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WEST VIRGINIA • OHIO • MARYLAND • VIRGINIA

PREPARED FOR THE
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL
PROTECTION OFFICE OF ABANDONED MINE LANDS
& RECLAMATION

03/05/13 09:16:21 AM West Virginia Purchasing Division



RFQ COPY

TYPE NAME/ADDRESS HERE

Thrasher Engineering, Inc.

30 Columbia Boulevard

Clarksburg, WV 26301

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

Solicitation

NUMBER

PAGE

DEP16160

ADDRESS CORRESPONDENCE TO ATTENTION OF:

FRANK WHITTAKER 304-558-2316

ENVIRONMENTAL PROTECTION DEPARTMENT OF OFFICE OF AML&R 601 57TH STREET SE CHARLESTON, WV

25304

304-926-0499

DATE PRINTED 02/05/2013 BID OPENING TIME 01:30PM BID OPENING DATE: 03/05/2013 AMOUNT UNIT PRICE CAT. ITEM NUMBER UOP QUANTITY LINE 906-29 JB 0001 DESIGN DANGEROUS SLIDE CAMDEN (HARTLEY) EXPRESSION OF INTEREST THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES AT THE CAMDEN (HARTLEY) DANGEROUS SLIDE PROJECT IN MCDOWELL CO., WV, PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS. DEP16|160 ***** TOTAL: THIS IS THE END OF REQ

SIGNATURE

TELEPHONE 304-624-4108

DATE March 4, 2013

55-0633596-6 Principal-In-Charge

ADDRESS CHANGES TO BE NOTED ABOVE

LDESPONDING TO SOLICITATION INSERT NAME AND ADDRESS IN SPACE AROVE LARFLED 'VENDOR'



March 4, 2013

West Virginia Department of Environmental Protection Office of Abandoned Mine Lands and Reclamation c/o State of West Virginia Department of Administration Purchasing Division 2019 Washington Street, East PO Box 50130 Charleston, WV 25305-0130

RE: DEP 16160: Camden (Hartley) Dangerous Slide Design, McDowell County

Dear Selection Committee:

Thrasher Engineering, Inc. (TEI) is pleased to submit our proposal on the Camden (Hartley) Dangerous Slide Design, McDowell County project. Our successful completion of eight similar projects for the Office of Abandoned Mine Lands exemplifies our expertise in this area.

TEI has built a business reputation that stands on integrity, experience, efficiency and judgment. In taking this approach, we have carefully and concisely responded to your request. We have assembled an experienced group of professionals to meet the various needs of this project. As proven by similar work, the DEP can be confident that Thrasher will provide quality service and technical proficiency, in a cost efficient and timely manner.

Our client base in McDowell County has included municipalities, public service districts, educational entities and economic development authorities. Our knowledge of the area and proximity to the site will prove to be advantageous to the successful completion of this project.

We look forward to the opportunity to discuss your needs and to demonstrate how TEI will continue to provide successful projects, which McDowell County deserves.

Sincerely,

THRASHER ENGINEERING, INC.

CHADWICK D. BILLER, PE Partner, Principal-in-Charge

selection criteria

 A. West Virginia Professional Engineers (Civil or Mining) in the Primary Office.

Thrasher Engineering, Inc. employs 14 West Virginia registered Professional Engineers based at our Primary Office located in Clarksburg, WV.

Woody Thrasher, PE
Chad Biller, PE
Mike Nestor, PE
Daniel Ferrell, PE
Ken Moran, PE
Clay Riley, PE
Matt Fluharty, PE
Tom Urquhart, PE, BCEE
Chad Riley, PE
Jeff Gola, PE
Doug Forni, PE
Rob Milne, PE
Richard Hovatter, PE
Brad Messenger, PE
Garrett Grubb, PE

B. Reclamation engineering design experience of the Primary Office's WV RPE as it relates to the specific project problem areas.

Chadwick Biller, PE, will serve as Principal-in-Charge and has more than 19 years of civil engineering experience with specific emphasis on mine reclamation, site development, highways, roads, bridges, and airports. Mr. Biller has managed the design and construction administration for a number of large grading and drainage projects in West Virginia. These projects have included design for mine reclamation, industrial/business parks, highways, and airports. Mr. Biller is also familiar with reclamation of mine portals, using either wet or dry seals.

April Rohrbaugh, Staff Engineer, has completed the design of four (4) AML projects, under the direction of Chad Biller. **Robert "RJ" Hovatter**, Project Engineer, joined Thrasher Engineering in 2011, bringing extensive experience in grouting projects for the WVDEP during his tenure with his previous employer, CTL.

Larry Nottingham, PE, with NGE will serve as our Geotechnical sub-consultant. He has over 30 years of AML design experience.

C. Available WV-AML Design Teams within the Primary office (A design team should consist of one Project Engineer (Civil or Mining), one CAD person and available support personnel as required by the particular project).

Thrasher Engineering has 11 WV-AML Design Teams within the Primary Office, and over 120 additional support personnel that are available if required by the project.

Civil Engineer	CAD
Chad Biller, PE	Cliff Cleavenger, PE
RJ Hovatter, PE	Brandon Hinkle
Mike Nestor, PE	John Pitman, EIT
Dan Ferrell, PE	Jason Heflin
Ken Moran, PE	Joe Lowther
Clay Riley, PE	Phil Lantz
Matt Fluharty, PE	John Sirianni
Tom Urquhart, PE, BCEE	Robert Hebb
Chad Riley, PE	Mike Oldaker
Jeff Gola, PE	Zack Gain
Doug Forni, PE	Trudy Heil



statement of qualifications

Established

1983

Officers/Partners

President H. Wood Thrasher, P.E., Vice-President Kenneth P. Moran, P.E., P.S. Sec./ Treasurer Ron Stanley, CPA

Partners

Public Utilities Wm. Randy Watson AML/Site/ Chadwick Biller, P.E.

Transportation

Site Development Chad Riley, P.E. Site Development Robert Milne, P.E. **Public Utilities** Clay P. Riley, P.E. **Public Utilities** Daniel E. Ferrell, P.E. Architecture Craig Baker, Assoc. AIA **Charleston Branch** Jonathan Carpenter, P.E. Manager/Public Utilities

Scope of Services

Public Work - Water / Sewer / Treatment Plants / Facility Plans / Business and Industrial Parks

Site Development - Industrial / Business / Commercial / Residential

General Civil Engineering – Municipal Engineering / Subdivisions / Paving / Highway / Roadways

Environmental Engineering Architecture

Landscape Architecture

Land Surveying, Platting, Legal Description Preparation

Construction Management / Materials Testing / Inspection

GIS Mapping

Locations

30 Columbia Boulevard, Clarksburg, WV 300 Association Drive, Charleston, WV 3000 Thayer Center, Oakland, MD 380 Airport Circle, Beckley, WV -Lab & Field Office 4150 Belden Village Street, Canton, OH Princeton, WV - Pentree, Incorporated - Affiliate Fredericksburg, VA—GeoMetrics, Inc.—Affiliate

Thrasher Engineering, Inc. (TEI) is a civil engineering consulting firm, specializing in public works projects. The majority of TEI's work involves publicly funded water treatment and distribution systems, sewage collection and treatment systems, and industrial and business parks. Over \$600 million in water, sewer, site development, survey and construction management projects have been designed and supervised by the firm.

H. Wood Thrasher and Henry A. Thrasher formed the company in 1983 with a commitment to excellence and professionalism in engineering. H. Wood Thrasher, P.E. remains principal of the company. Providing a full range of professional engineering services, Thrasher Engineering, Inc. currently maintains a staff of 200+ full-time employees. Our staff includes registered professional engineers, graduate engineers, registered professional surveyors, and support staffing of surveyors, design technicians, CADD technicians, construction managers, and secretarial / clerical personnel. This professional staff has a wealth of experience and is our greatest asset. This includes not only the principals but also the technicians, surveyors, construction managers, and office support staff. Combining education with experience, the qualified staff of TEI strives to provide service that is second to none and is committed to maintaining a strong reputation for quality work. The company's full and diverse staff has the resources to handle many projects, both large and small, simultaneously.







at your service

Specific Design for AML Projects

The expertise of our company is confirmed in the variety of projects successfully completed. As demonstrated below, Thrasher Engineering has, or is in the process of, completing eight (8) Abandoned Mine Lands (AML) projects for the West Virginia Department of Environmental Protection (WVDEP)

Drainage Design: All of the AML projects assigned to Thrasher required design of drainage structures. These have included ditches, culverts, and grouted ditches. Drainage calculations were completed and a report generated for each project.

Permitting: The permitting process can delay projects if permits are not submitted correctly and in a

timely manner. Thrasher Engineering prides itself on 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. Accurate permit applications receive less scrutiny and are reviewed in a timely manner.

