

THRASHER

ARCHITECTURE | ENGINEERING | FIELD SERVICES

LAKE (BELL) PORTALS

CEOI 0313 DEP1900000003

Submitted by:
The Thrasher Group, Inc.
September 12, 2018

RECEIVED

2018 SEP 12 AM 8:57

WV PURCHASING
DIVISION





ENGINEERING
ARCHITECTURE
FIELD SERVICES

September 12, 2018

Attn: Brittany Ingraham, Senior Buyer
2019 Washington Street East
Charleston, WV 25305

RE: EOI - Lake (Bell) Portals - DEP 1900000003

Dear Ms. Ingraham and selection committee members:

The Thrasher Group, Inc. is pleased to present our qualifications to the West Virginia Department of Environmental Protection (DEP) for the Lake Bell Portals project. As a West Virginia-based company that has been serving the state for 35 years, we take pride in projects that so clearly improve the landscape and restore the beauty of the Mountain State.

Since our roots are here, many of our employees have deep connections to the state, including Logan County. Several of our staff members are from Logan and the surrounding area, and have a deep knowledge and understanding of what is important in that region. They recognize the role coal has played here, as well as the importance of safely restoring past coal sites for future prosperity.

Our team appreciates the opportunity to partner with the people of Logan County to undertake this community project and further beautify a wonderful part of the state. We look forward to speaking with you about this project and answering any questions you may have.

Sincerely,
THE THRASHER GROUP, INC.

RJ Hovatter, PE
Project Manager

MISSION

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

VISION

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

CORE PRINCIPLES

Quality
Safety
Adaptability
Integrity



35

YEARS
of delivering
successful
projects



580

EMPLOYEES

34 Licensed
Professional Engineers

20 Licensed
Professional Surveyors

6 Licensed
Professional Architects



9

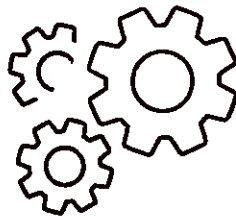
OFFICES
in six states:

West Virginia
Virginia
Pennsylvania
Ohio
Maryland
Kentucky

Main Point of Contact

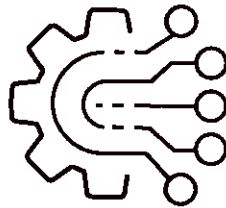
RJ Hovatter, PE
Project Manager
rhovatter@thethrashergroup.com
Cell: 304-669-6848
Office: 304-205-8809





SERVICES

- > Environmental
- > Survey
- > Engineering
- > Architecture
- > Materials Testing and Inspection
- > Construction Administration and Monitoring
- > Planning
- > Funding Direction and Application Assistance
- > Cost Estimating



CORE MARKETS

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



CIVIL ENGINEERING

Water Treatment & Distribution

Thrasher brings experience, practical knowledge and advanced z to clients ranging from regional to small communities water systems. Our engineers have designed and managed the construction of hundreds of miles of water distribution lines, millions of gallons of storage, and numerous system rehabilitations that successfully reduced water loss and increased reliability.

Wastewater Collection & Treatment

Wastewater collection and treatment systems are vital to the health of rural communities and municipalities. Cost-versus-benefit Environmental, and technological issues are all involved

Stormwater Systems

Thrasher is prepared to take on challenges to make your stormwater management project a success. In the not so distant past, storm water management was not a significant issue. It was "out of sight, out of mind." That is no longer the case. Ever-increasing regulations, the creation of public storm water utilities, and the focus on downstream effects of development are pushing stormwater management issues to the forefront.

Site Development

Engineering for site development is far from a "one size fits all" approach. Every project is unique and requires a blend of technical expertise combined with quality planning principles, efficient design, market realities, and flexibility to seize opportunities. With our diverse staff, Thrasher has the right blend of talent to make your project a success.

Roadways & Bridges

From industries to local families, the nation depends on the strength of highways, bridges, and even pedestrian walkways. No matter what the mode of land transportation, Thrasher gets our clients where they want to be.



ENVIRONMENTAL SERVICES

In today's ever-changing regulatory landscape, compliance with federal and state environmental laws is critical to the success of projects. Compliance can often seem at odds with the project vision and financial constraints. The Thrasher team partners as a technical and regulatory advocate to overcome obstacles and guide our clients through complicated policies to achieve their goals. From initial investigations to final design, our environmental experts are there to assist in all facets of our clients' projects. Our team has developed relationships with academic consultants from multiple universities that are here to aid in specialized assessments.

Environmental Services:

- > All Appropriate Inquiry (AAI)
- > Environmental Site Assessments
- > NEPA Compliance for Publicly Funded Projects
- > Ecological Studies
- > Brownfield Redevelopment
- > Industrial Hygiene and Demolition Planning
- > Underground Storage Tank (UST) Consulting Services
- > Wetland Delineation, Design, and Mitigation
- > Remediation Investigation, Feasibility Studies and Design
- > Hydrogeologic and Geologic Investigations
- > Groundwater Monitoring
- > Sampling and Laboratory Analysis
- > Solid and Hazardous Waste Management
- > SPCC, GPP, SWPPP, GWPP, SWPPP Environmental Compliance
- > Stream Assessments, Design, and Mitigation
- > Erosion and Sediment Control Plans
- > Voluntary Remediation Program
- > Uniform Environmental
- > Covenants Act
- > CERCLA Preliminary Assessment
- > CERCLA Site Investigation



SITE DEVELOPMENT

Engineering for site development is far from a "one size fits all" approach. Every project is unique and requires a blend of technical expertise, planning principals, efficient design, market realities, and the flexibility to seize opportunities. With our diverse staff, Thrasher has a winning combination of talent to take projects from design to reality.

At Thrasher, we understand that the design of a successful site development project must factor in economic landscape, political implications, and strategic planning that takes projects beyond engineering. The Thrasher team possesses expertise in every facet of development including site selection and planning, grading, storm water management, erosion and sediment control, permitting, and infrastructure design.

We pride ourselves on being a partner in projects that improve the quality of life for residents and provide economic sustainability to communities.

Site Development Expertise:

- > Industrial and Business Parks
- > Mixed-Use Developments
- > Athletic Facilities
- > Federal Correctional Facilities
- > Streetscapes and Sidewalk Planning
- > Commercial Developments
- > Single and Multi-Family Residential Development
- > Primary, Secondary, and Higher Education Facilities
- > Recreational Resorts and Guest Lodging
- > Shopping Plazas



STORMWATER SYSTEMS

Ever-increasing regulations and a renewed focus on downstream effects are pushing stormwater management issues to the forefront. Working with an experienced stormwater consultant like Thrasher gives municipalities and private clients innovative and cost-effective solutions to stormwater management issues.

