



COMPLEX PROJECTS
REQUIRE RESOLVE
THRASHER'S GOT IT

RECEIVED
03/22/21 11:18:25
PURCHASING DIVISION

March 25, 2021

Attn: Ms. Crystal Husted, Buyer
2019 Washington Street East
Charleston, WV 25305

RE: WV Department of Health and Human Resources CEOI BHS210000003

Dear Ms. Husted and Selection Committee Members:

The Barboursville School provides a round-the-clock space for West Virginia teens to receive the education and care they need. As a building being constantly occupied, it's important to have updated, functional facilities at all times. To make that happen, the School needs a new wastewater treatment plant installed to replace the existing treatment plant and needs a consultant who understands wastewater treatment and construction of those facilities. The Thrasher Group is the right consultant for the job.

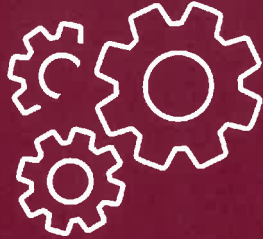
Thrasher has nearly 40 years of experience in public utility infrastructure across the state. While we've worked on some of the biggest plants in West Virginia, we also have the specialized expertise that comes with small package plants. These smaller treatment plants have their own unique needs that differ greatly from larger municipal treatment plants. Thrasher's dedicated utility engineers have provided treatment plant designs for several schools and other small commercial and residential developments over the years, giving us the in-depth knowledge to make your project a success.

In addition to our engineering expertise, our team has an in-house wastewater treatment plant operator on staff, Fred Roman. Fred is a Licensed Class IV operator, the highest level in West Virginia. His hands-on experience gives our team the ability to incorporate treatment plant operation and maintenance into the design of the facility. Fred's knowledge can be an asset to the Barboursville School operating team as well, providing troubleshooting and guidance as needed when getting the treatment plant up and running.

We appreciate the opportunity to share our qualifications with you and look forward to further discussing how The Thrasher Group can make this project a successful for the Barboursville School.

Sincerely,
The Thrasher Group, Inc.

Jonathan Carpenter, PE
Principal



- > Utility Engineering
- > Architecture
- > Site Engineering
- > Environmental
- > Survey
- > Transportation
- > Construction Services
- > Geospatial

Main Point of Contact:

Corey Smith, PE
Project Manager
CASmith@thethrashergroup.com
Cell: 304-641-2804
Office: 304-343-7601



37

YEARS

of delivering
successful
projects



8

OFFICES

in five states:

West Virginia
Virginia
Pennsylvania
Ohio
Maryland



300+

EMPLOYEES

39

Licensed
Professional Engineers

11

Licensed
Professional Surveyors

8

Licensed
Professional Architects

3

Licensed
Professional
Landscape Architects

Diverse services that grow communities.

THRASHER'S GOT IT.

DISCLOSURE OF INTERESTED PARTIES

West Virginia Ethics Commission Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 8D-1-2)

Name of Contracting Business Entity: The Thrasher Group, Inc. Address: 600 White Oaks Blvd.
Bridgeport, WV 26330

Name of Authorized Agent: Jonathan Carpenter Address: 300 Association Drive | Charleston, WV 25311

Contract Number: CEOI BHS2100000003 Contract Description: Barboursville School WWTP Replacement

Governmental agency awarding contract: Department of Health and Human 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.

H. Wood Thrasher

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:  Date Signed: 03/19/21

Notary Verification

State of WV County of HARRISON:

I, JONATHAN CARPENTER, 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 19th day of MARCH 2021

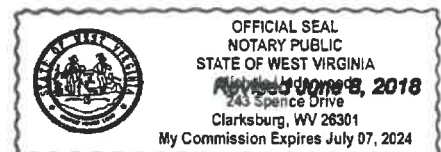

Notary Public's Signature

To be completed by State Agency:

Date Received by State Agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____



PURCHASING AFFIDAVIT



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 §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.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: The Thrasher Group, Inc.

Authorized Signature: [Signature] Date: 03/19/2021

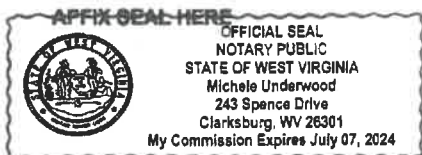
State of WV

County of HARRISON, to-wit:

Taken, subscribed, and sworn to before me this 19th day of MARCH, 2021.

