



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at wvOASIS.gov. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at WVPurchasing.gov with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 1[List View](#)**General Information** | [Contact](#) | [Default Values](#) | [Discount](#) | [Document Information](#) | [Clarification Request](#)

Procurement Folder: 1381833


Procurement Type: Central Purchase Order

Vendor ID: 000000204787 

Legal Name: THE THRASHER GROUP INC

Alias/DBA:

Total Bid: \$0.00

Response Date: 03/12/2024 

Response Time: 8:57

Responded By User ID: Thrasher 

First Name: Anjelica

Last Name: D'Annunzio

Email: adannunzio@thethrasher.org

Phone: 304-624-4108

SO Doc Code: CEOI

SO Dept: 0603

SO Doc ID: ADJ2400000001

Published Date: 2/26/24

Close Date: 3/12/24

Close Time: 13:30

Status: Closed

Solicitation Description: WVARNG Emergency Water Storage Design EOI

Total of Header Attachments: 1

Total of All Attachments: 1



Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**State of West Virginia
 Solicitation Response**

Proc Folder: 1381833
Solicitation Description: WVARNG Emergency Water Storage Design EOI
Proc Type: Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2024-03-12 13:30	SR 0603 ESR03122400000004851	1

VENDOR
 000000204787
 THE THRASHER GROUP INC

Solicitation Number: CEOI 0603 ADJ2400000001
Total Bid: 0
Response Date: 2024-03-12
Response Time: 08:57:37
Comments: NA

FOR INFORMATION CONTACT THE BUYER

David H Pauline
 304-558-0067
 david.h.pauline@wv.gov

Vendor Signature X **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	WVARNG Emergency Water Storage Design EOI				0.00

Comm Code	Manufacturer	Specification	Model #
81101508			

Commodity Line Comments: NA

Extended Description:

Provide professional architectural and engineering design services per the attached documentation.



THRASHER

**WEST VIRGINIA
ARMY NATIONAL GUARD**
Emergency Water Storage Design
CEOI - ADJ2400000001

Submitted by:
The Thrasher Group, Inc.
March 12, 2024

March 12, 2024

Attn: Mr. David H. Pauline, Buyer
Adjutant Generals Office
1707 Coonskin Dr | Charleston, WV 25311
Via Email: david.h.pauline@wv.gov

RE: WVANG Emergency Water Storage Design
CEOI - ADJ2400000001

Dear Mr. Pauline and Members of the Selection Committee:

The West Virginia Army National Guard is in need of an emergency water tank at their Coonskin Drive facility in Charleston. This emergency supply will provide potable water in the event of an interruption to the facility's water service. With a project of this importance, it is vital that the National Guard have a team of professionals by their side who meet today's requirements while considering the needs of tomorrow. The Thrasher Group is the best firm for the job.

Thrasher has an extensive history of water storage tank projects throughout West Virginia — utility engineering has been the foundation of our firm since 1983. We have had the opportunity to work on water projects of all types and sizes across the state, giving us a wide breadth of expertise. Additionally, through our 2022 acquisition of Dunn Engineers, we have direct experience on this project as well. Members of our staff were involved in the preliminary study of the emergency water tank when the project was previously considered. This gives our staff an in-depth understanding of the many components involved in making this project a success, and we will work by your side every step of the way to make that happen. Whether it's choosing the right site for the tank or ensuring construction goes according to plan, Thrasher will be your partner throughout the process.

A key component in our ability to do so will be our location. Your Thrasher team will primarily be dispatched from our Charleston office, which is located just minutes away from the project site. This will make us available and easily accessible throughout the project, with the ability to regularly monitor progress.

We are proud to have completed a variety of projects for the West Virginia Army National Guard in the past and appreciate the opportunity to continue that partnership. We look forward to meeting with you to discuss your project needs further and show you how The Thrasher Group can support you now and in the future.

Sincerely,
The Thrasher Group, Inc.



Jonathan Carpenter, PE
Principal

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.

(Printed Name and Title) Jonathan Carpenter, PE - Principal

(Address) 1000 Corporate Landing | Charleston, WV 25311


(Phone Number) / (Fax Number) 304-343-7601 | 304-343-7604

(email address) JCarpenter@thethrashergroup.com

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 this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; 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.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

The Thrasher Group, Inc.

(Company) 

(Signature of Authorized Representative)

Jonathan Carpenter, PE - Principal 3/7/2024

(Printed Name and Title of Authorized Representative) (Date)

304-343-7601 | 304-343-7604

(Phone Number) (Fax Number)

JCarpenter@thethrashergroup.com

(Email Address)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: *CEOI - ADJ2400000001*

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 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

3/7/2024

Date

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

DEFINITIONS:

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

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

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

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that 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: 3/7/2024

State of West Virginia

County of Harrison, to-wit:

Taken, subscribed, and sworn to before me this 7 day of March, 2024.

My Commission expires July 7, 2024.