Our complete system approach means that we gain a full understanding of our clients' needs and can incorporate specialized project management expertise to achieve a smooth, seamless design. Thrasher has a long and successful history of working with public utility clients and private developers to find sustainable and innovative solutions to stormwater management issues.

One of the prime objectives of soil stabilization is to improve on-site materials to create a solid and strong sub-base and base courses. Stabilized subgrades are more resistant to environmental stressors and requires less maintenance over the life cycle of your construction project.

Stormwater Management Skills:

- > Municipal Separate Storm Sewer Systems (MS4) Consulting and Compliance
- > Design of Pipeline, Channels and Culverts
- > Detention Pond Design
- > Erosion and Sediment Control Plans
- > Underground Storage/Injection Wells
- > NPDES Permitting and Compliance
- > Watershed and Flood Studies
- > HEC-RAS Stream Modeling
- > Best Management Practices (BMP) Evaluation and Design
- > Geographic Information Systems (GIS)
- > Bio-Retention Systems



SURVEY AND MAPPING SERVICES

Thrasher employs one of the largest survey departments in the Mid-Atlantic region and offers a wide range of land surveying and related services for federal, state, and private clients. We are committed to evolving our techniques and equipment to best serve our clients and their growing needs.

At Thrasher, we are able to provide both surveying and engineering services which provide a distinct advantage over survey-only companies. The combination of these two services provide our surveyors with a better understanding of what engineers and architects require to develop an appropriate design for different types of projects. Our field and survey personnel offer extensive experience, certified training, and flexibility to meet our clients' unique project schedules.

Route Location Surveys:

- > Transmission Lines
- > Natural Gas Pipelines
- > Wind Turbine
- > Roadway, Railway, and Rec Trails

GPS Surveys:

- > Geodetic Control Networks
- > Ground Control for Aerial Mapping
- > Telecommunications
- > FAA 1A and 2C Letters

General Survey Services:

- > Large-Scale Boundary Work
- > Topographic Survey and Mapping
- > ALTA/ACSM Survey and Mapping
- > Lake and River Soundings
- > Accident Reconstruction Survey & Mapping
- > Drug-free Zone Mapping
- > Expert Witness Testimony
- > Construction Layout
- > Permanent Project GPS Base Stations
- > Building Control and Layout
- > Road/Bridge Alignment and Staking
- > Sewer/Water/Pipeline
- > Site Layout
- > Quality Assurance Surveying
- > Volume/Quantity Surveys
- > As-Built Surveys

Coal and Energy Surveys:

- > Pre and Post Mining Blast Surveys
- > Water Quality Monitoring Plan
- > Construction Layout
- > Emergency Control Survey/Plans

Thrasher is a statewide, full-service group with the experience and ability to work on complex-natured projects and the necessary environmental capabilities to handle the Williams landslide. To make sure your project is completed successfully, Thrasher follows the approach outlined below:

Project Inception: Thrasher not only takes the time to understand the scope of work, but takes the time to understand other issues that may arise while executing your project. We attend various meetings to provide progress updates, listen to the constituents and their concerns, and focus on ways to address them to ensure everyone is working together.

Availability: Thrasher has a unique advantage because of our strategically placed office locations throughout the state of West Virginia. Our team has the capability to respond quickly and effectively to meet client needs as they arise, including emergency situations that allow very little notice.

Addressing Each Project: Every project has unique issues and needs. We take an individualized approach to ensure those needs are being met to the fullest of our capability. As each project arises, it will be assessed and broken down into manageable phases laid out as a roadmap to success.

Coordination/Communication: Your project manager, RJ Hovatter, will serve as your main point of contact for this project. Initial support will begin with consistent communications and internal Thrasher Quality Control processes (site surveys, stakeholder reviews, comment resolution, etc.). RJ will also be in constant contact with members of the West Virginia Land Stewardship Corporation in order to maintain transparency during the process.

Sealing of Portals: Thrasher has developed plans for dozens of wet and modified mine seals for AML projects, including bat gate mine seals.

Sink Hole Repair: Shallow mine voids cause sink holes that divert natural streams underground. Thrasher evaluates each site and develops a plan to backfill the voids, thereby reestablishing the original property.

Drainage Design: All of the AML projects completed by Thrasher have required design of drainage structures, like the Williams Landslide. In the past, these have included vegetated, grouted, rip-rap channels, as well as culverts and storm sewers. Drainage calculations were completed to properly size all conveyances.

Permitting: The permitting process can delay projects if they are not submitted correctly or in a timely manner. Thrasher takes pride in our ability to quickly obtain permits for our clients. We are able to utilize our excellent relationship with the WVDEP for NPDES permits as well as our relationship with the West Virginia Division of Highways for entrance and drainage permits. We are also experienced in obtaining Army Corps of Engineers permits from both the Pittsburgh and Huntington District Offices for stream bank restoration, wetland mitigation and construction, linear transportation and utility line projects, and temporary construction access and dewatering. You can be confident in knowing that any permitting necessary for your project will be handled swiftly by the Thrasher team.

PROJECT EXPERIENCE MATRIX

BOND FORFEITURE and RELATED PROJECT EXPERIENCE MATRIX																				
PROJECT	Exp. Basis C-Corp P-Personal *	Additional info provided in Section (s) **	PROJECT EXPERIENCE REQUIREMENTS															Primary staff participation/capacity *** M-Management P-Professional		
			Forfeited Surface Mine Reclamation	Forfeited Deep Mine Reclamation	Portal/shaft closure	Hydrologic/Hydraulic design/ Eval.	Remining Evaluation	Mine / refuse fire abatement	Subsidence investigation/ mitigation	Hazardous waste disposal	Project specifications	Water quality evaluation /mitigation replacement	Construction inspection / management	Water treatment	Equipment /structure removal	Stream restoration	Geotechnical/stability	Chadwick D. Biller	Rebecca Y. Morris	R.J. Hovatter
Anglins Run Portals	C	Project Experience			X	X					X							M		
Roaring Creek	C		X	X		X			X		X							M		
Shinns Run Portals	P			X		X			X		X								M/P	
Squire's Creek Portals	C		X		X	X					X			X				M		
Overfield (Laferty) CS&P	C		X		X	X					X					X		M		
Laurel Run	C		X		X	X					X							M		P
Clarksburg Lyons Landslide	C		X			X					X					X		M		
Pleasant Valley	C		X		X	X					X							M		P
Roger Camp Hill	C		X			X					X							M		P
Owl Creek Highwall	C		X		X	X					X				X			M		P
Landgraaf Refuse	C		X			X					X							M		P
Canyon Refuse & Dump	C		X		X	X					X			X				M		P
Stowe (Prince) Landslide	C					X					X					X		M		P
Lamberts Run Site 7	C	Project Experience	X			X					X	X	X	X		X		M		P
Swamp Run #1	C	Project Experience	X			X					X	X	X	X		X		M		P
Dans Branch	C					X					X						X	M		P
Ed Gower Highwall #2	C		X		X	X					X							M		P
Martinka Mine	C	Project Experience	X			X					X	X	X	X				M		P

