execution through close monitoring and control. Progress tracking, coordination, review and maintaining tight control of the scope, schedule and budget are integral parts of the design development phase, as well as continuous communication with the Owner and other stakeholders. The Project Manager will conduct several phase gates and reviews during the project and highlight major milestones, ensuring potential issues will be identified early and addressed.

Once the team in West Virginia Department of Natural Resources and the project team have finalized the design for the project, Pickering Associates will assist with bidding, negotiating, and contracting. Clear instructions and control of the bidding process will allow contractors to provide accurate pricing and reduce the number of contractor requested change orders.

The attached statement of qualifications will offer you a small glimpse of our company and professional employees. We look forward to personally discussing our qualifications to complete this project on time, within budget and exceeding the standards of any firm you may have worked with previously. Should you have any questions regarding this proposal, please do not hesitate to contact us.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Sp Kimble", is located below the "Respectfully submitted," text.

Spencer Kimble, P.E.

Project Manager, Department Manager

skimble@pickeringusa.com | 304-464-5305 EXT:



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# *Your Project*

## ***Your Project - Plan & Goals***

Pickering Associates has experienced personnel available to design and manage the replacement of certain water lines at Babcock, Chief Logan, North Bend, and Watoga State Parks. We have all architectural, engineering surveying and construction administration services in-house that will be needed to complete your project. We have over 90 employees on staff ready to serve you and work on your project.

We will provide consistent communication with your project team during all phases of the project by having regular project meetings, providing weekly project updates and by communicating progress to all project stakeholders at regular intervals. The Project Manager assigned to your project will attend all meetings as well as any other project leads that may need to be involved during the design process.

Our firm prides itself on making sure that we clearly understand our customer's project scope of work, goals, schedule, and available budget prior to beginning design. We typically prepare estimates of probable construction costs throughout the design process at each phase deliverable to ensure that the scope of work stays in line with the project budget to meet your expectations.

We also understand the importance of meeting a schedule for a project. We will sit down with you in the beginning of the project to discuss your project schedule desires and goals and communicate any concerns that we may need to discuss early in the project so they can be properly addressed and planned out.

We will fully understand your project scope and align our project plan with your intended goals. Reviewing the targets currently outlined, we understand the primary goals for the project to be:

1. Review existing plans and conditions of the current water systems and operations at each state park included in this EOI.
2. Determine a plan of action with the Owner to minimize any disruptions to the concurrent operations to each facility.
3. Design a plan to replace certain existing water lines at each facility. We will ensure the designs are consistent with WV DNR's needs, objectives, current law and current codes, within the budgeted parameters and while minimizing the disruption to current operations.
4. Organize and manage the bidding phase of the project.
5. Construction Administration to ensure the contractor is using proper techniques, materials, equipment and personnel throughout the construction phase and monitor the contractor's progress and compliance with the Contract 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 mentioning or 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 waterline projects (both new and existing renovations) that are very similar to your project. We have worked with dozens of counties throughout West Virginia and Ohio to replace and improve their water and sewer systems. As a team we understand what is all involved with utility projects and how to coordinate and manage projects that involve various stakeholders such as municipalities and public service districts. As a firm we have extensive experience working with clients to ensure that renovations may take place while a facility is still occupied. By developing a schedule that lays out the various phases of renovations needed, we can ensure minimal to no disruption to daily work activity during the construction phase.

3) **Our Technology:** Pickering Associates uses Building Information Modeling (BIM), 3D Scanning, Virtual Reality, and 3D printing technology in developing our project concepts and 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 beginning.

4) **Our Communication:** Our Project Manager will provide consistent communication with all project stakeholders throughout the project design and make sure that the project scope and schedule are aligned with the project requirements, and the client's desires and expectations.





# *Company Background & Project Team*

**Charleston**

318 Lee Street W.  
Charleston, WV 25302  
(P) 304.345.1811  
(F) 304.345.1813

**Parkersburg**

11283 Emerson Ave  
Parkersburg, WV 26104  
(P) 304.464.5305  
(F) 304.464.4428



**Fairmont**

320 Adams Street  
Suite 102 Fairmont, WV 26554  
(P) 304.464.5305  
(F) 304.464.4428

**Marietta**

326 3rd Street  
Marietta, OH 45750  
(P) 740.374.2396  
(F) 740.374.5153

**Athens**

2099 East State Street, Suite B  
Athens, OH 45701  
(P) 740.593.3327  
(F) 800.689.3755

[www.PickeringUSA.com](http://www.PickeringUSA.com)

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.

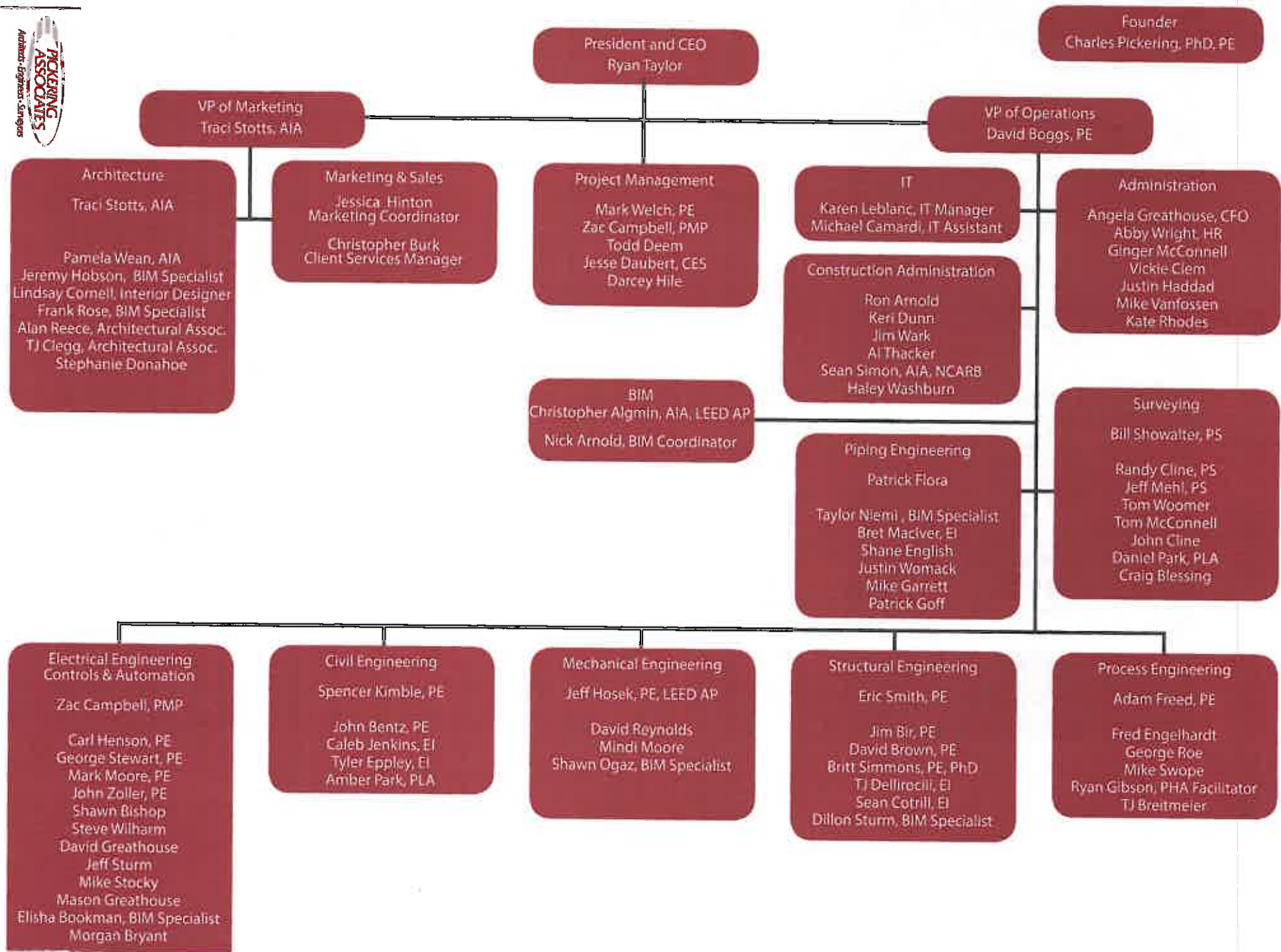
Listed as one of West Virginia's Top Engineering Firms for 2018. Our architectural, engineering and surveying firm consists of an exceptional balance of experience and the desire to provide our customers with a quality product at a fair price. Our highly qualified staff includes licensed professional 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.