NOTARY PUBLIC 

Purchasing Affidavit (Revised 07/01/2012)



300+

EMPLOYEES

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

MAIN POINT OF CONTACT:

Jonathan Carpenter, PE
Principal
JCarpenter@thethrashergroup.com
Cell: 304-553-6429
Office: 304-343-7601



40+

YEARS

of delivering successful projects



7

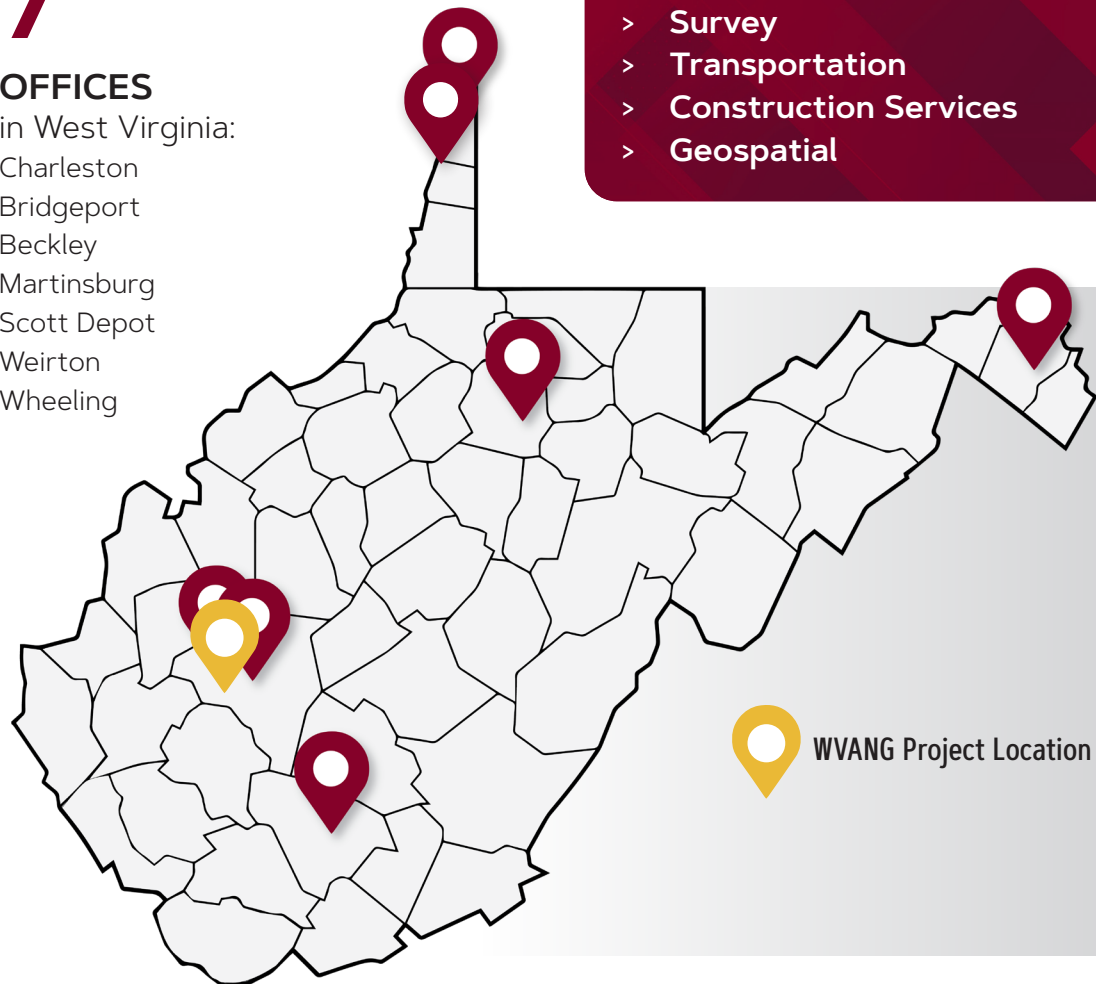
OFFICES

in West Virginia:

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

OUR SERVICES

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



NGE GEOTECHNICAL ENGINEERING SERVICES



NGE is a leading and recognized expert in the geotechnical engineering field. Our geotechnical practice combines senior geotechnical engineers with our in-house drill rigs and drilling staff to streamline geotechnical designs. Our team is experienced in characterizing subsurface conditions and predicting reactions to variable loading conditions. The benefits of utilizing our geotechnical engineering services often result in improved foundation design, fast-track construction time, lower project costs, and reduced delays. We are especially experienced and qualified in dealing with the types of geotechnical issues typically encountered in the Appalachian region.

SOME OF THE GEOTECHNICAL ENGINEERING SERVICES NGE PROVIDE INCLUDE:

- Commercial development geotechnical investigations and reports
- Shallow and deep foundation analysis
- Highway and bridge geotechnical studies
- Well pads and compressor stations geotechnical investigations
- Water storage tank investigations
- Freshwater and wastewater impoundment investigations
- Mine subsidence investigations
- Pile drivability studies
- Groundwater and seepage studies
- Slope stability studies
- Fill embankment analysis and design
- Cut slope analysis and design
- Retaining wall design
- Landslide investigations and remedial designs
- Laboratory soil testing
- Geotechnical instrumentation



NGECONSULTING.COM

CONTACTS:
GENE BROWN, P.E.
 Office #: (304) 201-5180
 Cell #: (304) 389-7865
 Email: gbrown@ngeconsulting.com

MIKE FRAME
 Office #: (304) 201-5180
 Cell #: (304) 993-5435
 Email: mframe@ngeconsulting.com

SAFETY STATS:



2018-2020 TRIR and DART = 0 / 2020-2021 EMR: OH 1.0 | PA.95 | WV .89

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 can meet each goal/objective you have outlined and feel strongly that you will be satisfied with the outcome.

We understand your goals for the emergency water containment at the WV Army National Guard Base in Charleston and will handle them in the following manner:

▶ GOAL/OBJECTIVE 2.1

Thrasher's staff has a long history of working on projects just like the WV Army National Guard's emergency water storage project. Our personnel are familiar with the many design directives and manuals involved and know how to apply the criteria to this specific type of project. This in-depth knowledge means we can be creative throughout the process to find the best ways to incorporate the most energy efficient, economical, and maintenance friendly equipment into our design. We will keep the WV Army National Guard apprised of progress, challenges, and opportunities throughout every project step.