*List whether project experience is corporate or personnel based or both

** Use this area to provide specific sections or pages if needed for reference

*** List primary design personnel and their functional capacity for the projects listed.



Anglins Run

Location: Barbour County, WV

Type of Project: Portals and Stream Restoration

Thrasher Project Manager: Chad Biller, PE

Client Contact: WVDEP

Gregory Smith, PE

101 Cambridge Place | Bridgeport, WV 26330

304-842-1900

The project area included a total of eight collapsed mine portals with at least five of them having discharges ranging from 1 to 10 gpm. Total flows were estimated to be between 25 and 30 gpm. Thrasher's scope and plans for this project included construction of an access road into the site, excavation and wet seal of at least eight deep mine portals and the re-grade and fill of subsidence sinkholes. To carry water safely off site, drainage control channels, conveyance pipe and under drain were constructed. All areas disturbed by construction were soil covered, conditioned and re-vegetated.



Laurel Run #1

Location: Preston County, WV

Type of Project: Mine Portals

Thrasher Project Manager: Chad Biller, PE

Client Contact: WVDEP

Gregory Smith, PE

101 Cambridge Place | Bridgeport, WV 26330

304-842-1900

This project site consisted of seven sections of highwall that totaled approximately 5,700 feet in length and averaged 20 feet in height. There were three collapsed portals adjacent to one another discharging approximately 25 gpm. One open portal entrance measured 2 foot by 3 foot and had no known discharge associated with it. Approximately 230 feet of abandoned railroad tracks remained on the project site and they did not connect to any existing tracks. The project site covered a total area of six acres and suffered from a lack of vegetation and toeing into Laurel Run.



Lambert's Run Site #7

Location: Harrison County, WV

Type of Project: Mine Portals

Thrasher Project Manager: Chad Biller, PE

Client Contact: Guardians of the West Fork

John Eleyette

830 Benoni Avenue | Fairmont, WV 26554

304-627-1019

This project located in Clarksburg, WV involved 3 wet-seal portals that drain into a 0.7 acre impoundment. The three portals discharge approximately 500 to 3,000 gallons per minute of iron laden water into the main stem of Lambert Run. This project is another in a series of projects aimed at removing Lambert Run (WV MW-16) from the state's 303(d) list of impaired watersheds. This is a project which will combat acid mine drainage emanating from three portals in the central region of the Lambert Run watershed.

Thrasher's plan for the project included, constructing, aeration channels and approximately 4 acres of aerobic wetlands to provide passive treatment of AMD. The proposed treatments have been designed to remove approximately 80% of the acid load.



Owl Creek Highwall #2

Location: Monongalia County, WV

Type of Project: Highwall

Thrasher Project Manager:

Client Contact:

This Morgantown, WV project involved three main sites which includes dangerous highwalls with heights between 20 and 70 feet, AMD water impoundments on highwall benches, exposed refuse on Booths Creek stream bank, open and collapsed portals, and existing non-functioning wet mine seal.

The scope of work included regrading the highwall bench and adjoining spoil piles to reclaim the highwalls, installing new or replacing the existing wet/modified mine seals for the portals producing AMD, and installing bate gates in the open portals. Additionally, Thrasher installed underdrains or seep collectors to eliminate ponding areas and construct conveyances to safely transport stormwater and mine water in and around the site. An Army Core of Engineers permit was applied for stream bank restoration/repair of Booths Creek and a temporary construction access across the stream. The project site covered a total area of 24.5 acres and reclamation included \pm 113,000 cubic yards of earthwork.



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Rebecca Y. Morris, PE
QA/QC

Chad Biller, PE
Principal-in-Charge

RJ Hovatter, PE
Project Manager

Shelby Hinterer
Project Engineer



Survey Services

Construction Services

Environmental Services

CHAD BILLER, PE

Principal-in-Charge



Education

Bachelor of Science,
Civil Engineering
West Virginia University

Registrations

Professional Engineer

- > West Virginia
- > Ohio

Affiliations

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

Chad Biller, PE has extensive experience in all aspects of civil engineering, but his primary emphasis lies in site development, transportation, and airport projects. Chad's expertise has made him a go-to source for the design and site layout of numerous residential and commercial sites all throughout the Mid-Atlantic region. His knowledge of site design in the mountainous terrain of West Virginia and the surrounding Appalachian basin is second to none.

As part of his role in the Site Division, Chad is responsible for the development of project design, production of project specifications and plans, bidding, quality assurance/quality control, and project monitoring. He brings a deep breadth of knowledge to the table, including creative problem solving skills, and decades of hands-on experience implementing unique project delivery methods individually tailored for his clients.

Experience

WVDEP AML Stowe

Landslide

Role: Principal-in-Charge
> Logan County, WV

WVDEP AML Anglins Run Project

Role: Principal-in-Charge
> Nicholas County, WV

WVDEP AML Squires Creek Project

Role: Principal-in-Charge
> Preston County, WV

WVDEP AML Landgraph Refuse Pile

Role: Principal-in-Charge
> McDowell County, WV

WVDEP AML Owi Creek Highwall #2

Role: Principal-in-Charge
> Monongalia County, WV

City of Salem Slip Repairs

Role: Project Manager
> Harrison County, WV

Fairmont State University Storm Water Management Plan

Role: Principal-in-Charge
> Marion County, WV

Old Bridgeport Hill Storm Drainage

Role: Principal-in-Charge
> Harrison County, WV

CHAD BILLER, PE

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Principal-in-Charge

Name: CHADWICK D BILLER

**WV Professional
Engineer:**

PE License Number: [REDACTED]

PE License Status: Active

PE Issue Date: 02/23/1998

PE Expiration Date: 12/31/2018

**Continuing
Education Claim:**

Qualifying Hours from Last Renewal or Reinstatement: 57

Carryover Hours for Next Renewal: 15

Last Renewal or Reinstatement Date: 12/19/2016

**WV Engineer
Intern:**

EI Certification Number:

EI Issue Date:

REBECCA Y. MORRIS, PE

QA/QC



Education

Bachelor of Science
Civil Engineering
West Virginia University

Registrations

Professional Engineer:
> West Virginia

Rebecca Y. Morris, PE is a Senior Project Manager in Thrasher's Site Division. She has a main focus on oil and gas and primarily leads work on well pads, M&R pads, and compressor stations. She started with oil and gas as the Marcellus and Utica shale boom came to the region and has stayed in the field because of her passion for the industry – Rebecca thrives on the high-energy, high-intensity atmosphere that comes with oil and gas sites.