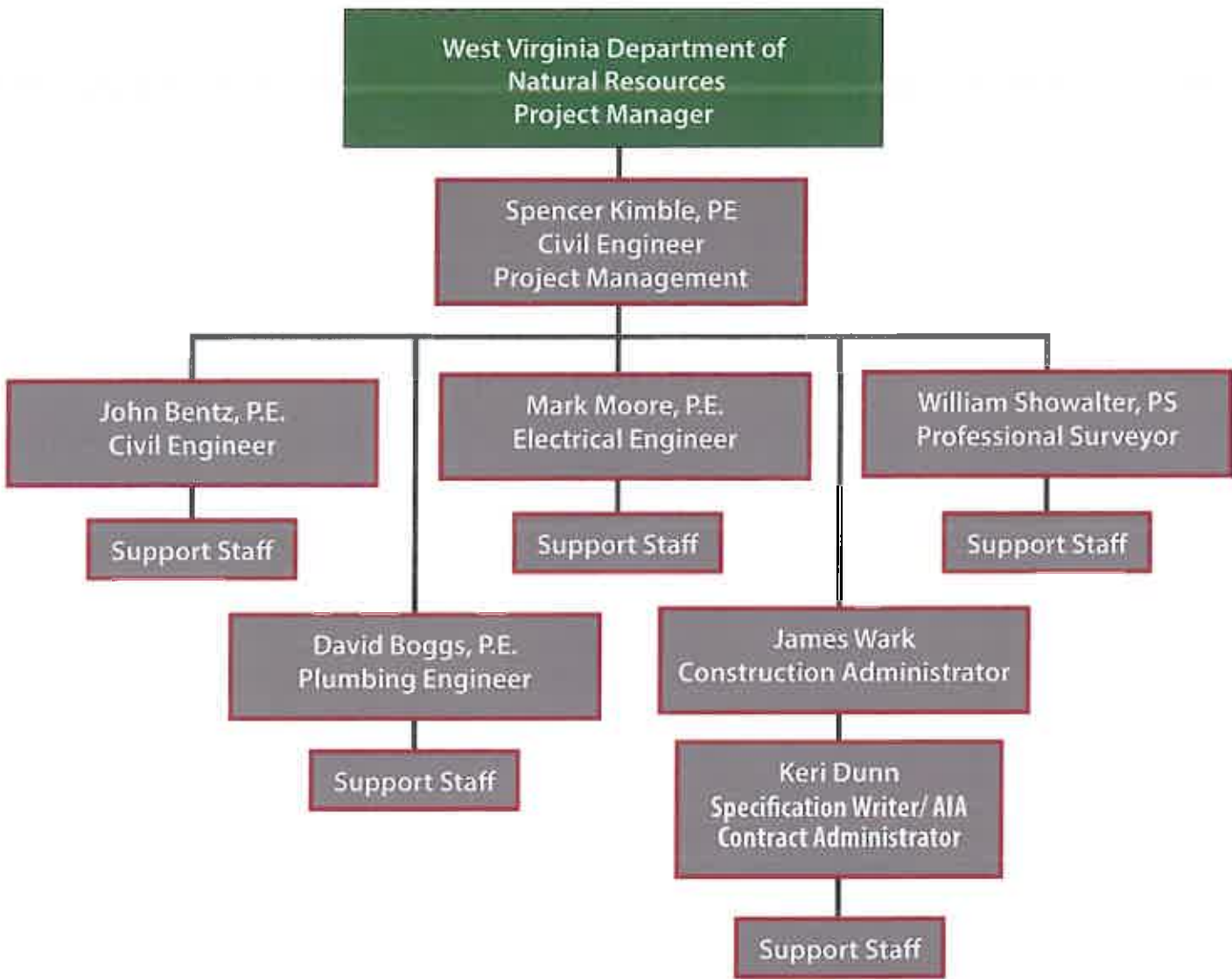
Successfully executing more than 10,000 projects in its history, the firm has built a tremendous wealth of experience gaining insight into what works for each of our client types. Those lessons learned add substance to our work and provide our clients with unparalleled value. Our objective is to partner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









# *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 regular design meetings to ensure expectations and schedules 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 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 and/ or 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 addendum, 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.

### **Cost Control**

Through the development of the project scope, number of units to be designed and site evaluations, we take into consideration the budget available or targeted to assure funds are accounted for early in project development. Once a preliminary site and building footprint is defined, we take the time to develop an estimate of probable project costs and alert our clients of any differences between project budget and the anticipated project costs.

### **Quality of Work**

While a project budget may limit the use of traditionally expensive materials, Pickering still sees the importance of using proven materials which will provide a quality project while being cost effective. Importance is always placed on areas where small amounts of up charge can create the largest impact to the future tenants and provide an inviting environment. As professionals, we are also tasked with finding cost effective solutions which still provide the building owners with years of excellent service. While every individual project we have designed is unique, there are common design elements and materials which have proven over the years to be best suited for similar projects.



### ***Performance Schedule***

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 90 professionals on staff, you can be confident that Pickering Associates has the resources to meet your project schedule.

### ***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, 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 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 requires the effort and coordination of several disciplines.

### ***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. Many of our architectural and engineering leads, designers, and drafters are trained, proficient, and up to date on BIM software. We even have an in-house BIM coordinator that routinely provides training and updates to our staff to ensure that everyone has the proper training to perform the work we do.

### **Cutting Edge Technology**

Pickering Associates approaches Building Information Modeling (BIM) as a tool for quick design concept generation that will continually add detail throughout the project and even beyond the construction phase. The ability to visualize a design early on via the 3D model allows high level decisions to be clearly identified and addressed during the beginning phases of the project – typically where potential impacts to project cost/schedule is greatest. Defining specific expectations is critical for key stakeholders and BIM allows our design teams to address those expectations much earlier in a project than a traditional 2D workflow.

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 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 virtual comments allows our team to capture and track design communications more efficiently than ever before.

### **3D Scanner**

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 that 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 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. Granting our designers the ability to virtually measure items directly on a 360 degree image to an accuracy within 1/8” right from their desk, where they have the greatest access to design tools is unprecedented in our region!

***Aerial Mapping***

Pickering Associates has recently obtained certification through the FAA's Part 107 Remote Pilot process to operate Unmanned Aircraft Systems (UAS) commercially. As cutting edge technology continues to evolve, Pickering Associates is able to fulfill client needs further by providing high-quality aerial imagery and three-dimensional aerial mapping.

Currently, Pickering Associates is capable of employing the use of two UAS: the Yuneec Typhoon 4K and/or the DJI Mavic Pro to fulfill client needs of high quality imagery and 4K video. In addition to imagery and video, the DJI Mavic Pro allows for the capturing of 3D point cloud data to be incorporated into CAD design files. In addition, the data obtained by the DJI Mavic Pro has the capability of being integrated with the Faro 3D scanning system, and ultimately be intertwined with our firm's ability to 3D print models. The functions of these images and videos can range from Pre-Construction documentation of large scale projects to construction progress documentation to As-Built documentation. They can also be used as marketing and inspection tools.





