



THRASHER

DIVISION OF CORRECTIONS AND REHABILITATION

**Denmar Correctional Center
and Jail Water Treatment Plant**

AE01 0608 DCR2400000002

Submitted by:

The Thrasher Group, Inc.

May 10, 2024

May 10, 2024

Attn: Mr. Philip Farley, Buyer
Division of Administrative Services
1124 Smith Street, Suite 2100
Charleston, WV 25301

RE: Division of Corrections and Rehabilitation — Denmark Correctional Center and Jail Water Treatment Plant

Dear Mr. Farley and Members of the Selection Committee:

The Denmark Correctional Center and Jail (DCC&J) water treatment plant has been in service for more than 70 years, only having minor upgrades to the chemical feed, systems monitoring, and pumping equipment completed during that time. While the water treatment plant has served the facility well, it is rapidly approaching the end of its useful life. With plans to replace the existing water treatment plant with a new facility, the Division of Corrections and Rehabilitation (DCR) needs a partner who has an in-depth knowledge of the factors involved in completing a project of this magnitude. The Thrasher Group is the right firm for the job.

We have an extensive history of water treatment plant projects throughout the state of West Virginia, with utility projects having been the foundation of our firm since 1983. We built our company on serving the public utility sector and have done so with great success over the last 40 years. Our team is highly experienced in all facets of the water world, from water treatment facilities to tank replacements and everything in between. Not only that, but having worked on a multitude of projects near your location gives our team an unmatched familiarity with the local terrain and neighboring municipalities.

Our team is familiar with the DCC&J and have been to the site to review the challenges you are currently facing. We recognize the importance and critical nature of this project for your staff and people confined at the facility. The deterioration of the un-reinforced concrete basins is a serious issue and will endanger the integrity of the basin walls — ultimately preventing the treatment of water by the plant and contaminating the water that is used daily throughout the facility. We are dedicated to improving the infrastructure in the communities where we live and work and are passionate about this project. We are here to provide you with the highest level of consulting services concerning these matters.

We look forward to speaking with you further about the project and demonstrating the level of commitment, dedication, and support that The Thrasher Group will bring to the Division of Corrections and Rehabilitation and Denmark Correctional Center and Jail.

Sincerely,
The Thrasher Group, Inc.

Clay P. Riley, PE
Project Manager



Frederick Hypes, PE, PS, MSCE
QA/QC



A critical step in meeting your goals is first ensuring we understand them. The Thrasher Group is a hands-on consultant who likes to be efficient and effective. Our experience with the design and development of water treatment plants, large and small, has enabled us to develop a streamlined process. Below is an outline of the necessary steps and approach that we will take to submit and adhere to the necessary project requirements for the new water treatment plant at Denmark Correctional Center and Jail.

► GOAL/OBJECTIVE 1

Thrasher will begin with a review of the program for the facilities, along with a review of existing site conditions. Communication with all stakeholders will be key to align project expectations with the budgetary, timeline, and physical constraints of the project. More details on our approach to communication can be found in the following pages.

► GOAL/OBJECTIVE 2

As a full-service architecture and engineering firm, Thrasher can provide all necessary services for this project. Our team can handle everything from site design and engineering to survey and environmental considerations. We will perform all work in accordance with the Division of Corrections and Rehabilitation's needs and objectives, maintain all current laws and codes, and also adhere to your budget constraints.

► GOAL/OBJECTIVE 3

Thrasher will assist the Division of Corrections and Rehabilitation, Denmark Correctional Center and Jail, and all other stakeholders in preparation of the bid documents and will attend pre-bid meetings and assist in issuance of addenda.

► GOAL/OBJECTIVE 4

Construction administration always plays a major role in Thrasher's full-service approach. This is a piece that we feel is important to offer for every

project. Our philosophy has proven time and time again to be incredibly successful, as the team at Thrasher consistently bids more projects than any other A/E firm in the state. Thrasher has the competent professionals your team needs to ensure your project is constructed correctly and functions as designed.



Water Intake at Denmark



Deteriorated Basin at Denmark

Because Thrasher completed the previous PER for the Denver Correctional Center and Jail's water treatment plant, we have a solid understanding of the project and the goals set forth in the RFP. Our team will keep those goals in mind throughout the process and will address each in turn, working directly with the Division of Corrections and Rehabilitation (DCR) to meet your needs with the project approach outlined below. We will conduct design review meetings with your team at each phase of the process, making sure we are staying aligned with the overall intention of the project.

Our general steps for project management are as follows:

Step 1 - PROJECT SCOPING

Our project manager, Clay Riley, will meet with you to review the goals and objectives for the project to establish a clearly defined scope of work. At this time, we understand at a high level the project will involve planning, design, permitting, and construction administration. The details of our involvement in each of these categories will be flushed out in this meeting to set clear expectations on our role throughout the project.

Step 2 - FIELD WORK

Thrasher's engineering team will perform a site visit to review existing conditions and identify opportunities and constraints associated with the design of this project. This assessment will involve documenting existing conditions and allowing our team to lay eyes on the project first hand.

Step 3 - CONCEPTUAL DESIGN

Thrasher will prepare conceptual designs for the project that meet the identified goals and objectives and are in compliance with National Fire Protect Agency (NFPA), National Electric Code (NEC), International Building Codes (IBC), and all other State and Federal regulations as required. These designs will illustrate different alternatives that are possible to meet these goals and objectives. Drawings and specifications will be reviewed with the DCR and submitted at 35%, 65%, 95%, and 100%. Cost estimates will be revised and submitted with each submittal at 65% and 100%.

During the conceptual design phase, Thrasher will also identify any specialized studies or permits that would be associated with the construction of this project.

Step 4 - CONSTRUCTION DOCUMENTS & PERMITTING

Thrasher will coordinate with the DCR to identify and submit the necessary permits based upon the selected design. We will run the permitting process in parallel with the final design as much as possible in an effort to save time throughout this phase.

Step 5 - BID PROCESS

Thrasher will assist the DCR and stakeholders in preparation of the bid documents and will attend pre-bid meetings and assist in issuance of addenda.

Once the project is ready to go out to bid, Thrasher will provide on paper and a USB flash drive all the following:

1. All project drawings in sets of three full size copies – one in PDF format and one in AutoCAD format
2. The project manual in sets of three letter size copies
3. All project specifications in one PDF format and in Word format

Step 6 - CONSTRUCTION ADMINISTRATION

Thrasher will manage the construction process by assisting the DCR in submittal reviews, pay applications reviews, and change order reviews. Additionally, our project manager will coordinate progress meetings where issues are brought up and resolved and progress is tracked through scheduling submitted by the contractor. The project team will also provide periodic inspections of the project to confirm the construction meets the expectations set forth in the contract documents.