My Commission expires JULY 7, 2024.

NOTARY PUBLIC [Signature]
Purchasing Affidavit (Revised 01/19/2016)



ADDENDUM ACKNOWLEDGMENT



ADDENDUM ACKNOWLEDGEMENT FORM **SOLICITATION NO.: CEOI BHS2100000003**

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)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> 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 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.

The Thrasher Group, Inc.

Company

Authorized Signature

03/19/2021

Date

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

PROJECT UNDERSTANDING AND APPROACH

A critical step in meeting your goals is first ensuring we understand them. Thrasher's team has thoroughly reviewed the Expression of Interest request and is confident in our ability to deliver the highest-quality solutions to your problems. We are capable of meeting each goal/objective you have outlined and feel strongly that you will be satisfied with the outcome.

We understand your goals for the Barboursville School Wastewater Treatment Plant Replacement project and will handle them in the following manner:

GOAL/OBJECTIVE 2.1

The Thrasher Group acknowledges that the Barboursville School needs complete design plans for the installation of a new wastewater treatment facility. Thrasher has in-house expertise in designing wastewater plants of all sizes, including smaller package plants for schools and commercial developments. Our firm is built on public utility design and understands how to handle all components required for the design of your new wastewater treatment facility.

GOAL/OBJECTIVE 2.2

Next, we understand that the work you're seeking must be inclusive of the structural foundations required for securing equipment. The Thrasher team has a structural engineer capable of designing any necessary foundations required for the new treatment plant.

GOAL/OBJECTIVE 2.3

The Barboursville School has a current wastewater treatment plant that is no longer meeting the needs of the facility. As part of this project, Thrasher understands our design should include the shutdown and removal of this existing plant. Our team has handled the decommissioning of plants both large and small and can design this project to provide a seamless transition between the operation of the existing treatment plant and the new facility so service is not interrupted.

GOAL/OBJECTIVE 2.4

Wastewater treatment plants can require a variety of permits, fees, and licenses - Thrasher will handle this process for the Barboursville School project. Our Project Manager and engineers all have experience with this element of wastewater projects and have the knowledge to navigate the process to ensure your treatment plant can operate efficiently and make sure you comply with your NPDES permit.



PROJECT UNDERSTANDING AND APPROACH



Thrasher's goal is always to complete projects on-time and within budget for our clients, and we have a long history of achieving that goal. Throughout this Expression of Interest, you will see projects that illustrate these qualities and represent successful outcomes. While achieving this isn't always an easy task, our tried-and-true project approach is what consistently gets us to that end result.

Thrasher will conduct a design kick-off meeting with the Barboursville School and key members of our project team to review the project and clearly define the Scope of Services. Following contract approval, Thrasher will take the following steps to ensure completion:

Step 1 | Site Visit

Your assembled team of engineers and technicians will conduct a site visit. This group will evaluate the project conditions and identify and document potential problem areas. We will coordinate with your team and any identified key stakeholders to take all the facts into consideration during this process.

Step 2 | Conceptual Design and Report

Thrasher will prepare a conceptual layout for the new treatment plant at Barboursville School. Where applicable, we will also provide design alternatives for consideration by the School. We will then prepare a written report of the conceptual designs and outline any issues.

Step 3 | Construction Documents

Our team will provide design solutions and construction documents to the appropriate personnel for the project. These plans will be carried forward to final design based upon the conceptual design report. Thrasher proposes to prepare two submissions - preliminary design and final design. The preliminary design submission will be used to review the proposed project with the Barboursville School. After

review and comment, we will complete the final design documents based upon comments received and conclusions reached at the preliminary design review. Our field evaluations and design approach will specifically address these issues in the construction documents.

Step 4 | Cost Estimates

Our project team will provide itemized cost estimates at the conceptual design and final design stages.

Step 5 | Bid Process

We will assist the Barboursville School in preparation of bid documents, will attend a pre-bid meeting, and assist in issuance of addenda.

Step 6 | Construction Administration

The project team will review project submittals, attend project meetings, and provide inspection of the construction being completed. Thrasher will also provide final punch list inspection at project completion.