▶ GOAL/OBJECTIVE 2.2

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. Thrasher will prepare a conceptual design for the needed services at the National Guard Base. Where applicable, we will also provide design alternatives for consideration by the WVANG. We will then prepare a written report of the conceptual designs and identify any potential issues.

▶ GOAL/OBJECTIVE 2.3

Our team will provide design solutions and construction documents to the appropriate personnel for the project. Based on the conceptual design report, these plans will be carried forward through the final design. Thrasher recognizes that you are requesting drawings and specifications at 35%, 65%, 95%, and 100% and will provide both drawings and cost estimates at those intervals. We will complete the final design documents based on comments received and conclusions throughout the design review process. Our field evaluations and design approach will specifically address these issues in the construction documents.

▶ GOAL/OBJECTIVE 2.4

Construction administration always plays a major role in the Thrasher full-services package. We feel this is important to offer for every project, to ensure our clients are getting a well constructed projects. We consistently bid more projects than any other firm in the state and contractors are familiar with our work product. Thrasher has the competent professionals your team needs to ensure your project is constructed correctly and functions as designed.

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

Step 1 - Site Visit

As mentioned - and to help meet Goal 2.2 - our project will begin with a site visit. Our team of engineers and technicians will visit the facility to 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 design for the needed services at the National Guard Base. Where applicable, we will also provide design alternatives for consideration by the WVANG. 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. Based on the conceptual design report, these plans will be carried forward to the final design. Thrasher recognizes that you are requesting drawings and specifications at 35%, 65%, 95%, and 100%, and we will provide both drawings and cost estimates at those intervals. We will complete the final design documents based on comments received and conclusions throughout the design review process.

Our field evaluations and design approach will specifically address these issues in the construction documents.

Step 4 - Cost Estimates

Thrasher recognizes that you are requesting drawings and specifications at 35%, 65%, 95%, and 100% and will provide both drawings and cost estimates at those intervals.

Step 6 - Bid Process

We will assist the WVANG in preparing the bid documents, attending pre-bid meetings, and assisting in issuing addenda.

Step 7 - Construction Administration

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

Thrasher will also develop a program to keep the WVANG 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 the environment.

Step 8 - 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 WVANG and any appropriate personnel as needed.