Step 7 - PROJECT CLOSE OUT

Upon completion of the project, the Thrasher team will work with the General Contractor to assure that all closeout documents are provided and that the facility is fully complete and functional at turn over.



300+

EMPLOYEES

- 36 Licensed Professional Engineers
- 10 Licensed Professional Surveyors
- 7 Licensed Professional Architects
- 3 Licensed Professional Landscape Architects

MAIN POINT OF CONTACT:

Clay P. Riley, PE
Project Manager
cpriley@thethrashergroup.com
Cell: 304-288-5011
Office: 304-326-6119



40+

YEARS

of delivering successful projects



7

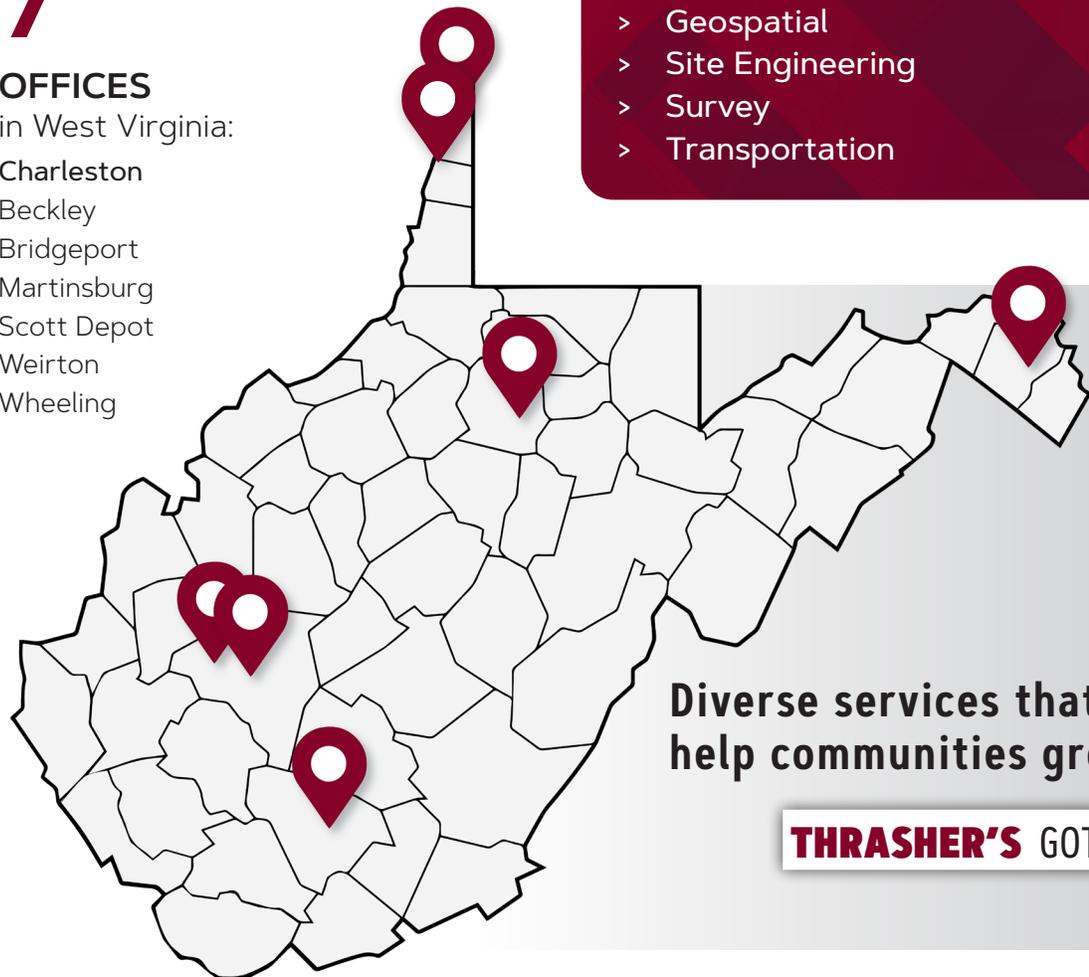
OFFICES

in West Virginia:

- Charleston
- Beckley
- Bridgeport
- Martinsburg
- Scott Depot
- Weirton
- Wheeling