THRASHER ENGINEERING'S WVDEP / AML PROJECTS

- Squires Creek: Reclaim Refuse Piles; Highwall Re-grading
- Anglin's Run: Seal Portals; Highwall Re-grading
- Roaring Creek: Sink Hole Repair; Portals; Re-grading
- Overfield (Lafferty): Landslide Repair; Portals; Re-grading
- Laurel Run: Bat Gates; Portals; Re-grading
- Clarksburg Lyons Landslide: Retaining Wall; Re-grading
- Pleasant Valley: Highwall; Portals; Re-grading
- Roger Camp Hill: Access Road; Drainage and Culverts; Re-grading

The scope of the above projects has varied; Thrasher has applied the follow design aspects for these projects:

Reclaim Refuse Piles: Refuse piles were incorporated into the backfill of re-graded highwalls. Areas of refuse were also covered with soil and re-seeded.

Highwall Re-grading: Miles of highwall have been backfilled and re-graded utilizing plans developed by Thrasher Engineering. Balancing the amount of cut/fill and keeping the amount of disturbance to a minimum is a challenge on any AML project; Thrasher has successfully met that challenge on these projects.

Sealing of Portals: Thrasher has developed plans for dozens of portal seals for AML projects, which also included bat gates.

Sink Hole Repair: Shallow mine voids caused sink holes that diverted a natural stream underground, subsequently lowering the water elevation of an existing farm pond. To address the problem, Thrasher developed a plan to backfill the voids, thereby reestablishing the stream to its original location.

Landslide Repair: Two different landslide repair projects have been completed by Thrasher Engineering. Each repair required extensive geo-technical designs for "H" pile wall with concrete lagging and concrete segmental block walls. Both projects were in close proximity to residential areas that required special care during construction.

Additional Related Services SITE DEVELOPMENT

TEI has planned, surveyed, designed and provided construction management services for more than 40 site development projects for both public and private clients. Projects ranging from sites for residential housing to business and industrial parks to multi-purpose "live, work and play" communities are included in our range of site development projects.

Our objective in site development engineering is to go beyond just the engineering aspect of the project; we work as a team with our clients to understand their present and future needs. With that information, we work with them to evaluate site locations that best suit their short and long-term goals.

Our Site Development Services Include:

Planning and Conceptual Design- evaluation of potential sites; recommendation of most functional, most cost-effective alternative; layout of site reflecting best use of land available; design of off-site and on-site (underground) including water service, sanitary sewer service, storm drainage facilities, telephone, electrical service, and television cable service; obtaining all permits necessary to allow construction including State Health Department for extension of water and sewer lines, WV Division of Environmental Protection Sediment and



at your service

Erosion Control Permit, WV Division of Highways entrance permit, as well as any local permits required; roadway design; layout of industrial lighting; and construction management services to assure compliance with design.

Grading Plans - which includes development of cut and fill quantities and construction plans (showing existing and proposed contours, structures, and facilities on site) to allow for the best use of available land.

Utility Layout/Mapping - includes design of utility extensions to serve existing and proposed facilities, as well as the complete mapping of existing utilities.

STORM WATER DRAINAGE / SEDIMENT AND EROSION CONTROL

Our experience includes development of Sediment and Erosion Control measures on all types of construction

sites as required WV by the Division of Environmental Protection, of design drainage facilities including piping, intake structures, etc., for site stabilization



and flood control.

Our staff members have considerable hydrologic and hydraulic design experience and have successfully obtained local, state, and federal erosion and sediment control permits and National Pollutant Discharge Elimination System (NPDES) permits for point source and storm water discharges.

Capabilities in the evaluation and design storm water drainage include:

- Hydrology Studies / Hydrographic Mapping
- Storm Water Collection Systems
- Detention Ponds
- Injection Wells
- Underground Storage
- Combined Sewer Overload (CSO) separation

ENVIRONMENTAL REPORTING SERVICES

Thrasher Engineering, Inc. provides full environmental

assessment and clearance services. We have more than 20years of experience conducting environmental/natural resource compliance consultation with West Virginia Division of Environmental

Environmental
Protection, (WVDEP),
Federal Aviation Administration and Federal Highways
Administration, US Department of Agriculture-Rural
Development Utility Program, and US Environmental

Experience includes:

Protection Agency (EPA).

- Permitting Related Activities (401 and 404)
- NEPA Environmental Document Preparation
- Wetland Delineation and Mitigation
- Rare, Threatened and Endangered Species Section
 7 Informal Consultation
- Rare, Threatened and Endangered Species Section
 Habitat Conservation Plans
- Water Use and Water Quality
- Air and Noise Impacts, Assessments, and Controls
- Soils and Geological Resources
- Cultural Resources (Sub contracted to a reputable and approved Cultural Resource Consultant)
- Hazardous Materials
- Sediment and Erosion Control
- Consent Orders
- Compliance Schedules
- Site investigations
- SPCC Plans, Contingency Plans, Ground Water Protection Plans and Storm Water Pollution Prevention Plans
- Waste Treatment and Site Remediation
- Waste Disposal
- Channel Restoration
- Stream Bank Stabilization
- Enforcement Actions



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SURVEY

In addition to a full service professional engineering staff, maintains a complete surveying department which includes 10 licensed professional land surveyors, twenty full-time survey crews, CADD technicians, and office support staff.

We perform our work utilizing the most current methods and equipment available. Our survey **work is** accomplished using global positioning systems (GPS) and electronic distance measuring (EDM) survey stations with data gathering capabilities.

The type of surveys provided by TEI varies greatly as well and covers virtually all aspects of land surveying, such as:

Pre- and Post-Mining Surveys - vertical and horizontal control, inspector's report of protected structures, interior and exterior photographs, and videos. TEI provides these survey services for numerous coal companies, including Eastern and Martinka. Additional services performed for Eastern includes construction layout for impoundments, shaft site boundary and topographic surveys, map editing, and collection of well inventory data.

Boundary Surveys - verification of land owners, traverse and location of existing monuments, computations of closure, establishment of property corners, actual field stakeout, and preparation of plats and legal descriptions for property owners.

Topographic Surveys - location of existing features and determination of contours used in engineering layout of water distribution systems, sewer collection systems, industrial park layouts, etc.

Construction Layout - providing horizontal and vertical control for contractor's use and using this information to establish construction controls.

GPS Surveys - horizontal and vertical control networks.

Thrasher Engineering, 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. Additional Survey Services, added in 2012 include: High Accuracy Monumentation, Astronomic Observations / Orientation, NGS Blue booking, Hydrographic, Terrestrial Scanning, 3D As-builts, 3D monitoring, Sub-surface Utility Location / Designation.

CONSTRUCTION MANAGEMENT AND INSPECTION

TEI knows how projects should be built. We can provide the knowledgeable and experienced personnel necessary to manage the construction phase of your project. Our project managers and inspectors are experienced in all types of construction activities. From utilities, site development and storm water management to roads, bridges and airports, we apply our construction

management and inspection expertise to ensure successful projects. Our construction managers and our inspectors have of years experience; many of our inspectors are certified by the



West Virginia Department of Transportation / Division of Highways for roadwork and materials testing.

MATERIALS TESTING

TEI's Materials Testing Department is capable of performing a wide range of field and laboratory tests. Our laboratory at our Clarksburg, WV office is one of only three nationally certified facilities in the State of West Virginia. Additionally, our engineers and technicians who perform tests both in the field and in the lab are also certified by the State.

GEO-TECHNICAL SERVICES

For these projects, we will utilize Novell Geo-Environmental, a Certified Minority / Women Business Enterprise (MBE/WBE).

EQUIPMENT AND SOFTWARE

TEI provides one of the largest networks of computer aided design (CAD) equipment, software and trained personnel in the State of West Virginia.

Civil 3D, Carlson and Microstation V8 software is utilized at 70 CAD stations within the Group. 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. This equipment allows our design department to perform accurate work quickly and efficiently. All departments have the capability to electronically transmit data to clients requesting this service. This blend of experienced personnel utilizing modern equipment results in successful projects and satisfied clients.



your qualified team

TEI offers the largest engineering staff in the State of West Virginia. The expertise of the TEI staff is a combination of education and experience; it is reflected in all aspects of our services. The firm is led by a talented group of principals and partners who are dedicated to the success of our projects and the satisfaction of our clients.

PROJECT TEAM

Thrasher Engineering has assigned a team of experienced professionals to the WVDEP for Abandoned Mine Land Projects.

Chadwick D. Biller, P.E. will be the Principal-in-Charge. His role in this project will be to oversee all design aspects of the project and work closely with the DEP / AML office to ensure timeliness client satisfaction and oversee budgetary aspects. Mr. Biller is a Partner in Thrasher Engineering and manages AML, site development, and transportation projects.

April Rohrbaugh will serve as Project Manager and her responsibilities regarding AML projects includes design of wet and modified mine seals, grading associated with reclaiming, storm water management, and erosion and sediment control. April has played a significant role in the design of each AML project assigned to Thrasher.

