

ENGINEERING ARCHITECTURE FIELD SERVICES

September 5, 2018

Attn: Melissa K. Pettrey, Senior Buyer 2019 Washington Street, East Charleston, WV 25305

RE: Architectural / Engineering Services for Building 74 Renovations

Dear Ms. Pettrey and members of the selection committee:

The Thrasher Group appreciates the opportunity to submit our qualifications to the Division of Natural Resources: Building 74 Renovations project. As demonstrated through our qualifications in this submission, we are confident that we are the right firm for your job.

Outdated buildings, unfortunately, do not reflect the positive image that we, as proud citizens of the State, hope to portray. We recognize that in this age of advanced technology and speed-of-light communications, outdated buildings and systems can be costly to operate and increase the challenges tenants face as they endeavor to accomplish their tasks.

We have a team that can provide a wide range of professional services for your project, and adequate staff to commence immediately. We are prepared to provide timely responses, make frequent site visits and be available for meetings as required to fit the needs of all design committee members.

We look forward to the opportunity to discuss our qualifications, relevant experience and approach to your project.

Sincerely,

THE THRASHER GROUP, INC.

Craig Baker, CEFP

Architecture Division Manager

RECEIVED

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WV PURCHASING DIVISION

THE THRASHER GROUP

MISSION

To improve the communities where we live and work by driving infrastructure development.

VISION

To be the Mid-Atlantic firm of choice for clients and employees.

CORE PRINCIPLES

Quality Safety Adaptability Integrity



9

OFFICES

in six states:

West Virginia Virginia Pennsylvania Ohio Maryland Kentucky



580

EMPLOYEES

34 Licensed Professional Engineers

20 Licensed Professional Surveyors

6 Licensed Professional Architects



35

YEARS of delivering successful projects

Main Point of Contact

Joe Sinclair, AIA
Project Manager/Architect
jsinclair@thethrashergroup.com

Cell: 304-518-9304 Office: 304-343-7601

We're a team of engineering, planning, architecture, and survey consultants with the experience, integrity, and versatility to get the job done. We plan, design, contract, and manage your project... overseeing everything, or helping with a portion... all while keeping your end goals in mind.



CAS STRUCTURAL ENGINEERING

SERVICES

Providing structural engineering design and/or analysis on a variety of projects throughout the state of West Virginia, CAS Structural Engineering has experience in excess of 30 years on the following types of building and parking structures:

- > Governmental Facilities (including Institutional and Educational Facilities)
- Industrial Facilities
- Commercial Facilities

CAS Structural Engineering, Inc. – CAS Structural Engineering, Inc. is a West Virginia Certified Disadvantaged Business Enterprise structural engineering firm located in the Charleston, West Virginia area.



Main Point of Contact

Carol Stevens, PE, SECB, FASCE Structural Engineer calalane@aol.com Office: 304-756-2564 Fax: 304-756-2565 Projects range from new design and construction, additions, renovation, adaptive reuse, repairs and historic preservation (including use of The Secretary of the Interior's Standards for Rehabilitation) to evaluation studies/reports and analysis.

CAS Structural Engineering utilizes AutoCAD for drawing production and Enercalc and RISA 2D and 3D engineering software programs for design and analysis. Structural systems designed and analyzed have included reinforced concrete, masonry, precast concrete, structural steel, light gauge steel and timber.

Carol A. Stevens, PE is the firm President and will be the individual responsible for, as well as reviewing, the structural engineering design work on every project. Carol has over 30 years of experience in the building structures field, working both here in West Virginia and in the York, Pennsylvania vicinity. Carol is also certified by the Structural Engineering Certification Board for experience in the field of structural engineering.

CAS Structural Engineering, Inc. maintains a professional liability insurance policy.

MILLER ENGINEERING

SERVICES

Services range through all facets of mechanical, electrical, and plumbing design to construction administration, project management, aquatic facility design, and pool design or refurbishment.

Miller has worked in both private and public sectors and is familiar with many methods of project delivery from classic design/bid/build to full design/build with partnering. Our team can provide multiple solutions and alternatives to your project.



Main Point of Contact

Craig Miller, PE, LEED AP President – Miller Engineering cmiller@millereng.net Office: 724-966-5655 **15**

YEARS

Since 2003, Miller Engineering is a provider of professional engineering services to facility owners, architects, and contractors in West Virginia, Pennsylvania, Ohio, and Maryland.

THE THRASHER GROUP





SERVICES

- > Architecture
- > Construction Management
- > Engineering
- > Environmental
- > Survey
- > Materials Testing and Inspection



CORE MARKETS

- > Commercial
- > Education (K-12, Higher Ed)
- > Oil and Gas
- > Public/Private Utilities
- > Land Development
- > Highways and Roads
- > Industrial

EXECUTIVE SUMMARY

HISTORIC

We have extensive experience working with historic structure renovation, rehabilitation, and re-adaptations. Whether or not the structure is a Contributing Structure on the National Register of Historic Structures, we know how to maintain and respect important historic elements while developing our designs.

PROFESSIONAL OFFICES

We have extensive experience designing professional office buildings for governmental entities, commercial tenants, and professional services. We understand both today's professional environments and the importance of flexible, adaptable design that can accommodate tomorrow's needs.

GREEN / LEED

With seven LEED professionals on staff, and as the A/E team responsible for the largest LEED Gold Certified building in WV, we are proud of our practice of "green" design. We endeavor to incorporate sustainable design and constructions practices in every project, whether it is for LEED credits, Green Globe certification, or for the sake of doing the right thing.

VISUALIZATION TECHNOLOGY

We utilize the latest in BIM software and techniques. A virtual 3D model will be created by the A/E team to develop the design and produce construction documents. The BIM method eliminates potential system conflicts and provides a study tool to maximize design efficiencies. Animations and images will show the completed design so everyone understands the anticipated finished product.

ENVIRONMENTAL

We have an experienced environmental division with the capabilities to inspect, sample, test and analyze potential hazardous materials, and then identify, quantify and produce abatement contract documents per applicable regulations.

CONSTRUCTION

An added advantage that we bring is the diverse experience of our dedicated staff. In addition to the large team of designers, architects and engineers, we have numerous personnel with backgrounds as contractors. This gives us some important advantages; we develop detailed construction cost estimates based on "real-world" experience, 2) we think about 'constructibility' during the to maximize efficiencies, and 3) we have folks dedicated to construction administration with decades of experience reviewing contractor work.