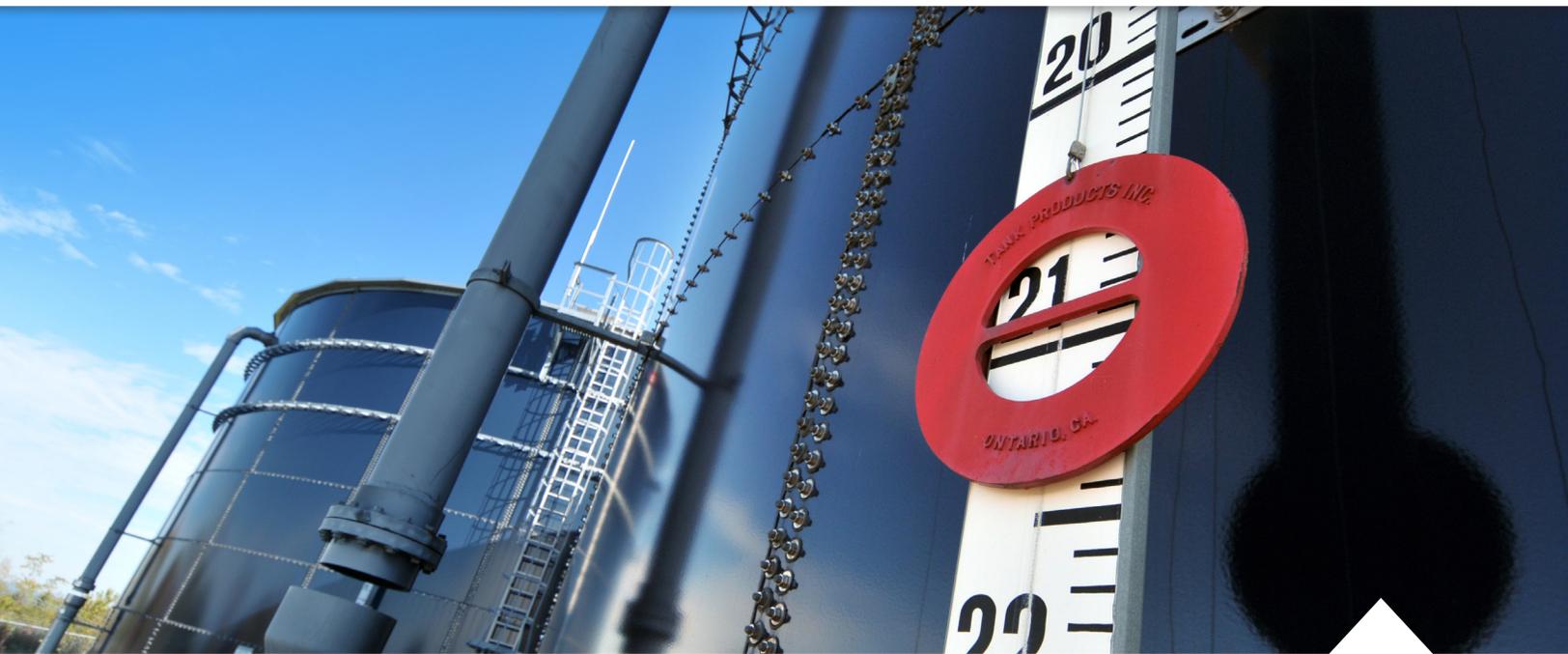
OUR SERVICES

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



Diverse services that help communities grow.

THRASHER'S GOT IT



WATER TREATMENT AND DISTRIBUTION

Meeting increasingly stringent water quality standards demands experienced and dedicated water system specialists. Since our very first water project more than 40 years ago, there has always been a potable water project underway at Thrasher. These projects provide safe drinking water to towns, cities, and entire counties. The team at Thrasher is highly skilled and practiced in both conventional ground and surface treatment systems involving rapid mix, flocculation, sedimentation filtration, membrane, and reverse osmosis processes.

Whether it is designing more efficient processes, integrating alternative energy sources, reducing infiltration, or restoring function to aged piping systems, our clients can count on Thrasher to find practical, low cost, environmentally friendly solutions to their supply needs.

Water Services:

- > Water Treatment Plant Design
- > SCADA and Telemetry Systems
- > Storage Facility Design
- > Booster Stations and Hydraulic Modeling
- > Construction Monitoring
- > Distribution System Design
- > Existing System Evaluation
- > Feasibility Studies/Facility Planning
- > Geographical Information Systems (GIS)
- > Pump Station Design
- > Water Loss Evaluation and Analysis Studies



JONATHAN CARPENTER, PE

PRINCIPAL

Education

Bachelor of Science,
Civil Engineering
University of Tennessee

Registrations

Professional Engineer:

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

Affiliations

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

PROFESSIONAL OVERVIEW

Jonathan Carpenter, PE, serves as managing partner of the firm's Charleston, WV location 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 26 years, and brings an unsurpassed expertise to the company, particularly as it relates to the design of water and wastewater treatment facilities.

Jonathan has spent the vast majority of his career working with West Virginia 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

**Union-Williams Public Service District
Water Treatment Plant and Distribution System Upgrades**
Project Manager | Wood County, WV

**Ravencliff-McGraws-Saulsville Public Service District
New Richmond Water Line Replacement**
Principal | Wyoming County, WV

City of Milton Water Treatment Plant and Distribution System Upgrades
Project Manager | Cabell County, WV

**Mingo County Public Service District Naugatuck
Water Treatment Plant Upgrades**
Project Manager | Mingo County, WV

Lincoln Public Service District Water System Improvements
Principal | Lincoln County, WV

**Greenbrier County Public Service District #2
Water Treatment Plant Upgrades**
Principal | Greenbrier County, WV

Craigsville Public Service District Water Treatment Plant Upgrades
Principal | Nicholas County, WV

Fenwick Mountain Public Service District Water System Improvements
Principal | Nicholas County, WV



FREDERICK HYPES, PE, PS, MSCE

QA/QC

Education

Bachelor of Science,
Civil Engineering
West Virginia Institute
of Technology

Master of Science,
Civil Engineering
West Virginia College
of Graduate Studies

Registrations

Professional Engineer:
> West Virginia

Professional Surveyor:
> West Virginia

Affiliations

- > Water Environment Federation
- > National Society of Professional Engineers

PROFESSIONAL OVERVIEW

With over 44 years of experience in planning, design and construction of environmental projects, Fred Hypes, PE, PS, MSCE, has designed systems for both potable water and wastewater. He was the Chief Engineer for the West Virginia Department of Environmental Protection (WV DEP) Construction Assistance Programs for 15 years.

Fred has designed and overseen construction engineering for more than 13 wastewater collection and treatment systems. His design work has included systems ranging from 0.05 MGD aerated lagoon treatment system to 2.0 MGD wastewater treatment plant and pumping facilities.

EXPERIENCE

Walton Public Service District Water Treatment Plant Upgrades
Project Manager | Roane County, WV

City of Petersburg Water Treatment Plant Upgrades
Project Manager | Grant County, WV

Nettie-Leivasy Public Service District Water Treatment Plant Upgrades
Project Manager | Nicholas County, WV

Town of Oceana Water Treatment Plant Upgrades
Project Manager | Wyoming County, WV

Town of Grantsville Water Treatment Plant Upgrades
Project Manager | Calhoun County, WV

Town of West Hamlin Water Treatment Plant Upgrades
Project Manager | Lincoln County, WV

City of Ravenswood Water Treatment Plant Upgrades
Project Manager | Jackson County, WV

Clay-Roane Public Service District Water Project
Project Manager | Clay and Roane Counties, WV

City of Benwood Water Project
Project Manager | Marshall County, WV

Town of Wardensville Sewer and Water Projects
Project Manager | Hardy County, WV

Flatwoods Canoe Run Public Service District Sewer and Water Projects
Project Manager | Braxton County, WV



CLAY P. RILEY, PE

PROJECT MANAGER

Education

Bachelor of Science,
Electrical Engineering
West Virginia University

Bachelor of Science,
Computer Engineering
West Virginia University

Registrations

Professional Engineer:

- > West Virginia
- > Ohio
- > Pennsylvania
- > Kentucky
- > North Carolina
- > Maryland
- > Utah

Affiliations

- > WV House of Delegates
- > ACEC WV - Infrastructure Chair
- > ACEC-WV - Former President
- > ACEC - Energy & Environment
- > Shale Crescent USA
- > The Backpack Project
- > United Way of Harrison County
- > Harrison County Chamber
- > American Water Works Association
- > West Virginia State Journal
"Generation Next - 40 under 40"
- > West Virginia Executive "Young Gun" Recipient
- > ACEC-WV Engineering Gold Award (2 Times)

PROFESSIONAL OVERVIEW

Clay Riley, PE, has a long history of success with public utilities at The Thrasher Group. Currently, he oversees the quality of the company's large-scale utility projects and leads company-wide business development efforts. Clay's extensive portfolio of potable water, sanitary sewer, and storm water projects has made him an expert in the field. His knowledge of the design, permitting, construction, and operation of expansive utilities, specifically in West Virginia, brings his clients a level of quality assurance that other firms cannot match.