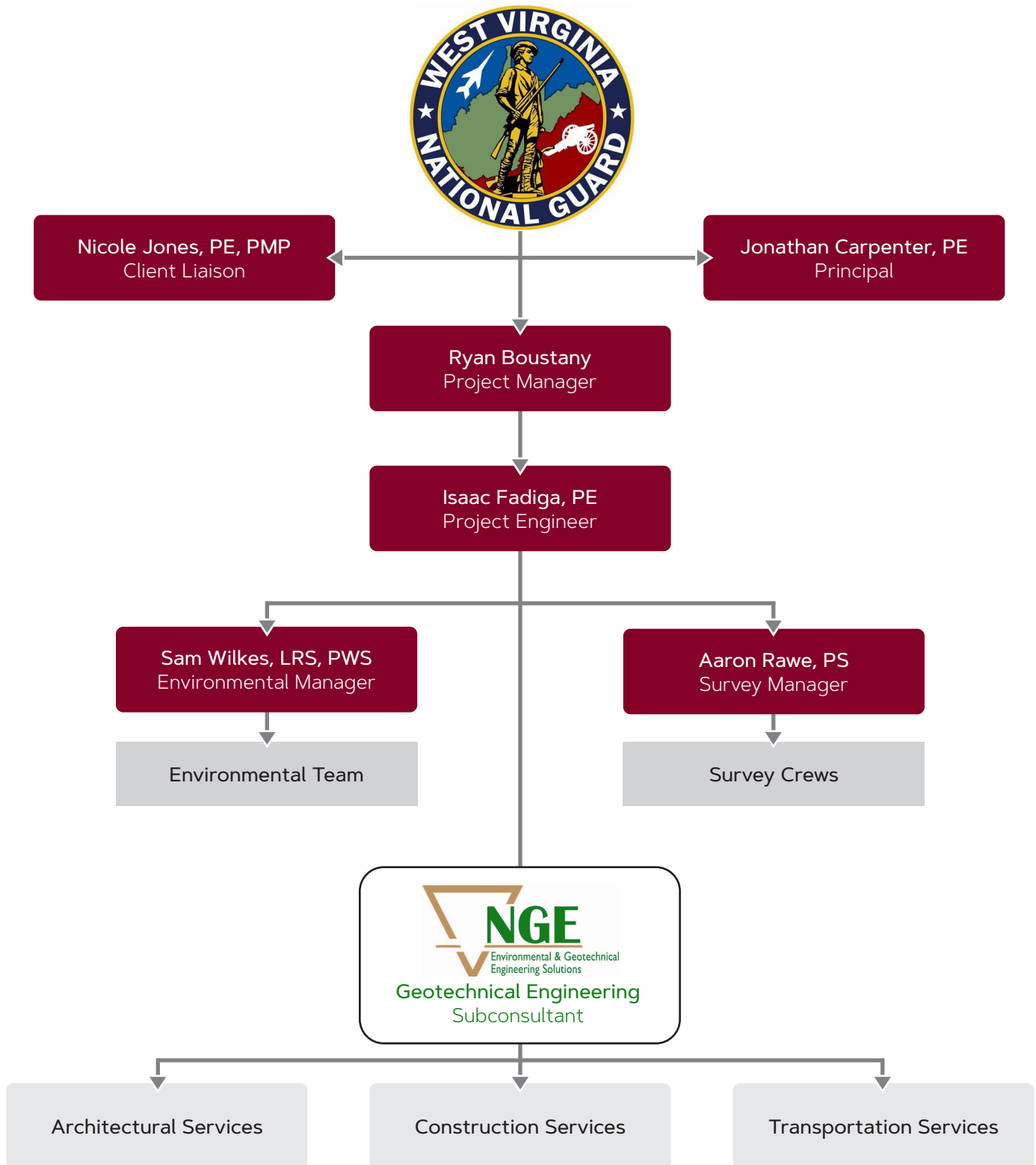
WATER TREATMENT AND DISTRIBUTION

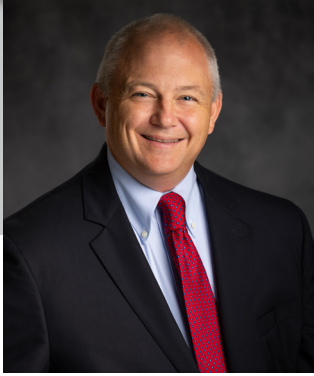
Meeting increasingly stringent water quality standards demands experienced and dedicated water system specialists. Since our very first water project more than 40 years ago, there has always been a potable water project underway at Thrasher. These projects provide safe drinking water to towns, cities, 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:

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





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, West Virginia 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 20 years, and brings an unsurpassed expertise to the company, particularly as it relates to the design of water and wastewater treatment facilities in areas.

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

Craigsville Public Service District Water Tank Painting
Principal | Nicholas County, WV

Lincoln Public Service District Alum Creek Water Storage Tank Repair and New Tank
Principal | Lincoln County, WV

City of Kenova/Tri-State Airport Water Line Extension
Project Manager | Wayne County, WV

Greenbrier County Public Service District #2 Tank Painting
Principal | Greenbrier County, WV

Mingo County Public Service District Water Storage Tanks
Project Manager | Mingo County, WV

City of Weirton Gallon Hydropillar Water Storage Tank and Water Line Replacement Project
Principal/Project Manager | Hancock County, WV

Camp Dawson Facility Spill Prevention Control Countermeasure Plan
Principal | Preston County, WV

Parkersburg Army Aviation Support Facility #1 NPDES Industrial Stormwater Permitting
Project Manager | Wood County, WV

Wheeling Army Aviation Support Facility #2 Storm Water Pollution Prevention Plan
Project Manager | Ohio County, WV

JONATHAN CARPENTER, PE

PRINCIPAL

Name:	JONATHAN C. CARPENTER
WV Professional Engineer:	PE License Number: [REDACTED]
	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:	[REDACTED]
Primary Employer of Record:	THE THRASHER GROUP, INC. 300 ASSOCIATION DRIVE CHARLESTON, WV 25311



NICOLE JONES, PE, PMP

CLIENT LIAISON

Education

Bachelor of Science,
Civil Engineering
West Virginia University

Registrations

Professional Engineer:

> West Virginia

Project Manager Professional

Affiliations

- > Leadership Monongalia County
- > American Association of
Airport Executives Member
- > Women in Aviation International
Member

PROFESSIONAL OVERVIEW

Nicole Jones, PE, PMP, is an integral member of Thrasher's Land Development and Transportation Markets. She is experienced as a Project Engineer and Project Manager for a variety of client types. Nicole has worked alongside Thrasher's team of talented engineers and support staff to design several million dollars' worth of critical infrastructure upgrades over the years. Her projects have served both public and private clients, ranging from state highway systems and regional airports to municipalities and large-scale developers.

Nicole has made aviation one of the main focus's of her career giving her an unparalleled understanding of the permitting and regulatory hurdles that accompany this type of work has enabled Nicole to guide her clients through the design of safe and sustainable projects on and around an airfield. Her history working with the WV Army National Guard will prove beneficial to the Thrasher team, and help bring success to this and future projects.

EXPERIENCE

**West Virginia Army National Guard
Williamstown Facility Apron Rehabilitation**
Project Manager | Wood County, WV

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

Yeager Airport Terminal Security Enhancements
Project Manager | Kanawha County, WV

Yeager Airport Terminal Roof Rehabilitation Phase I
Project Manager | Kanawha County, WV

North Central West Virginia Airport Ramp Rehabilitation
Project Manager | Harrison County, WV

Yeager Airport Security Enhancements
Project Manager | Kanawha County, WV

North Central West Virginia Airport Industrial Park
Project Manager | Harrison County, WV

Yeager Airport Rental Counter Renovations
Project Manager | Kanawha County, WV

Raleigh County Memorial Airport Via Air Maintenance Facility
Project Manager | Raleigh County, WV

North Central West Virginia Airport Storage Building
Project Manager | Harrison County, WV

NICOLE JONES, PE, PMP

CLIENT LIAISON

Name:	NICOLE M. JONES
WV Professional Engineer:	PE License Number: [REDACTED]
	PE License Status: Active
	PE Issue Date: 06/15/2015
	PE Expiration Date: 12/31/2024
Continuing Education Claim:	Qualifying Hours from Last Renewal or Reinstatement: 30.50
	Carryover Hours for Next Renewal: 0.50
	Last Renewal or Reinstatement Date*: 11/30/2022
WV Engineer Intern:	EI Certification Number: 9210
	EI Issue Date: 07/26/2010
Primary Address of Record:	[REDACTED]
Primary Employer of Record:	THE THRASHER GROUP, INC.
	<p>* 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.</p>



RYAN BOUSTANY

PROJECT MANAGER

Education

Bachelor of Science,
Business Administration
West Virginia University

Bachelor of Science,
Civil Engineering
West Virginia University

PROFESSIONAL OVERVIEW

Ryan Boustany brings outstanding technical knowledge and client service to every project in which he is involved. As a Project Manager specializing in public utilities, Ryan works on a wide variety of projects including water and wastewater line extensions, rehabilitations, lift station designs, and water treatment facilities.