In the role of QA/QC, Rebecca oversees and assures the quality of all deliverables and management practices of all disciplines. This includes overseeing critical events, attending client or stockholder meetings, participating in kick-off and milestone meetings, preparing quality control plans, assuring project performance, and meeting client expectations.

Experience

Morgan Run AMD

Role: Project Engineer
> Preston County, WV

Lambert Run Site 5 AMD

Role: Project Engineer
> Harrison County, WV

Middle Fork of Greens Run Phase 1 AMD

Role: Project Engineer
> Preston County, WV

Sovern Run 62 and Bishoff AMD

Role: Project Engineer
> Preston County, WV

Allen Conner/Messenger Site on Glad Run AMD

Role: Project Engineer
> Preston County, WV

QA/QC

Name:
WV Professional Engineer:

REBECCA Y MORRIS

PE License Number: [REDACTED]

PE License Status: Active

PE Issue Date: 06/05/2008

PE Expiration Date: 12/31/2018

Continuing Education Claim:

Qualifying Hours from Last Renewal or Reinstatement: 33

Carryover Hours for Next Renewal: 3

Last Renewal or Reinstatement Date: 12/31/2016

WV Engineer Intern:

EI Certification Number: 8672

EI Issue Date: 04/19/2007

RJ HOVATTER, PE

Project Manager



Education

Bachelor of Science,
Civil Engineering
Fairmont State University

Registrations

Professional Engineer:

- > West Virginia
- > Pennsylvania

Certifications and Trainings

- > Level I Rosgen Natural Stream Construction
- > Level II Rosgen Natural Stream Construction
- > HEC—RAS Operator Training Short Course
- > Annual Oil & Gas Training Pennsylvania—Expedited Review of ESCGP-1
- > MSHA Training

Richard "RJ" Hovatter, PE has spent most of his career working with private and public clients on various site development projects. His team of engineers are able to develop strategies to fit the needs of each client. RJ is well versed in site design, grading, storm water and erosion and sediment control plans. He has also managed over 35 Abandoned Mine Land Emergency and Abandoned Mine Land projects across West Virginia, Maryland, and Ohio. His experience provides clients with the reassurance that projects are inspected thoroughly.

He also leads a team of highly skilled engineers in developing innovative slip remediation projects all across the Appalachian basin. RJ has spent a large portion of his career evaluating critical land slips and assessing feasible, sustainable solutions that serve both public and private entities. His diverse portfolio of work has given RJ a refined eye for potential land issues and slip-prone terrain, which ensures his clients projects are designed on safe, stable sites.

Experience

WVDEP AML Stowe

Landslide Emergency Project

Role: Project Manager

- > Logan County, WV

WVDEP AML Dansbranch

Landslide Emergency Project

Role: Project Manager

- > Mingo County, WV

WVDEP AML Lyons Landslide Project

Role: Project Manager

- > Harrison County, WV

WVDEP AML Canyon Refuse and Dump

Role: Project Manager

- > Monongalia County, WV

WVDEP AML Landgraff Refuse Pile Design

Role: Project Manager

- > McDowell County, WV

WV DEP Shinns Run Portals

Role: Project Engineer

- > Harrison County, WV

WestRidge Phase 1 Slip Repair

Role: Project Manager

- > Monongalia County, WV

City of Clarksburg Citywide Stormwater Management Plan

Role: Project Manager

- > Harrison County, WV

RJ HOVATTER, PE

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Project Manager

Name: RICHARD G HOVATTER, JR

**WV Professional
Engineer:**

PE License Number: [REDACTED]

PE License Status: Active

PE Issue Date: 12/17/2009

PE Expiration Date: 12/31/2018

**Continuing
Education Claim:**

Qualifying Hours from Last Renewal or Reinstatement: 46.5

Carryover Hours for Next Renewal: 15

Last Renewal or Reinstatement Date*: 12/14/2016

**WV Engineer
Intern:**

EI Certification Number: 8494

EI Issue Date: 12/15/2005



Locations

West Virginia Office

650 MacCorkle Avenue West
St. Albans, WV 25177
P: (304) 201-5180
F: (304) 201-5182

Pennsylvania Office

171 Montour Run Road
Moon Twp, PA 15108
P: (412) 722-1970
F: (412) 722-1929

Company Overview

NGE was founded in the fall of 2002 by Amy Veltri and John Nottingham, a management team with a combined forty years of industry experience. The family-based entrepreneurial spirit that defined NGE's beginnings remains evident in the innovative solutions we deliver to our loyal clients each and every day. Advances in engineering, science and technology, coupled with regulatory, legal, and compliance pressures create increasingly complex challenges for businesses. NGE strives to keep pace with these changes, with an eye to supporting our clients' changing needs.

NGE has grown into a dependable and flexible environmental and geotechnical consulting firm providing a wide range of professional services, including Environmental Consulting, Geotechnical Engineering and Environmental Construction / Remediation. With clients across the nation, NGE added a second office location in West Virginia in 2003, and seeks to grow in the future by providing consistent, quality service in a family-oriented atmosphere.

Since its inception, NGE has hired and retained the best and brightest talent in the industry. Our staff have relevant experience and qualifications to complete complex environmental and geotechnical projects. NGE's future is bright as we pursue a course of planned, measured growth to meet the challenge of expansion without diluting leadership or weakening the company's ability to perform. After establishing a solid foundation and longstanding reputation in the region and across the nation as an innovative, sophisticated, forward-thinking environmental and geotechnical consulting firm, we are proud of our roots and the progressive environment we have created for our dedicated employees.

NGE is an organization that is small enough to focus time on each client but with a depth in talent and resources to successfully complete large and complex projects. NGE provides superior environmental and geotechnical services at a manageable price. A family oriented work atmosphere has fostered the growth of NGE's staff with the best and brightest talent in the industry.