As part of his role within the administration of utility contracts, Clay is responsible for project scheduling oversight, design QA/QC, and ensuring seamless client communication. His vast experience and history of successful projects earned him the esteem of his peers — he is a past President of the American Council of Engineering Companies (West Virginia Chapter). This role gave him a platform to engage both the State and National engineering communities to help identify infrastructure needs and create growth opportunities within the Mid-Atlantic region.

EXPERIENCE

Canaan Valley Public Service District New Water Plant

Project Manager | Tucker County, WV

Town of Rowlesburg Water System and Plant Upgrade Project

Principal and Project Manager | Preston County, WV

Norton-Harding-Jimtown Public Service District Water System Extension

Principal and Project Manager | Randolph County, WV

Sun Valley Public Service District Water System Extension

Project Manager | Harrison County, WV

City of McMechen Water System Improvements

Principal | Marshall County, WV

Town of Williamsport Water System Improvements

Project Manager | Garrett County, MD

Keyzers Ridge Business Park Water Treatment Plant Project

Project Manager | Garrett County, MD

Hardy County Public Service District Pilgrims Development Extension

Project Manager | Hardy County, WV

Coons Run Public Service District Water Extension

Principal | Harrison County, WV



JESSE ALDEN, PE

DESIGN 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
- > Ohio
- > Virginia

Certifications

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

Affiliations

- > American Water Works Association West Virginia – Board of Directors Trustee

PROFESSIONAL OVERVIEW

Jesse Alden, PE, has become one of Thrasher's leading Project 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 served as the Project Manager for numerous infrastructure improvements for the Weirton Area Water Board's massive renovation and upgrade endeavors in Hancock County, WV. Jesse has also designed and engineered several water and wastewater treatment plants; improving water quality throughout the Mid-Atlantic Region.

EXPERIENCE

Weirton Area Water Board Water Treatment Plant Improvements
Project Manager | Hancock County, WV

City of Milton Water Treatment Plant Upgrade
Project Engineer | Cabell County, WV

Town of Rowlesburg Water System and Plant Upgrade Project
Project Engineer | Preston County, WV

Hamrick Public Service Water Treatment Plant Upgrade
Project Engineer | Tucker County, WV

Village of Caldwell Water Treatment Plant Upgrades
Project Engineer | Noble County, OH

Cowen Public Service District Water System Rehabilitation Phase II
Project Engineer | Webster County, WV

Town of Elizabeth Water System Improvements
Project Engineer | Wirt County, WV



AARON RAWE, PS

SURVEY MANAGER

Education

Associates of Science,
Surveying Technology
Glennville State College

Registrations

Professional Surveyor:
> West Virginia
> Kentucky

Certifications

> Safeland
> OSHA Training
> First Aid and Medical
Emergency Action Procedure

Affiliations

> West Virginia Society of
Professional Surveyors

PROFESSIONAL OVERVIEW

Aaron Rawe, PS, serves as a Survey Project Manager for Thrasher working out of the Bridgeport office. His experience covers various aspects of surveying, including routing, as-builts, preliminary, construction stakeout and boundary of construction management. He is experienced both in the field and orchestrating projects behind the scenes. He brings over six years of pipeline and asset management experience to the team.

As part of his management role, Aaron also meets with project stakeholders, area residents, local utility companies, and the project engineers to ensure that schedules are being met and to regularly update all parties on construction status. Additionally, he is progressively responsible for the coordination of field crews, data collection, site layouts, ALTA surveys, subsidence and topographic surveys.

Aaron also assists in the management of the Mapping Department here at Thrasher. He is responsible for the coordination between photogrammetrist and field crews in helping determine the placement of photo targets and items to be located for photo control. He helps process and QA, QC all data coming in from the field before delivering it to the photogrammetrist to use for the air trig of the projects.

EXPERIENCE

City of McMechen Water System Improvements

Survey Manager | Marshall County, WV

Ruby Memorial Hospital Building and Utility Location Surveys

Survey Manager | Monongalia County, WV

Boy Scouts of America 200 Acre Site Survey, Topographic, and Utility Surveys

Survey Manager | Fayette County, WV

Metro Towers Topo, Control, and Property Location Surveys

Survey Manager | Monongalia County, WV

City of Westover Alley Survey

Project Manager | Monongalia County, WV

Monongalia County Childcare Advocacy Lot Line Adjustment

Project Manager | Monongalia County, WV

Monongalia County Development Authority Chaplin Hill Business Park

Survey Manager | Monongalia County, WV



EMILY GARLOW

ENVIRONMENTAL TECHNICIAN

Education

Bachelor of Science,
Biology
Fairmont State University

Registrations

- > WV Licensed Asbestos Inspector
- > WV Licensed Asbestos Project Designer

Certifications

- > Certified Environmental Scientist

Affiliations

- > Certified Environmental Scientist

PROFESSIONAL OVERVIEW

Emily Garlow is an Environmental Technician for The Thrasher Group. Her main responsibilities include wetland and stream delineations, environmental site assessments, and assisting with permitting work in West Virginia and Pennsylvania. She primarily works with the Environmental Division at Thrasher, obtaining permits to ensure projects remain in compliance.

EXPERIENCE

Lewis County Economic Development Authority Phase I Water Line Extension
Environmental Technician | Lewis County, WV

West Virginia Department of Economic Development Site Assessments
Environmental Technician | Multiple Counties, WV

**West Virginia Land Stewardship Corporation
HUD NEPA Assessments and ACM Investigations**
Environmental Technician | Multiple Counties, WV

**City of Pennsboro Doddridge County Water Line Extension
Wetland and Stream Delineation and Environmental Permitting**
Environmental Technician II | Ritchie and Doddridge Counties, WV

**Philippi Dam and Water Line
Wetland and Stream Delineation and Environmental Permitting**
Environmental Technician I and II | Barbour County, WV

Benedum Airport Authority Quarterly Stormwater Sampling and GPP Inspections
Environmental Technician I and II | Harrison County, WV

**EQT Ohio River Intake Wetland and Stream Delineation
and Environmental Permitting**
Environmental Technician II | Multiple Counties, WV

**Greater Harrison Public Service District Woodstock Heights
Wetland and Stream Delineation and Environmental Permitting**
Environmental Technician I and II | Harrison County, WV

**Huntington Sanitary Board Rt 10 Extension Wetland
and Stream Delineation and Environmental Permitting**
Environmental Technician II | Cabell County, WV