PROXIMITY

While we have offices in six states, The Thrasher Group is headquartered in West Virginia, and our Office is only minutes from the Capitol grounds.

PROJECT APPROACH

Thrasher's approach to the Building 74 renovation is as follows:

EVALUATION & ASSESSMENT

Identification of Project Goals:

- > Gain understanding of specific needs
- > Discuss preliminary program, scheduling targets and budgetary limitations
- Determine and prioritize general needs

Survey and Document Existing Property Conditions:

- > Field survey, measure and record existing conditions
- Produce an accurate three-dimensional model (BIM) of the existing property, including site plan, building plans of each floor and building elevations

Initial Environmental Assessment:

> Identify potentially hazardous materials in areas affected by proposed improvements, and collect samples as applicable

Stormwater Management Assessment:

> Inspect existing conditions of site, roof, and building envelope to identify needed corrective work and verify adequacy of stormwater collection system

Electrical, Mechanical and Plumbing Systems Assessment:

- Verify existing conditions and system adequacy
- > Lighting
- > Incorporate existing systems into BIM model

Structural Assessment

Life Safety Assessment

- > Fire Protection
- > Egress

Architectural Assessment

- > Building Envelope
- > Finish Upgrades

REPORT

Overall Plans and Report:

- > Report that reviews findings, presents recommendations for phasing of work with anticipated schedules and associated funding
- > Identify code deficiencies and propose design solutions to correct issues
- Important considerations in developing plans for improvements
 - Existing building conditions and required upgrades
 - Maintaining historic integrity and character
 - Reasonable, justifiable, economy-minded approaches
 - Utilizing sustainable construction practices
 - Establishing specific goals for, or comparable to, LEED credits
 - Minimizing disruption to building occupants during the Work
 - 'Constructibility' considerations such as contractor storage and staging, removal of demolition materials and delivery of new construction materials

Programming:

- > General needs anticipated for the various project phases
- > Specific Tenant programming; spatial needs, functional relationships, and anticipated occupants

PROJECT APPROACH

DESIGN

For each phase of Work the following would be performed as requested:

Schematic Design Phase:

- > Indicate the general improvements proposed, including demolition and renovation work
- > Schematic plans and elevations
- > Preliminary 3D images of areas where aesthetics are a prime consideration
- > Preliminary cost estimates
- > Preliminary construction schedules
- Meetings with Owner to review for revisions
- Revise to achieve approval of design and scope of work

Design Development Phase:

- > Drawings indicating the proposed scope of work and the design intent in greater detail
- > Outline specifications indicating proposed systems and general level of quality, often with 'basis-of-design' information
- Design solutions to required mechanical, electrical and plumbing work
- > Design renderings and/or animations that approximate the completed work
- > More detailed construction cost estimate
- > Proposed construction schedule
- > Considerations include;
 - Building, Life Safety, Accessibility code compliance
 - Material acquisition and delivery times
 - Industry design trends vs. traditional methods
 - Flexibility for future technological advancements
 - Sustainability practices
 - System reliability
 - Maintenance requirements
 - · Budget limitations and expiration of funds
 - Maximizing environmental comfort for building occupants
 - Get natural light as far into the building as possible
 - Potential bidders (contractors)
- > Review outline specifications for systems and materials with Agency Procurement Officer
- > Preliminary code review with State Fire Marshal
- > Review design intent with Capitol Building Commission
- Meetings with Owner to review plans and specifications
- Revise to further refine design and scope of work



PROJECT APPROACH

Construction Document Phase:

- > Complete Construction Documents
- Detailed drawings include all necessary information for bidding and construction; hazardous material abatement plans (as required), site plans, demolition plans, structural plans, floor plans, ceiling plans, sections and details, schedules, standards, etc.
- > Detailed specifications for all systems and materials to give bidders unambiguous requirements for bidding and construction. Unless indicated otherwise by the Owner, specifications for systems and materials will be quality and performance-based and allow for multiple vendors to compete
- > Final construction cost estimate
- > Final construction schedule
- > Develop qualification requirements for prospective bidders
- Formal submissions to AHJ's for review
 - State Fire Marshal's Office
 - Capitol Building Commission
 - Agency review committees
 - Municipal Building Permit agencies (as applicable)
 - Health Department (as applicable)
 - Meetings with Owner to review Bid Documents

CONSTRUCTION

Bid Phase:

- > Prepare formal Advertisement for Bids
- > Provide Bid Documents
- > Conduct Bid Opening
- > Evaluate Bid results
- > Reviewing and verifying bidder qualifications

Construction Administration:

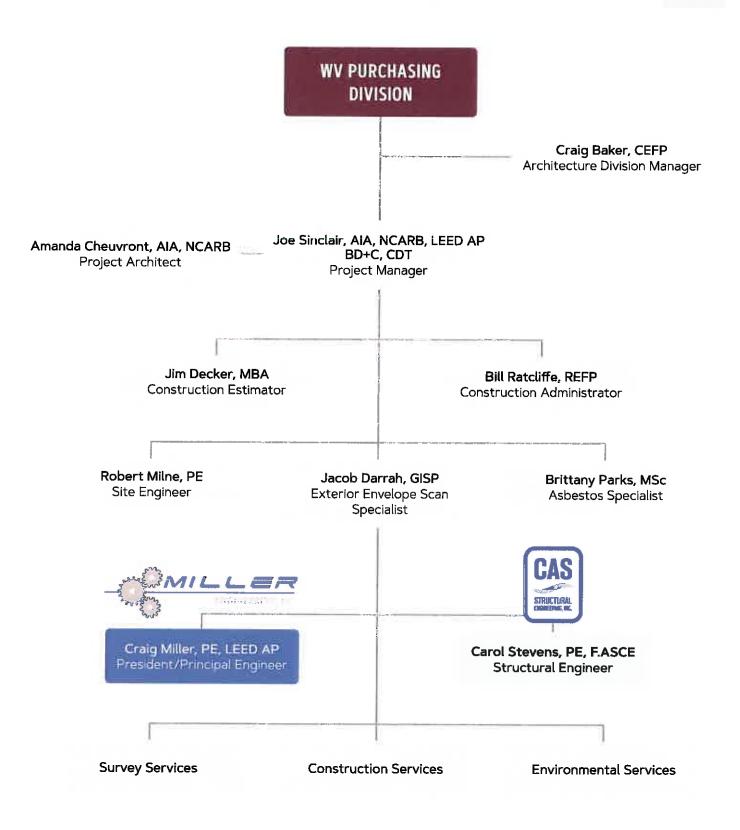
- > Prepare Contracts, Notices of Award, Notices to Proceed
- Respond to Requests for Information
- > Review and approval of Submittals and Shop Drawings
- > Perform regular site visits to verify quality of work and compliance with Contract Documents
- > Review and approve Applications for Payment
- > Prepare media to assist Owner/Agency/Tenant with selection of interior finishes and colors
- Perform Substantial and Final Completion walk-throughs and develop applicable Certificates