Mike Nestor, P.E. will serve as Project Engineer and be responsible for design of the project. Mr. Nestor's experience includes drainage and sediment control design projects for site development projects. He served as design engineer for the Roaring Creek and Anglin Run AML projects.

Richard (RJ) Hovatter, P.E. will serve as Project Engineer for the project. Mr. Hovatter has extensive knowledge of abandoned mine land and emergency situations such as landslides and mine subsidence of abandoned mine lands. Mr. Hovatter is responsible for the designs, scheduling, collection and reporting of mine surface, sediment erosion control plans and waterline feasibility studies.

Geo-technical services will be under the direction of Larry Nottingham of NGE, a Certified DBE business.

Resumes of the project team members follow in additions to the information included in the AML Consultant's Confidential Qualifications Questionnaire.



Chadwick D. Biller, P.E.

Partner / Principal-In-Charge

hadwick D. Biller, P.E. joined Thrasher Engineering, Inc. in 1999, and is a partner with the firm. Mr. Biller has experience in all aspects of engineering. His primary emphasis has been on site development, including projects related to the rehabilitation of Abandoned Mine Lands. He also leads highways, roads, bridges and airport managing the with projects along Thrasher Department in Transportation Engineering, Inc.

Mr. Biller manages and designs engineering projects for the WVDOH. These projects include four-lane divided highways, bridges, two-lane roads and road widening projects. He is the airport engineer for the North Central West Virginia Airport. His responsibilities include day-to-day ad long term upgrades for the airport to promote safety and develop airport properties. Mr. Biller manages site development projects for private and public clientele. These projects included mass, grading, roads, drainage, storm water management, erosion and sediment control and numerous regulatory permitting activities.

Highlighted Experience

Principal-in-Charge—Abandoned Mine Land Restoration

- WVDEP Abandoned Mine Lands: Responsible for contractual issues, scheduling, budget and quality control
 - Squires Creek: Reclaim Refuse Piles; Highwall Regrading
 - *Anglin's Run: Seal Portals
 - •Roaring Creek: Sink Hole Repair
 - Overfield (Lafferty): Landslide Repair
 - Laurel Run: Bat Gates
 - •Clarksburg Lyons Landslide: Retaining Wall
 - "Pleasant Valley: Highwall
 - •Roger Camp Hill: Access Road; Drainage and Culverts

Education:

Bachelors of Science, Civil Engineering—West Virginia University

Certifications:

Registered Professional Engineer (PE)—State of West Virginia #13620

Registered Professional Engineer (PE) - State of Pennsylvania #PE056012E

Registered Professional Engineer (PE) - State of Ohio #64594

Affiliations:

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

Principal-in-Charge/ Project Manager—Site Development

- Taylor County Commission, Re-roofing of Courthouse and Jail—Taylor County, WV
- Fairmont State University Aerospace Center— Marion County, WV
- Raleigh County Memorial Airport Industrial Park—Raleigh County, WV
- Putnam Business Park—Putnam County, WV
- ☐ Wood Products Business Park
- □ Aurora Flight Sciences
- □ Various Subdivision in Berkeley County Ranging From 12 to 420 Lots
- ☐ Site Plan for Hi-Tech Consortium Expansion
- Site Plans for Nippon Thermostat, Green Metals and Schwans, Putnam County
- □ Pendleton County Courthouse Annex
- ☐ Wingate Hotel, Charles Pointe, Bridgeport, WV
- □ Daycare Center and USDA Parking Lot, Hardy County



Chadwick D. Biller, P.E. (cont'd)

- ☐ City of Pleasant Valley, Sidewalks
- ☐ Snowshoe Mountain Resort / Intrawest The Seneca
- □ Wetland Replacement Project, Putnam County
- □ Hurricane Business Park
- Shinnston City Park, Including Pool and Bathhouse
- City of Bridgeport, Walking Trail and Pedestrian Bridge

Principal-in-Charge/ Project Manager— Airports

- Harrison Marion Regional Airport –
 Improvement Master Plan
- Raleigh County Airport Business Park and Master Plan
- □ Grafton Hospital, Helipad Relocation
- Parkersburg Airport Industrial Park
- Huntington Tri-State Industrial & Business Park

Principal-in-Charge/ Project Manager— Roadways/ Bridges

- Old Bridgeport Hill New Storm Drainage System
- □ Snowshoe Drive Upgrade
- □ King Coal Highway
- □ Terra Alta Curve
- □ Lodgeville Road
- □ North Bridgeport Bypass
- □ Corridor H
- □ Upgrade of US Route 19
- □ East Street and US Route 50, Parkersburg
- □ Merrick Creek Connector
- City of Bridgeport, Valley Drive, Chenoweth Drive, Village Drive and Meadowbrook Mall Road
- □ Lodgeville Bridge
- □ Indian Fork Bridge
- □ Jakes Run Bridge
- Littleton and Watersnake Bridges

- □ Verner Bridge
- Rehabilitation of the 5th Street Bridge, Parkersburg
- □ Rehabilitation of the 35th and 36th Street Bridges, Charleston
- □ Kittonsville Bridge Replacement, Lewis Co.
- □ Water Street Bridge Replacement, Logan Co.
- □ Wayne County High School Bridge Replacement
- □ David Morgan Memorial Bridge, Marion County



📕 📕 📕 April Rohrbaugh

Project Manager / Engineer

pril Rohrbaugh joined Thrasher Engineering in January of 2006 and serves as Staff Engineer in the site department at the Oakland Maryland Branch. Mrs. Rohrbaugh has experience in all aspects of site engineering, taking projects from survey to concept to construction. Specialties include: Design Surveying consisting of both field traversing and survey locations and aerial mapping,

Conceptual Planning: planning for residential, commercial, and recreational developments,

Site/Land Development Engineering: geometric layout of sites, subdivisions, and roads, grading, drainage, storm water management, erosion and sediment control, and various regulatory permitting requirements, with focus on Abandoned Mine Lands Projects

Highlighted Experience

Project Manager / Engineer —Abandoned Mine Land Restoration

- □ **Squires Creek**: Reclaim Refuse Piles; Highwall Re-grading
- Anglin's Run: Seal Portals
- Roaring Creek: Sink Hole Repair
- Overfield (Lafferty): Landslide Repair
- Laurel Run: Bat Gates
- Clarksburg Lyons Landslide: Retaining Wall
- Pleasant Valley: Highwall
- Roger Camp Hill: Access Road; Drainage and Culverts

Project Manager / Engineer — Site Development

MCHENRY BUSINESS PARK (McHenry, MD) - Provided infrastructure design for a 180 acre Business Park located in McHenry, Maryland. Design responsibilities included: Design survey and various platting requirements for land transfer and utility easements. Access road designs including horizontal and vertical alignments and an entrance off of a county road. The design of erosion and sediment controls for construction activities and swale and culvert conveyances to 5 basins to control stormwater run off from the proposed roadway infrastructure. Consulted with local utility companies to devise utility plans and sections for cable, electric and telephone extensions and provided a roadway lighting plan. Assisted in the design and lay-

Education:

Bachelors of Science, Civil Engineering—West Virginia University

out of potable water line extension including a site plan for a proposed 250,000 gal water tank. Assisted in the design and layout of sanitary sewer gravity and force main lines including site plans for 2 sewage lift stations. Participated in weekly construction progress meetings and provided updates/reports to owner/developer

ASHBY CREST ESTATES (Ashby, WV)- Responsible for design survey and topographic mapping and road design. Completed plat work for Mineral County Planning and Land Development approval. 54 Lot Subdivsion

□ ASPEN WOODS WEST (Garrett County, WV) - Redesigned lot layout to incorporate more common area to accommodate equestrian use. Complete plat work for the Garrett County Planning and Land Development. 28 Lot Subdivision

CRYSTAL SPRINGS WALKING TRAIL - Completed a concept and design, as well as, overcame difficult site constraints which included wetlands, a stream crossing and slope compliance to meet ADA Standards.

□ G&W LUMBER - The existing lumber yard was extended to add approximately 1 acre of storage area. The site was graded to removing an excess of 17,000 CY of soil from the property. Also, an underground stormwater detention system was designed to maximize the storage area.

GINSENG HILL - On this design grass lined swales and stormwater structures were used to treat runoff. To drastically reduce the volume requirements of the stormwater structures, a clear water diversion swale along with a storm sewer system that carried the "clean water" to an existing outlet was

JOHN FRAM (Garrett County, MD) - Completed a sand mound design which was approved by the Garrett County Health Department.



📕 📕 📕 Michael Nestor, PE

Project Manager / Engineer

ike Nestor, PE joined Thrasher Engineering in 2005 and serves as Project Manager and Engineer. Mr. Nestor has a wide range of experience in residential and commercial site development projects, utilizing all aspects of infrastructure design including street and lot layout, street profiles, extensions of public sewer and water systems, storm water drainage, storm water management, erosion and sediment control plans, and NPDES permitting.