**Greater Harrison Public Service District Rt. 20 Sanitary Sewer Extension
Wetland and Stream Delineation and Environmental Permitting**
Environmental Technician II | Harrison County, WV

**Town Of Nutter Fort Rt. 20 Sanitary Sewer Extension
Wetland and Stream Delineation and Environmental Permitting**
Environmental Technician II | Harrison County, WV

Town of Marlinton

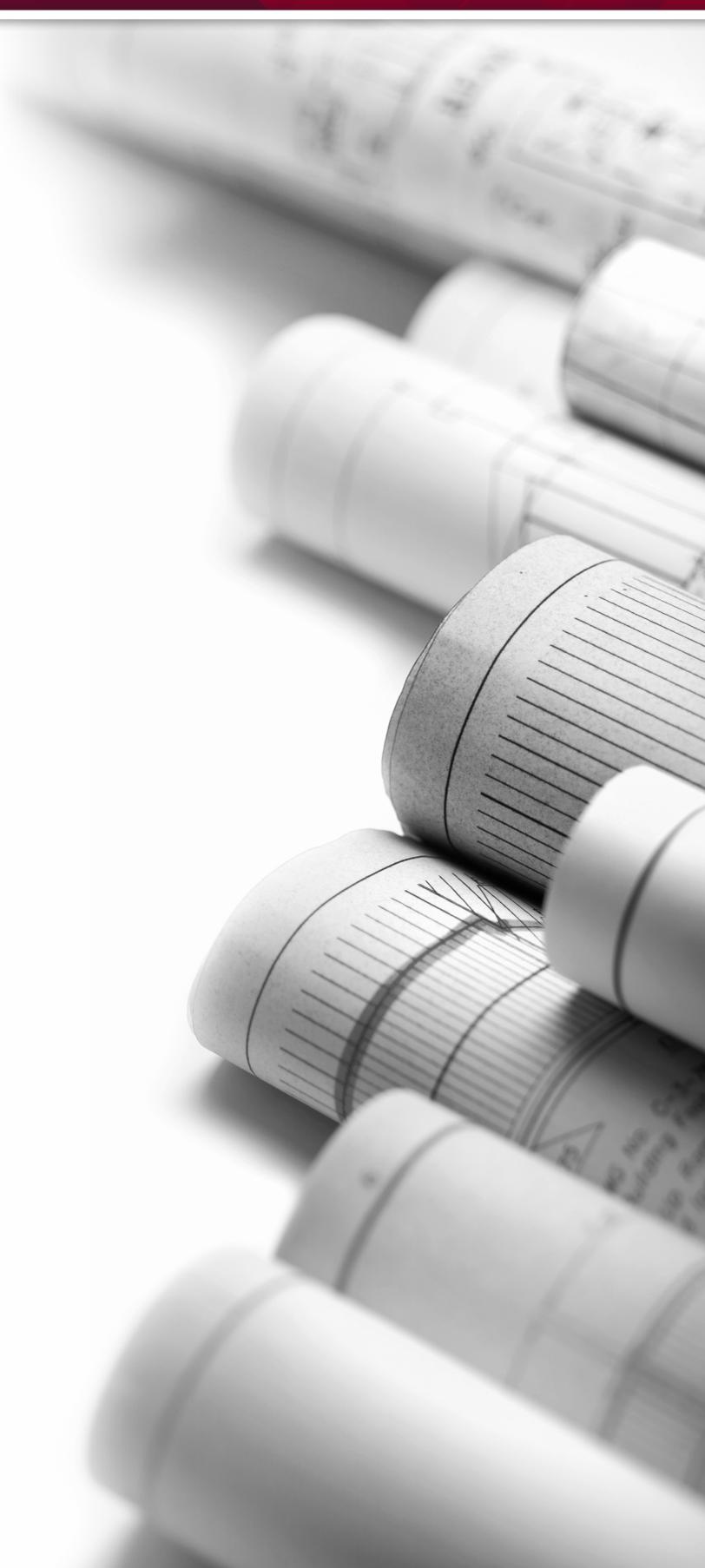
Mr. Sam Felton, Mayor
709 Second Avenue
Marlinton, WV 24954
304-799-4315

WVDHHR

Mr. Kristopher Wilcoxon, Engineer
2699 Park Avenue, Suite 100
Huntington, WV 25704
304-993-0480

Town of Piedmont

Mr. Greg Harvey, Water Commissioner
52 Second Street
Piedmont, WV 26750
304-790-4469



Name:	JONATHAN C. CARPENTER
WV Professional Engineer:	PE License Number: 015425
	PE License Status: Active
	PE Issue Date: 12/18/2002
	PE Expiration Date: 12/31/2024
Continuing Education Claim:	Qualifying Hours from Last Renewal or Reinstatement: 31.35
	Carryover Hours for Next Renewal: 1.35
	Last Renewal or Reinstatement Date*: 12/27/2022
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

Name:	FREDERICK L. HYPES
WV Professional Engineer:	PE License Number: 009327
	PE License Status: Active
	PE Issue Date: 07/29/1983
	PE Expiration Date: 12/31/2024
Continuing Education Claim:	Qualifying Hours from Last Renewal or Reinstatement: 50.00
	Carryover Hours for Next Renewal: 15.00
	Last Renewal or Reinstatement Date*: 12/28/2022
WV Engineer Intern:	EI Certification Number: 3724
	EI Issue Date: 07/20/1979
Primary Address of Record:	3615 NORTH CREDE DRIVE CHARLESTON, WV 25302
Primary Employer of Record:	THE THRASHER GROUP

Name:	CLAY P. RILEY
WV Professional Engineer:	PE License Number: 015634
	PE License Status: Active
	PE Issue Date: 05/30/2003
	PE Expiration Date: 12/31/2024
Continuing Education Claim:	Qualifying Hours from Last Renewal or Reinstatement: 45.50
	Carryover Hours for Next Renewal: 15.00
	Last Renewal or Reinstatement Date*: 12/12/2022
WV Engineer Intern:	EI Certification Number: 7323
	EI Issue Date: 01/12/1999
Primary Address of Record:	66 SPRING HAVEN TRAIL SHINNSTON, WV 26431
Primary Employer of Record:	THE THRASHER GROUP, INC.

Name:	JESSE LEE ALDEN
WV Professional Engineer:	PE License Number: 022695
	PE License Status: Active
	PE Issue Date: 12/20/2017
	PE Expiration Date: 12/31/2024
Continuing Education Claim:	Qualifying Hours from Last Renewal or Reinstatement: 30.00
	Carryover Hours for Next Renewal: 0.00
	Last Renewal or Reinstatement Date*: 12/1/2022
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.