Warranty:

> Assist with issues related to Contractor warranty notification as required



KEY PERSONNEL



CRAIG BAKER, CEFP

Architecture Division Manager



EducationBachelor of Science,
Architectural Engineering
Fairmont State University

Advanced Certificate, Educational Facililties Planning San Diego State University

Affiliations

- American Institute of Architects - Associate, West Virginia and National Chapters
- Certified Educational Facilities Planner (CEFP)
- Council of Educational Facilities Planner
- West Virginia Energy Services Coalition

Craig Baker, CEFP is an experienced designer and manager with an extensive background working with clients to design, plan, and manage projects both large and small. As a Certified Educational Facilities Planner (CEFP), he has a special interest in the functionality and design of educational facilities.

Craig has worked on a wide variety of projects during his tenure at Thrasher. His knowledge includes a thorough understanding of industrial facilities, administrative office spaces, academic building design, government buildings, residences, medical facilities, and hospitality.

As manager of Thrasher's Architectural Division, Craig works hand-in-hand with staff and clients to ensure projects remain on time and within budget. In addition to his strong technical skills, Craig's attention to client communication and responsiveness make him an excellent manager. He manages coordination of construction, detailed construction document preparation, bidding, construction management and contract administration.

Experience Barbour County Career Center Renovations and Annex

Role: Division Manager > Barbour County, WV

Calhoun-Gilmer County Career Center Renovations Project

Role: Division Manager

> Calhoun County, WV

West Virginia University Institute of Technology Interior Renovations to the Student Recreation Center

Role: Division Manager > Fayette County, WV

Fairmont State University Hunt Haught Hall Renovations

Role: Division Manager

> Marion County, WV

VA Building 7 Renovations

Role: Division Manager > Harrison County, WV

Doddridge County Commission Courthouse Renovations

Role: Principal

> Doddridge County, WV

Harrison County Courthouse Interior and Exterior Renovations

Role: Division Manager
> Harrison County, WV

Pendleton County Courthouse Remodeling and Facility Upgrades

Role: Division Manager
> Pendleton County, WV

JOE SINCLAIR, AIA, NCARB, LEED AP BD+C, CDT

Project Architect



Education

Master of Architecture,

Savannah College of Art &

Design

Bachelor of Science, Architectural Engineering Fairmont State University

Registrations

Professional Architect:

> West Virginia

Affiliations

- NCARB Certificate LEED Accredited Professional, Building Design & Construction - GBCI#: 10052110
- Construction Documents
 Technologist (CDT) –
 Construction Specifications
 Institute (CSI)
- Member American Institute of Architects – West Virginia Chapter
- Member United States Green Building Council (USGBC) - West Virginia Chapter

Joe brings more than 10 years of architectural experience in all phases of design ranging from commercial renovations, additions, and new construction to historic preservation and multi- and single-family residential projects. Joe's resume is built with architectural experience from Savannah, GA; Atlanta, GA; Charleston, WV; and North Central West Virginia. Joe joined the Thrasher team in 2017.

Joe is an Iraq War Veteran and former member of the West Virginia Army National Guard. In addition to working full-time as an Architect at Thrasher, Joe serves as an Adjunct Professor in the Construction Management program at BridgeValley Community & Technical College in South Charleston, WV. Joe's expertise lies in utilizing building information modeling (BIM) software for project development, documentation, and management.

Experience Houston Coal Company Store Facility Assessment

Role: Project Manager
> McDowell County, WV

2nd Avenue Community Center Facility Assessment

Role: Project Architect
> Kanawha County, WV

Harrison County Commission Courthouse HVAC Replacement

Role: Project Manager
> Harrison County, WV

Design of the Beech Fork Lodge and Conference Center

Role: Project Architect

> Wayne County, WV

Cohen Building Facility Assessment

Role: Project Architect

> Taylor County, WV

G.C. Murphy Building Facility Assessment

Role: Project Architect
> Nicholas County, WV

Boy Scouts of America Dining Hall and Bunkhouse

Role: Project Architect
> Fayette County, WV

AMANDA CHEUVRONT, AIA, NCARB

Project Architect



Education

Master of Science,
Architecture
University of North Carolina at
Charlotte

Bachelor of Science, Architectural Engineering Fairmont State University

Registrations

Professional Architect:

> West Virginia

Affiliations

- > NCARB Certificate
- Member American Institute of Architects (AIA) - WV Chapter

Amanda Cheuvront, AIA, NCARB is a highly talented project architect with a portfolio ranging from small interior renovations to large campus planning endeavors. Over the past decade, Amanda has been involved with numerous commercial building projects and has also specialized in healthcare and educational facility design.

Her experience has included all facets of project development, including client relations, design proposals, presentations, programming, project coordination, marketing, feasibility studies, and construction administration. Her versatility and knowledge working throughout the Mid-Atlantic region make her a great manager and a powerful addition to any team.

Experience Cabell County Career Technology Center and Spring Hill Elementary Renovations

Role: Project Manager/ Architect

> Cabell County, WV

Wayne High School Additions and Renovations

Role: Project Architect

> Wayne County, WV

Barboursville Middle School Additions and Renovations

Role: Project Architect
> Cabell County, WV

Midland Trail High School Additions and Renovations

Role: Project Architect

> Fayette County, WV

Oak Hill High School Additions and Renovations

Role: Project Manager/ Architect

> Fayette County, WV

St. Marys Elementary and Belmont Elementary Schools

Role: Project Manager/ Architect

> Pleasants County, WV

Ritchie County Middle/High School Renovations

Role: Project Manager/ Architect

> Ritchie County, WV

Southside Elementary School Additions and Renovations

Role: Project Manager/ Architect

> Wayne County, WV

JIM DECKER, MBA

Construction Estimator



Education

Master of Business

Administration,

Project Management Emphasis

Fairmont State University

Bachelor of Science, Civil Engineering Fairmont State University

Associates Degree, Mechanical Engineering Fairmont State University

Registrations
General Contractor
West Virginia

Jim Decker, MBA brings over 25 years of experience in construction estimating and management for the private and public sectors. He provides services with inspections, site monitoring, cost control, schedules, contract administration, payment processing, shop and coordination drawings, change orders and project reports.