Highlighted Experience

- WV DEP AML PORTAL AND DRAINAGE DE-SIGN- Design for access roads, drainage control channels, re-grading and wet-seal of deep mine portals for Anglin's Run and Roaring Creek sites in Barbour County.
- Hawks Nest—Berkeley County, WV—Developed Stormwater Management Plan for residential subdivision using low impact development methods. Scope included site grading, storm water management, erosion and sediment control and other misc. items.
- WVU Milan Puskar Stadium Silver Lot Improvements—Morgantown, WV—3-phase project to improve the lot, including the replacement of a stormwater detention pond with an underground system, design of curb, new lighting and parking refigure plan.
- □ Fairmont State University Stormwater Management Program—Fairmont, WV—
 Development of a stormwater management program (SWMP) for FSU campus, which is classified as an MS4 entity. Scope included meeting MS4 requirements in addition to preparing and submitting all necessary permit applications to the WVDEP.
- City of Clarksburg Stormwater Management Program —Clarksburg, WV—Development of a stormwater management program (SWMP) that works for the City and satisfies permit requirements.

Education:

Bachelor of Science, Civil Engineering Technology, Fairmont State University

Certification:

Registered Professional Engineer (PE), State of West Virginia #18467

Affiliations:

North Central WV American Society of Highway Engineers—ASHE (President)

American Society of Civil Engineers

Eastern Panhandle Home Builders Association

Additional Stormwater Projects:

- Inwood Drainage Project—Berkeley County, WV
- Oak Hill Drainage Project
- □ AML—Roaring Creek & Anglins Run, WV
- □ Chuck's Pizza—Berkeley County, WV
- □ Leisure Living Estates -Section IV Berkeley County, WV
- Maidstone on the Potomac-Berkeley County, WV
- □ Mulberry Knoll—Berkeley County, WV
- National Propane—Berkeley County, WV

Additional Sidewalk Projects:

- Westover Sidewalk Replacement and Repair— 1500 feet of new sidewalks along Dunkard Avenue, WV 100 and U.S. 19 to provide a safe route for pedestrians in the City.
- □ North Middle School "Safe Routes to School"

 Project—Martinsburg, WV—Developed construction plans for approximately 1,300 LF of asphalt walking path in accordance with Safe Routes to Schools Program. Project included miscellaneous drainage structures as well as coordination with various local utilities.
- □ **Town of Capon Bridge Sidewalk Project** 170 SY of concrete sidewalk that included curb work, gutters stromwater drainage and other miscellaneous accessories to enhance the sidewalk.
- □ Berkley County Schools "Safe Routes to School" Project – for Opequon School consisted of 2,000 LF of walking path.



Richard (RJ) Hovatter Jr., P.E.

Project Manager/Project Engineer

ichard (RJ) Hovatter Jr. joined Thrasher Engineering, Inc. in 2011 and serves as Project Manager from Thrasher Engineering's Clarksburg Office. As a graduate of Fairmont State University and previous experience, Mr. Hovatter has extensive knowledge of abandoned mine lands. Mr. Hovatter is responsible for the designs, scheduling, and management of site designs, oil and gas well site designs, sediment erosion control plans, stormwater plans, and waterline feasibility studies.

RJ's areas of expertise include:

- Abandoned Mine Lands: Managed the development of design, grading, storm water and sediment erosion control plans for over fifteen projects in West Virginia, Indiana, and Maryland. The focus of these projects included high wall reclamation, AMD collection and treatment, waterline feasibility studies, and grout stabilization plans for abandoned underground workings.
- □ Abandoned Mine Land Emergency: Managed the design of over twenty AML Emergency projects in both Ohio and West Virginia. These projects varied from landslides to mine subsidence events directly
- Civil Site Design: Directly responsible for site design, grading, storm water and sediment erosion control plans and bid documents for over twenty private and commercial developments. related to abandoned mine lands.
- Mining and Surface Mine Permit Projects: Completed Multiple Blast home inspections: Phase I Environmental Site Assessments, valley fill foot printing for surface mines and various sampling procedures relative to the surface mine permit process.

Highlighted Experience

- □ WVDEP Thomas NE Phase I, II, III- developed group stabilization plan for multiple structures in the Town of Thomas to protect them from mine subsidence damage. Designed grout injection hole layout for structures based on existing utility locations to provide protection. Completed construction drawings, bid quantities, specifications and bid package.
- Ohio DNR Merkel Landslide- Designed emergency reclamation for a landslide that developed from an abandoned surface mine pit.

Education:

B.S. Civil Engineering Technology- Fairmont State University

Registrations:

West Virginia Professional Engineer Pennsylvania Professional Engineer

Certifications:

State of Maryland Erosion and Sediment Control Level I Rosgen Natural Stream Construction Level II Rosgen Natural Stream Construction HEC- RAS Operator Training Short Course Annual Oil and Gas training PA- Certified for expedited review of ESCGP-1

Annual MSHA Training

Twelve plus years' experience in AutoCad and site Development software

- Ohio DNR Riddles Run Landslide- Designed emergency reclamation for a landslide that developed down slope from abandoned deep mine entry. Reclaimed slip area.
- Ohio DNR Chaney Highwall- Designed a reclamation plan for an abandoned surface mine highwall and pit area. Designed a borrow site and reclaimed pit and highwall area.
- DRURY INN- Developed a grout stabilization plan for Drury Inn (St. Louis, MO) to protect proposed structure from possible mine subsidence damage. Designed grout injection hole layout.
- Maryland Bureau of Mines Permit 436 Haulroad Landslide- Designed emergency reclamation plan for a landslide that developed down slope from active surface mine haulroad. Reclaimed slip area.
- Ohio DNR General Clay IM-0455- Site design and reclamation plan for abandoned clay surface mine. Consisted of several highwall and regrade areas. Provided positive surface runoff drainage to two storm water control ponds.
- Ohio DNR General Clay IM-0021- Site design and reclamation plan for abandoned clay surface mine. Consisted of several highwall and regrade areas. Provided positive surface runoff drainage.
- Ohio DNR McCourt Landslide- Designed reclamation plan for a landslide that developed in a previously reclaimed surface mine. Reclaimed slip area. Designed a rock toe key and finger drains to collect subsurface drainage and help stabilize the slip area.



our approach to successful projects

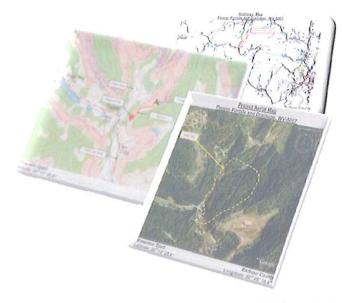
In order to develop an understand of the WV DEP's needs for each project, TEI studies the information provided in the RFQ. Based upon our findings, we have developed the following project approach to demonstrate our technical abilities and straight forward method of design and construction.

This project approach is a general approach that can be used on any WV DEP reclamation project and may be modified depending on the existing information that is available for the specific project. Also some steps may not be need on every project.

Step #1 Obtain adequate mapping. The limits of construction will be flown and digitally mapped or, if the area is small enough, survey crews will field survey the area. TEI will then provide 1" = 50' scale mapping with 2' contours. Spot elevations and critical cross sections may be completed in the field if necessary to make tie-ins.

Step # 2 Design the project. TEI will work closely with the WV DEP in designing the project. Field reviews will be conducted to determine the most cost effective method to be used to reclaim the area. A preliminary design based on the field reviews will be submitted to the WV DEP. After receiving comments or corrections, TEI will submit the final plans, specifications and design report. The design report will consist of the bore logs, piezometer elevations, quantity calculations, right entry forms and any other assumptions that were made during the design process.

Step #3 Prepare for construction. TEI will also set up reference points, benchmarks and control points outside of the construction limits so the contractor will be able to construct the project in the future. TEI will complete any permits, right-of-ways and easements that are necessary to construct the project. The project manager and engineer will attend the pre-bid meeting to answer any questions that contractors may have about the design.



Obtaining adequate mapping, if needed, is Step #1 in the project approach process

Step #4 Construct the project. The project manager will be available during construction to answer any questions the contractor or inspector may have TEI inspectors that are certified by the State of West Virginia are available to be used it the WV DEP requests this service.





WV DEP ABANDONED MINE LANDS

ANGLIN'S RUN #1 ROARING CREEK STREAM RESTORATION

Anglin's Run #1 Barbour County

This area included a total of eight (8) collapsed mine portals with at least 5 of them having discharges ranging from 1 to 10 gpm. Total flows were estimated to be between 25 and 30 gpm. Thrasher Engineering's scope and plans for this project included construction of an access road into the site, excavation and wet seal of at least eight (8) 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.