Ryan has been at Thrasher for more than a decade. Early in his career, he worked in environmental services, conducting various field tests. This experience gave him thorough knowledge of DEP and EPA regulatory requirements. He also performed above ground tank inspections, and as a result, is skilled at developing spill prevention control and countermeasure reports. His practical knowledge of state and federal regulations allows him to work efficiently and effectively.

He is constantly seeking the latest news, methods, and technology regarding public utilities, so he can better assist his clients and his team at Thrasher.

EXPERIENCE

**Lincoln Public Service District Alum Creek
Water Storage Tank Repair and New Tank**
Project Manager | Lincoln County, WV

Cowen Public Service District Multiple Tank Repairs
Project Manger | Webster County, WV

Craigsville Public Service District Water Tank Painting
Project Manager | Nicholas County, WV

Greenbrier County Public Service District #2 Tank Painting
Project Manager | Greenbrier County, WV

**Weirton Area Water Board
Sky View Water Storage Tank Rehabilitation Project**
Project Engineer | Hancock County, WV

**Parkersburg Army Aviation Support Facility #1
NPDES Industrial Stormwater Permitting**
Project Engineer | Wood County, WV

**Wheeling Army Aviation Support Facility #2
NPDES Industrial Stormwater Permitting**
Project Engineer | Ohio County, WV

**Camp Dawson Facility
Spill Prevention Control and Countermeasure Plan**
Project Engineer | Preston County, WV



ISAAC FADIGA, PE

PROJECT ENGINEER

Education

Bachelor of Science,
Engineering (Civil Emphasis)
Marshall University

Registrations

Professional Engineer:
> West Virginia

Affiliations

> Leadership Putnam County
> Leadership Kanawha Valley

PROFESSIONAL OVERVIEW

Isaac Fadiga, PE, brings an impressive technical skill set to Thrasher's Water Resources Market. In his role as a Project Engineer, Isaac has been a part of numerous potable water, sanitary sewer, and stormwater projects across the region. He works directly with Thrasher's team of talented engineers to prepare and review preliminary engineering reports, asset management plans, permitting, and various funding applications.

His understanding of public utility infrastructure has enabled him to work with an array of funding and regulatory agencies to deliver clients technically sound projects within stringent budgets. Specifically, Isaac's experience includes working with the WVDOH, the Bureau of Public Health, Department of Environmental Protection, and National Pollutant Discharge Elimination System.

As part of his daily duties, Isaac spends much of his time providing design edits for the engineering staff and comparing desktop data to that collected in the field, creating specifications for the construction of piping, pump stations, and treatment plants. He also has experience working on inflow and infiltration projects.

EXPERIENCE

**Lincoln Public Service District Alum Creek
Water Storage Tank Repair and New Tank**
Project Engineer | Lincoln County, WV

Cowen Public Service District Multiple Tank Repairs
Project Engineer | Webster County, WV

Craigsville Public Service District Water Tank Painting
Project Engineer | Nicholas County, WV

Greenbrier County Public Service District #2 Tank Painting
Project Engineer | Greenbrier County, WV

Lincoln Public Service District Water System Improvements
Project Engineer | Lincoln County, WV

Town of Meadow Bridge Water Line Rehabilitation and Extension
Project Engineer | Fayette County, WV

**Page-Kincaid Public Service District
Water Treatment Plant Rehabilitation**
Project Engineer | Fayette County, WV

ISAAC FADIGA, PE

PROJECT ENGINEER

Name:	ISAAC SHELEM FADIGA
WV Professional Engineer:	PE License Number: [REDACTED]
	PE License Status: Active
	PE Issue Date: 08/09/2022
	PE Expiration Date: 12/31/2024
Continuing Education Claim:	Qualifying Hours from Last Renewal or Reinstatement: 0.00
	Carryover Hours for Next Renewal: 0.00
	Last Renewal or Reinstatement Date*: 11/30/2022
WV Engineer Intern:	EI Certification Number: 10233
	EI Issue Date: 09/05/2018
Primary Address of Record:	[REDACTED]
Primary Employer of Record:	THE THRASHER GROUP, INC.



SAM WILKES, LRS, PWS

ENVIRONMENTAL MANAGER

Education

Master of Science
Environmental Science & Policy
Johns Hopkins University

Bachelor of Science,
Earth & Environmental Science
Wilkes University

Registrations

- > Professional Wetland Scientist
- > Licensed Remediation Specialist

Affiliations

- > Society of Wetland Scientists

PROFESSIONAL OVERVIEW

Sam Wilkes, LRS, PWS, is an Environmental Project Manager within Thrasher's Land Development Market. He is a Professional Wetland Scientist and a WVDEP certified Licensed Remediation Specialist. He brings over 23 years of consulting experience as a project manager and senior environmental scientist, providing technical support to watershed management, restoration, natural resource conservation, and hazardous materials programs. Sam is experienced at providing project oversight and managing field teams and contractors collecting wetland, stream quality, environmental media data, and general site condition data for site characterization. He regularly interacts with his clients and manages project budgets and staffing plans, while providing quality control review of project deliverables. He understands the importance of delivering projects on time and providing a proactive management style to his clients.