NGE has garnered a variety of certifications and awards over the years in the environmental and geotechnical consulting industry. These accomplishments and accolades bear testament to the impeccable standards that we strive to achieve at NGE. They help differentiate our company from our competitors and serve to distinguish our employees as the "best of the best."



City of Clarksburg

Mr. Martin Howe, City Manager
222 W Main Street
Clarksburg, WV 26301
304-624-1677

West Ridge Development

Mr. Aaron Humberson
PO Box 4034
Morgantown, WV 26504
304-212-3355 ext 108

Hatfield McCoy Regional Recreation

Mr. Jeffrey Lusk, Executive Director
PO Box 146
Logan, WV 25635
304-752-3255



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

State of West Virginia
Centralized Expression of Interest
02 - Architect/Engr

Proc Folder: 463772

Doc Description: EOI - Lake (Bell) Portals

Proc Type: Central Purchase Order

Date issued	Solicitation Closes	Solicitation No	Version
2018-08-16	2018-09-12 13:30:00	CEOI 0313 DEP1900000003	1

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

VENDOR

Vendor Name, Address and Telephone Number:

FOR INFORMATION CONTACT THE BUYER

Brittany E Ingraham

(304) 558-2157

brittany.e.ingraham@wv.gov

Signature X

FEIN #

DATE

9/11/18

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

West Virginia Ethics Commission

Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

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

Name of Authorized Agent: RJ Hovatter, PE Address: _____

Contract Number: DEP1900000004 Contract Description: Summerlee Refuse

Governmental agency awarding contract: WVDEP

☐ Check here if this is a Supplemental Disclosure

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

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

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

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

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

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

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

Signature: [Signature]

Date Signed: 9/11/18

Notary Verification

State of WV, County of Harrison:

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

Taken, sworn to and subscribed before me this 11th day of September, 2018

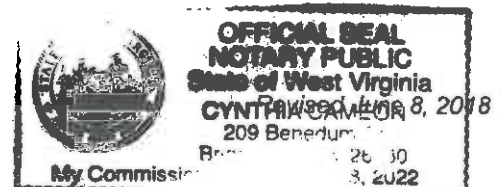
[Signature]
 Notary Public's Signature

To be completed by State Agency:

Date Received by State Agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____



STATE OF WEST VIRGINIA
Purchasing Division
PURCHASING AFFIDAVIT

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

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

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

DEFINITIONS:

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

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

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

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: _____

Authorized Signature: [Signature] Date: 9/11/18

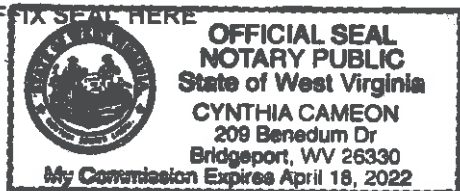
State of WV

County of Harrison, to-wit:

Taken, subscribed, and sworn to before me this 11th day of September, 2018.

My Commission expires April 18, 2022.

AFFIX SEAL HERE




NOTARY PUBLIC

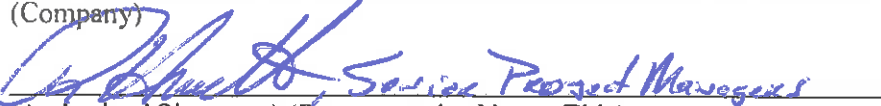
[Signature: Cynthia Cameon]

Purchasing Affidavit (Revised 01/19/2018)

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.

 Service Project Manager
 (Name, Title)
RJ Hovatter, PE - Project Manager
 (Printed Name and Title)
600 White Oaks Boulevard, Bridgeport, WV 26330
 (Address)
(304-624-4108) / (304-624-7831)
 (Phone Number) / (Fax Number)
rhovatter@thethrashergroup.com
 (email address)

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

The Thrasher Group
 (Company)
 Service Project Manager
 (Authorized Signature) (Representative Name, Title)

RJ Hovatter, PE - Project Manager
 (Printed Name and Title of Authorized Representative)
September 12, 2018
 (Date)
(304-624-4108) / (304-624-7831)
 (Phone Number) (Fax Number)

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AML CONSULTANT QUALIFICATION QUESTIONNAIRE Attachment

PROJECT NAME LAKE PORTALS AML		DATE (DAY, MONTH, YEAR) SEPTEMBER 12, 2018		FEIN 55-0633596-6	
1. FIRM NAME THE THRASHER GROUP, INC.		2. HOME OFFICE BUSINESS ADDRESS 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330		3. FORMER FIRM NAME THE THRASHER GROUP, INC.	
4. HOME OFFICE TELEPHONE 304-624-4108	5. ESTABLISHED (YEAR) 1983	6. TYPE OWNERSHIP Individual Corporation <input checked="" type="checkbox"/> Partnership Joint-Venture		6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES NO <input checked="" type="checkbox"/>	
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330 / 304-624-4108 / KENNETH MORAN / 6					
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM KENNETH MORAN, PE, PS – PRESIDENT / COO CHAD RILEY, PE – VICE PRESIDENT / CEO RONALD STANLEY, CPA – SECRETARY TREASURER / CFO		8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS WM. RANDY WATSON - PARTNER (304) 624-4108 CHAD M. RILEY, P.E. – PARTNER (304) 624-4108 CHADWICK BILLER, P.E. – PARTNER (304) 624-4108 CLAY P. RILEY, P.E. – PARTNER (304) 624-4108 DAN FERRELL, P.E. – PARTNER (304) 624-4108 CRAIG BAKER, CFP – PARTNER (304) 624-4108 ROBERT MILNE, P.E. – PARTNER (304) 624-4108 JONATHAN CARPENTER, P.E. – PARTNER (304) 343-7601 JENELLE ARMSTRONG, P.E., PMP – PARTNER (304) 326-7601 ROBERT RUFFNER, PS – PARTNER (304-624-4108) CLAYTON WHITE, EI, PMP – PARTNER (304-624-4108)			
9. PERSONNEL BY DISCIPLINE					
44 ADMINISTRATIVE 6 ARCHITECTS — BIOLOGIST 33 CADD OPERATORS — CHEMICAL ENGINEERS 41 CIVIL ENGINEERS 80 CONSTRUCTION INSPECTORS DESIGNERS — DRAFTSMEN	— ECOLOGISTS — ECONOMISTS — ELECTRICAL ENGINEERS 29 ENVIRONMENTALISTS — ESTIMATORS — GEOLOGISTS — HISTORIANS — HYDROLOGISTS	2 LANDSCAPE ARCHITECTS — MECHANICAL ENGINEERS — MINING ENGINEERS 4 PHOTOGRAMMETRISTS — PLANNERS: URBAN/REGIONAL — SANITARY ENGINEERS — SOILS ENGINEERS SPECIFICATION WRITERS	— STRUCTURAL ENGINEERS 143 SURVEYORS — TRAFFIC ENGINEERS 5 GIS SPECIALIST — PIPELINE INSPECTOR 33 MATERIALS TESTING TECH. 584 TOTAL PERSONNEL		
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 34					
*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.					
10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO NOT APPLICABLE					

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Confidential Qualification Questionnaire".