Roaring Creek Stream Randolph County

This project involved the elimination of subsidence depressions, the closure of open portals and the treatment of AMD. The Roaring Creek Watershed was heavily deep mined and surfaced mined prior to 1977. The project area consisted of 3 open and 3 closed portals discharging AMD; AMD seeped along the unnamed tributary and an area of subsidence, which drained surface water into the mine workings. AMD flow from the deep mine portals ranged from 10 gpm to 100 gpm with PH ranging from 3.1 to 5.0. The seeps along the UNT showed an average PH of 3.3. Thrasher's design plans called for the construction and rehabilitation of access roads to the sites, and installation of wet seals at the portal locations (4 Portals total). The plans also included re-grading the subsidence area to prevent surface water from entering the mine workings, and installing an emergency spillway on the existing pond which was designed to handle the additional flow.









successful

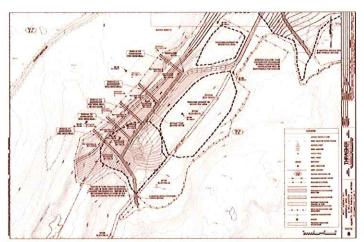
WV DEP ABANDONED MINE LANDS

SQUIRES CREEK PORTALS AND REFUSE

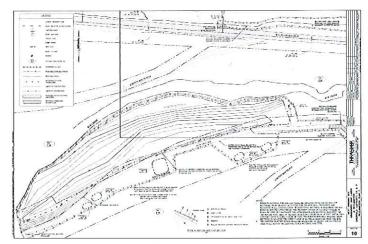
Squires Creek abandoned mine lands site consists of one mine building (mixer), un-vegetated coal refuse, deep mine portals and acid mine drainage. The site included two refuse piles covering an area of about 2.5 acres and a fly ash site covering an area of about 1 acre. Nearly all of this material was un-vegetated with signs of severe erosion; the toe of the eastern refuse pile extends down to the Squire's Creek. Also on site were one (1) open and seven (7) collapsed deep mine portals with only one discharging about 2 to 3 gpm of acid mine drainage (AMD). Of these portals, one was open enough to easily allow entrance to a person. This opening was 4 to 5 feet high and about 20 feet in width. Thrasher Engineering Inc.'s preferred scope and design for this project included repairing and upgrading the access road through the site, excavation and installation of seven (7) wet/modified mine seal for the collapsed portals and one (1) bat gate mine seal for the open portal. Then, re-grade the site was planned to entomb the onsite refuse and promote positive drainage away from the portals. The fly ash onsite was excavated and used to neutralize the refuse material (in lieu of limestone) prior to the installation of the soil cap. Site drainage conveyances including vegetated and grouted riprap channels we constructed to safely carry water through the site.

OVERFIELD (LAFFERTY) CS & P

This project involved a significant mine discharge 300 feet upslope from a private residence. The water emanated from a strip pit located on the bench. The pit measured 20' wide, 40' long with depth unknown; it appeared that the pit was situated within old mine workings based on visible coal pillars near the pit outlet and there seemed to be a possible collapsed portal. Two natural drainages were observed entering the pit. Both of the drainages were completely dry, yet 50 gallons a minute was discharging from the pit. Due to the area being mined the natural drainage had been eliminated. The continual flow of water from the strip pit created a ditch that flowed off the hill through the private residence's yard and down to the county road. The hill behind the residence was constantly wet and minor sliding had already occurred. When it rained, the drainage ditch exceeded its carrying capacity and



Design plans for Squires Creek Portals and Refuse Project



Reclamation Plan for Overfield (Lafferty)

flooded the residence's yard and basement. Also, an approximately 2 acre un-vegetated refuse pile adjacent to Elk Creek was a part of this project. Thrasher Engineering Inc.'s scope and design for this project included the installation of a modified mine seal in the collapsed portal and re-grading the existing strip pit to drain positively offsite into a grouted riprap channel, thereby eliminating the flow of both mine water and storm water from reaching the residence. A 12' gravity retaining wall was designed to mitigate the existing landslide and diversion channels were designed above and below the proposed wall carry the water safely away from the residence. The un-vegetated refuse area was to be re-graded to drain positively and the material excavated to be from the strip pit and the retaining wall was used to cap (entomb) the refuse for re-vegetation.



WV DEP ABANDONED MINE LANDS

LAUREL RUN #1

Laurel Run #1 abandoned mine lands project has four (4) main sites which are on opposing sides of the Laurel Run stream and the Laurel Run (Decker's Creek) dam. These sites consists of mixed coal refuse sites with some vegetation, ± 4,200 linear feet of highwalls with an average height of 20 feet, water impoundments along/ around highwalls and multiple open and collapsed portals. Of these portals, one has a 4 ft. x7 ft. opening; however the opening only extends into the highwall 3 ft. to 4 ft. While some of the portals are producing acid mine discharge (AMD) and have pools of AMD at their entrances; not all portals are producing. Because of the slope and dip of the coal seam, some portals are allowing storm water drainage to infiltrate the underground mine. Some passive AMD treatments had already been installed/constructed on this site by the Natural Resources Conservation Service (NRCS). The passive treatment systems installed/ constructed include limestone riprap channels, limestone ponds, highwall subsurface drain (12 in. underdrain) and three (3) settling ponds with limestone rock sediment dams. Thrasher Engineering Inc.'s preferred scope and design for this project included the installation of six (6) wet/modified mine seals in the existing collapsed and open mine portals, plugging five (5) collapsed portals with a 3' clay layer or dry seal to prevent storm water infiltration, and entombing onsite (mixed) coal refuse. The channel conveyances for this site were designed to utilize the existing passive systems by transporting AMD from the portals to those existing treatment structures. Approximately 160,000 cubic yards of material will be moved to backfill existing high walls, cover on-site coal refuse, and grade the project area.



Laurel Run Highwall





WV DEP ABANDONED MINE LANDS

CLARKSBURG (LYONS) LANDSLIDE

This project involved a two (2) acre slide mass composed of strip mine spoil and natural slip prone material located above and behind a residence and recreational pond. Thrasher Engineering Inc.'s preferred scope and design for this project included the construction of a \pm 22' soldier pile and concrete lagging retaining wall with appurtenances to stabilize the slope above the existing residence and pond, as well as, regrading the slip area while installing underdrains and channels to carry water safely through or around the slip area.

ROGER CAMP HILL

Roger Camp Hill abandoned mine lands project has three (3) main refuse sites. Site 1 is a relatively small un-vegetated refuse pile along and existing access road. Site 2 consists of a one-half (1/2) acre impoundment located in the middle of a one (1) acre refuse area, partially vegetated strip spoil, and acid mine drainage (AMD). Most of the refuse is completely un-vegetated, as well as toxic, and leaches into the pond, which has a pH of 2.6. The pond has a maximum depth of three (3) feet with a volume of approximately 169,000 gallons. About 700 feet to the west of the refuse area, there is an AMD seep location at the toe of the old spoil out slope. Field measurements of the seepage indicated a pH of 3.3 Fe>10 mg/l; the flow was estimated at 15 gpm. Site 3 consists of a one-half (1/2) acre refuse pile that is primarily un-vegetated with deep rills. Thrasher Engineering Inc.'s preferred scope and design for this project included dewatering the impoundment, bury or entomb all onsite coal refuse (spoil). Approximately 8,250 cubic yards of material will be moved to backfill the impoundment, cover on-site coal refuse, and grade the project area to drain positive toward proposed vegetated conveyances.



Lyons Landslide



Roger Camp Hill Impoundment



WV DEP ABANDONED MINE LANDS

PLEASANT VALLEY (BROWN) HIGHWALL & PORTALS

Pleasant Valley (Brown) abandoned mine lands project has four (3) main sites which runs along a highwall bench parallel with the Monongalia River. These sites consists of mixed coal refuse sites with some vegetation, ± 4,800 linear feet of highwalls with an average height between 20 to 50 feet, water impoundments along/around highwalls and multiple open and collapsed portals. Of these portals, three have openings and will require bat gates. Some of the portals are producing acid mine discharge (AMD) and have pools of AMD at their entrances. Thrasher Engineering Inc.'s preferred scope and design for this project included the installation of six (6) wet/modified mine seals in the existing collapsed and open mine portals, the installation four (4) bat gate mine seals, and entombing onsite (mixed) coal refuse. Approximately 48,000 cubic yards of material will be moved to backfill existing high walls, cover on-site coal refuse, and grade the project area. Storm water and portal conveyances have been designed to outlet at multiple locations along the highwall to better mimic the natural drainage of the site. This also prevents concentration of flows along the slope to help mitigate future soil erosion.



Pleasant Valley Site





WV DEP ABANDONED MINE LANDS

AMHERSTDALE (LOGAN COUNTY)

PRE-SETTLING BASIN AND PRE-TREATMENT FACILITY PROJECT

The AML affected area was located in Logan County on CR 16, west of the city limits of Man, a distance of approximately 12.6 Miles.