His role as a construction estimator allows for clients to be able to recognize a true price when it comes to their projects. Jim is also a Licensed General Contractor in the State of West Virginia. As a General Contractor he is able to oversee the day-to-day functions of the construction site.

Previously, Jim was the facilities director at a local educational institution for 10 years. Jim relates well with his clients because he approaches the situation from both a consultant and client perspective.

Experience Fairmont State University Engineering Building Addition and Renovations

Role: Construction Estimator

Marion County, WV

South Harrison High School Field House Project

Role: Construction Estimator

> Harrison County, WV

Cheat Lake Elementary School New Construction

Role: Construction Estimator > Monongalia County, WV

Bridgeport Middle School New Construction

Role: Construction Estimator > Harrison County, WV

Fairmont State University

Feaster Center Addition and Renovations

Role: Construction Estimator

> Marion County, WV

Fairmont State University Library Addition and Renovations

Role: Construction Estimator > Marion County, WV

MVA Shinnston Clinic Renovations

Role: Construction Estimator
> Harrison County, WV

Clarksburg Aquatic Center Existing Pool Demolition and Addition of New Water Park

Role: Construction Estimator

> Harrison County, WV

Romney Public Works Building New Facility

Role: Construction Estimator

Hampshire County, WV

BILL RATCLIFFE, REFP

Construction Administrator



EducationRegents Degree,
West Virginia State University

Registrations
Recognized Educational
Facility Planner (REFP)

Bill Ratcliffe, REFP has over two decades of experience involved in the completion of successful construction projects. He has spent the last 10 years of his career working as a construction administrator on public and private projects, ensuring the successful completion of projects. Bill also spent nearly 14 years of his career working for the West Virginia School Building Authority (SBA) where he worked in educational facilities planning.

Bill's strong relationships with countless regulatory and building entities combined with his hands-on experience make him an excellent project manager and an invaluable member of the Thrasher team.

Experience Jefferson County Convention and Visitor's Bureau Additions and Renovations Role: Construction Administrator

> Jefferson County, WV

Doddridge County Elementary Safe School Entrance Addition

Role: Construction Administrator

> Doddridge County, WV

Calhoun Gilmer Career and Technical Center Improvements Project

Role: Construction
Administrator

> Calhoun County, WV

WV Public Service Commission Façade Replacement

Role: Construction Administrator

> Kanawha County, WV

New Rupert Elementary and Renovations and Additions to Western Greenbrier Middle School

Role: Construction Administrator

> Greenbrier County, WV

Crichton Elementary School Additions, Renovations, and Safe School Entrance Project

Role: Construction Administrator

> Greenbrier County, WV

Moorefield High School Addition and Renovations

Role: Construction Administrator

> Hardy County, WV

Widmyer Elementary School Renovations

Role: Construction Administrator

> Morgan County, WV

Mid-Ohio Valley Technical Institute Improvements

Role: Construction Administrator

> Pleasants County, WV

ROBERT MILNE, PE

Site Engineer



Education

Master of Science,

Civil Engineering

West Virginia University

Bachelor of Science, Civil Engineering West Virginia University

Registrations

Professional Engineer:

- > West Virginia
- > Pennsylvania
- > Virginia
- > Ohio

Affiliations

- Leadership Monongalia County, WV
- Foundations of Leadership/ National Leadership Institute

Robert Milne, PE has over 25 years of experience working with both public and private clientele throughout the Mid-Atlantic region to develop millions of dollars' worth of commercial, industrial, residential, and mixed-use sites. Rob's in-depth understanding of site layout, design, permitting, and funding have enabled him to complete several complex projects that have boosted economic development and delivered safe, sustainable building sites. A recent example of this work can be seen along Interstate 79 in Morgantown, West Virginia. Rob managed a large portion of the site design for the West Ridge development, an 800-acre mixed use site, which will house over 350,000 square feet of retail space. Rob is able to deliver these success stories because he remains involved with every facet of the projects he manages-overseeing design standards, staff assignments, project schedules, and client communication.

Experience Boy Scouts of America Welcome Center Site Planning and Master Conceptual Design

Role: Project Manager > Fayette County, WV

Fayette County 911 Center

Role: Project Manager > Fayette County, WV

Morgantown Event Center and Garage

Role: Project Manager

> Monongalia County, WV

Seneca Village Pison Site Development

Role: Project Manager

> Monongalia County, WV

City of Beckley New Police Station

Role: Task Leader Site/Civil > Raleigh County, WV

West Virginia University Architectural and Engineering Open-End

Role: Project Manager
> Monongalia County, WV

Rockwool Manufacturing Facility

Role: Project Manager
> Jefferson County, WV

America's Best Block Industrial Park

Role: Project Manager > Mineral County, WV

West Virginia University Milan Puskar Stadium Renovations

Role: Project Manager

> Monongalia County, WV

Marion County Economic Development Authority Palatine Park Development

Role: Principal

> Marion County, WV

JACOB DARRAH, GISP

Exterior Envelope Scan Specialist



Education

Bachelor of Science,
Environmental Protection
West Virginia University

Affiliations

 Certified Geographic Information Systems (GIS) Professional Jacob Darrah has over a decade of experience as a GIS professional, and has spent the last seven years of his career working primarily with clientele in the oil and natural gas industry. During this time, Jacob has been involved with the development of hundreds of miles of pipeline as-builts spanning the entire Mid-Atlantic region. His keen understanding of the as-built process and ability to quickly complete projects has earned him numerous repeat clients.

As part of Jacob's role as the Senior GIS Manager, he is involved with every facet of his clients' projects including data management, geodatabase creation, crew management and developing new job-site processes.