# *Technical Expertise*



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***Spencer Kimble, P.E.***

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***Position/Title***

*Civil Engineering Department Manager*

***Duties***

*Civil Engineer*

*Project Manager*

***Education***

*Marshall University*

*M.S. Engineering Management*

*West Virginia University*

*B.S., Civil Engineering*

***Licenses***

*Professional Engineer WV, OH*

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*A ship in port is safe, but that is not  
what ships are for. Sail out to sea and  
do new things.*

*Rear Admiral Grace Hopper*



**Civil Engineer for approximately 3,925 linear foot waterline replacement in Devola, OH.** Project included close coordination with Putnam Community Water personnel to replace approximately 3,925 linear feet of existing infrastructure with 6" line, and design tie-in connections to existing water mains to remain in place. Design duties include an on-site meeting, proposed waterline alignment and profiles, on-drawing specifications, and construction-related details.

**Civil Engineer and Project Manager for waterline replacement at Hadley & Sherry Drive in Marietta, OH.** The City of Marietta is replacing approximately 1,750 ft of existing waterline in Sherry Drive and 2,800 feet of existing waterline in Hadley Lane. Responsibilities include creating utility drawings, designing profiles, developing construction drawings and construction quantities, reviewing submittals and providing construction administration services.

**Civil Engineer for approximately 2 miles of new waterline and sewer line installation in Williamstown, WV.**

**Civil Engineer for approximately 4,600 linear foot of waterline and meter replacement in Marietta, OH.**

**Project Manager and Civil Engineer for over 40 horizontal drilling locations throughout WV and Ohio.** Typical projects included a new access road, drill pad, production pad, above or in-ground water storage location, and sediment/erosion control measures. Work also includes coordinating with local highway departments and utility providers to obtain permission for proposed work.

**Construction manager for multiple oil and gas projects throughout Ohio and West Virginia.** Work includes checking for conformance of construction activities to the design drawings, holding weekly progress meetings, and handling change orders.

**Civil Engineer for approximately 4,000 linear ft of new water and sewer lines to extend the main line utilities from the City of Williamstown to a new commercial development.** The project also includes the design of two sanitary sewer lift stations.

**Civil Engineer for a new subdivision in Marietta, OH.** Work included design of new City streets, storm water drainage, public utilities, lot separations, and sediment/erosion control measures. Work also included coordinating with City officials and utility providers about the upcoming project to obtain approvals.

**Civil Engineer for a new retail business in Utica, OH.** Project was located within the 100 yr. flood elevation and design had to incorporate compensatory storage in conjunction with elevating the floor slab to 2 feet above the base flood elevation. Work also included grading, storm water, utility design, and coordinating with authorities.

**Civil Engineer for a new restaurant in Vienna, WV.** Project was located within City limits and had to incorporate very strict storm water management practices. Design of an underground storm water retention system to capture the first 1" of rainfall. Design also included grading, site layout, utility design, and coordinating with authorities.

**Lead Civil Engineer for renovation and reconstruction of a caustic tank loading/unloading facility at a local chemical plant.** Project included construction of cast in place concrete dike wall to ensure compliance with regulations. Design also included multiple utility relocations, layout of new pipe racks and retaining walls, etc.

**Lead Civil Engineer for construction of an mobile tank farm at a local chemical plant.** The tank farm was equipped with heating hookups for a portion of the trailers. Design included site grading and layout, utility design and routing, sediment and erosion control, truck turning analysis, etc.



## *John Bentz, P.E.*

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### *Position/Title*

*Civil Engineer*

### *Duties*

*Civil Engineer*

*Project Manager*

*Senior BIM Specialist*

### *Education*

*Marshall University*

*M.S. Engineering Management*

*Ohio University*

*B.S., Civil Engineering*

### *Licenses*

*Professional Engineer WV, OH*

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*Engineering is a form of art and has  
filled the world with things of obvious  
visual beauty but also subtle forms.*

*Louis Brown*

**Civil Engineer for approximately 3,925 linear foot waterline and meter replacement in Devola, OH.** Project included close coordination with Putnam Community Water personnel to replace approximately 3,925 linear feet of existing infrastructure with 6" line, and design tie-in connections to existing water mains to remain in place. Design duties include an on-site meeting, proposed waterline alignment and profiles, on-drawing specifications, and construction-related details.

**Civil Engineer for approximately 2 miles of new waterline and sewer line installation in Williamstown, WV.**

**Civil Engineer for approximately 4,600 linear foot of waterline and meter replacement in Marietta, OH.**

**Performed design services for commercial clients including conceptual design, grading, utility coordination, storm water system design, permitting, sediment and erosion control, and cost estimating.**

**Civil engineer for numerous horizontal drilling locations throughout West Virginia and Ohio.** Projects typically included all facets of design from conceptual planning through final design/construction of new access roads, drill pads, production pads, and sediment/erosion control measures. Other services included quantity takeoff/estimating, coordination with geotechnical firms, value engineering, coordination of utility providers, and design of any future reclamation efforts.

**Performed design associated with roadway improvement projects to assist clients in obtaining Road Use and Maintenance Agreements (RUMAs) in Ohio.** Responsibilities include initial roadway assessment, accommodation of movement requirements for well traffic (vehicle tracking, horizontal and vertical design constraints, sight distances, etc), design of drainage improvements and temporary traffic control measure, and close coordination with other engineers for the design/implementation of new stream crossings.

**Civil Engineer for multiple oil and gas projects throughout Ohio and West Virginia.** Work includes checking for conformance of construction activities to the design drawings, holding weekly progress meetings, and handling change orders.

**Civil Engineer for the addition of a new Emergency Department to a hospital in Parkersburg, WV.** Project was located within City limits and had to incorporate storm water management practices. Design of multiple utility relocations including an underground diesel storage tank. Design also included grading, site layout, parking flow and layout, and multiple construction phases which had to be coordinated with the hospital and City.

**Prepared construction documents in adherence to Ohio Department of Natural Resources Horizontal Well Site Construction (OAC 1501:9-2-02) regulations.** Performed all necessary calculations, documentation, and analyses to gain permit acceptance for construction under new ODNR regulations. Calculations and documentation include slope stability modeling, Stormwater channel/conveyance sizing, drill pad containment sizing to accommodate prescribed rainfall events, emergency release conveyance mapping, and stabilization measures.

**Performed construction administration for multiple oil and gas projects in Ohio and West Virginia.** Responsibilities included close communication with owner, preparation of agendas, attending/leading weekly progress meetings, reviewing and approving Applications for Payment, initiating and reviewing necessary Change Order documentation, performing routine site inspections, and reviewing construction-related reports.

**Performed multiple hydraulic analyses, using HEC-RAS and Civil3D, to provide access to new Drill Site Locations throughout Ohio and West Virginia.** Project included communication with environmental group to assist in permitting, performing necessary hydraulic calculations and modeling, and providing determination of impacts of new structures, along with design of temporary traffic control measures required for construction. Assisted clients with hydraulic analyses required for the West Virginia Department of Environmental Protection (WVDEP) Centralized Impoundments/Pit Application.

**Performed HEC-RAS analyses to serve as impact studies for water crossing infrastructure for various clients.**

**Assisted with annual bridge inspections, collected necessary measurements of each bridge and performed load rating services.**



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**David A. Boggs, P.E.**

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**Position/Title**

Senior Mechanical Engineer, Plumbing Engineer  
Vice President of Operations

**Duties**

Mechanical and Plumbing Engineer

**Education**

Virginia 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*

**Project Manager for NGL Truck Loading/ Unloading Storage Facility in Napoleonville, LA.** Managed team of process, civil, structural, electrical and mechanical engineers. Total project \$11MM.

**Mechanical Engineer lead for Oil & Gas Production Facilities throughout the Mid-Ohio Valley.** Lead team of civil, process, mechanical and electrical engineers to develop production pad facilities at five different locations that included both Marcellus and Utica wells. Assisted client with development of process and instrument diagrams, piping specifications, site equipment layout and piping design. Coordinated setting up process hazard reviews (PHA) with client. Assisted with construction administration.

**Lead Mechanical Engineer for design of a second dryer line to an existing manufacturing facility in Parkersburg, WV.** Pickering Associates is working with Kuraray America at their Washington Works Facilities to design a second dryer line to their existing operations. The project site is land-locked and will be constructed within the footprints of existing buildings and active production areas. Construction activities will occur in over 30,000 sf of the plant. Pickering Associates has utilized several 3D design tools and techniques to help coordinate the design with existing conditions. Focused demolition has begun and startup is scheduled for early 2018.