The scope of the project was the design and construction of a pre-settling basin and pre-treatment system to remove metals and turbidity from the existing water sources, allowing the water existing treatment facility to utilize the surface and groundwater.

The scope of services Thrasher Engineering provided for this project included:

Survey, supervision of subsurface investigation, environmental review, preparation of design, drawings, development of construction documents.

WV DEP ABANDONED MINE LANDS – RAGLAND (MINGO COUNTY) WATER LINE EXTENSION PROJECT

Project Description: The AML affected area is located in the Midwestern portion of Mingo County. The area is approximately 2.6 square miles. The scope of services Thrasher Engineering provided for this project included: survey, supervision of subsurface investigation, environmental review, design, development of construction documents.

ACID MINE DRAINAGE / COAL COMPANY EXPERIENCE

Martinka Water Treatment Plant Client: Martinka Coal Mr. Gary Timms Water Treatment Plant Supervisor Fairmont, WV 304-366-5516

This project consisted of the design of a 17.3 MGD Water Treatment Plan to blend mine borehole water with acid mine drainage; the plan removes iron (1000 mg/l (ferric hydroxide) to less than 1 mg/l.

The plant design included:

- Aeration Blending and Stripping Carbon Dioxide
- ☐ Feed Hydrogen Peroxide Shifts chemical equilibrium for utilization of naturally calcium carbonate for neutralization
- Coagulation/Flocculation Three (3) stage tapered flocculation with axial flow propeller mixers and variable frequency drives
- □ Sedimentation Six (6) settling ponds with ferric hydroxide sludge removal and underground injection wells
- Polishing Pond Sodium hexamataphosphate for calcium stabilization.





Dayton Carpenter, P.E., BCEE, Project Engineer was awarded the following for the project: 2002 WV ACEC Gold Award – Engineering Excellence 2002 WV Manufacturer's Association Environmental Leadership Award for Innovative Technology



LAMBERT RUN MITIGATION PROJECT

HIGH TECH CORRIDOR DEVELOPMENT LLC

CLIENT: HIGH TECH CORRIDOR DEVELOPMENT LLC

Mr. Jack Keeley 304-326-0191 PO Box 1532 Clarksburg, WV 26302

This was a cooperative project between High Tech Corridor Development, Inc., WVU National Mine Land Reclamation Center, WVDEP and Guardians of the West Fork Watershed. The project involved the development and construction of a passive treatment system to eliminate a significant AMD source and improve Lambert Run water quality.

TEI's scope of services included:

- Conducted wetland studies
- Developed stream quality monitoring program including chemical and benthic values
- Prepared a mitigation plan that met with USACE approval.
- Survey services
- □ Prepared engineering drawings and construction documents
- Developed permit applications
- Provided construction services









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NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC
	3	EXPERIENCE: 9	WATERLINE DESIGN
NESTOR, MICHAEL – PROJECT ENGINEER			EXPERIENCE: 9
Brief Explanation of Responsibilitie	S Mr. Nestor joined Thrasher Engineering	in 2005 and serves as Project Manager ai	nd Engineer. IVIF. Nestor has a wide
Brief Explanation of Responsibilitie range of experience in residential and commercial si	te develonment projects, utilizing all aspect	s of infrastructure design including street	and lot layout, street profiles,
range of experience in residential and commercial si extensions of public sewer and water systems, storn	water drainage storm water managemen	t, erosion and sediment control plans, an	d NPDES permitting. In addition,
extensions of public sewer and water systems, storn Mr. Nestor oversees all general operations within Th	Porkeley Associates, directing administra	tive staff, CAD technicians, and staff eng	ineers to ensure successful
Mr. Nestor oversees all general operations within it	e Berkeley Associates, an eemig	tal services.	1
Mr. Nestor oversees all general operations within the completion of projects covering site development, so	grveying, material testing, and environment		
and a light	ion)		
EDUCATION (Degree, Year, Specializat	at State University 2003		1
B.S. Civil Engineering Technology – Fairmon	it State Oniversity, 2003		1
MEMBERSHIP IN PROFESSIONAL ORGANIZATION	TIONS	REGISTRATION (Type, Year, St	cate)
MEMBERSHIP IN PROFESSIONAL ORGANIZA		PROFESSIONAL ENGINEER (P.E.,	, 2009, State of West Virginia
☐ American Society of Civil Engineers	ion		
☐ Eastern Panhandle Home Builders Associat	ion		
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13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	INCIPALS AND ASSOCIATES RESPON	NSIBLE FOR AML PROJECT DESIGN	(Furnish complete
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NAME & TITLE (Last, First, Middle Inc.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC
	8	EXPERIENCE: 8	WATERLINE DESIGN
HOVATTER, RICHARD (RJ) – PROJECT MANAGER	°		EXPERIENCE:-
			TEVO Clarkshura
Brief Explanation of Responsibilitie Office. As a graduate of Fairmont State University ar as landslides and mine subsidence of abandoned mine erosion control plans and waterline feasibility studie	nd previous experience Mr. Hovatter has ex ne land. Mr. Hovatter is responsible for the	CENSIVE KNOWIEGGE OF abandoned hime id-	na ana emergency breathers and
EDUCATION (Degree, Year, Specializate Bachelor of Science, 2002, Civil Engineering Te	tion) echnology – Fairmont State University		
MEMBERSHIP IN PROFESSIONAL ORGANIZAT	TONS	REGISTRATION (Type, Year, St	ate)
MEMBERSHIP IN PROFESSIONAL ORGANIZAT	LIONS	☐ Professional Engineer (P.E.), 2009, State of West Virginia
		Professional Engineer (P.E.), 2010, State of Pennsylvania
13. PERSONAL HISTORY STATEMENT OF PR	RINCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIGN	(Furnish complete
data but keep to essentials)		YEARS OF EXPERIENCE	
NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	THE THE PROPERTY OF THE PROPER	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilitie	es		
EDUCATION (Degree, Year, Specializate	tion)		
MEMBERSHIP IN PROFESSIONAL ORGANIZA	TIONS	REGISTRATION (Type, Year, St	cate)
		T .	

14. PRC 'E A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN ' 3 PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AND DES. A SERVICES

Thrasher Engineering, 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.

Thrasher Survey only subcontracts the acquisition of Aerial Photography. All other services associated with Mapping are performed in-house including Aero-Triangulation, Planimetric compilation, surface modeling, contouring and Digital Ortho-rectified imagery.

Thrasher Engineering, 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. Additional Survey Services, added in 2012 include: High Accuracy Monumentation, Astronomic Observations / Orientation, NGS Blue booking, Hydrographic, Terrestrial Scanning, 3D As-builts, 3D monitoring, Sub-surface Utility Location / Designation. Additional equipment – Robotic Total stations, Imaging Stations, 3D Terrestrial Scanners. Other equipment includes:

- Leica T502 Total Station Instrument
- Trimble GPS
- Leica Geosystem System 500 GPS
- Leica Ski Post Processing Software
- Topcon G600 Total Station Instrument
- Leica 303 Total Station Instrument
- Leica 307 Total Station Instrument
- Leica 403 Total Station Instrument
- Leica 405 Total Station Instrument
- Lecia 407 Total Station Instrument
- Lecia 703 Total Station Instrument

15. CURALINT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATE. LINGINEER OF RECORD: SITE DEVELOPMENT PROJECTS

THRASHER ENGINEERING 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 THRASHER ENGINEERING.

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
ROGER (CAMP HILL) AML RECLAMATION TUCKER COUNTY, WV	WV DEP, OFFICE OF AML&R 601 57 TH STREET, SE CHARLESTON, WV 25304	ENGINEERING DESIGN FOR PORTAL SEALING, DRAINAGE AND RETAINING WALL	\$500,000.00	5%
PLEASANT VALLEY AML RECLAMATION MARION COUNTY, WV	WV DEP-DEPARTMENT OF AML 601 57 TH STREET, SE CHARLESTON, WV 25304	ENGINEERING DESIGN FOR PORTAL SEALING, DRAINAGE AND RETAINING WALL		5% 95%
QUIRES CREEK PORTALS / REFUSE PRESTON COUNTY, WV	WV DEP-DEPARTMENT OF AML 601 57 TH STREET, SE CHARLESTON, WV 25304	ENGINEERING DESIGN FOR PORTAL SEALING, DRAINAGE AND BACKFILLING HIGHWALL WITH REFUSE	\$500,000.00	
AUREL RUN #1 PRESTON COUNTY, WV	WV DEP-DEPARTMENT OF AML 601 57 TH STREET, SE CHARLESTON, WV 25304	ENGINEERING DESIGN FOR PORTAL SEALING, DRAINAGE AND BACKFILLING HIGHWALL WITH REFUSE	\$1,500,000.00	40%
LYONS LANDSLIDE HARRISON COUNTY, WV	WV DEP-DEPARTMENT OF AML 601 57 TH STREET, SE CHARLESTON, WV 25304	REPAIR SLIP AREA WITH A PILE RETAINING WALL	\$700,000.00	50%
EXTERRAN / WIILIAMS SITE DEVELOPMENT MARSHALL COUNTY, WV	EXTERRAN / WILLIAMS 2000 CLIFF MILE ROAD PITTSBURGH, PA 15275	SITE DEVELOPMENT	\$20,000,000.00	50%
NORTH CENTRAL WV AIRPORT HARRISON COUNTY, WV VARIOUS – HANGERS /STORM WATER	BENEDUM AIRPORT AUTHORITY RICK ROCK, AIRPORT DIRECTOR 2000 AVIATION WAY BRIDGEPORT, WV	SITE DEVELOPMENT DESIGN (LAND PLANNING, GRADING, UTILITIES) SURVEY, CONST. MGT, MATERIALS TESTING	\$500,000 to \$1,000,000.00	ON-GOING
TOTAL NUMBER OF PROJECTS:		TOTAL ESTIMA	ATED CONSTRUCTION COSTS:	