Experience
Tyler County Courthouse
Laser Scanning As-built
Role: Project Manager
> Tyler County, WV

Morgantown Ruby Hazel Amphitheater- Laser Scanning As-built Role: Project Manager

> Mononagalia County, WV

City of Sistersville
Municipality GIS Website
Role: Project Manager
> Tyler County, WV

Various Confidential Clients Laser Scanning Role: Project Manager

> West Virginia

BRITTANY PARKS, MSC

Asbestos Specialist



Education

Master of Science,

Agronomy

West Virginia University

Bachelor of Science, Environmental Protection and Horticulture West Virginia University

Registrations

Licensed Asbestos Building Inspector

- > West Virginia
- > Ohio

Licensed Asbestos Management Planner

- > West Virginia
- > Ohio

Affiliations

- Soil Science Society of America
- Crop Science Society of America
- Agronomy Society of America

Brittany Parks, MSc brings over three years of professional environmental experience to her role as an Environmental Scientist with Thrasher. Previously, Brittany worked for a Washington, D.C. based firm on a large settlement project in north-central West Virginia.

Her experience includes evaluating permits and compliance issues, performing soil and air sampling, and QA/QC efforts for various topsoil and interior remediation projects. Since coming to Thrasher, Ms. Parks has been heavily involved with remediation projects and is actively working toward obtaining her L.R.S. certification. Brittany has also worked diligently on various Phase I Reports, anti-degradation reports, and several SWPPPs.

Experience Phase I Reports

Role: Environmental Scientist

> West Virginia

Anti-Degradation Report for Maryland Department of the Environment

Role: Environmental Scientist

> Maryland

VRP Projects

Role: Environmental Scientist

> West Virginia

Remediation Projects

Role: Environmental Scientist

> Harrison County, WV

Permitting

Role: Environmental Scientist

> Various Counties, WV

Upshur County Innovation and Knowledge Center

Role: Environmental Scientist

> Upshur County, WV

CRAIG MILLER, PE, LEED AP

President/ Principal Engineer of Miller Engineering



Education

Bachelor of Science, Civil Engineering West Virginia University

Bachelor of Arts, Mass Communication University of Charleston

Registrations

Professional Engineer:

- > West Virginia
- > Virginia
- > Pennsylvania
- > Ohio
- > Maryland

Affiliations

- > Licensed Master Plumber
- > LEED-AP Certified

Craig founded Miller Engineering in 2003, and serves as President and Principal Engineer. He has more than 20 years of experience in design, specification, operations and project management. During his employment with WVU, Craig was directly involved with approximately \$130 million in new capital construction. His experience with a wide range of projects including HVAC, electrical, plumbing, infrastructure upgrades, building automation, energy efficiency and maintenance/renovation, among others, allows him to serve in multiple capacities within a given project. Craig will serve as the "Relationship Manager" for Miller Engineering as the main communication interface between the Owner, the design team, contractors and end users.

Experience Bobtown Elementary HVAC

Role: MEP Engineer

> Greene County, PA

Blackwater Falls State Park Lodge (Dining Room, 2nd Fl, Spa, Boiler)

Role: MEP Engineer

> Tucker County, WV

Mapletown High School HVAC Replacement Phase I & II

Role: MEP Engineer > Greene County, PA

McKeever Lodge HVAC Piping

Role: MEP Engineer

> Summers County, WV

Holly River State Park Primary Electric Service Replacements Phase I & II

Role: MEP Engineer
> Webster County, WV

Beech Fork State Park - MEP New Construction Design

Role: MEP Engineer

> Cabell County, WV

Cheat Lake Elementary & Middle School Renovations

Role: MEP Engineer

> Monongalia County, WV

Cacapon Old Inn

Role: MEP Engineer

> Morgan County, WV

CAROL A. STEVENS, PE, F.ASCE

Structural Engineer



Education

Bachekor of Science, Engineering West Virginia University

Masters of Science, Engering Science Pennsylvania State University

Registrations

Professional Engineer:

- > Pennsylvania
- > West Virginia
- > Maryland
- > Ohio
- > Kentucky
- > Virginia

Affiliations

- American Society of Civil Engineers, WV Section
- National Society of Professional Engineers
- > American Concrete Institute
- > American Institute of Steel Construction
- West Virginia University
 Department of Civil and
- Environmental Engineering Visiting Committee
- West Virginia Tech
 Department of Civil
 Engineering Advisory
 Committee

Carol Stevens has over 20 years of experience in the building structures field, working both in West Virginia and in the York, Pennsylvania vicinity. Carol is also certified by the Structural Engineering Certification Board for experience in the field of structural engineering.

Experience West Virginia, CAMC Boiler Room

Structural design of roof framing, walls and foundations for new boiler enclosure

West Virginia, CAMC Cancer Center: Structural design of connections for architecture/ structure interfaces

West Virginia, Sharpe Hospital: Structural design of framing and foundations for HVAC renovations at existing facility

West Virginia, Manchin Hospital: Structural evaluation of existing concrete ramp structure

West Virginia, Bateman Hospital: Structural evaluation of existing masonry façade with recommendations for repairs

West Virginia, East Ridge Health Systems: Structural investigation of existing masonry façade to determine cause of failures in exterior envelope

West Virginia, Teays Medical Office Building: Design of foundations and framing for new 2-story medical building

West Virginia, Thomas Hospital Parking Garage: Design of structural repairs to

1980's precast concrete garage

West Virginia, St. Francis Hospital Parking Garage: Design of structural repairs to 1980's precast concrete garage

West Virginia, Braxton
Health Associates: Designed
foundations and roof framing
for new one-story medical office
building

West Virginia, St. Mary's Hospital Parking Garage: Structural evaluation of precast concrete parking garage

West Virginia, Thomas
Memorial Hospital: Various
projects related to analysis of
floor structure for installation
of new equipment and
relocation of functions within
existing facility

West Virginia, Cabell
Huntington Hospital: Designed
floor framing for new blood
collection reception area within
new Marshall University Medical
Center