Additionally, we will develop a program to keep the Barboursville School staff abreast of potential construction issues. We plan to address any issues that may arise through clear and concise construction notes, details, and specifications to ensure the safety of the workers and environment.

Step 7 | Project Close Out

Upon completion of the project, the Thrasher team will provide final as-built drawings in both CAD and PDF format to the Barboursville School and any appropriate personnel as needed.

KEY PERSONNEL



Jonathan Carpenter, PE
Principal

Corey Smith, PE
Project Manager

Fred Roman
Licensed Operator

Jesse Alden, PE
Project Engineer

Butch Brown
I&I Specialist

Craig Klein, PE, CPESC
Structural Engineer

Amanda Cheuvront, AIA,
NCARB
K-12 Design Specialist

Survey Services

Construction Services

Environmental Services

JONATHAN CARPENTER, PE

Principal



Education

Bachelor of Science,
Civil Engineering
University of Tennessee

Registrations

Professional Engineer:

- > West Virginia
- > Maryland
- > Virginia
- > Ohio
- > Kentucky
- > Tennessee

Affiliations

- > ACEC Water Resources Gold Award
- > ACEC Water Resources Silver Award
- > ACEC Waste and Storm Water Gold Award
- > AWWA Fuller Award Recipient
- > AWWA West Virginia – Past National Director and Chairman

Jonathan Carpenter, PE serves as managing partner of the firm's Charleston and Beckley, WV locations and leader of the Water Resources Market. In this role, he oversees numerous public utility projects of varying size and complexity. Jonathan has been with Thrasher for over twenty years, and brings an unsurpassed expertise to the company, particularly as it relates to the design of water and wastewater treatment facilities in rural areas.

Jonathan has spent the vast majority of his career working with small WV municipalities to help them identify issues within their water and sanitary sewer systems, and to develop innovative solutions that are both sustainable and economical. His diligent work throughout the state has garnered national recognition from the American Water Works Association (AWWA), where he was honored as a 2013 George W. Fuller Award recipient for his distinguished service to the water supply field and sound engineering skills.

Experience

City of Winfield Wastewater Treatment Plant Upgrade

Role: Principal

- > Putnam County, WV

Timberline Four Seasons Resort Wastewater Treatment Plant Upgrade

Role: Project Manager

- > Tucker County, WV

City of Milton Sanitary Sewer System Improvements

Role: Principal

- > Cabell County, WV

Pea Ridge Public Service District Route 2 Wastewater Treatment Plant

Role: Project Manager

- > Cabell County, WV

Dominion Natrium Package Treatment Plant

Role: Principal

- > Monongalia County, WV

Pea Ridge Public Service District Holiday Park Wastewater Treatment Plant Replacement

Role: Project Manager

- > Cabell County, WV

Mingo County Public Service District Shadee Woods Wastewater Treatment Plant Replacement

Role: Project Manager

- > Mingo County, WV

Huntington Sanitary Board On-Call Services

Role: Principal

- > Cabell County, WV

Mingo County Public Service District East Kermit Wastewater Treatment Plant Replacement

Role: Project Manager

- > Mingo County, WV

JONATHAN CARPENTER, PE

Principal

Licensure Verification

Search: Details

Name:	JONATHAN C. CARPENTER
WV Professional Engineer:	PE License Number: 015425 PE License Status: Active PE Issue Date: 12/18/2002 PE Expiration Date: 12/31/2022
Continuing Education Claim:	Qualifying Hours from Last Renewal or Reinstatement: 33.50 Carryover Hours for Next Renewal: 3.50 Last Renewal or Reinstatement Date*: 12/9/2020
WV Engineer Intern:	EI Certification Number: EI Issue Date:
Primary Address of Record:	2045 PARKWOOD ROAD CHARLESTON, WV 25314
Primary Employer of Record:	THE THRASHER GROUP, INC. 300 ASSOCIATION DRIVE CHARLESTON, WV 25311

* This date reflects the most recent license renewal (or reinstatement) date for this licensee. Continuing education hours earned prior to this date may not be used for future renewals.