**Fifteen years of progressive design services to Industrial Clients throughout the Mid-Ohio Valley.**

**Lead Mechanical Engineer for a greenfield mineral wood manufacturing facility in Millwood, WV.** Design included cooling water systems, compressed air services and building utilities.

**Lead Mechanical Engineer of record for a new \$30MM plastics manufacturing facility in Mineral Wells, WV.** Design included plant process utilities including cooling water, plant air and natural gas piping systems.

**Lead Mechanical Engineer for \$8MM quality control laboratory and administrative building at a chemical facility in Belpre, Ohio.** Design included compressed air, vacuum and bench-top lab gases. Assisted with selection of bench-top hoods and lab HVAC system.

**Shutdown Schedule Coordinator for a plastics manufacturing plant in Marietta, OH.** Coordinated and planned an entire plant shutdown schedule using Microsoft Project Software from information collected during multiple meetings with project engineers and plant maintenance staff.

**Lead Mechanical Engineer of record on a new steam plant for an industrial client in Willow Island, West Virginia.** Project included the design of a new steam line header using CAEPIPE stress analysis program.

**Mechanical Engineer for the development of multiple construction bid packages to convert large existing dust collectors to a new technology at a metals manufacturing facility near Charleston, WV.** Duties included performing heavy ductwork design and detailing support structure.

**Lead Mechanical Engineer of record for the design of utility piping systems in an Industrial plastics facility in Davisville, WV.** Systems included steam, sanitary water, domestic water, as well as all utility plumbing.

**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.





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*William B. Showalter, P.S.*

*Position/Title*

*Professional Surveyor,  
Surveying Department Manager*

*Duties*

*Surveyor*

*Education*

*B.S., Civil Engineering*

*Licenses*

*Konrad Adenaur*

*Professional Surveyor* [REDACTED]

*WV Society of Professional Surveyors, National  
Society of Professional Surveyors*

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*We all live under the same sky,  
but we don't all have the same  
horizon.*

**Lead Professional Surveyor** for Jackson County Development Authority JCMIC Utility and Rail Improvements. (See project write up following)

**Lead Professional Surveyor** for Phase 1 and Phase 2 of the Larry Lang First Colony Development. (See project write up following.)

**Lead Surveyor on Camden Clark Memorial Hospital South Tower Expansion.** Boundary and topographic survey of pre construction (existing) facilities. Construction layout of South Tower Expansion. 2+- Acres, Cost >\$20,000, Manage office and field work.

**Lead Surveyor on Camden Clark Memorial Hospital Transportation & Phlebotomy Project.** Topographic survey of proposed expansion area. Cost < \$5000.00, Manage office and field work

**Lead Surveyor on St. Joseph Hospital Office Annex (DeSales Medical Center).** Boundary and topographic survey of pre construction (existing) facilities. Construction layout of Office Annex. 8+- Acres, Cost >\$30,000, Manage office and field work

**Lead Surveyor on First Colony Center commercial development, Marietta, OH.** Boundary, and topographic survey of pre-construction (existing) facilities. Construction layout of development. 15+- Acres, Cost >\$80,000, Manage office and field work

**Lead Surveyor on City of Vienna Water Tanks Renovation Project, Vienna, WV.** Boundary, and topographic survey of pre construction (existing) facilities. Preparation of construction easements. 12+- Acres, Cost >\$10,000, Manage office and field work

**Lead Surveyor on American Land Title Association (ALTA) Survey for the construction of a cogeneration plant.** Land Survey and research of utility easements, road/highway rights of ways for the placement and construction of a new facility. Survey 50+- Acres, Cost <\$20,000, Manage office and field work.

**Lead Surveyor for Triad Hunter -Ormet 2-15 Boundary, topographic and construction layout of multi-million dollar oil and gas facility.** 300+ Acres, Cost > \$40,000, Manage office and field work

**Lead Surveyor for MPH Hotels Comfort Suites project.** Boundary (ALTA), topographic and construction layout of hotel location. 3+ Acres, Cost < \$15,000, Manage office and field work

**Lead Surveyor for Ohio University Steam Plant Line Expansion project.** Utility survey of existing buried lines, tunnels, etc. Topographic survey of proposed routing of new piping. 4000+ LF, Cost < \$20,000, Manage office and field work

**Lead Surveyor for City of Marietta Green Street Widening Project.** Survey of existing buried / aerial lines. Topographic survey of proposed widening area. 4000+ LF, Cost < \$7000, Perform Field work, prepare deliverables and manage office.

**Lead Surveyor for Ohio Department of Transportation, Monroe Full Service Maintenance Facility.** Topographic and boundary survey of pre-construction (existing) facilities. 12+ - Acres.

**Lead Surveyor for Ohio Department of Transportation, Washington Full Service Maintenance Facility.** Topographic and boundary survey of pre-construction (existing) facilities. 10+ - Acres.



**Mark Moore, P.E.**

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**Position/Title**  
*Electrical Engineer*

**Duties**  
*Electrical Engineer*

**Education**  
*West Virginia University Institute of Technology*  
*B.S. in Electrical Engineering*

**Licenses**  
*WV, MD*

*Success is no accident. It is hard work,  
perseverance, learning, studying, sacri-  
fice and most of all, love of what you are  
doing or learning to do*

*Pele*

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**Electrical Engineer for Randolph County Development Authority at Armstrong Manufacturing in Beverly, WV.** Project scope included coordinating with utility companies, review existing distribution and make the needed adjustments, update documentation for new additions. Upgrade equipment and specifications for plant electrical distribution and changes, develop site layout and assist with construction negotiations and specifications.

**Electrical Engineer for a Commercialization Station for the City of Bluefield, WV.** Project scope included demolition of all existing power panels, receptacles, lighting, conduits, cable ducts, wiring, and data communication outlets. Additionally designs were made for all of the renovations needed in place for the project. Upgrades included LED fixtures, switching, mounts, the main distribution panel, receptacles and garage door motors.

**Electrical Engineer for upgrades and installation of a new building complex that allows for Fermentation, Chiller Relocation in Maxwelton, West Virginia.** Project Scope included electrical installation and distribution, demolition, location, and installation of new electrical equipment and fire alarm system. Design plan development, coordination with providing utility companies, interior lighting design for office space. As well as code requirements and upgrades.

**Electrical Engineer for HVAC renovations for Cabell Huntington Hospital located in Huntington, WV.** Project scope included design services for a new supplemental HVAC system to service the Pack/Prep and Decontamination center of the Hospital. This included outside air units and installation of new exhaust fans to help maintain pressure relationships. Additionally the team managed all coordination with the WV state fire marshall office and OHFLAC to obtain all the proper permits and approvals needed for the project.

**Electrical Engineer for Ona Transmitting Station Electrical Study for WSAZ television station located in Charleston, WV.** Project scope included electrical study and site survey of existing facilities to catalog the amounts remaining that were relocated. Additionally the team oversaw and made recommendations for the existing equipment so that it could be brought up to code standards.

**Electrical Engineer for renovations made at the Memorial EP Lab Charleston Area Medical Center in Charleston, WV.** Project scope included evaluation of existing equipment and distribution, demolition, and installation of new equipment. Developing installation plans for lighting adjustments, power conduit and wiring requirements, control cable raceways and fire alarm system upgrades. The team managed all coordination with Philips Healthcare to ensure all equipment requirements and specifications were met and up to date.

**Electrical Engineer for renovations performed in the Wound Care Clinic at Cabell Huntington Hospital in conjunction with Ed Tucker Architects, in Huntington WV.** Project included removal of existing electrical systems, developing a plan for new electrical layout and power installations. The team had to ensure that all life safety and emergency lighting requirements were met and up to date.