2024 WEST VIRGINIA PROFESSIONAL SURVEYOR 2024

The West Virginia Board of Professional Surveyors certifies that the individual listed below is a PROFESSIONAL SURVEYOR who has qualified for a license under Chapter 30, Article 13A, Code of West Virginia, and has met the requirements for license renewal for the period ending June 30, 2024



AARON J. RAWE
P.S. #2312



Board Members

- Sefton Stewart, PS, Chairman
- Tom Rayburn, PS, Secretary
- Gary Facemyer, PE, PS
- Lantz Rankin, PS
- Douglas McElwee, Esq.

Issued
07/01/2023



Expires
06/30/2024

Executive Director
Amber Shawver Legg

2024

State of West Virginia
Board of Professional Surveyors



AARON J. RAWE
P.S.LIC. # 2312

Is a PROFESSIONAL SURVEYOR who has qualified for a license under Chapter 30, Article 13A, Code of West Virginia, and has met the requirements for license renewal for the period ending June 30, 2024

Expires:
06/30/2024

State of West Virginia
Board of Professional Surveyors
1124 Smith Street, Suite 1200
Charleston, WV 25301

Phone (304) 558-0350
Fax (304) 558-0352

Website: www.wvbps.wv.gov
Email: wvbps@wv.gov



Jonathan Carpenter, PE
Principal

Frederick Hypes, PE, PS, MSCE
QA/QC

Clay P. Riley, PE
Project Manager

Jesse Alden, PE
Design Engineer

Aaron Rawe, PS
Survey Manager

Emily Garlow
Environmental Technician

Transportation Services

Construction Services

Architecture Services



WEIRTON AREA WATER BOARD
Water Treatment & Distribution System

Client Contact:

Mr. A.D. "Butch" Mastrontoni
125 East Belleview Drive | Weirton, WV 26062
304-740-5020

Over the past decade, the Weirton Area Water Board (WAWB) staff has diligently pursued compliance with the Disinfectant and Disinfection By-product Rule. Upgrades for both the plant capacity and treatment processes were designed by the Thrasher team to meet the needs of the Board and staff.

Water Treatment Plant Residuals Handling

Thrasher performed bench-scale and treatability testing, engineering design, prepared construction documents and performed construction management. The project included two filter backwash retention decant tanks, addition of two settlers to two existing circular clarifiers, sludge thickener, addition of tube settlers to two existing clarifiers, a plate and frame sludge press and a sludge press building. This project was awarded an Engineering Excellence First Place Gold Award, by the West Virginia Association of Consulting Engineers.

18" Emergency Water Line

In response to a water service disruption to customers in the City of Weirton brought on during system repairs,

Thrasher and the Water Board personnel determined an additional line was necessary to prevent future water system disruptions. Thrasher "fast tracked" the design phase of the project which consisted of approximately 35 linear feet of 18-inch ductile iron water pipe within the existing water treatment plant filter gallery and approximately 390 linear feet of pipe outside the water treatment plant.

East Belleview Street Water Line Extension

This project consisted of the replacement of 600 LF of water line along East Belleview Street, which is in a highly populated residential area. Thrasher overcame the hurdles of the project by coordinating with City Council on their re-pavement of East Belleview, developed a traffic pattern with residents' safety in mind as well as coordinated their efforts with the WVDOH and other state agencies to complete the water line extension in a timely manner with limited water interruptions for the residents.

Belleview Elevated Water Storage Tank

The Weirton Area Water Board commissioned a hydraulic study of the entire water distribution system which showed the existing 150,000-gallon Belleview Tank should be replaced with a 1.0 Million gallon tank to provide the minimum two day storage required by the WV Bureau of Public Health.

Thrasher designed both a steel hydropiller tank and a composite tank. The City chose to construct the composite tank. By choosing the composite tank, the City was able to utilize the space below the steel tank for offices and storage.



 **TOWN OF ROWLESBURG**
Water System Upgrades
and Water Line Extensions

Client Contact:

Mr. Eric Bautista, Mayor
42 Poplar Street | Rowlesburg, WV 26425
304-454-2441

Thrasher has performed several water projects for the Town of Rowlesburg, including various water system improvements, water line replacements, and water line extensions. The first project involved the water treatment plant, located in a floodplain along the Cheat River, that was under water and damaged during a 100-year flood. It was losing more than half of the produced water due to leaks. Thrasher provided a variety of services to solve this problem, from preliminary engineering through construction management.

Next, Thrasher provided all engineering services for a water loss reduction project, consisting of replacement or repair of more than 14,000 linear feet of water line, resulting in the reduction of water loss from over 65% to an average of 16%. The new tank storage improved reliability of water service for Rowlesburg and their resale customer, the Town of Tunnelton.

Thrasher also partnered with Rowlesburg and Region VI to extend water service outside of town limits to approximately 100 customers in need of a safe water source. Thrasher helped in securing \$1.5 million in grant money through the West Virginia Small Cities Block Grant, \$1 million in West Virginia IJDC Grant, and \$2 million in low interest IJDC loan. This funding was secured and the project design and new water storage tank was completed and permitted in four short months.



 **TOWN OF MARLINTON**
Water System Improvements
and Fire Hydrant Replacements

Client Contact:
Mr. Sam Felton, Mayor
709 Second Avenue | Marlinton, WV 24954
304-799-4315

At the request of the Town of Marlinton, Thrasher has prepared the IJDC Critical Needs Preliminary Engineering Report that outlines a request to replace at least 10 non-functional fire hydrants (and to flow test a number of others) in the “downtown” area of

Marlinton. The local volunteer fire department has asked the Town to correct a significant public safety issue that has been made all the more pressing by a recent house fire in the City of Charleston and accusations by the Charleston Fire Department that the loss of the house was due, at least in part, to non-functional fire hydrants.

The Town’s Phase II water system improvements project was to replace at least 20 fire hydrants and also replace undersized mains that currently support fire hydrants, but because that project has yet to even receive design funding, and because the need to improve public safety is so pressing, Marlinton has requested that an application for Critical Needs Funding be made to the WV IJDC.



 **TOWN OF PIEDMONT**
Various Water Projects

Client Contact:

Mr. Greg Harvey, Water Commissioner
52 Second Street | Piedmont, WV 26750
304-790-4469

The Thrasher Group has been a long-time partner with the Town of Piedmont, completing several water system improvement projects over the years.

Phase I Water Treatment Plant Upgrades

The first phase of this project included new pipe galley and control valves for the water treatment plant, as well as the construction of a new cover for the sediment basin.