COREY SMITH, PE

Project Manager



Education

Bachelor of Science,
Civil Engineering
West Virginia University

Registrations

Professional Engineer:
> West Virginia

Certifications

- > SafeLand Training
- > MSHA Training - Class 32
Safety Personnel Card
Holder
- > GO Training (Chevron Safety
Program)

Corey Smith, PE is a Project Manager and Project Engineer for The Thrasher Group's Water Resources Market. He has experience in a host of areas, including construction monitoring and management, materials testing, and pipeline inspection. His areas of expertise, however, lie in wastewater, water, and stormwater systems.

One of Corey's several areas of expertise is sanitary sewer rehabilitations. He has worked on both the design and construction sides of these projects over the last several years. Corey's work on sanitary sewer rehabilitations ranges from inflow and infiltration investigation and system assessment to design and construction of rehabilitation projects. Recent work of this type has included wastewater treatment plant improvements, gravity sanitary sewer line rehabilitation, package wastewater treatment plant replacement, and pump station rehabilitation.

Having worked both in the office and the field, Corey has a clear understanding of all project aspects, from inception to completion. This knowledge and experience make Corey an excellent project manager, taking each piece of a project into consideration.

Experience

Pea Ridge Public Service District Route 2 Phase II Sewer Project

Role: Project Engineer
> Cabell County, WV

Pea Ridge Public Service District Holiday Park Wastewater Treatment Plant Replacement

Role: Project Engineer
> Cabell County, WV

Milton Municipal Utilities Commission Sewer Rehabilitation and Extension, Lift Station, and Gravity Lines

Role: Project Manager
> Cabell County, WV

Twin Hollow Sanitary Sewer Improvements

Role: Project Engineer
> Cabell County, WV

South Charleston Sanitary Board Alum Creek Package Plant

Role: Project Manager
> Kanawha County, WV

City of Winfield Sewer System Improvements

Role: Project Manager
> Putnam County, WV

Mason County Public Service District Apple Grove Sewer Improvements

Role: Project Manager
> Mason County, WV

South Charleston Sanitary Board Riverside Avenue Inflow and Infiltration

Role: Project Manager
> Kanawha County, WV

COREY SMITH, PE

Project Manager

Licensure Verification

Search: Details

Name: COREY ALLEN SMITH

WV Professional Engineer: PE License Number: 023361

PE License Status: Active

PE Issue Date: 01/02/2019

PE Expiration Date: 12/31/2022

Continuing Education Claim: Qualifying Hours from Last Renewal or Reinstatement: 7.00

Carryover Hours for Next Renewal: 7.00

Last Renewal or Reinstatement Date*: 12/2/2020

WV Engineer Intern: EI Certification Number: 9922

EI Issue Date: 06/16/2014

Primary Address of Record: 1450 BILLS CREEK ROAD
WINFIELD, WV 25213

Primary Employer of Record: THE THRASHER GROUP, INC.
300 ASSOCIATION DRIVE
CHARLESTON, WV 25311

- * This date reflects the most recent license renewal (or reinstatement) date for this licensee. Continuing education hours earned prior to this date may not be used for future renewals.

JESSE ALDEN, PE

Project Engineer



Education

Master of Science,
Environmental Engineering
Marshall University

Bachelor of Science,
Civil Engineering Technology
Fairmont State University

Associate Degree,
Pharmaceutical Science
National Institute of Technology

Registrations

Professional Engineer:

- > West Virginia
- > Virginia
- > Ohio

Certifications

- > OSHA General Industry Certification
- > HAZWOPER Certification
- > T & L Contractor Safety Orientation Certification—2011
- > First Aid / CPR Certification

Jesse Alden, PE has become one of Thrasher's leading Project Engineers and Managers for several critical utility projects throughout the Mid-Atlantic region. Jesse designs and oversees both water and wastewater system upgrades for public and private clientele. His detailed understanding of pump system design and plant flow hydraulics allows him to design and troubleshoot complex hydraulic issues at various types of treatment facilities.

Aside from his expertise in hydraulics, Jesse prepares design plans, contract specifications, and complex permitting applications for his clients. He oversees the design and administration of contracts, and works closely with both project Owners and contractors to ensure projects are progressing on budget and within scheduling parameters

Jesse has been involved in some of Thrasher's largest utility expansions to date. He worked with several of the firm's most tenured engineers to help design numerous infrastructure improvements for the Malden Public Service District's massive renovation and upgrade endeavors in Kanawha County, WV. For years, the PSD worked to quickly patch up problems throughout their system, before deciding in 2016 to do a complete system overhaul. Jesse was a key member of the design team and helped make this \$23 million-dollar project a grand success.