EXPERIENCE

WVDOH NEPA Re-Evaluation Inwood Bypass

Project Manager | Roane County, WV

WVDOH NEPA Study Col. Ruby Bradley Bridge

Project Manager | Roane County, WV

WVDOH Black Betsy Phase I Cultural Resources Archaeology Study

Project Manager | Putnam County, WV

Cabin Creek Healthcare System NEPA Environmental Assessment

Project Manager | Kanawha County, WV

WV State University NEPA Environmental Assessment

Project Manager | Kanawha County, WV

West Virginia Total Maximum Daily Load Development

Environmental Consultant | Various Counties, WV

Kanawha County School Board

Environmental Consultant | Kanawha County, WV

Kanawha County Regional Transportation Authority

Environmental Project Manager | Kanawha County, WV

Coalfield Development Corporation Black Diamond Property WVVRP Site Remediation

Environmental Project Manager | Cabell County, WV

Huntington Municipal Development Authority ACF Development

Environmental Manager | Cabell County, WV

SAM WILKES, LRS, PWS

ENVIRONMENTAL MANAGER

Renewal



West Virginia Department of Environmental Protection

WILKES, SAMUEL PETER
Licensed Remediation Specialist

Registration Number: ■

Director, Division of Land Restoration

10/01/2022 - 09/30/2024

Date Issued - Date Expires



Society of Wetland Scientists
Professional Certification Program, Inc

renews the designation

Senior Professional Wetland Scientist

For

Samuel P. Wilkes

In recognition of all the professional requirements approved by the Society of Wetland Scientists Certification
Renewal Program, and verified by the Society's Certification Renewal Review Panel.
Professional Wetland Scientist Number ■ issued on 7/23/2003 and recertified on 7/17/2023.
Due to recertify again by 7/23/2028.



Rob McInnes, PWS
President

Pat Frost, PWS
Certification Renewal Chair



AARON RAWE, PS

SURVEY MANAGER

Education

Associates of Science,
Surveying Technology
Glennville State College

Registrations

Professional Surveyor:

- > West Virginia
- > Kentucky

Affiliations

- > West Virginia Society of Professional Surveyors
- > WV Army National Guard

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.

EXPERIENCE

Lincoln Public Service District Alum Creek Water Storage Tank Repair and New Tank
Survey Manager | Lincoln County, WV

Craigsville Public Service District Water Tank Painting
Survey Manager | Nicholas County, WV

Town of Union Pickaway Water Line Replacement
Survey Manager | Monroe County, WV

Camden on Gauley Water Works Water Line Extension
Survey Manager | Webster County, WV

City of Richwood Intake Impoundments
Survey Manager | Nicholas County, WV

Mason County Public Service District Water Line Extension J2Y35
Survey Manager | Mason County, WV

Town of Romney Water System Improvements
Survey Manager | Hampshire County, WV

Twin City Water and Sewer District East 1st Street Project
Survey Manager | Tuscarawas County, OH

City of McMechen Water System Improvements
Survey Manager | Marshall County, WV

AARON RAWE, PS

SURVEY MANAGER

<p>2024 WEST VIRGINIA PROFESSIONAL SURVEYOR 2024</p> <p>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</p>		
<p>AARON J. RAWE P.S. [REDACTED]</p>		
<p>Board Members</p> <p>Sefton Stewart, PS, Chairman Tom Rayburn, PS, Secretary Gary Facemyer, PE, PS Lantz Rankin, PS Douglas McElwee, Esq.</p>	<p>Issued 07/01/2023</p> <p><i>[Signature]</i></p>	<p>Expires 06/30/2024</p> <p><i>[Signature]</i></p> <p><small>Executive Director Amber Shawver Legg</small></p>
<p>2024</p> <p>State of West Virginia Board of Professional Surveyors</p> <p>AARON J. RAWE P.S.LIC. [REDACTED]</p> <p>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</p> <p>Expires: 06/30/2024</p>		<p>State of West Virginia Board of Professional Surveyors 1124 Smith Street, Suite 1200 Charleston, WV 25301</p> <p>Phone (304) 558-0350 Fax (304) 558-0352</p> <p>Website: www.wvbps.wv.gov Email: wvbps@wv.gov</p>



GENE BROWN, PE, LRS

GEOTECHNICAL ENGINEER

Education

Bachelor of Science
Civil Engineering Technology
Bluefield State College

Bachelor of Science
Architectural Engineering
Technology
Bluefield State College

Registrations

Professional Engineer:

- > West Virginia
- > Licensed Remediation Specialist



PROFESSIONAL OVERVIEW

Dencil (Gene) Brown, PE, LRS, has served as Project Engineer on numerous projects for clients in private industry as well as for state and federal agencies. He has performed a variety of roles in various projects from office management activities to coordination of field activities. Duties on these projects have included foundation investigation report production, slope stability analysis, dam analysis, AutoCAD drafting, supervision of subsurface drilling programs, field activity coordination, environmental site assessments, operation and maintenance of groundwater extraction and remediation systems, structural inspections, GPS and conventional surveys, laboratory data computation and processing, performance of fieldwork, client relations, and supervision of staff.

EXPERIENCE

Mid-Ohio Valley Airport Taxiway Improvements

Project Manager | Wood County, WV

Provided construction monitoring and inspection of the Mid-Ohio Valley Airport project. The project consisted of improvements to taxiways for an existing airport. Construction monitoring and inspection was performed for the project. Construction monitoring and inspection included verification of testing of materials in accordance with project specifications and verification/monitoring of compaction testing.