Phase II Water System Improvements

Phase II consisted of a new water tank, replacing the existing reservoir and chlorination system, as well as site and electrical upgrades.

New Well

Thrasher is currently working on a new well project with the Town. Our team is designing a new \$2 million, 100 gallon/minute well with a new well house along with a new raw water line that will feed to the existing water treatment plant.



 **VILLAGE OF BARBOURSVILLE**
Sewage Treatment Lagoon
Decommissioning

Client Contact:

Mr. Kristopher Wilcoxon, Engineer
2699 Park Avenue, Suite 100
Huntington, WV 25704
304-993-0480

The Village of Barboursville provides sanitary sewer service to some 1,900 customers, including several significant malls, eating establishments, hotels, and a major youth sports complex. The

sewage collection system consists of 20 miles of gravity sewers, 13 sewage pumping stations, and a 12 acre sewage lagoon.

While portions of the collection system are over 100 years old, the treatment lagoon is over 60 years old and was last upgraded over 20 years ago. To address the issues, the Village elected to decommission the lagoon and send its sewage to the nearby Pea Ridge Public Service District for treatment. This project will construct a new main pumping station and force main to Pea Ridge Public Service District, upgrade 8 existing pump stations, decommission treatment lagoon for site development, and repair existing sewer mains.

 **MASON COUNTY
PUBLIC SERVICE DISTRICT**
Water System Improvements

Client Contact:

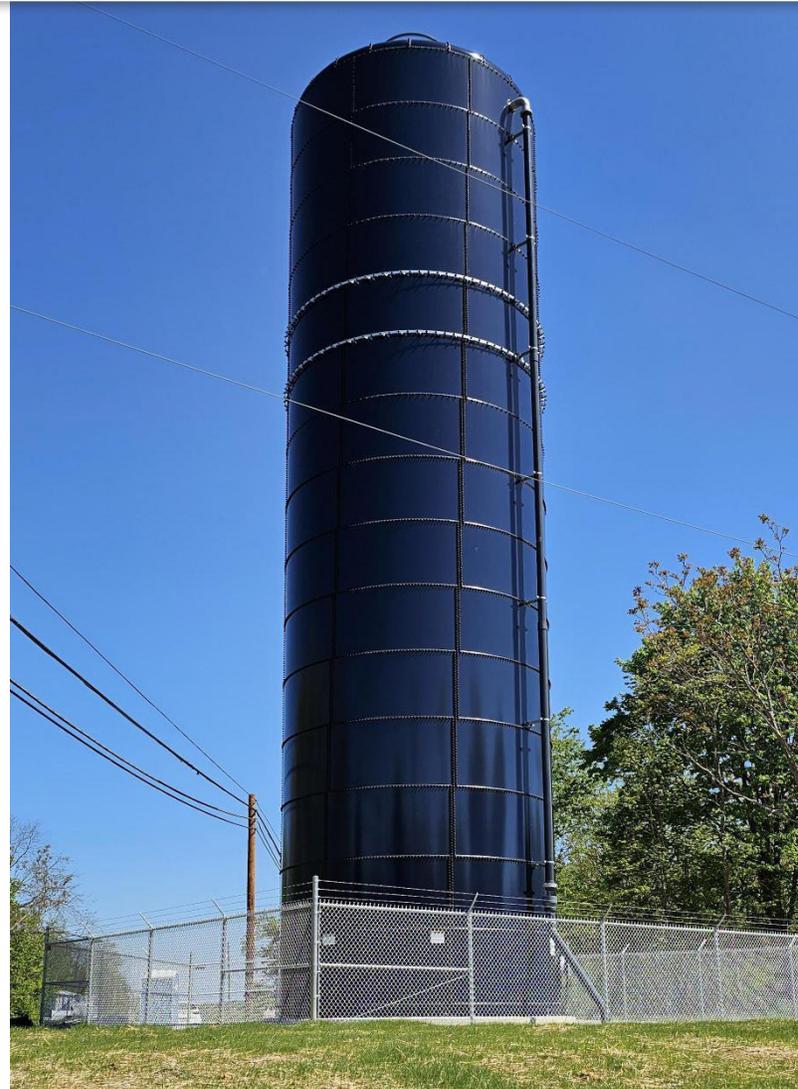
Mr. Brent Clark, Manager
101 Camden Avenue | Point Pleasant, WV 25550
304-675-6399

The Mason County Public Service District (PSD) has over 510 miles of waterline and 23 water storage tanks. The PSD has successfully completed numerous water extensions and projects since its conception in 1974. The latest of these, the J2Y35 System Upgrade, includes a new 156,000-gallon water tank, a 125gpm booster station, and 13,000 feet of 8' pipeline along with four fire hydrants. This new addition replaces a failing steel tank from 1964 and provides a more dependable water supply with reliable backup.

As a Class A utility serving Mason County and portions of Cabell, Jackson, and Putnam Counties, the PSD owns and operates six potable water distribution systems serving nearly 6,000 customers. The PSD acquired ownership of the J2Y35 Water Association in 2021. Following the acquisition, efforts commenced to pursue a project which would provide needed system improvements.

The new tank, filled by the new Johnson Booster Station, via upgraded 8" waterline, connects the J2Y35 system to the PSD's Lakin Wellfield System, helping to ensure a redundant water supply. This significant upgrade, made for the benefit of the community, was a collective effort that allows the PSD to provide water to J2Y35's 500 customers directly from its water treatment plant, while still staying connected to the City of Point Pleasant, thus providing backup supply.

The \$2.780 million project received funding from various sources, including the Mason County Commission; the West Virginia DEP Drinking Water Treatment Revolving Fund (DWTRF); the West Virginia Infrastructure and Jobs Development Council



Grant (WVIJDC) and the WV Water Development Authority (WDA) Economic Enhancement Grant (EEG). The financial contributions from these sources were instrumental in enabling the project to occur.

Notably, the project was made possible through the combined efforts of multiple organizations, individuals and entities, including but not limited to the above-named funding sources; the Thrasher Group Engineering; Region 2 Planning and Development Council (PDC); Bowles Rice Attorneys; and Griffith & Associates Accountants. The construction contractors were Dunlap Contracting, LLC for the line and booster station; and Mid Atlantic Storage Systems, Inc. (MASSI) for the tank. Property for the Johnson Booster Station was donated by Steve and Judy Johnson.



 **NORTON-HARDING-JIMTOWN
PUBLIC SERVICE DISTRICT**
Water Line Extensions

Client Contact:

Mr. Curtis Elmore, General Manager
P.O. Box 87 | Norton, WV 26285
304-636-6223

Both private citizens and the local economy benefited from this water line extension project in northwestern Randolph County. The project involved the extension of water service to approximately 31 customers in the Kingsville area and also provided water service to Leslie Equipment Company, allowing for company expansion that resulted in additional jobs.