**Electrical Engineer for phase 2 renovations for the new Music Therapy program facility at Marietta College in Marietta, OH.** Project included removal of exiting light fixtures and set ups, designs and layout for new lighting specs and fixtures. The team had to ensure safety and fire alarm requirements were met and up to date , and design a new receptacle layout system for the building. Additionally the team had to handle and manage all coordination between Pickering and the Campus IT department to ensure designs and layout were capable for the campus's system.

**Prior to joining Pickering Associates was an Electrical Engineer for Boiler replacement and renovations project for the West Virginia Capital Complex.** Project Scope included design and layout, engineering studies, equipment specifications, and overseeing installation.

**Prior to joining Pickering Associates was an Electrical Engineer for various electrical upgrades at the Mercer County Courthouse in Princeton West Virginia.**

**Prior to joining Pickering Associates was an Electrical Engineer for Medium Voltage Loop Upgrades project at Concord University in Athens, West Virginia.**

**Prior to joining Pickering Associates was an Electrical Engineer for a Keephills Coal Handling Project at Epcor in West Virginia.**



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*James R. Wark*

*Position/Title*

*Senior Project Manager  
Mechanical Designer*

*Duties*

*Project Management  
Construction Administrator  
Construction Inspection*

*Education*

*Washington Technical College  
A.S., Applied Business*

*Licenses*

*State of Ohio Certified Journeyman  
Pipe fitter/Plumber*

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*It is quite possible to work  
without results but never will  
there be results without work.*



**Construction administrator and inspection for Waste Water Treatment Plant Phase's 1 and 2 expansion at Marietta, Ohio.** Project consists of erection of a Biological Anoxic Separator, Aeration Tank Splitter and Influent Screen Structure. This also included a new Ultra Violet Disinfection building, new structure to house Centrifuges, electrical upgrades, new service, associated piping for facilities, and new Scada system. Yard piping consists of 36" down to 4" for the various systems. Scheduling of shutdowns a main concern to keep the city's treatment within NDPEs permit. Installation of Energy Recovery Ventilators in both buildings. Ductwork ranging in sizes from 12 inch to 36 inch. Electric unit heaters were installed in UV Building and hot water units heaters in the Centrifuge Building. All new work consisted of large diameter exhaust fans.

**Additional projects have included piping arrangement and design for Eureka Hunter Carbide Compressor site in West Virginia and piping design at Eramet in Marietta**

**Project administrator and site inspection for the Putnam Community Water Corporations water plant expansion.** Project consists of new masonry building, new reverse osmosis technology, electrical, mechanical, and HVAC components.

**City of Pataskala Project Representative for construction of a new 1.5 MG water plant.** Work consisted of new pre-engineered metal and masonry facility with office and laboratory. Tonka dualator filtration system with ion exchange softening, accompanied with salt storage tanks with brine day storage. Concrete red water filter for back-wash water from filters, brine waste storage tanks, above ground water storage tanks and two new water production wells. Work also consisted of electrical, stand-by generator, HVAC which included energy recovery ventilation in the influent screen building and new heating in blower building, Scada control system, outlying water storage tank telemetry, control integration with existing city water treatment plant, plant security, and 5.5 miles of 14" water transmission main to the city distribution system.

**City of Pickerington Construction Manager/Inspector for the expansion of the existing 1.5 MGD plant to 3.5 MGD.** Design included conversion of the Tonka aerator/detention/filter unit to a detention chamber/carbon dioxide feed system, conversion of the 60,000 gallon clearwell to a detention tank. New heating and cooling equipment installed to meet EPA requirements for laboratory and plant. SCADA system I/O points and radio telemetry equipment was modified for the expanded/new processes. Project also included expansion to the existing building for equipment, office space and laboratory.

**Columbus Zoo and Aquarium Construction Inspection for the construction of a new water plant which provides water to the new Polar Exhibit utilizing geothermal cooling and heating.** Plant also provides all non-potable water to the zoo compound with option of converting to potable water at a later date. The plant can produce 1.5 MGD from the new well field. Project also included a new pre-engineered metal building for water plant equipment, and offices for zoo maintenance employees. Geothermal heat was utilized in the building as well.

**City of Marietta Construction manager and site inspection for a 2 million gallon storage tank and pipeline, including valve vault and PRV stations.** Project also included installation of new pumps, VFD's, switchgear and telemetry. Over 2.5 miles of 18" C-900 pipe was installed. New 4000' access road was built to the storage tank.

**City of Pickerington Construction Administrator and Construction Inspection for 32,000 square foot Police Station and jail.** Building included offices, mechanical room, evidence storage, Jail section with sally-port, indoor shooting range with automatic air ventilation for the removal of lead contaminants and fumes. Heating and cooling was achieved by the use of large air handlers and large diameter ducting. Zoning of rooms was a must, especially the jail area.

**City of Gahanna Project Representative for \$2.5M road widening project which was first phase for a future ODOT bridge project.** Project included removing existing 2-lane and widening to 4-lane with elevated approach. Improvements included new storm system, water main and utility relocation, new traffic signal and new bike path.



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***Keri L. Dunn***

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***Position/Title***

*Specification Writer  
AIA Contract Administrator*

***Duties***

*Specification Writer, Bid Administration  
and Contract Administration*

***Education***

*Washington State Community College  
A.S., Industrial Technology*

*If you want to be creative in your  
company, your career, your life, all it  
takes is one easy step ... the extra one.*

*Dale Dauten*

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Bidding Coordinator and Construction Contract Administrator. Bid duties include preparation of front end specifications required for procurement, addressing bidding questions, preparing addenda, receiving and tabulation of bids, and issuing letter of intent. Contract Administration duties include preparing and executing contract documents, change proposal requests, change orders, change directives, receiving bonds and insurance from contractors, processing pay applications and closeout documentation. Familiar with WV School Building Authority Requirements and various grant requirements including the American Recovery and Reinvestment Act. Projects have included:

**Recent projects include:**

- Facade Renovations at West Virginia University at Parkersburg's Downtown Center.
- New Elevator Installation at West Virginia University at Parkersburg's Downtown Center.
- Electrical Service and Distribution at West Virginia University at Parkersburg's Downtown Center.
- Roof Replacement at West Virginia University at Parkersburg's Downtown Center.
- Asbestos Abatement at West Virginia University at Parkersburg's Downtown Center.
- Chiller Replacement at West Virginia University at Parkersburg's main campus.
- Salt and Motorcycle Storage Building at West Virginia University at Parkersburg's main campus.
- HVAC Upgrade project at West Virginia University at Parkersburg's Caperton Center.
- Fire Alarm Upgrades at West Virginia University at Parkersburg's main campus.
- Elevator Control Modernization at West Virginia University at Parkersburg's main campus.
- New Spec Process Building in Davisville, WV - multiple prime contracts.
- New Industrial Plant in Millwood, WV - multiple prime contracts.
- Energy Saving Implementation for Wood County Commission - multiple prime contracts.
- Access Safety at all Wood County School locations.
- Structural Repairs at Wood County Board of Education.
- Brick Repairs at an elementary school for Wood Co. Schools.
- Boiler Replacement at an Elementary School in Wood County, WV.
- Welding Shop Ventilation replacement at the Wood County Technical Center.
- Access Safety renovations at all Wirt County School locations.
- Access Safety renovations at several addition entrances for Wood County Schools.
- Access Safety and Main Entrance Renovations for Wood County Schools - four phases of implementation.
- Electrical Upgrades at two elementary schools for Wood County Schools.
- HVAC Renovations at the Wood County Courthouse for the Wood County Commission.
- Fifth Floor Renovations at Camden Clark Medical Center - Memorial Campus.
- Third Floor Renovations at Camden Clark Medical Center - Memorial Campus.
- Roof Replacement at the Polymer Alliance Zone in Davisville, WV.



# *Related Prior Experience*

*Type*

Government

*Services*

Civil

Survey

Project Management

Construction

Administration



Pickering Associates is working with the Putnam Community Water Corporation (PCWD) to replace the existing waterlines along Keeler Drive, Clark Drive, Walnut Drive and Milton Road in Devola, OH. The replacement project includes provisions for connections to mains on Masonic Park Road and Chamberlain Drive.