Experience

McDowell County Board of Education Anawalt Wastewater Treatment Plant

Role: Project Manager
> McDowell County, WV

Calhoun-Gilmer Career Center Package Plant

Role: Project Engineer
> Calhoun County, WV

Anderson Equipment Wastewater Treatment Plant

Role: Project Engineer
> Kanawha County, WV

Town of Masontown Sewer Plant Upgrade

Role: Project Engineer
> Preston County, WV

Pea Ridge Public Service District Wastewater Treatment Plant Evaluation

Role: Project Manager
> Cabell County, WV

Berkeley County Public Service Sewer District Austin Wastewater Treatment Plant Decommissioning

Role: Project Engineer
> Berkeley County, WV

City of Bridgeport Wastewater Treatment Plant Improvements

Role: Project Engineer
> Harrison County, WV

JESSE ALDEN, PE

Project Engineer

Licensure Verification

Search: Details

Name:

JESSE LEE ALDEN

**WV
Professional
Engineer:**

PE License Number: 022695

PE License Status: Active

PE Issue Date: 12/20/2017

PE Expiration Date: 12/31/2022

**Continuing
Education
Claim:**

Qualifying Hours from Last Renewal or Reinstatement: 45.00

Carryover Hours for Next Renewal: 15.00

Last Renewal or Reinstatement Date*: 11/30/2020

**WV Engineer
Intern:**

EI Certification Number: 9777

EI Issue Date: 06/17/2013

**Primary
Address of
Record:**

300 ASSOCIATION DRIVE
CHARLESTON, WV 25311

**Primary
Employer of
Record:**

THE THRASHER GROUP, INC.
300 ASSOCIATION DRIVE
CHARLESTON, WV 25311

- * This date reflects the most recent license renewal (or reinstatement) date for this licensee. Continuing education hours earned prior to this date may not be used for future renewals.

FRED ROMAN

Licensed Class IV Wastewater Operator



Education

Bachelor of Science,
Wildlife Management
West Virginia University

Certifications

- > Licensed Class IV
Wastewater Operator
- > West Virginia Department
of Environmental Protection
Certified Lab Technician

Following a 15-year career serving as the superintendent for a large municipal system in North Central West Virginia, Fred Roman joined the team at Thrasher as a Project Representative. Fred brings a high level of hands-on experience in the technical operations of city utilities including water, stormwater, and wastewater service. While Fred is well-versed in all of these areas, he has a specific interest in wastewater systems.

Fred is a licensed Class IV wastewater operator, which means he is able to thoroughly walk his clients through the operation of their unique plant step-by-step. He uses his knowledge and practical expertise to aid in not only the construction process, but the start-up of new facilities. Fred's dedication to his clientele goes beyond simply starting their plants; he is there to troubleshoot problems and help municipalities solve their operational issues.

Experience

Ritchie County Board of Education Smithville Elementary School Wastewater Treatment Plant

Role: Wastewater Operator
> Ritchie County, WV

City of Ripley Wastewater Treatment Plant Improvements

Role: Project Representative
> Jackson County, WV

Town of Capon Bridge Wastewater Treatment Plant Upgrades

Role: Construction Manager and
Operator Assistance
> Hampshire County, WV

Town of Accident Wastewater Treatment Plant Upgrade

Role: Construction Manager
> Garrett County, MD

Warms Spring Public Service District Wastewater Treatment Plant

Role: Construction Manager
> Morgan County, WV

City of Romney Wastewater Treatment Plant

Role: Project Representative
> Hampshire County, WV

City of McMechen FEMA Damage Evaluations for the Wastewater Treatment Plant

Role: Construction Manager
> Marshall County, WV

Oak Hill Sanitary Board Sewer System Upgrades

Role: Construction Manager
> Fayette County, WV

Jefferson County Public Service District Pump Station Improvements

Role: Project Representative
> Jefferson County, WV

BUTCH BROWN

Inflow and Infiltration Specialist



Certifications

- > Microsoft Networking
- > AutoDesk Civil Design
- > OSHA Permit-Required
Confined Space Entry
- > WVDOH - Inspection and
Testing

Butch Brown started his career with Thrasher as a computer aided drafting (CAD) designer in 1987. Within his design responsibility, Butch has worked closely with the Utility, Site, and Survey Divisions.