TOTAL NUMBER OF PROJECTS:

7 (TOTAL IN FULL APPROXIMATELY 30 SITE DEVELOPMENT – APPROXIMATELY 75 MILLION)

\$24,700,000.00 +

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD: WATER TREATMENT AND DISTRIBUTION PROJECTS THRASHER ENGINEERING 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 THRASHER ENGINEERING.

PROJECT NAME, TYPE AND	NAME AND ADDRESS OF	NATURE OF YOUR FIRM'S	CES PROVIDED BY THRASHER ENGINE ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
BARBOUR COUNTY, WV	OWNER CHESTNUT RIDGE PSD 209 S MAIN STREET P.O. BOX 386 PHILIPPI, WV 26416	RESPONSIBILITY FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION.	\$4,500,000	50%
GILMER COUNTY PSD WATER LINE EXTENSION	GILMER COUNTY PSD PO BOX 729 GLENVILLE, WV 26351	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$3,200,000.00	40%
MINGO COUNTY PSD WATER LINE EXTENSION	MINGO COUNTY PSD PO BOX 98 NAUGATUCK, WV 25685	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$1,075,000.00	40%
HAMRICK PSD MOORE/PORTERWOOD EXTENSION TUCKER COUNTY, WV	HAMRICK PSD PO BOX 228 HENDRICKS, WV 26271	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$1,100,000.	35%
LINCOLN COUNTY PSD WATER LINE EXTENSION PROJECTS	LINCOLN PSD P.O. BOX 38 240 LITTLE COAL RIVER RD. ALUM CREEK, WV 25003	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$6,920,000.	25%
TOWN OF CAPON BRIDGE WATERLINE AND PUMP STATION REPLACEMENT	TOWN OF CAPON BRIDGE PO BOX 183 FRANK, WV 24920	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$1,925,000.00	50%
CITY OF SALEM, WEST VIRGINIA WATER LINE REPLACEMENT	SALEM, CITY OF P.O. BOX 352 229 W. MAIN SALEM, WV 26426	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION	\$1,500,000. ATED CONSTRUCTION COSTS:	80%

ESTIMATED COST OF ALL JOBS APPROXIMATELY \$150,000,000.00

CURRENTLY IN PRELIMINARY / DESIGN OR CONSTRUCTION PHASES

15. CUR. IT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATE INGINEER OF RECORD: SANITARY SEWER PROJECTS

THRASHER ENGINEERING 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 THRASHER ENGINEERING.

PROJECT NAME, TYPE AND	NAME AND ADDRESS OF OWNER	NATURE OF YO		ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE		
LOCATION INGWOOD SEWER REPLACEMENT AND SERVICE EXTENSIONS INGWOOD, WV	CITY OF KINGWOOD 313 TUNNELTON STREET KINGWOOD, WV 26537 FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICE SURVEY AND INSPECTION		DESIGN, IIT FRACT SERVICES OF	\$10,000,000.00	50%		
GREATER HARRISON COUNTY PSD PHASE II-B HARRISON COUNTY, WV	GREATER HARRISON COUNTY PSD P.O. BOX 190 WEST MILFORD, WV 26451	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION		\$6,000,000.00	65%		
TENNERTON PSD PHASE III SANITARY SEWER EXTENSION UPSHUR COUNTY, WV	TENNERTON PSD 188 FAYETTE ST. BUCKHANNON, WV 26201	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION		\$6,800,000.00	5%		
ENLARGED HEPZIBAH PSD SANITARY SEWER EXTENSION HARRISON COUNTY, WV	ENLARGED HEPZIBAH PSD DRAWER H HEPZIBAH, WV 26369	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION		FUNDING AND PERMIT APPLICATIONS, CONTRACT		\$2,666,000.00	50%
CITY OF WEIRTON, WV PHASE II SEWER PROJECT	CITY OF WEIRTON 3031 BIRCH DRIVE WEIRTON, WV 26062	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION		\$5,728,000.00	40%		
MALDEN PUBLIC SERVICE DISTRICT SANITARY SEWER REHABILITATION 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.	25%		
TOWN OF JUNIOR WASTEWATER TREATMENT PLANT JUNIOR, WV	TOWN OF JUNIOR PO BOX 247 JUNIOR, WV 26275	FEASIBILITY STUDY, DESIGN, FUNDING AND PERMIT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION		\$2,332,000.00	45%		
TOTAL NUMBER OF PROJECTS: TOTAL ACTIVE SANITRY SEWER PROJ	7 REPRESENTED ECTS APPROXIMATELY 38			ATED CONSTRUCTION COSTS: \$46,0			

15. CUP VT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATF ENGINEER OF RECORD: HIGHWAY, BRIDGE, SIDEWALKS

THRASHER ENGINEERING 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 THRASHER ENGINEERING.

WVDOH- ENGINEERING DESIGN

WVDOH- ENGINEERING	DESIGIV				
PROJECT NAME, TYPE AND	NAME AND ADDRESS OF OWNER	NATURE OF YOUR RESPONSI		ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
LOCATION MINERAL WELLS ROUTE 2 WOOD COUNTY, WV	WVDOT / DOH BLDG. 5, ROOM A-109 1900 KANAWHA BLVD., EAST CHARLESTON, WV 25305	CIVIL ENGINEERING SURVEY, CONSTRU DOCUMENTS		\$6,000,000.00	5%
COUNTY LINE BRIDGE MARSHALL COUNTY, WV	WVDOT / DOH BLDG. 5, ROOM A-109 1900 KANAWHA BLVD., EAST CHARLESTON, WV 25305	CIVIL ENGINEERIN SURVEY, CONSTRU DOCUMENTS		\$1,800,000.00	98%
WVDOH DISTRICT 7 HEADQUARTERS LEWIS COUNTY, WV	WVDOT / DOH BLDG. 5, ROOM A-109 1900 KANAWHA BLVD., EAST CHARLESTON, WV 25305	ARCHITECTURE AN ENGINEERING DES CONSTRUCTION N SURVEY	SIGN,	\$2,300,000.00	90%
I-64 WEIGH STATION PUTNAM COUNTY, WV	WVDOT / DOH BLDG. 5, ROOM A-109 1900 KANAWHA BLVD., EAST CHARLESTON, WV 25305	CIVIL ENGINEERIN SURVEY, CONSTRI DOCUMENTS		\$800,000.00	90%
TOTAL NUMBER OF PROJECTS	:		TOTAL ESTIM	ATED CONSTRUCTION COSTS: #10,900,000.00	

	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST		
			ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY		
SERKELEY COUNTY PUBLIC SERVICE SEWER DISTRICT WASTEWATER TREATMENT PLANT	DESIGN SUPPORT CONSTRUCTION ADMIN.	BERKELEY COUNTY PSSD PO BOX 944 MARTINSBURG, WV 25402	2015	\$20,000,000.00	\$10,000,000.00	
BERKELY COUNTY,WV RD BAILY WATER SYSTEM MCGRAWS, WV	DESIGN SUPPPORT CONSTRUCTION ADM.	RAVENCLIFF-MCGRAWS- SAULSVILLE PSD P.O. BOX 217 MCGRAWS, WV 25875	2016	\$30,000,000.00	\$12,000,000.00	