Pickering Associates is providing engineering and design services which include preparation of construction documents and an application for a permit to install, which were submitted to the Ohio Environmental Protection Agency (OEPA) for review and approval. All construction documents conform to OEPA requirements, the Ten State Standard and AWWA.

Provided services include a field reconnaissance including walking the site of the proposed waterline installation, preliminary mapping of the installation area, scheduling utility location inspections and marking services, survey services to establish topographic location of all known utilities and roadway right-of way, coordinating the preparation of Construction Documents with the Putnam Water Company Business Manager, presenting Construction Documents to the Putnam Water Company Board of Directors, and submitting approved Construction Documents to the OEPA.

The project team consisted of Mark Welch, PE as the lead civil engineer and project manager, Spencer Kimble, PE and John Bentz as civil engineers and construction administration, Bill Showalter as lead surveyor, and Jim Wark as construction administration.



**Type**

Government

**Services**

Civil

Project Management

Construction Administration



The Jackson County Maritime and Industrial Center (JCMIC) contacted Pickering Associates wanting to expand services to a new tenant in the park. These services were limited to expansion of the existing rail and to bring water, sewer gas, electric, and communication services to the new tenant. The total length of this utility line expansion was 1900 ft. and included a new sanitary sewer lift station. This project was split into three construction bid packages: 1) Gas, Water, and Sewer underground utility design, 2) General Site Work, Grading, and Drainage for the Rail installation, 3) Rail Design per CSX Standards. Pickering Associates provided project management, engineering design, and construction administration for all three of the JCMIC projects.

Pickering Associates held the initial stakeholder meeting and reviewed the existing conditions of the project and the design for the underground utilities portion of the project. Pickering Associates' professionals conducted the fieldwork and worked with the surveyor to provide additional topography. Pickering Associates also coordinated the Right-Of-Way permits with the West Virginia Division of Highways and contacted the utility companies for coordination and design. After approval of General Arrangement Drawing and Construction Estimate our engineer developed construction drawings and specifications for a public project. Pickering Associates held the construction kick off meeting and reviewed and approved the project submittals.

Pickering Associates also held the initial stakeholder meeting for the general site work, grading, and drainage for the rail installation. Our engineers completed the field work to complete the desired design services and contracted with a surveyor to provide additional project topography. Our professionals contacted and coordinated with all stakeholders involved in the project. When Pickering Associates' cost estimate was approved, the firm publicly advertised to contractors then reviewed contractor bids and made recommendations to the owner.

Pickering Associates' professionals reviewed and approved all project submittals and provided on-site owner representation for the project duration. Pickering Associates also handled all project close-out.

Lastly, in the rail design portion of the project, Pickering Associates issued our AutoCAD drawings to our sub consultants for the completion of the rail design package. After our sub consultants completed their tasks, Pickering Associates assembled all of the documents into a construction bid package and provided the owner with a construction cost estimate. Pickering Associates then publicly advertised to contractors, held a pre-bid meeting, and a public bid opening for this package. Our professionals reviewed contractor bids and made recommendations to the owner. Pickering Associates reviewed and submitted all project submittals and provided on-site owner representation for the project duration.

*Type*

Government

*Services*

Civil

Survey

Project Management

Construction  
Administration



Pickering Associates provided structural, civil, electrical, controls system design services and construction administration to the City of Marietta for a multi-phased project to increase capacity and performance of the Waste Water Treatment Plant. This project included new screeners, raw sewage pump station, centrate pump station, final clarifier's, MLSS splitter box, new UV equipment, raw activated sludge pump station, and high river pump station.

The total construction cost for this project is approximately \$14MM. Pickering Associates also assisted in the application and presentation for all EPA and local permits, along with OWDA funding.

**Type**

Government

**Services**

Civil

Survey

Project Management

Construction  
Administration



The City of Marietta planned to replace approximately 1,750 ft of existing waterline in Sherry Drive and 2,800 ft of existing waterline in Hadley Lane.

Pickering Associates provided surveying services to conduct a topographic survey of the project area at 1 foot contour intervals, elevations of road, walks, buildings and all appropriate items over the project area, above and underground utilities based upon utility locating service and visible improvements. The drawing included all physical structures in project limits, multiple control points set at strategic locations along project corridors, horizontal coordinates based upon OH State Plane South Zone NAD83, NAVD 1988 vertical datum, bond copy and electronic copy of computer files. The City of Marietta's Engineering Department was responsible for coordinating with utility providers to mark underground utilities.

Pickering Associates provided Civil Engineering services which included researching applicable requirements of governing authorities having jurisdiction, reviewing conceptual waterline alignment/ routing as proposed by the City of Marietta, creating utility drawings of the proposed replacement projects and developing alignments, creating waterline replacement profiles, creating waterline replacement sections, details and on-drawing specifications, developing construction drawings and quantities, reviewing contractor submittals and providing construction administration services throughout the project.

The project team consisted of Mark Welch, PE as the lead civil engineer and project manager, Spencer Kimble, PE and John Bentz as civil engineers and construction administration, Bill Showalter as lead surveyor, and Jim Wark as construction administration.



**Type**

Private

**Services**

Civil

Survey

Project Management

Construction  
Administration



Pickering Associates is working with Mondo Building and Excavating to install approximately 4,000 linear ft of new water and sewer lines to extend the main line utilities from the City of Williamstown to a new commercial development. The project also includes the design of two sanitary sewer lift stations.

Pickering Associates obtained all required permits including the City of Williamstown, WVDHHR, WVDEP and WVDOH. Currently In design, Pickering Associates is providing Surveying services to conduct a topographic survey of the project area. Civil Engineering services include researching applicable requirements of governing authorities having jurisdiction, reviewing conceptual waterline alignment/ routing as proposed by Mondo Building and Excavating, creating utility drawings of the proposed replacement projects and developing alignments, creating waterline profiles, creating waterline sections, details and on-drawing specifications, developing construction drawings and quantities, reviewing contractor submittals and providing construction administration services throughout the project.

The project team consisted of Mark Welch, PE as the lead civil engineer, project manager, and construction administrator; Spencer Kimble, PE and John Bentz as civil engineers, and Bill Showalter as lead surveyor.

*Type*

Private

*Services*

Civil

Surveying

Landscape Design

Project Management

Construction  
Administration



Miller Valentine purchased five acres of undeveloped property near Rayon Drive in Parkersburg, WV, commonly known as Edison Hill, to construct a new housing development on the site to include seven houses, four town house buildings, a club house and a playground. The project includes approximately 2,000 ft. of new city roadway and main line utilities.

Pickering Associates was hired to provide civil engineering, surveying, and environmental permitting services. The project required 8 different permits to be obtained prior to beginning construction. The team successfully obtained all eight permits and completed design prior to the client issuing drawings for bidding.

A new roadway, as well as new main line utilities from Rt. 95 were constructed at approximately 1,000 LF.

The design phase was completed on 10/3/16 and the construction phase was completed on 12/1/17.

Point of contact for this project:

Paul Metzger, Miller Valentine Affordable Housing, L.L.C | 513.588.1204 | paul.metzger@mvg.com



*Type*

Private

*Services*

Civil

Survey

Project Management

Construction  
Administration



Pickering Associates was hired by the client to provide civil engineering and surveying services for an 80-acre development project along Route 31 in Wood County. The project is to develop the property into a residential subdivision in phases. Phase 1 of the development included 15 residential lots. The utility infrastructure for Phase 1 included 1,555 ft. of waterline and 1,748 ft. of sewer line including fire hydrants, valves, manholes, etc.

Surveying services included a topographic and boundary survey of the entire property, construction staking and layout for roadway construction, utility infrastructure and grading, preparation of the subdivision plat and accompanying documentation. The entire survey team was involved in this project.