Using his knowledge in utility line replacements and extensions, Butch played an integral role in the development of the firm's Pipeline Inspection department, developing procedures and training for field personnel.

Butch currently serves as the Pipeline Inspection Supervisor; he is primarily responsible for scheduling and supervising inflow and infiltration investigations and GIS field crews. Butch is responsible for collection of field data and mapping for Long Term Control Plans. He also works with CADD designers and provides mentoring to young professionals work related to those projects. Butch enjoys working with Thrasher's summer interns and teaching them leading techniques used in the field.

Experience

Pea Ridge Public Service District GIS Mapping and I&I Investigation

Role: I&I Specialist

- > Cabell County, WV

Charleston Sanitary Board I&I Investigation

Role: I&I Specialist

- > Kanawha County, WV

City of Mount Hope I&I Investigation and GIS Mapping

Role: I&I Specialist

- > Fayette County, WV

Malden Public Service District Pipeline Inspection Supervision and I&I Investigation

Role: I&I Specialist

- > Kanawha County, WV

Kingmill Valley Public Service District Long-Term Flow Monitoring

Role: I&I Specialist

- > Marion County, WV

Jane Lew Public Service District Pipeline Inspection Supervision

Role: I&I Specialist

- > Harrison County, WV

Oak Hill Sanitary Board Sewer System Upgrades

Role: I&I Specialist

- > Fayette County, WV

Craigsville Public Service District I&I Improvements and Wastewater Treatment Plant Upgrades

Role: I&I Specialist

- > Nicholas County, WV

CRAIG KLEIN, PE, CPESC

Structural Engineer



Education

Master of Science, Ohio
Civil Engineering
University of Akron

Bachelor of Science,
Civil Engineering
University of Akron

Registrations

Professional Engineer:
> Ohio

Certified Professional in Erosion
and Sediment Control

Affiliations

- > American Society of Highway Engineers
- > American Society of Civil Engineers

Craig Klein joined Thrasher in 2012, and has a Masters in Civil Engineering, with a concentration in structural engineering. He specializes in culvert, bridge, roadway design, and right-of-way plan preparation for various roadway projects governed by ODOT design criteria. He is knowledgeable and experienced in roadway geometrics, traffic control, highway lighting, drainage, and stormwater pollution prevention plan preparation.

Mr. Klein was responsible for the engineering design and geometric configurations of several intersection projects, establishing horizontal and vertical alignments, pavement salvage studies, and utility coordination and their impact assessment.

Mr. Klein also served as office engineer for the Cleveland Avenue/ Mt. Pleasant intersection improvement project for the Stark County Engineer. Mr. Klein is proficient in the use of MicroStation, Geopak, AutoCAD, Eagle Point, and the Hydra hydraulic design program.

Experience

**Malden Public Service
District Wastewater
Treatment Plant Upgrade**
Role: Structural Engineer
> Kanawha County, WV

**Berkeley County Public
Service Sewer District North
Area Wastewater Treatment
Plant Upgrade**
Role: Structural Engineer
> Berkeley County, WV

**City of Tallmadge Craig Road
Sanitary Sewer Extension**
Role: Structural Engineer
> Summit County, OH

**Greif Brothers, Industrial
Pretreatment Facility**
Role: Structural Engineer
> Stark County, OH

**March Avenue Liberty
Township Sanitary Sewer
Improvements**
Role: Structural Engineer
> Trumbull County, OH

**Westview Drive Sanitary
Sewer and Westview Drive
Water Improvements**
Role: Structural Engineer
> Trumbull County, OH

**Arms Drive Sanitary Sewer
Extension**
Role: Structural Engineer
> Trumbull County, OH

**Morton Salt Plant Pump
House Project**
Role: Structural
> Wayne County, OH

AMANDA CHEUVRONT, AIA, NCARB

K-12 Design Specialist



Amanda Chevront, 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 and healthcare projects and specializes in educational facility design. Her knowledge of the K-12 landscape in West Virginia will bring an advantage to Thrasher's team, supplementing our utility engineering expertise with first-hand experience in school design.