CREDENTIALS AND EXPERTISE

Licensed Architects

Matt Breakey

> Project Architect

Lee Gustafson

> Project Architect

Phillip Freeman

> Project Architect

Josh Lyons

> Project Architect

Joe Sinclair

> Project Architect

Amanda Cheuvront

> Project Architect



Certified Educational Facility Planners

Craig Baker

> Certified Educational Facility Planner

Bill Ratcliffe

Recognized Educational Facility Professional



Certified Building Commissioning Professionals

CJ Smith

 Certified Building Commissioning Professional

Construction Administrators

Bill Ratcliffe

> Construction Estimator

Jeff Roberts

> Construction Estimator

Jim Decker

> Construction Estimator

Staff Experienced with BIM Design & Construction

Craig Baker

> Principal-in-Charge

Kenton Blackwood

> Project Manager

Matt Breakey

> Project Architect

Josh Lyons

> Green Design Specialist

Dan Garvin

> Green Design Specialist

CJ Smith

> Green Design Specialist

Ashley Lyons

> Intern Architect

Stacie Shevchuck

> Interior Designer

Joe Sinclair

> Project Architect

LEED AP Professionals

Kenton Blackwood

> Project Manager

Matt Breakey

> Lead Project Architect

Josh Lyons

> Green Design Specialist

Dan Garvin

> Green Design Specialist

CJ Smith

> Green Design Specialist

Joe Sinclair

> Project Architect



Specialized Architectural Consultants

N. Kent Gandee

 Educational Planning Architect

National Council of Architectural Registration Boards

Matt Breakey

> Project Architect

Amanda Cheuvront

Project Architect

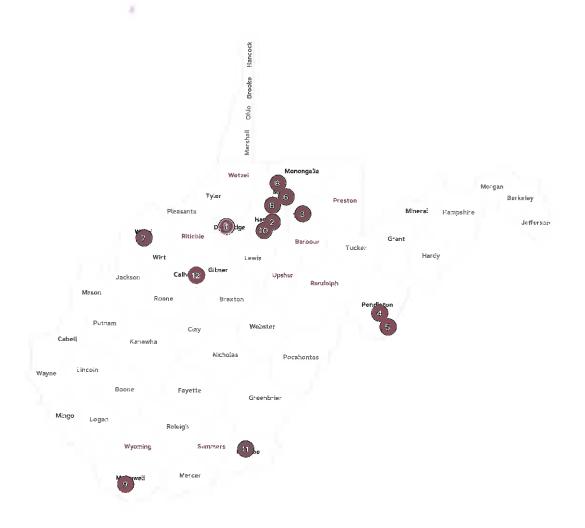
Joe Sinclair

> Project Architect

Lee Gustafson

> Project Architect

BUILDING EVALUATIONS EXPERIENCE



- I. Doddridge County Commission Courthouse
- 2. Harrison County Courthouse
- 3. Taylor County Courthouse
- 4. Pendleton County Courthouse
- Sugar Grove Naval Base
- 6. Hutchinson House
- 7. Stephenson House
- 8. MVA Clinic (Shinnston and Fairmont)
- 9. McDowell County Courthouse
- 10. Clarksburg Water Board Office
- 11. Monroe County Courthouse
- 12. Calhoun Gilmer Career Center Renovations (Phases 1,2 & 3)

Fairmont State University Hunt Haught Hall Renovations

Client Contact:

Mr. Tom Tucker, Facilities Manager 1201 Locust Avenue | Fairmont, WV 26554 304-367-4861

Thrasher was hired to provide all architectural services which included planning, design, and construction administration for the renovation of Hunt Haught Hall at Pierpont Technical College/Fairmont State University. Renovations included replacement and repair of the glass curtain wall in the stair tower and numerous HVAC upgrades. Due to the fact the structure is over 30 years old and has endured abundant wear, the steel structure within the glass curtain wall had deteriorated from years of leaky windows and needed extensive work. The existing glass needed complete replacement to be compliant with energy efficiency guidelines set forth by FSU. The HVAC upgrades included the removal and replacement of existing roof top hot water boilers to comply with the energy standards.

The architectural team at Thrasher had to be mindful of several challenges while working on Hunt Haught Hall. The most important challenge was to avoid disrupting the everyday use of the facility. The team had to be fully aware of ingress and egress, safety concerns, as well as noise disruption during classes. Specific guidelines were developed and included into the bidding documents to allow a clear understanding of the expectations before bidding.

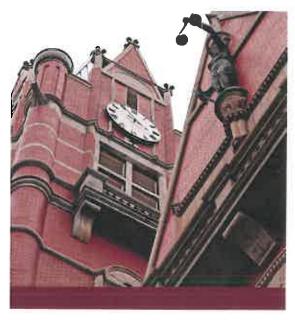




It was very important to FSU to keep the aesthetics of the building intact and not to change its looks too drastically. As seen below, Thrasher was able to make the upgrades without sacrificing the buildings original feel.







Doddridge County Commission Courthouse Renovations and Historic Rehabilitation

Client Contact:

Mr. Gregory Robinson, Commissioner 108 East Court Street, Suite 1 | West Union, WV 26456 304-873-2631

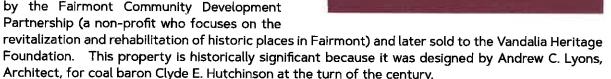
Thrasher was hired by the Doddridge County Commission to perform several exterior renovations and a historical rehabilitation of the existing Doddridge County courthouse in 2017. Thrasher was tasked with evaluating the dilapidated structure and designing a solution that not only worked for the Commission's budget, but also preserved the historic nature of the facility. Thrasher's West Virginia State Historic Preservation Office (WV SHPO) approved architect, Lee Gustafson, worked closely with the Commission to ensure that all their needs were met, and that WV SHPO approved crucial design elements.

This project required the Thrasher team to work within a very tight project site, and to also keep the courthouse open throughout the entire renovation. Close attention was paid to project staging to safeguard the property throughout construction.

With the bigger picture in mind, the Thrasher team also designed these exterior solutions with consideration given to future interior projects. By consciously phasing the job, Thrasher was able to secure additional grant money to help expand the scope of work to include a second phase which will remedy accessibility and life safety issues throughout the facility.

Hutchinson House Client Contact: Ms. Laura Kuhns, Executive Director 830 Walnut Avenue | Fairmont, WV 26554 304-368-1555

The Hutchinson House was purchased in 1998 by the Fairmont Community Development Partnership (a non-profit who focuses on the



Mr. Kenton Blackwood was selected to provide professional services for the restoration of the building's exterior. After complete, the project was awarded an AIA Craftsmanship Award for the quality of the exterior restoration.

Vandalia Heritage Foundation renovated the former home interior into meeting rooms and offices that accommodate everyday use.



Stephenson House

Client Contact: Mr. Senta Goudy, Executive Director 300 Campus Drive | Parkersburg, WV 26104 304-481-9819

In late 2015 Thrasher was selected by WVU-Parkersburg to provide professional services for the recently acquired Stephenson House

in Parkersburg. This valuable property, listed on the National Register of Historic Places as a Contributing Structure since 1980, was in need of MEP upgrades, interior renovation and re-finishing, security system, as well as ADA accessibility upgrades, new sidewalks and stormwater management system.