Civil engineering services included design and preparation of construction drawings for utility infrastructure, preparation and submittal of Permit-to-Install documents for approval through WVDEP and WVDHHR, assistance with the submission of alternative mainline agreement to the WV Public Service Commission and Union-Williams PSD, design of residential lots, roadway, and a cul-de-sac layout and grading according to Wood County Subdivision regulations, and coordination with WVDOH for approval of roadway bore utility permit for sewer line placed under Route 31.

The project team consisted of Mark Welch, PE as the lead civil engineer, project manager, and construction administrator; Spencer Kimble, PE and John Bentz as civil engineers, and Bill Showalter as lead surveyor.

*Type*

Private

*Services*

Civil

Survey

Project Management

Construction

Administration



Pickering Associates was hired by the Broughton Commercial Properties, LLC to construct a new sanitary sewer mainline extension to an three existing complexes near Marietta, WV. The sewer will tie into the existing Washington County sanitary system and stretch about 8524 LF stretching along Route 60 near Devola, OH, away from the 100 year floodplain.

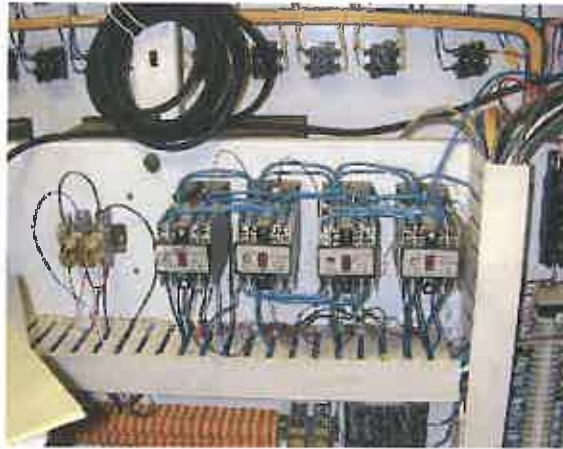
Project scope includes sewer piping, force main access, and manholes to be placed along project. Once completed the project is possibly going to expand again at a later date to State route 821/I-77 interchange. Additionally, in this phase Lift station #2 is being designed and constructed. Currently, this phase of the project is being worked on and once completed will move into phase two. In phase two an additional Lift Station #1 is to be developed and built.

*Type*

Government

*Services*

Electrical  
Controls and  
Automation  
Construction  
Administration



Pickering Associates continues to support the Lubeck Public Service District through many projects including 24-hour on-site call-out service. Most recently, the Lubeck PSD has installed remote well control systems upgrades. Pickering Associates provided design, fabrication and programming to automate six water tanks, two booster pump stations, one valve vault, seven water wells and the main water plant at the Lubeck Public Service District.

Pickering Associates provided one control panel with an Allen Bradley MicroLogix PLC and level transmitter to each tank. These panels will now report current tank levels.

The valve vault was provided with one control panel with an Allen Bradley MicroLogix PLC in order to report flow, valve position and control valve position.

Each booster station was provided with one control panel with an Allen Bradley MicroLogix PLC and an Allen Bradley PanelView Plus. One booster station was provided with a level transmitter. These panels can report intrusion, pump running, auto and fail status, pressure switch status and VFD control. They shall enable local start and stop as well as speed control for three motors. All operator interface at these sites is via screens on the PanelView 550.

The well site was provided with one control panel with an Allen Bradley MicroLogix PLC. This panel is able to report well level, flow, pump running for each well, overload failure for each well, and a level alarm for each well. It was also provided with a local start/ stop.

The main plant utilized its existing control panel with an Allen Bradley PLC. This PLC is able to receive and report the data from the remote devices as well as monitor the north and south clear well levels, high service pump status, lead/lag status, auto status of wells, interlocks, set-points and communications status. It can also output to an automatic telephone dialer and control the air stripper.

Pickering Associates provided one computer with Rockwell Software RSVIEW. All pertinent data on the existing Lookout software was converted and available on the new system. The HMI (Human Machine Interface) was programmed to display and control the new data.



**Type**

Education

**Services**

Civil

Construction  
Administration



Due to the addition of new buildings, parking lots, etc. over the years the existing storm sewer drainage system at the East Green area of Ohio University had become insufficient. A project in 2007 began the process of upgrading the existing system. In 2009, Ohio University contracted Pickering Associates to design the final piece of the storm sewer system upgrade.

The project goals were to connect two different portions of the original storm sewer system into the newer system constructed in 2007. The main portion of the project consisted of approximately 500 feet of 30" and 24" pipe installed in the East Green Drive roadway. The second portion of the project consisted of approximately 400 feet of 24" and 18" pipe installed in a yard area around multiple residence halls.

The abundance of existing steam, chilled water, electric, and water lines in the proposed storm sewer alignment made finding the appropriate route and elevation to miss these utilities challenging. An additional challenge to the project was providing a design to meet the \$200,000 budget of the college.

The college indicated prior to design the desire to use reinforced concrete pipe throughout the project along with providing new paving along the entire East Green Drive. Therefore, Pickering Associates provided alternate designs for both reinforced concrete pipe and high density polyethylene pipe along with different road paving options to allow the college to select which options best fit their budget and needs.

Through a creative and cost efficient design, the project was constructed with reinforced concrete pipe and new paving for under \$190,000. Construction administration services were also provided for this project.

These services included directing pre-bid and construction meetings, approving payment requests, providing inspection services at the job site throughout construction, and providing final record drawings of the project.

*Type*

Government

*Services*

Electrical

Controls and  
Automation

Construction  
Administration



Newport Water and Sewer District has again contracted with Pickering Associates to provide electrical engineering and design support services. This most recent project is the replacement of the influent lift station. The influent pump control panel will be relocated to the existing equalization basin platform in order to get it out of the flood plain.

In 2003, the Newport Ohio Water & Sewer District installed a new chemical feed building at their Newport well field. The building is used to store the chemicals and chemical feed pumps and needed to be powered from the existing well field control platform service drop. Pickering Associates reviewed the existing well field control platform service drop for capacity, then provided design of electrical distribution for equipment, lights, heaters, receptacles and other electrical loads and design of control wiring connections.

In 2000, Pickering Associates provided the design of a new pump motor control station to be relocated out of the 100 year flood plain. Design also included equipment for radio telemetry system, relocation of incoming service to the pump motor control station, specification of new pump motor starters and control components, design of underground feed to new pump, design of underground conduit to existing and new tank for pump control and alarming, specifications for new floats for new tank, all instruments and electrical material and general electrical specifications. Pickering Associates also provided a construction labor and material estimate, review of all shop drawings and construction coordination.



*Type*

Private

*Services*

Architectural

Civil

Mechanical

Electrical

Construction

Administration

Project Management



Mondo Building and Construction requested that Pickering Associates provide them with detailed Electrical Engineering and Design services for the Marina Sales Office and Boat Slip Area in Boaz, WV. This project was a part of the continuing development of the site which included four condo buildings, restaurants and retail, and the new boating marina including a concrete ramp and docks.

Pickering assisted in coordinating with the local utility company (MonPower) lighting and power design for the Marina Sales Office, and electrical distribution to eighty boat slips, two 40HP irrigation pumps, and fifteen golf cart charging station units. Additionally the team completed all site design, utility design, grading layouts and design, stormwater management design, and concrete and paving design.

Pickering's team also coordinated and obtained all of the necessary code requirements needed, since the project was located along the Ohio River, the team worked with the EPA and the Army Corp. of Engineers for permitting. The planned development will include four condo buildings, restaurants and retail, and a new boating marina including a concrete ramp and docks.

Pickering Associates completed all site design, utility design, grading layouts and design, stormwater management design, and concrete and paving design. The marina and new concrete boat ramp have been constructed, the docks are currently under construction.

As the project is located along the Ohio River, the team worked with the EPA and the Army Corp. of Engineers for permitting.

The project was completed in 2017.



# *References*



June 1, 2018

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 mean better projects. Simple as that.

A handwritten signature in black ink that reads 'John H. Anderson'.