West Virginia Ordnance Works O&M

Project Manager | Mason County, WV

NGE was responsible for O&M of the OU-4 groundwater extraction and treatment system for a period of five years as part of the remedial effort associated with this former NPL site which manufactured explosives during WWII. During the operational period, NGE maintained the treatment buildings in a clean condition, replace treatment system parts, as required, and recommend and implement system adjustments to assure that the treated effluent meets the State of West Virginia water quality discharge requirements that are attached to the facility's Performance Work Statement.

Landslide Remediation

Project Manager | Wetzel County, WV

The primary objective of the project was to stabilize the roadway and protect it from further damage in the current slip area. Based on the results of the test borings and geotechnical assessment, the most economical and effective means of stabilizing the roadway was to construct a retaining wall near the edge of the road. Therefore, we designed a drilled pile retaining wall for this site. The retaining wall design included drawings and specification suitable for construction.

GENE BROWN, PE, LRS

GEOTECHNICAL ENGINEER

Search: Details

Name:	DENCIL E. BROWN, JR		
WV Professional Engineer:	PE License Number: [REDACTED]		
	PE License Status: Active		
	PE Issue Date: 12/18/2008		
	PE Expiration Date: 12/31/2024		
Continuing Education Claim:	Qualifying Hours from Last Renewal or Reinstatement: 39.50		
	Carryover Hours for Next Renewal: 9.50		
	Last Renewal or Reinstatement Date*: 12/28/2022		
WV Engineer Intern:	EI Certification Number: 8273		
	EI Issue Date: 07/01/2004		
Primary Address of Record:	[REDACTED]		
Primary Employer of Record:	NOVEL GEO-ENVIRONMENTAL, INC. (DBA NGE)		
	<table border="1"> <tr> <td style="width: 20px; text-align: center;">*</td> <td>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.</td> </tr> </table>	*	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.
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This data was retrieved on 1/31/2024.



**CRAIGSVILLE
PUBLIC SERVICE DISTRICT**
Water System Improvements

Client Contact:

Mr. Gary Robinson, General Manager
18740 Webster Road | Craigsville, WV 26250
304-742-5280

Thrasher completed a nearly \$2 million water line extension project for the Craigsville Public Service District now serving almost 100 new customers. This USDA and AML-funded project ultimately eliminated a community cistern in Tioga and extended potable water and fire protection to the new customer base.

Thrasher’s team worked hard to maximize Craigsville’s money and saved enough money on the extension project to help them purchase equipment and trucks and complete various improvements, such as repainting at another tank owned by the PSD. Through innovative funding and design, we were able to deliver the client these additional assets at no extra fee to the water customers.

Thrasher is currently designing improvements for their water system including water treatment plant upgrades, water transmission mains, and additional water storage improvements.



GREENBRIER PUBLIC SERVICE DISTRICT #2 Sam Black Church Water Line Extension and Tank Painting

Client Contact:

Mr. Kevin Williams, Manager
PO Box 673 | Rainelle, WV 25962
304-438-9283

The Thrasher team designed the existing treatment facility's water, distribution, storage, and upgrades. Thrasher also was responsible for preparing plans, specifications, and contract documents and performing inspection services during construction.

An engineering agreement was signed with the Greenbrier PSD #2 to provide Study and Report Phase Services for expanding public water service to the communities along I-64/US Route 60. This included, but was not limited to, Crawley, Sawver's Crossing, and Sam Black Church.

This study consisted of preparing a feasibility study and preliminary engineering report to provide design and construction services for public water service provision in and around the aforementioned areas of Greenbrier County. Once funding is secured, preparation of specifications and design for the water system extension, preparation of bidding and contracting documents, participation in the evaluation of bids received and monitoring and inspection of construction activities will be performed.

The scope of the project includes the preparation of Preliminary Design Phase documents, which consist of final design criteria, preliminary drawings and specifications, written descriptions of the Project, and the provision of necessary field surveys and topographic and utility mapping for design purposes. Utility mapping will be based on information obtained from utility owners.

Thrasher was able to maximize and manage construction dollars throughout the construction of the project, leaving the public service district with additional funds and allowing Crichton and Orient Hill water tanks to be improved through repainting at no additional cost to the District.



COWEN PUBLIC SERVICE DISTRICT Water System Rehabilitation

Client Contact:

Mr. Jim Gamble, Chairman of the Board
P.O. Box 457 | Cowen, WV 26206
304-226-3722

The Cowen Public Service District has been experiencing a significant water loss of 50.81% due to the deterioration of its existing water distribution system. Cowen retained Thrasher to prepare a preliminary engineering report to develop a phased approach to reduce the total amount of unaccounted-for water, engineering design to develop construction drawings, and construction services to assist Cowen during the project's construction.

Thrasher presented Cowen with a Capital Improvements Project consisting of a four-phase approach to reduce the unaccounted-for water loss and various upgrades to the existing water treatment plant.

Thrasher completed the project's first phase, replacing approximately 8,000 linear feet of existing water line, 15 gate valves, and about 1,130 water meters throughout Cowen's water distribution system. Upon completion of the first phase, Cowen's unaccounted-for water loss was reduced to 32.93%. Currently, Cowen is under construction on the second phase of the CAP, which consists of the replacement of approximately 40,000 linear feet of existing water line, 35 gate valves, upgrades to two existing booster stations, and the rehabilitation of a 105,000-gallon nursing home water tank and the 300,000-gallon Cowen water tank. The third phase of the CAP project was funded, and construction was completed by November 2023.