Thrasher performed an extensive survey and documentation of the existing conditions, produced 3D interior and exterior BIM models of the entire structure, developed detailed scope-of-work bid documents in accordance with the Owner's budget, and bid the project. The project bid came in on target with the construction estimates prepared by Thrasher, and the project was awarded to a contractor that specialized in historic restoration.



Harrison County Courthouse Renovations

Client Contact:
Mr. Bernie Fazzini, Commissioner
301 West Main Street | Clarksburg, WV 26301
304-624-8500

Thrasher worked with the Harrison County Commission at the County Courthouse to upgrade their sprinkler system to meet the state fire code. Thrasher teamed up with Harper Engineering to get floors 2-6 and attic space designed for a new sprinkler system.

Thrasher worked with the County Commission on this project through a Courthouse Facilities Improvement Grant. Our team provided a phasing plan to the County Commission on how much they could afford each calendar year. Phase 1 of the job consisted of as built plans for the 2nd floor and sprinkler design.

The work also included a new standpipe, backflow preventer and all sprinkler lines and heads needed to cover 2nd floor area per design. Demo and patching was also required to bring the new system into the old facility.





Junior Elementary School Addition/Renovations

Client Contact:

Mr. Jeffrey Woofter, Superintendent 45 School Street | Philippi, WV 26416 304-457-3030

In 2011, Thrasher's addition and renovations to Junior Elementary School were completed and funded through the School Building Authority of West Virginia. The addition included insulated aluminum storefront doors and windows, casework and counter tops, plumbing, light fixtures, and EPDM roofing with sloping insulation.

Renovations and improvements to the existing structure included floor finishes, replaced the ballasted roof with fully adhered EPDM roof and rigid insulation along with new metal gravel stops. Fire protection sprinkler system was installed. The existing HVAC RTU's, exhausts and mechanical ductwork was also completely replaced.









Kasson Elementary & Middle School Renovations

Client Contact: Mr. Jeffrey Woofter, Superintendent 45 School Street | Philippi, WV 26416 304-457-3030

Thrasher provided architectural services for the corrective repairs and renovations at Kasson Elementary, including a new Safe School Entrance. The project was funded through the School Building Authority.

The \$2.5 million dollar project included removal and replacement of interior ceilings, doors/frames, walls and floors and associated finishes and accessories as required for pyritic remediation/ stabilization work, as well as electrical and plumbing work, exterior re-caulking of all existing windows, and the creation of weep-holes in the brick veneer. The exterior work included re-grading and paving the parking areas, sidewalk replacement, and a storm-water collection system. Other work included removal of existing ballasted roof and replacement of the EPDM system, and replacement of the existing roof mounted HVAC units

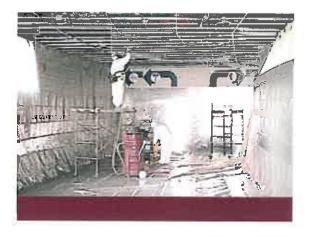
Taylor County Courthouse Renovations

Client Contact: Mr. Rusty Efaw, President 214 West Main Street | Grafton, WV 26354 304-265-1401

The Thrasher Architecture team has completed several upgrades and enhancements to the Taylor County Courthouse over the past two years.

Thrasher has completed a complete electrical upgrade to the existing courthouse that included service, switches, outlets and lighting. Thrasher was successful in helping Taylor County obtain numerous grants to upgrade the facility.

Another project Thrasher recently completed at the Courthouse was asbestos abatement which included the removal of plaster and wire lathe ceiling, floor tile with mastic adhesive, chimney, ceiling tiles, and several hard fittings.





In 2010, the Taylor County Commission hired Thrasher to do a complete facility window replacement on the existing historic courthouse. This project required Thrasher to abide by rigorous historic preservation specifications through the Department of Interiors.

Thrasher replaced all of the windows in the courthouse while maintaining aesthetic continuity with the existing structure. Interior energy panels were added to the new windows to bring them up to code without detracting from the building's historic nature.

Pendleton County Courthouse Renovations

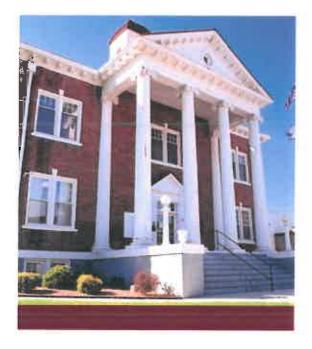
Client Contact:
Pendleton County Commission
100 South Main Street | Franklin, WV 26807
304-358-2505

This project consisted of remodeling and upgrading the existing courthouse facilities to bring it up to current standards. The renovation included a new circuit courtroom, judge's chambers, offices for support staff, prisoner transfer security area, and new Magistrate Court facilities.

Included in the project was a complete renovation of the second floor to comply with fire code, a new elevator and ramps for ADA compliance and new accessible restrooms.

The largest portion of this project were the upgrades that effected the entire facility such as: brand new HVAC system, electrical upgrades throughout, new plumbing fixtures, sprinkler system work, and a building wide alarm system. The Pendleton County Courthouse is on the National Register of Historic Places in West Virginia so extreme care had to be taken with all renovations to preserve historic elements.





Sugar Grove Naval Base Facilities Assessment Report

Client Contact:
KVC Health Systems
Mr. Tommy Bailey,
Executive VP for Strategic Initiatives
300 Kenton Dr | Charleston, West Virginia 25311
304-542-4698

The Thrasher Group was retained by Trident Resource Solutions to provide a facility report on the Navy Information Operations Command, Sugar Grove Facility. Thrasher conducted a full site evaluation in March of 2014.

The property consists of approximately 117.5 acres of relatively flat land, on one side bordered by the South Fork of the South Branch River, and the other side bordered by WV State Route 21. The site assessment included a review of the existing roads, parking lots, pedestrian routes, recreational facilities, and storm water management. The campus consists of approximately 11,300 feet of roadways with two entrances off of West Virginia State Route 21. Currently only one entrance is utilized; however, the second entrance appears to be operational if necessary.

The pedestrian routes include an extensive sidewalk system allowing access to most facilities. The assessment was completed by walking the campus and noting the condition of the facilities. Any area anticipated to need repairs within the next five years was identified along with a cost estimate to complete the improvements.