[illegible]

12. A. Is your firm experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?

X YES Description and Number of Project: THRASHER PERFORMS ENGINEERING DESIGN SERVICES TO THE WV DEP FOR DRAINAGE, PORTAL SEALS, HIGHWALL AND OTHER REMEDIATION PROJECTS, AS WELL AS FOR WATER LINE AND WATER TREATMENT PLANT PROJECTS RELATED TO AML. NUMEROUS PROJECTS INVOLVING LAND REMEDIATION, STORM WATER DRAINAGE, SLIP REPAIR, MASS GRADING IN RELATION TO SITE DEVELOPMENT AND HIGHWAY PROJECTS ARE ENGINEERED BY THE FIRM ON A REGULAR BASIS.

B. Is your firm experienced in Soil Analysis?

X YES Description and Number of Projects: THRASHER MAINTAINS AN AASHTO CERTIFIED MATERIALS TESTING AND ANALYSIS LAB AT BOTH THE BRIDGEPORT AND BECKLEY OFFICES. SOIL ANALYSIS EXPERIENCE IS SPECIFICALLY IN GRADATIONS AND CLASSIFICATION.

C. Is your firm experienced in hydrology and hydraulics?

X YES Description and Number of Projects: THROUGHOUT THE STATE THRASHER HAS DONE PLANNING AND DESIGN OF BRIDGES FOR THE WEST VIRGINIA DEPARTMENT OF HIGHWAYS AND THE DESIGN OF MULTIPLE PRIVATE AND MUNICIPAL DEVELOPMENT PROJECTS LOCATED WITHIN FLOODPLAINS. THUS THRASHER HAS EXTENSIVE EXPERIENCE IN HYDROLOGY. WE ALSO HAVE A VAST AMOUNT OF EXPERIENCE IN HYDRAULIC MODELING FOR WATER AND WASTEWATER PROJECTS THROUGHOUT WEST VIRGINIA.

D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?

YES Description and Number of Projects: THRASHER ACQUIRES AERIAL IMAGERY USING IN HOUSE RESOURCES ON SMALLER AREA PROJECTS. WE OWN AND OPERATE THREE UAS (UNMANNED AERIAL SYSTEMS) FOR A VARIETY OF IMAGERY MISSIONS FOR PROJECTS UP TO APPROXIMATELY 500 ACRES. FOR LARGE MAPPING PROJECTS, WE USE A COMMERCIAL FLYING SERVICE. THRASHER HAS THREE FAA CERTIFIED PILOTS.

THRASHER HAS EXPERTISE AND SOFTWARE IN HOUSE AND ROUTINELY PERFORMS AERO TRIANGULATION, PLANIMETRIC COMPILATION, SURFACE MODELING, CONTOUR MAPPING AND DIGITALLY RECTIFIED IMAGERY.

THRASHER HAS MAPPED AND FLOWN HUNDREDS OF PROJECTS DURING THE LAST YEAR.

E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)

YES Description and Number of Projects: THRASHER HAS DESIGNED MORE WATER LINE SYSTEMS THAN ANY OTHER WEST VIRGINIA FIRM. PROJECTS INCLUDE NEW SYSTEMS, EXTENSIONS AND REPLACEMENTS OF WATER LINE DISTRIBUTION SYSTEMS, MANY OF WHICH HAVE BEEN AFFECTED BY ABANDONED MINE LANDS. DESIGN OF THE PROJECTS INCLUDES LINES, BOOSTER STATIONS, WATER TREATMENT PLANTS, AND STORAGE FACILITIES. THRASHER'S ANALYSIS AND DESIGN ALSO INCLUDES IMPROVEMENTS AND ALTERNATIVES FOR WATER SOURCES DEEMED GROUND WATER UNDER THE DIRECT EFFECT OF SURFACE WATER.

F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?

YES Description and Number of Projects THRASHER HAS BEEN AWARDED AND HAS SUCCESSFULLY COMPLETED NUMEROUS RECLAMATION PROJECTS FOR WVDEP RELATED SPECIFICALLY TO ACID MINE DRAINAGE AND ABATEMENT, AS WELL AS, MULTIPLE PASSIVE TREATMENT SYSTEMS DESIGNED FOR WATERSHED PROTECTION GROUPS. THE CHARLESTON WV BRANCH OF OUR COMPANY DESIGNED AN AWARD-WINNING WATER TREATMENT PLANT FOR MARTINKA MINES IN MARION COUNTY, WEST VIRGINIA TO TREAT MINE DRAINAGE.

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)

YEARS OF EXPERIENCE

BILLER, CHADWICK D. -- PRINCIPAL-IN-CHARGE

YEARS OF AML DESIGN EXPERIENCE:
15

YEARS OF AML RELATED DESIGN EXPERIENCE: 20

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 20

Brief Explanation of Responsibilities:

Chadwick. Biller has experience in all aspects of engineering with specific emphasis on site development, highways, roads, bridges, and airports. Chad joined The Thrasher Group, Inc. in 1999 and is a partner of The Thrasher Group. For The Thrasher Group, Chad is responsible for WV DEP AML project and public and private site development projects, specializing in airports, highways, roads and bridges. As Project Manager for all of the firm's WVDOT/DOH projects, he has extensive knowledge of state and federal building standards.