Education

Master of Science,
Architecture
University of North Carolina at
Charlotte

Bachelor of Science,
Architectural Engineering
Fairmont State University

Registrations

Professional Architect:

- > West Virginia
- > Virginia

Affiliations

- > NCARB Certificate
- > Member – American Institute of Architects (AIA) – WV Chapter
- > AIA West Virginia's AIA Safety Assessment Program Training

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

Barboursville Middle School Additions and Renovations

Role: Project Manager and
Project Architect
> Cabell County, WV

New Explorer Academy

Role: Project Architect
> Cabell County, WV

Cabell County Schools

Window Replacement
Role: Project Architect
> Cabell County, WV

Cabell County Career Technology Center and Spring Hill Elementary Renovations

Role: Project Manager and
Project Architect
> Cabell County, WV

Milton Pre-Kindergarten Additions and Renovations

Role: Project Manager
> Cabell County, WV

New Huntington East Middle School

Role: Project Designer
> Cabell County, WV

Southside Elementary School Additions and Renovations

Role: Project Manager and
Project Architect
> Cabell County, WV

The New Ceredo-Kenova Elementary School

Role: Project Architect
> Wayne County, WV

Wayne High School Additions and Renovations

Role: Project Architect
> Wayne County, WV

Calhoun-Gilmer Career and Technical Center Multi-Phase Upgrades

Role: Project Architect
> Calhoun County, WV

The West Virginia Board of Architects

certifies that

AMANDA JO CHEUVRONT

is registered and authorized to practice
Architecture in the State of West Virginia.

In testimony whereof this certificate has been issued
by the authority of this board.

Certificate Number 4653

The registration is in good standing until June 30, 2021.



A handwritten signature in cursive script, reading "Emily Papadopoulos", on a light-colored background.

Board Administrator

PROJECT EXPERIENCE

GRANT COUNTY BOARD OF EDUCATION Union Education Complex Package Plant

Client Contact:

Mr. Brent Nelson, Director of Facilities and Maintenance
204 Jefferson Avenue | Petersburg, WV 26847
304-257-1011 ext. 18

The Grant County Board of Education (GCBOE) received SBA funding to upgrade their facilities. As part of this project, Thrasher's Buildings and Facilities team was hired to design and bid an upgrade to the roof at the Union Educational Complex (UEC, a K-12 facility in the county). During this project, the GCBOE team mentioned that the grease trap and the existing 8,000 GPD extended aeration wastewater treatment plant (WWTP) at the school were in need of replacement. Thrasher met on-site with the GCBOE and faculty members who maintain the WWTP to understand the issues and evaluate possible solutions. The existing aerated package plant was steel construction and difficult to maintain in the winter months. The grease trap was located just outside of the kitchen for the school's cafeteria and was in poor condition. GCBOE extended a contract to Thrasher's Water Resources team to address these issues.

A site survey was carried out by Thrasher to gather topographical information and locate existing features while preliminary design of the project began. Design included a new pre-cast concrete package plant to be built next to the existing WWTP in order to keep the existing plant in operation during construction. Once the new WWTP was constructed, the existing plant could be demolished. A pavilion structure was also designed to shelter the new



WWTP to increase ease of operation during the winter months. A new grease trap, new gravity sewer lines, and new manholes were constructed and tied-in to the existing sewer lines.

Additionally, water lines and fire lines needed relocated to accommodate the new WWTP. The public service district that the school buys water from requested that a dual check valve be installed on the relocated fire line. A new hydrant and water meter were also included in the water line relocation. The owner noted the need for an upgrade to the storm line, which carried flow from several downspouts to the stream due to water backup during rain events. Thrasher designed the upgraded storm line and the contractor carried out the work.

PROJECT EXPERIENCE



LEWIS COUNTY BOARD OF EDUCATION Roanoke School Wastewater Treatment Plant

Client Contact:

Ms. Melissa Riley, Personnel Director
239 Court Avenue | Weston, WV 26452
304-269-8326

The Lewis County Board of Education selected The Thrasher Group to design a new Wastewater Treatment Plant for Roanoke Elementary School in Lewis County, WV. The existing plant had reached the end of its useful life and was in need of replacement.