BUILDING 19 OFFICE / STORAGE BUILDING



A: BUILDING DESCRIPTION Year Constructed, 1990 Square Footner: 960

The structure for this building is a pre-engagement metal building. The frundring is also on grade with thickmed permeter. Excesser finith is metal building wall panel. Invesior perhitors are study with gained drywall. Floor coverings consist of vinyl tile and couper. The proof is standing eases metals.

This facility is ADA screedble.

There are no restructes within the facility.

There were no hazardous concerns observed during the site visit.

Prombing The building has no phys.bing.

BUMA:
The BUAC System is a malitule window at conditioning units with last pump and baseboan bydrautic heeties served from building 20.
Electrical

The electrical entrance is 2p 2000 3400 with a separate moter. The lights me of finocescent finance. There is no five alcant system. Existing data wiring constit of Cat 5 cellus. Satisfyling for rease of data wiring is misteemized without knowledge of the system to be villaged by the finites occupient.

B: FIVE YEAR COST IMPACT
If future use it similar to that as present, finishes will require an approach

	<u>·</u>
1. Demo & Build-out	\$45,000.00
Total Cost Empact:	\$45,000.00

C: EDUCATIONAL FACILITY COST EMPACT
Educational facility cost import will be established as programmetic needs are confirmed during
curriculum development.

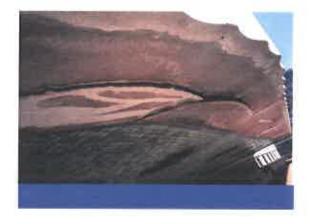
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Division of Motor Vehicles Building 3, Capitol Complex

The limestone at the canopy was deteriorated to the point that pieces were loose and ready to fall. The project included an investigation to determine the support conditions for the stone.



During the investigation, it was determined that the support structure was not as shown on the original construction documents.



The repair of this element was completed in 2002.





Building 20 Elevator Replacement

The existing elevator was suspended from the roof and a wooden walkway had been constructed through the shaft to a door giving access to the lower roof level. When the new elevator was installed the walkway was removed.



New door and stairs were installed for access to the lower roof level.



Exterior masonry of the elevator shaft was repaired where it was cracked and deteriorated.

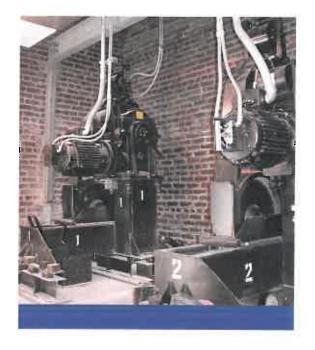






Building 22 Elevator Machine Room Addition

The existing elevator machine room was not large enough to meet current code requirements when the elevator equipment was upgraded. As a result, the machine room had to be ex-tended to accommodate new equipment and clearances.



Access to the machine room was also improved during this project. The man-door was relocated, the exterior bearing wall was removed and structure added for support for the expansion.







Burnsville I-79 Rest Areas

The rest areas consist of three buildings, the rest area building, the vending building and the maintenance build-ing. Each of the buildings was constructed with a local West Virginia stone façade.



The existing rest area build-ings were demolished and replaced with these new state-of-the-art facilities.



The main lobby framing consists of a tube steel beam, glulam beams and timber decking.







The project included limited investiga-tion of the masonry façade and review of the existing drawings to determine cause for masonry failures and efflores-cence. Recommendations for additional investigation were made to determine if structural steel supporting the masonry was compromised.



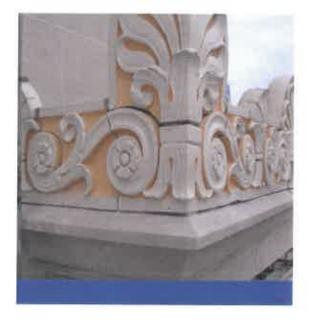






Exterior Façade Restoration Main Capitol Building

Exterior façade restoration included cleaning, pointing, and repairs to the limestone and terra cotta components, windows and doors.



Portions of the limestone cornice were damaged to the point that they fell when work was being conducted and had to be pinned back in place.



Other repairs included various spall repairs, pin-ning and epoxy injection of larger cracks and lift-ing and pinning key-stones over windows.









Structural Investigation Pipestem State Park Recreation Building

The pool deck is supported by this structure, thus the severe deterioration due to leaking joints in the deck. Once the decking is repaired, a new coating system must be installed to prevent chemically treated water from deteriorating the structural members.

A steel pipe column was added below the bearing end of this beam due to the severe deterioration at the end of the beam.

Project includes investigation into causes of struc-tural cracking in existing recreation building and preparing a construction cost estimate for repairs.

REFERENCES



Doddridge County Schools Mr. Adam Cheeseman, Superintendent 1117 WV Route 18 N West Union, WV 26456 304-873-2300

Harrison County Commission

Mr. Bernie Fazzini, Commissioner 301 West Main Street Clarksburg, WV 26301 304-624-8500

Barbour County SchoolsMr. Jeffrey Woofter, Superintendent 45 School Street Philippi, WV 26416 304-457-3030

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.

Architecture Division Manager

(Name, Title)

Craig Baker, Architecture Division Manager

(Printed Name and Title)

600 White Oaks Blvd. Bridgeport, WV 26330

(Address)

304-624-4108 / 304-624-7831

(Phone Number) / (Fax Number)

cbaker@thethrashergroup.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.

The Thrasher Group, Inc.
(Company) Craig Baker, Architecture Division Manage
(Authorized Signature) (Representative Name, Title)
Craig Baker, Architecture Division Manager
(Printed Name and Title of Authorized Representative)
September 5, 2018
(Date)
304-624-4108 / 304-624-7831
Phone Number) (Fax Number)

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 § 23-20-2, 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 fiability 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 affect 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 exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (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.

Purchasing Affidavit (Revised 01/19/2018)

NOTARY PUBLIC STATE OF WEST VIRGINIA

LORIA. PROVIDENTI
The Thrasher Group, Inc.
300 Association Drive Charleston, WV 25311
My Commission Expires September 17, 2018

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.:

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)	ved)
☐ 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 receip I further understand that any verbal representa discussion held between Vendor's representat	t of addenda may be cause for rejection of this bid. Ition made or assumed to be made during any oral ives and any state personnel is not hinding. Only
the information issued in writing and added to binding.	the specifications by an official addendum is
the information issued in writing and added to	the specifications by an official addendum is
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the information issued in writing and added to binding. The Thrasher Group, Inc. Company	the specifications by an official addendum is

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