EDUCATION (Degree, Year, Specialization:

Bachelor of Science, Civil Engineering, 1992 -- West Virginia University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

*American Society of Civil Engineers
Society of American Military Engineers
National Society of Professional Engineers*

REGISTRATION (Type, Year, State)

*Registered Professional Engineer(PE), State of West Virginia
Registered Professional Engineer (PE), State of Pennsylvania
Registered Professional Engineer (PE), State of Ohio*

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)

YEARS OF EXPERIENCE

HOVATTER, RICHARD (RJ) -- PROJECT MANAGER

YEARS OF AML DESIGN EXPERIENCE:
12

YEARS OF AML RELATED DESIGN EXPERIENCE: 12

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12

Brief Explanation of Responsibilities

As Project Manager, RJ has completed the site design, grading, storm water and erosion and sediment control plans for over twenty private and commercial development. He has also managed over 35 Abandoned Mine Land Emergency and Abandoned Mine Land projects in West Virginia, Maryland and Ohio. RJ has also been the lead on numerous slip remediation projects.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2002, Civil Engineering Technology -- Fairmont State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

*Professional Engineer (P.E.), 2009, State of West Virginia
Professional Engineer (P.E.), 2010, State of Pennsylvania*

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.) MORRIS, REBECCA, Y. – QA/QC	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
<p>Brief Explanation of Responsibilities <i>Rebecca Morris, PE is a Senior Project Manager in Thrasher's Site Division. A native of Phillipi, Rebecca has spent her career in the Mountain State, previously working for Morgantown firms Dieffenbach and Hritz and Alpha Associates.</i></p> <p><i>Rebecca has a focus on oil and gas and will primarily be leading work on well pads, M&R pads, and compressor stations. She started with oil and gas as the Marcellus and Utica shale boom came to the region and has stayed in the field because of her passion for the industry – Rebecca thrives on the high-energy, high-intensity atmosphere that comes with oil and gas sites.</i></p>			
EDUCATION (Degree, Year, Specialization) B.S. Civil Engineering – West Virginia University, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State) Professional Engineer (PE) State of West Virginia	

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.) HINTERER, SHELBY – PROJECT ENGINEER	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE: 1	YEARS OF AML RELATED DESIGN EXPERIENCE: 1	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
<p>Brief Explanation of Responsibilities <i>Shelby Hinterer joined the Thrasher team as a Project Representative but has since moved out of the field and into the office as a Staff Engineer. Shelby is a graduate of West Virginia University with a degree in petroleum and natural gas engineering. As a Staff Engineer, Shelby's day-to-day work consists of various site and utility projects doing E&S reports, CADD modeling, and design work.</i></p>			
EDUCATION (Degree, Year, Specialization) B.S. – West Virginia University, Petroleum and Natural Gas Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES

THE THRASHER GROUP, INC. WILL DESIGN WORK FOR AML UTILIZING ONE OF THE LARGEST NETWORKS OF COMPUTER AIDED DESIGN (CAD) EQUIPMENT, SOFTWARE AND TRAINED PERSONNEL IN THE STATE OF WEST VIRGINIA.

CONNECTED THROUGH A VIRTUAL PRIVATE NETWORK, OUR CAD STAFF HAS THE ABILITY TO SHARE NECESSARY PLANS AMONG OUR LOCATIONS. THIS WILL ALLOW WORK DESIGNED FOR AML TO BE PREPARED AND UPDATED AT THE OFFICE LOCATION THAT BEST MEETS THE NEEDS OF THE SCOPE OF SERVICES.

CIVIL 3D, CARLSON AND MICROSTATION V8 SOFTWARE IS UTILIZED AT 70 CAD STATIONS THROUGHOUT OUR LOCATIONS. ADDITIONALLY, EQUIPMENT INCLUDES 10 LARGE FORMAT (SIZE E) PLOTTERS AND 5 LARGE FORMAT PLOTTER / SCANNERS. CAD PLANS ARE PREPARED BY BOTH DEDICATED CAD EMPLOYEES AND BY STAFF ENGINEERS AND ENGINEERING TECHNICIANS IN EACH OF THE FIRM'S OFFICES.

THE THRASHER GROUP, INC. ALSO UTILIZES TOP-OF-THE LINE SURVEY EQUIPMENT. OUR SURVEY WORK IS ACCOMPLISHED WITH GLOBAL POSITIONING SYSTEMS (GPS) AND ELECTRONIC DISTANCE MEASURING (EDM) SURVEY STATIONS WITH DATA GATHERING CAPABILITIES. THE SURVEY CREWS AND OFFICE SUPPORT STAFF GENERATE MAPPING DELIVERABLES IN VIRTUALLY ANY DIGITAL FORMAT REFERENCED TO SPECIFIED PROJECTION SYSTEMS.

ADDITIONAL SURVEY SERVICES INCLUDE: HIGH ACCURACY MONUMENTATION, ASTRONOMIC OBSERVATIONS / ORIENTATION, NGS BLUE BOOKING, HYDROGRAPHIC, TERRESTRIAL SCANNING, 3D AS-BUILTS, 3D MONITORING, SUB-SURFACE UTILITY LOCATION / DESIGNATION. THE FIELD CREWS ARE ALL EQUIPPED WITH LATE MODEL FOUR WHEEL DRIVE VEHICLES STOCKED WITH THE MOST MODERN EQUIPMENT AVAILABLE TO PERFORM PROFESSIONAL LAND SURVEYING SERVICES.

**111 TRIMBLE GNSS UNITS
68 TRIMBLE ROBOTS
2 PRECISE DIGITAL FIRST ORDER LEVELS WITH INVAR RODS
39 LEICA, NIKON OR TOPCON TOTAL STATIONS ALL MANAGED BY
TRIMBLE TSC3 FIELD COMPUTERS
2 REMOTE CONTROLLED/UNMANNED MAPPING AERIAL PLATFORM
HYDROGRAPHIC SURVEY VESSEL
7 3D SUB-SURFACE UTILITY LOCATORS**

**CIVIL 3D
CARLSON AND MICROSTATION V8 SOFTWARE
70 CAD STATIONS
10 LARGE FORMAT (SIZE E) PLOTTERS AND
5 LARGE FORMAT PLOTTER / SCANNERS.**

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

THE THRASHER GROUP IS CURRENTLY THE DESIGNATED "ENGINEER OF RECORD" ON MORE THAN 200 ON-GOING PROJECTS. THESE PROJECTS RANGE FROM SIMPLE BOUNDARY SURVEYS WHICH ARE COMPLETED WITHIN A FEW DAYS' TIME TO COMPLETE MUNICIPAL PROJECTS WHICH ARE COMPLETED OVER AN EXTENDED AMOUNT OF TIME. A PARTIAL LISTING OF CURRENT PROJECTS FOLLOWS WHICH DEMONSTRATES THE RANGE OF SERVICES PROVIDED BY THE THRASHER GROUP.