Thrasher provided preliminary engineering, design, and construction related services — such as construction monitoring, survey, hydraulic testing, and materials testing — and other services as related to the engineering agreement.

The project involved the design and construction of over five miles of 6" and 8" water line and the construction of a 158,000-gallon water storage tank.

Contract #1

1 LS sediment and erosion control measures, 6.1 miles of various size water lines, 305 LF of various size steel casing, 12" HDPE DR-21 lining pipe, 9 EA 6" gate valve, complete with box, 6 EA 2" post flushing hydrant assembly complete, 1 EA air release valve, 27 EA high pressure meter setting (HPMS), 13 EA low pressure meter setting (LPMS), 2 EA 8" hot tap on existing water line, 1 LS 2-way radio telemetry, 1 EA installation of control valve in existing PRV vault, 1,080 LF of various size polyethylene service tubing, 55 LF WVDOH type "D" trench repair, 20 LF rip-rap 12"- 18".

Contract #2

1LS Erosion and sediment control, 1LS 158,000 gallon water storage tank with foundation, 1 LS concrete valve vault, 300 LF of 6' chain link fence, 300 TN crusher run stone, and miscellaneous appurtenances.

QA/QC Procedure

Thrasher has an internal Quality Control Policy to ensure our projects move forward efficiently and effectively. The objectives of this manual are to continually improve the quality of the design and technical deliverables Thrasher provides to its internal and external clients.

This manual illustrates the basic requirements for quality control in our projects. It describes the methods for checking and reviewing product elements and client deliverables and includes rigorous comprehensive written check-lists for each stage of the design process, document production, and construction activities.

The purpose of these QC methodologies is to reduce or eliminate the potential for errors, omissions, ambiguities, and inconsistencies.

The policy outlines three main areas:

» General

Defines the purpose, intent and limitations, definitions, and implementation

» Project Management Procedures

Presents required procedures specific to this practice that allow for the efficient and accurate management of projects

» Check and Final Review Procedures

Presents required procedures specific to this practice that are used to insure technical accuracy of the work product

Budgeting

Construction estimating and budgeting is one of the most important parts of what Thrasher can provide you. Without accurate budgets, there is no tool to guide the design process and issues will be inevitable. By including cost estimating as a part of the project scope from day one, we are able to avoid issues before they arise and keep your project within a reasonable cost.

Our estimates go beyond the typical system - rather than simply providing cost per foot or lump sum price, Thrasher will provide contractor-grade estimates that look at every part of the project. We do detailed take-offs of materials and look at every man hour needed to complete a project and factor this in accordingly. Then, we use our thorough understanding of the local market and material costs to accurately design within your budget.

Scheduling

Thrasher realizes the importance of establishing and maintaining project schedules. Time means money and making sure we help you spend your money wisely is our number one goal. Because of this, our team puts an emphasis on ensuring project timetables are met and communication is upheld throughout the process.

To accomplish these goals, Thrasher utilizes scheduling to track every stage of a project - from design and bidding through construction completion. We also require contractors working on our projects to regularly update their project schedules and give a detailed progress report at each job meeting, again focusing on the communication component of scheduling. This helps to ensure all parties are informed and aware of potential delays. Keeping our owners up to speed with progress is always our priority and ensures occupancy and owner supplied equipment are scheduled accordingly.



**State of West Virginia
DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT
West Virginia Code §21-1D-5**

STATE OF WEST VIRGINIA,

COUNTY OF Harrison, TO-WIT:

I, May 2, 2024, after being first duly sworn, depose and state as follows:

1. I am an employee of The Thrasher Group, Inc.; and,
(Company Name)
2. I do hereby attest that The Thrasher Group, Inc.
(Company Name)

maintains a written plan for a drug-free workplace policy and that such plan and policy are in compliance with **West Virginia Code** §21-1D.

The above statements are sworn to under the penalty of perjury.

Printed Name: Jonathan Carpenter

Signature: 

Title: Principal

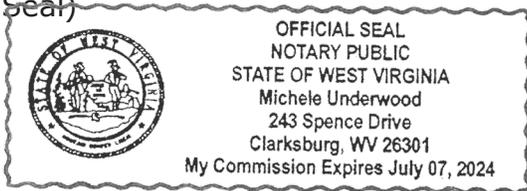
Company Name: The Thrasher Group, Inc.

Date: May 2, 2024

Taken, subscribed and sworn to before me this 2 day of May, 2024.

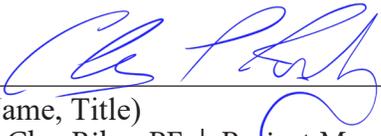
By Commission expires July 7, 2024

(Seal)




(Notary Public)

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.

 Project Manager

(Name, Title)
Clay Riley, PE | Project Manager

(Printed Name and Title)
600 White Oaks Blvd. | Bridgeport, WV 26330

(Address)
304-624-4108 | 304-624-7831

(Phone Number) / (Fax Number)
cpriley@thethrashergroup.com

(Email address)

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

The Thrasher Group, Inc.

(Company)
 Principal

(Authorized Signature) (Representative Name, Title)
Jonathan Carpenter | Principal May 2, 2024

(Printed Name and Title of Authorized Representative) (Date)
May 2, 2024

(Date)
304-343-7601 | 304-343-7604

(Phone Number) (Fax Number)
jcarpenter@thethrashergroup.com

(Email Address)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: AEOI 0608 DCR240000002

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 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

May 6, 2024
Date

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

STATE OF WEST VIRGINIA
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 §15A-3-14, 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.

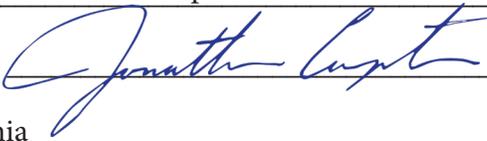
"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' 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:  Date: May 2, 2024

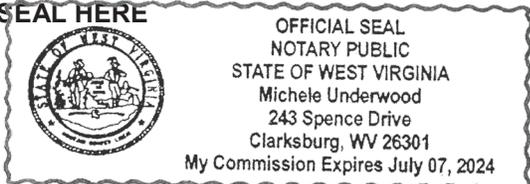
State of West Virginia

County of Harrison, to-wit:

Taken, subscribed, and sworn to before me this 2 day of May, 2024.

My Commission expires July 7, 2024.

AFFIX SEAL HERE



NOTARY PUBLIC



Purchasing Affidavit (Revised 03/09/2019)



THRASHER