Thrasher was selected for the job in January 2016. By May 2016, Thrasher opened bids for this project and began construction in June 2016. Thrasher wasted no time getting to work on this project because of the project schedule set by the client. The plant needed to be put into service prior to school beginning in August 2016, when the staff and students returned. The plant was designed and reviewed within two short months of the selection. The project was placed out to bid and came in well under budget. Coordinating with the school board was imperative to the success of this project.



PROJECT EXPERIENCE



CALHOUN-GILMER CAREER CENTER New Package Plant

Client Contact:

Mr. Bryan Sterns, Director
5260 West Virginia 5 | Grantsville, WV 26147
304-354-6151

Thrasher worked with the Calhoun-Gilmer Career Center for several years to complete a multi-phase project that upgraded several facets of the Center. This project came to fruition out of sheer necessity for a safe, modern facility for the students of both Calhoun and Gilmer Counties to learn vocational trades.

Phase I of the project focused on upgrading the on-site wastewater treatment plant. Thrasher designed a new, 3,000 GPD package plant for the school adjacent to the existing plant. The existing

plant was taken out of service, the influent line was intercepted and routed to the new plant, and a new effluent line was built to take the flow to the Kanawha River.

In addition to the design work involved, Thrasher's Utility team saved the Calhoun-Gilmer Career Center time, money, and hassle on this project through two permit processes. We reached out to the Health Department to determine if any permitting was necessary for this project and were able to perform the work without additional permits. Thrasher also worked with the NPDES on wasteload allocation for the increased capacity of the plant.

While this work was being completed, the Thrasher Architecture Division was also working at the Career Center, completing ADA restroom upgrades. They also were involved in Phase II and Phase III of the Center's renovations, completing everything from roof repairs to security upgrades.

PROJECT EXPERIENCE



ANDERSON EQUIPMENT Wastewater Treatment Plant Replacement

Client Contact:
Mr. Don Larck, Service Manager
119 S Corridor G | South Charleston, WV 25303
304-756-2800

This project consisted of replacing an existing 600 GPD extended aeration wastewater treatment plant with a 1,000 GPD fixed media aeration wastewater treatment plant, dosing pump station, peat filter pods and UV disinfection system. The project also included significant permit modifications, which saved our client roughly \$10,000 per year in sampling costs.



PROJECT EXPERIENCE



DOMINION NATRIUM New Wastewater Treatment Plant

The Thrasher Group was hired by Dominion to provide utility services at the Natrium processing facility. This project consisted of the decommission and demolition of the existing wastewater treatment, installation of a new packaged wastewater treatment plant, new duplex pump station, the procurement and installation of a prefabricated storage shed, chain link fencing, gates, piping, fittings, cleanouts, mounting hardware.

The team also assisted with site selection, taking the floodplain into consideration in the process. Thrasher engineers also provided site work such as grading, gravel, and cleanup.



ALUM CREEK FIRE STATION AND COMMUNITY CENTER Package Wastewater Treatment Plant

The Alum Creek Fire Station and Community Center Package Wastewater Treatment Plant (WWTP) project consists of the construction of a dual-purpose fire station and community center along U.S. Route 119. Thrasher is providing a variety of services for the project, including parking facilities and necessary site grading, as well as construction oversight for the building that will house the fire station and community center.

Additionally, this project will provide wastewater collection and treatment services to this new facility as well as the nearby Southpointe subdivision. An existing package wastewater treatment plant owned and operated by the Southpointe subdivision homeowners' association will be decommissioned and a new package plant will be constructed on the fire station property. A lift station will be constructed at the former site of the Southpointe package wastewater treatment plant in order to transport wastewater approximately 350 linear feet from the Southpointe collection system to the new plant.

This project is currently moving into construction.

REFERENCES



Pea Ridge Public Service District

Ms. Dina Foster, General Manager
P.O. Box 86
Barboursville, WV 25504
304-736-6711

Huntington Area Development Council

Mr. David Lieving, President and CEO
916 Fifth Avenue, Suite 400
Huntington, WV 25701
304-525-1161

Calhoun-Gilmer Career Center

Mr. Bryan Sterns, Director
5260 West Virginia 5
Grantsville, WV 26147
304-354-6151



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