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
MALDEN PUBLIC SERVICE DISTRICT WASTEWATER TREATMENT PLANT KANAWHA COUNTY, WV	MALDEN PUBLIC SERVICE DISTRICT P.O. BOX 350 TAD, WV 25201-0350	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$13,600,000.00	90%
CITY OF RIPLEY, WV WASTEWATER TREATMENT PLANT & SYSTEM IMPROVEMENTS JACKSON COUNTY, WV	CITY OF RIPLEY, WV 203 SOUTH CHURCH STREET RIPLEY, WV 25271	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$13,000,000.00	80%
FOUNTAIN PUBLIC SERVICE DISTRICT WATER SYSTEM PROJECT MINERAL COUNTY, WV	FOUNTAIN PUBLIC SERVICE DISTRICT PO BOX 146 / ROUTE 46 EAST KEYSER, WV 26726	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$10,500,000.00	60%
PEA RIDGE WASTEWATER TREATMENT PLANT CABELL COUNTY, WV	PEA RIDGE PSD 500 NOVA STREET HUNINGTON, WV 25705	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$23,000,000.00	40%
PRESTON COUNTY SEWER PUBLIC SERVICE DISTRICT WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM	PRESTON COUNTY SEWER PUBLIC SERVICE DISTRICT PO BOX 89 BRUCETON MILLS, WV 26525	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION.	\$1,150,000.00	60%
OAK HILL SANITARY BOARD TWO WASTEWATER TREATMENT PLANT UPGRADES	OAK HILL SANITARY BOARD 100 KELLY AVENUE OAK HILL, WV 25901	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$20,000,000.00	50%
BERKELEY COUNTY PUBLIC SERVICE SEWER DISTRICT RIVERSIDE PUMP STATION INSTALLATION BERKELEY COUNTY, WV	BERKELEY COUNTY PSSD PO BOX 944 MARTINSBURG, WV 25402	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$7,000,000.00	25%

TOTAL NUMBER OF PROJECTS: 7 SHOWN

TOTAL ESTIMATED CONSTRUCTION COSTS: \$88,250,000

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
ACP PIPELINE – NC TO WV	SURVEY	GAI 300 SUMMERS STREET, SUITE 100 CHARLESTON, WV 25301	SUMMER, 2021	N/A	N/A
TRANSOURCE 45 MILE T-LINE	SURVEY	BURNS AND MCDONELL ENGINEERING COMPANY 119 NORFOLK AVE SW #100 ROANOKE, VA 24011	DECEMBER, 2019	N/A	N/A
PROCTOR AND GAMBLE – BERKELEY COUNTY, WV	QUALITY CONTROL SURVEY, UTILITY, E&S INSPECTION	FLUOR ENTERPRISES 100 FLUOR DANIEL DRIVE GREENVILLE, SC 29607	FALL 2019	\$500,000,000	\$1,020,000
BLUE HORIZON DRIVE – MONONGALIA COUNTY, WV	DESIGN, INSPECTION, SURVEY, TESTING	BEAR CONTRACTING PO BOX 1196 BRIDGEPORT, WV 26330	FALL 2018	\$17,000,000	\$250,000
CORRIDOR H SECTION 2 – RANDOLPH COUNTY, WV	ROADWAY DESIGN, SURVEY, TESTING	MEAD AND HUNT 400 TRACY WAY #200 CHARLESTON, WV 25311	FALL 2021	\$100,000,000	N/A

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOU WERE THE DESIGNATED ENGINEER OF RECORD:

AML RELATED PROJECTS FOR THE WVDEP AND WATERSHED PROTECTION GROUPS

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
PLEASANT VALLEY AML RECLAMATION MARION COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 TH STREET, SE CHARLESTON, WV 25304	\$764,000.00	2013	YES
ROGER CAMP HILL AML RECLAMATION TUCKER COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 TH STREET, SE CHARLESTON, WV 25304	\$210,000.00	2013	YES
OWL CREEK HIGHWALL #2 AML RECLAMATION MONONGALIA COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 TH STREET, SE CHARLESTON, WV 25304	\$1,590,000.00	2014	NO
LANDGRAFF REFUSE PILE AML RECLAMATION MCDOWELL COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 TH STREET, SE CHARLESTON, WV 25304	\$324,000.00	2014	NO
CANYON REFUSE AND DUMP AML RECLAMATION MONONGALIA COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 TH STREET, SE CHARLESTON, WV 25304	\$1,004,000.00	2014	NO
STOWE (PRINCE) LANDSLIDE EMERGENCY AML LOGAN COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 TH STREET, SE CHARLESTON, WV 25304	\$220,000.00	2015	YES
LAMBERTON RUN SITE 7 PASSIVE AMD TREATMENT SYSTEM HARRISON COUNTY, WV	GUARDIANS OF THE WEST FORK 830 BENONI AVE. FAIRMONT, WV 2554	\$340,000.00	2015	YES
SWAMP RUN #1 PASSIVE AMD TREATMENT SYSTEM UPSHUR COUNTY, WV	BUCKHANNON RIVER WATERSHED ASSOCIATION 112 FAYETTE STREET, BUCKHANNON, WV 26201	\$440,000.00	2015	NO

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOU WERE ASSOCIATED WITH OTHER FIRMS
(INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
BOONE COUNTY MINE ACCESS	WVDOH 1900 KANAWHA BLVD E CHARLESTON, WV 25311	\$1,207,900	2018	NO	BIZZACK CONSTRUCTION
OAK MOUND WALDO RUN ELECTRIC TRANSMISSION LINE	FIRST ENERGY 76 SOUTH MAIN STREET AKRON, OH 44308	\$1,294,493	2016	YES	BURNS AND MCDONNELL
SOUTHEAST RELIANCE PIPELINE	DOMINION ENERGY 900 WHITE OAKS BOULEVARD BRIDGEPORT WV 26330	\$3,800,000	2014	NO	GAI
DOMINION ENERGY WV HEADQUARTERS	DOMINION ENERGY 900 WHITE OAKS BOULEVARD BRIDGEPORT WV 26330	\$860,000	2015	YES	MARCH WESTIN COMPANY
CITY OF BECKLEY INTERMODAL GATEWAY	CITY OF BECKLEY 409 S. KANAWHA STREET BECKLEY, WV 25801	\$250,000.00	2012	YES	PARSONS BRINCKERHOFF

19. USE THIS SPACE TO PROVIDE ANY ADDITIONAL INFORMATION OR DESCRIPTION OF RESOURCES SUPPORTING YOUR FIRM'S QUALIFICATIONS TO PERFORM WORK FOR THE WV ABANDONED MINE LANDS PROGRAM

SEE ATTACHMENT – STATEMENT OF QUALIFICATIONS

20. THE FOREGOING IS A STATEMENT OF FACTS.

SIGNATURE:  TITLE: PROJECT MANAGER

PRINTED NAME: RICHARD HOVATTER

DATE:

9/11/18

THRASHER

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