John H. Anderson

Project Manger | Business Development

Mark Mondo Building and Excavating

740-376-9396

740-236-6006 Mobile

[john@mondobuilding.com](mailto:john@mondobuilding.com)



**ENGINEERING DEPARTMENT**  
304 Putnam Street - Marietta, Ohio 45750  
Phone (740) 373-5495 - Fax (740) 376-2006  
[www.mariettaoh.net](http://www.mariettaoh.net)

November 15, 2018

To Whom It May Concern:

Pickering Associates has worked with the City of Marietta on our City Hall Building Renovations, Armory Elevator Renovations, various Waste Water Treatment Plant Projects, as well as multiple other projects over the past several years, providing Architectural, Engineering and Surveying services for the City.

From initial project planning, design development and bidding, through contracting, construction administration and closeout, Pickering Associates has been beside the City of Marietta to provide any necessary support needed to make the project successful. Zac Campbell, Traci Stotts, Ron Arnold, and other Architects, Designers and Engineers have worked closely with our staff to run projects as efficiently as possible. Also Jim Wark with Pickering Associates has worked with the Engineering Department and City Staff for the past 3-years to provide Comprehensive Construction Administration Services from constructability review prior to bidding to final closeout of the project.

Their team has provided us with quality bidding/construction drawings and specifications, allowing us to receive accurate bids, which in turn, allows us to move ahead expeditiously from bidding to contracting. They have shown a clear understanding of the bidding and contract administration process, which truly helps make our job easier.

It has been a pleasure working with the staff at Pickering Associates, and I would not hesitate to recommend them for similar projects.

Sincerely,

Joseph R. Tucker, P.E.  
City of Marietta

# **LARRY LANG EXCAVATING, INC.**

**19371 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 D Lang*

Larry Lang

President

*Come grow with us!*

May 19, 2016

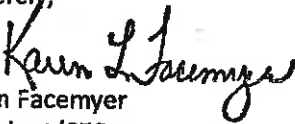
To Whom It May Concern:

Pickering Associates worked with Polymer Alliance Zone, Inc. on our 80,000 square foot pre-engineered warehouse building at Polymer Technology Park in Davisville, WV. The project was funded through WV Economic Development Administration (WVEDA) and the Infrastructure Joint Development Council (IJDC).

From initial project planning, design development and bidding, through contracting, construction administration and closeout, Pickering Associates was beside PAZ to provide any necessary support needed to make this project successful. Their professional team of Architects, Designers and Engineers, worked closely with our staff to make sure the design accommodated all of our needs.

It has been a pleasure working with the staff at Pickering Associates, and I would not hesitate to recommend them for projects of any type and magnitude. I continue to look forward to our future working relationship with their team.

Sincerely,



Karen Facemyer  
President/CEO  
Polymer Alliance Zone, Inc.





*Mayor*  
Randall C. Rapp

*Recorder*  
Cathy Smith

*City Council*  
Roger Bibbee  
Jim Miracle  
Bruce Rogers  
Steve Stephens  
Tom Azinger

April 18<sup>th</sup>, 2016

To whom it may concern,

Pickering Associates has worked with the City of Vienna on our Police Department Annex, Volunteer Fire Department, and Senior Center, as well as multiple other projects over the past several years, providing Architectural, Engineering and Surveying services for the city.

From initial project planning, design development and bidding, through contracting, construction administration and closeout, Pickering Associates has been beside the City of Vienna to provide any necessary support needed to make the project successful. Traci Stotts, Ron Arnold, and other Architects, Designers and Engineers, worked closely with our staff to make sure the design accommodated all of our needs.

Pickering Associates has consistently completed projects for us satisfactorily. Their team clearly exhibits a thorough understanding of the bidding and construction administration process, which makes for smooth-running projects.

We have enjoyed working with the staff at Pickering Associates and appreciate their work for the City of Vienna.

Sincerely,  


609 29th Street, P.O. Box 5097, Vienna, WV 26105 *Phone:* 304.295.4541 *Fax:* 304.295.0737



**Physical Plant Department**  
**Wood County Schools Maintenance**  
4701 Camden Avenue  
Parkersburg, WV 26101

Phone: 304-420-9568  
Fax: 304-420-9570

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January 10, 2019

To: Whom It May Concern

Subject: Customer Reference – Pickering Associates

Wood County Schools continues to contract with Pickering Associates in 2019 as they have for the past several years. Pickering Associates continues to deliver a quality product with excellent results.

In 2018 Pickering Associates continued to support the Williamstown Elementary construction project which is currently on schedule to be completed in 2020.

In 2018, the firm designed and oversaw the completion of 300,000 square feet of Wood County Board of Education roofing projects.

In 2019 Pickering Associates designed and will oversee the completion of 200,000 square feet of Wood County Board of Education roofing projects.

In 2018 Pickering Associates also completed the design of handicapped accessible bathrooms for Jackson Middle School and will assist with the oversight of the addition in 2019.

In 2018 Pickering Associates also completed the design and will assist in the oversight of the addition to Erickson Field Sports Facility bathrooms and concessions in 2019.

It has been a pleasure to work with Pickering Associates. I would not hesitate to recommend the Pickering Associates team to provide excellent design and oversight to any level of construction project.

Sincerely,

Martin Best

Physical Plant Director

**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.

Traci L Stotts, Architect  
 (Name, Title)  
Traci L. Stotts, Architect  
 (Printed Name and Title)  
11283 Emerson Ave. Parkersburg, WV 26104  
 (Address)  
(304) 464-5305 / (304) 464-4428  
 (Phone Number) / (Fax Number)  
tstotts@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)

Traci L Stotts, Architect  
(Authorized Signature) (Representative Name, Title)

Traci L. Stotts, Architect  
(Printed Name and Title of Authorized Representative)

02/25/19  
(Date)

(304) 464-5305 / (304) 464-4428  
(Phone Number) (Fax Number)

## ADDENDUM ACKNOWLEDGEMENT FORM

SOLICITATION NO.: 0310 DJR 1900000005

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- Addendum No. 1  
 Addendum No. 2  
 Addendum No. 3  
 Addendum No. 4  
 Addendum No. 5

- Addendum No. 6  
 Addendum No. 7  
 Addendum No. 8  
 Addendum No. 9  
 Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Dickering Associates  
 Company

Marci L. Spiller  
 Authorized Signature

02/25/19  
 Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

STATE OF WEST VIRGINIA  
Purchasing Division  
**PURCHASING AFFIDAVIT**

**CONSTRUCTION CONTRACTS:** Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

**ALL CONTRACTS:** 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 §81-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, 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: Pickering Associates

Authorized Signature: [Signature] Date: 2/25/19

State of West Virginia

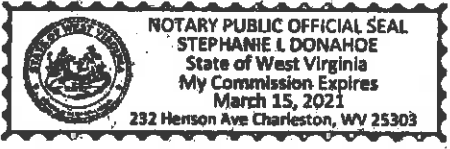
County of Kanawha to-wit:

Taken, subscribed, and sworn to before me this 25<sup>th</sup> day of February, 2019.

My Commission expires March 15<sup>th</sup>, 2019.

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]





# West Virginia Ethics Commission Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: Pickering Associates Address: 1183 Emerson Ave.  
Parkersburg, WV 26101

Name of Authorized Agent: Traci Stotts Address: Same

Contract Number: CE00310DWR190000005 Contract Description: Engineering Services

Governmental agency awarding contract: Division of Natural Resources

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

1. Subcontractors or other entities performing work or service under the Contract

Check here if none, otherwise list entity/individual names below.

2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)

Check here if none, otherwise list entity/individual names below.

Ryan Taylor

3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)

Check here if none, otherwise list entity/individual names below.

Signature: Traci Stotts

Date Signed: 2/25/19

### Notary Verification

State of West Virginia, County of Kanawha:

I, Traci Stotts, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 25<sup>th</sup> day of February, 2019.

Stephanie L Donahoe  
Notary Public's Signature

### To be completed by State Agency:

Date Received by State Agency: \_\_\_\_\_

Date submitted to Ethics Commission: \_\_\_\_\_

Governmental agency submitting Disclosure: \_\_\_\_\_