**LINCOLN COUNTY
PUBLIC SERVICE DISTRICT**
Alum Creek Water Tank

Client Contact:

Ms. Karan May, Board Chair
240 Little Coal River Road
Alum Creek, WV 25003
304-756-2520

The Lincoln Public Service District retained Thrasher's engineering and field services to assist them in repairing the leaking Alum Creek Water Tank. Like many rural utilities, the Lincoln Public Service District's aging water distribution system needed upgrades. Their main water storage tank in Alum Creek had been springing various leaks over the years, and in 2020, the tank foundation began leaking. Lincoln retained Thrasher to analyze the issues with the tank and come up with a solution. Thrasher worked with the Infrastructure and Jobs Development Council to obtain money through their Critical Needs program and repair the tank. The tank was drained, structural cement was pumped to fill the voids under the tank floor, and a new bottom was welded. The tank was then stripped and repainted. While this was not a long-term solution, the tank is still operating and not leaking. In looking to the future, while the tank was being repaired, Thrasher prepared and submitted a preliminary engineering report to develop a project and acquire funding to construct a new 265,000-gallon tank. Funding was acquired, and a new tank is in the final stages of construction.



Cost control and QA/QC Methods

Thrasher follows four main cost control principles:

Thorough construction documents - Starting off with detailed construction documents helps the entire project run more smoothly. By laying an accurate, realistic picture at the beginning of the process, we are able to complete your project more efficiently and with fewer change orders.

In-depth review process - The Thrasher team participates in an in-depth review process to ensure there is a thorough understanding of your project. Our construction administration team visits your site in person so we know exactly what is needed for the space.

Understanding of what things cost - Thrasher has a knowledgeable construction administration team that understands what it truly costs to make things happen. Rather than relying on general industry standards, our in-house professionals, can tell you what something will cost in actuality if the need arises.

Respect for your wallet - We respect your business needs and work to ensure the lowest-cost options we can find. We also keep you updated of budget throughout the process: an initial construction cost will be calculated to reflect your budget, and construction cost estimates will be delivered with the drawings at the end of Schematic Design, Design Development, and Construction Documentation. Adjustments to size and/or quality will be made, as necessary, during each design phase to maintain your budget.

Our internal Quality Control Policy is in place 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

City of Smithers

Ms. Anne Cavalier, Mayor
PO Box 489
Smithers, WV 25186
304-442-5282

Cowen Public Service District

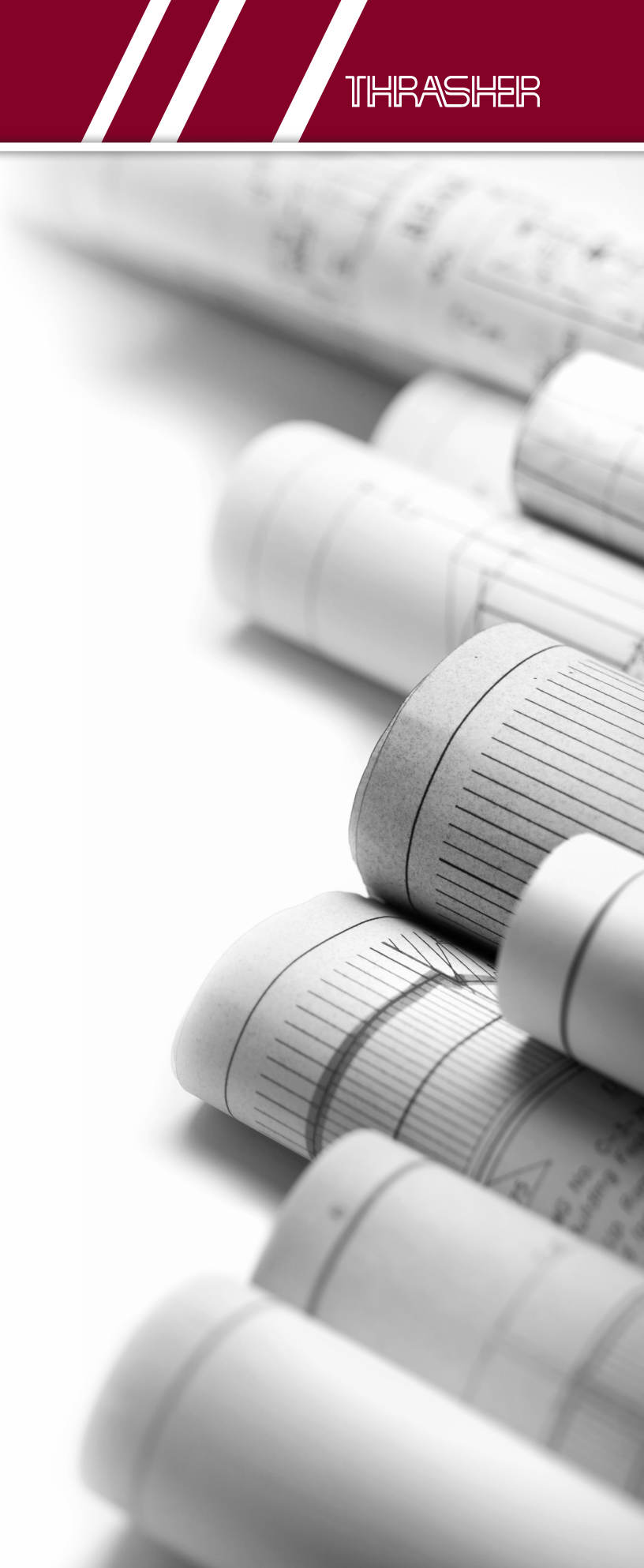
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THRASHER