TODA HIBITA TAC	T 5 YEARS ON WHICH YOUR FIR.	AS THE DESIGNATED ENGINEER OF RECOR	D	
PROJECT NAME, TYPE	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
AND LOCATION MCHENRY BUSINESS PARK SITE DEVELOPMENT AND UTILITIES GARRETT COUNTY, MD	GARRETT COUNTY EDA 203 SOUTH 4TH STREET COURTHOUSE ROOM 208 OAKLAND, MD 21550	\$3,500,000.00	2011	YES
OVERFIELD AFFERTY CSP BARBOUR COUNTY, WV	301-334-1921 WV DEP-DEPARTMENT OF AML 601 57 TH STREET, SE CHARLESTON, WV 25304	\$450,000.00	2012	YES
WHITE OAKS BUSINESS PARK SITE DEVELOPMENT AND UTILITIES HARRISON COUNTY, WV	HIGH TECH CORRIDOR DEVELOPMENT,LLC MR. JACK KEELEY PO BOX 1532 CLARKSBURG, WV 26302	\$12,100,000.00	2010	YES
CANYON PUBLIC SERVICE DISTRICT SANITARY SEWER UPGRADE AND EXT MONONGALIA COUNTY, WV	CANYON PSD 12 WICHITA STREET MORGANTOWN, WV 26508	\$6,500,000.	2009	YES
TOWN OF FARMINGTON SEWER LINE EXTENSION MARION COUNTY,WV	TOWN OF FARMINGTON 1314 MILL STREET FARMINGTON, WV 26571	\$325,000	2008	YES
CHESTNUT RIDGE PSD BARBOUR/PRESTON EXTENSION BARBOUR COUNTY, WV	CHESTNUT RIDGE PSD 209 S MAIN STREET P.O. BOX 386 PHILIPPI, WV 26416	\$9,500,000	2008	YES
TOWN OF ELIZABETH, JESSICA LYNCH WATER LINE EXTENSION WIRT COUNTY, WV	TOWN OF ELIZABETH 200 BEVERLY STREET P.O. BOX 478 FLIZABETH, WV 26143	\$3,600,000	2008	YES
GILMER COUNTY PSD DUSK CAMP WATER LINE EXTENSION GILMER COUNTY, WV	GILMER COUNTY PSD 232 W. MAIN STREET GLENVILLE, WV 26351	\$2,500,000	2008	YES
HAMRICK PSD MOORE/PORTERWOOD EXTENSION TUCKER COUNTY, WV	HAMRICK PSD PO BOX 228 HENDRICKS, WV 26271	\$1,100,000	2008	YES
CITY OF CAMERON WATER STORAGE TAML MARSHALL COUNTY, WV	CITY OF CAMERON 44 MAIN STREET CAMERON, WV 26033	\$200,000.00	2008	YES
TOWN OF ROWLESBURG WATER TREATMENT PLANT/ EXT. PRESTON COUNTY, WV	TOWN OF ROWLESBURG PO BOX 458 42 POPLAR STREET ROWLESBURG, WV 26425	\$4,500,000	2008	YES
NORTON-HARDING-JIMTOWN PSD KINGSVILLE EXTENSION RANDOLPH COUNTY, WV	P.O. BOX 87 – SCOTT ROAD NORTON, WV 26285	\$1,325,000	2008	YES

OJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	(: OR NO)
HEPIZIBAH PSD SANITARY SEWER EXTENSION HARRISON COUNTY, WV	ENLARGED HEPZIBAH DRAWER H HEPZIBAH, WV 26369	\$3,400,000	2010	YES
CITY OF RIPLEY – MAIN STREET REVITALIZATION – JACKSON CO.	CITY OF RIPLEY 203 SOUTH CHURCH ST. RIPLEY, WV 25271	\$1,200,000.	2008	YES
SUN VALLEY WATER AND SEWER SYSTEM IMPROVEMENTS REYNOLDSVILLE, WV	SUN VALLEY PSD PO BOX 95 REYNOLDSVILLE, WV 26422	\$12,500,000	2010	YES
HODGESVILLE PUBLIC SERVICE DISTRICT; DESIGN AND CONSTRUCTION OF WATER LINE EXTENSION, BOOSTER STATIONS, AND WATER STORAGE TANK	HODGESVILLE PUBLIC SERVICE DISTRICT 188 FAYETTE STREET P.O. BOX 758 BUCKHANNON, WV 26201	\$3,100,000	2004	YES
BROOKE COUNTY PSD REPLACEMENT AND EXTENSION BROOKE COUNTY, WV	BROOKE CO. PSD 711 CHARLES ST. P. O. BOX 150 WELLSBURG, WV 26070	\$10,000,000	2009	YES
HUTTONSVILLE PSD PHASE II RANDOLPH COUNTY, WV	HUTTONSVILLE PSD P.O. BOX 277 MILL CREEK, WV 26280	\$4,300,000	2009	YES
POCAHONTAS COUNTY PSD WWTP AND COLLECTION SYSTEM POCAHONTAS COUNTY, WV	POCAHONTAS COUNTY PSD HC 63 BOX 122 FRANK, WV 24920	\$11,600,000	2009	YES
HARDY COUNTY WATER SYSTEM IMPROVEMENTS HARDY COUNTY, WV	HARDY COUNTY PSD 223 N. MAIN STREET MOOREFIELD, WV 26836	\$8,000,000	2010	YES

17. COMPLETED WORK WITHIN LAST 5	YEARS ON WHICH YOU WERE THE DESIG	NATED ENGINEER OF RECORD	- Davidson sand	
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
NICHOLAS COUNTY BUSINESS PARK, NICHOLAS COUNTY, WV SITE DEVELOPMENT	NICHOLAS CO BLDG COMMISSION 700 MAIN STREET, SUITE 1 SUMMERSVILLE, WV 26651	\$2,500.000.00	2008	YES
GILMER COUNTY PSD DUSK CAMP WATER LINE EXTENSION GILMER COUNTY, WV	GILMER COUNTY PSD 232 W. MAIN STREET GLENVILLE, WV 26351	\$2,500,000	2008	YES
SOUTHWESTERN PSD WATER LINE EXTENSION / REPLACEMENT	SOUTHWESTERN WATER PUBLIC SERVICE DISTRICT P. O. BOX 98 FLEMINGTON, WV 26347	\$10,430,000	2012.	YES
CITY OF CAMERON WATER STORAGE TANK MARSHALL COUNTY, WV	CITY OF CAMERON 44 MAIN STREET CAMERON, WV 26033	\$2,000,000.00	2008	YES
TOWN OF ROWLESBURG WATER TREATMENT PLANT/ EXT. PRESTON COUNTY, WV	TOWN OF ROWLESBURG PO BOX 458 42 POPLAR STREET ROWLESBURG, WV 26425	\$4,500,000.	2010	YES
JAKES RUN BRIDGE MONONGALIA COUNTY, WV	WVDOT/DOH 1900 KANAWHA BLVD EAST CHARLESTON, WV 25305	\$1,300,000.	2008	YES
ICG – THREE FORKS BRIDGE TAYLOR COUNTY	INTERNATIONAL COAL GROUP, INC. 2000 ASHLAND DRIVE ASHLAND, KY 41101	\$1,119,000.00	2008	YES

PROJECT NAME, TYPE	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
AND LOCATION MC DOWELL COUNTY EDERAL PRISON WELCH, WV SITE DEVELOPMENT	US DEPARTMENT OF JUSTICE FEDERAL BUREAU OF PRISONS 500 FIRST STREET NW WASHINGTON, DC 20534	\$25,000,000.00	2010	YES	BELL JUSTICE FACILITIES
AIRMONT STATE UNIVERSITY CREATIVE ARTS AND ENGINEERING TECH BUILDING SITE DEVELOPMENT	FAIRMONT STATE UNIVERSITY 1201 LOCUST AVENUE FAIRMONT, WV 26554-2491	\$100,000.00	2008	YES	DESIGN ALLIANCE OMNI ASSOCIATES
FAIRMONT, WV CITY OF BECKLEY INTERMODAL GATEWAY	CITY OF BECKLEY 409 S. KANAWHA STREET BECKLEY, WV 25801	\$250,000.00	2012	YES	PARSONS BRINCKERHOF

SEE ATTACHMENT – STATEMENT OF QUALIFICATIONS

20.	THE	FOREGOING	IS	A STATEME	NT	OF	FACTS.	

SIGNATURE: Charles Select TITLE: PARTNER / PRINCIPAL-IN-CHARGE

DATE: MARCH 1, 2013

PRINTED NAME: CHADWICK D. BILLER, P.E.

	The Control of the sale																						
AML and RELATED PROJE	CT EXPE	RIENCE MA	TRIX		_		Dr	OUTOT	EVDED	IENCE	PEOUII	REMENT	S					PRIM	IARY STA	FF PART	ICIPATIO	N/CAPACI	TY
							PF	TOJECT	EXPEN	IENCL							>			nagement			
PROJECT	Exp. Basis C=Corp. P=Personal	Additional Info Provided in Section (s)	Abandoned Surface Mine Reclamation	Abandoned 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/Nitigation/ Replacement	Construction Inspection/Manageme nt	Water Treatment	Eq;uipment/Structure Removal	Stream Restoration	Geotechnical/Stability	CHAD BILLER, PE	APRIL ROHRBAUGH	MIKE NESTOR. PE	RJ HOVATTER, PE	NOVEL - LARRY NOTTINGHAM, PE	
					J. I					r'qen													
SQUIRE CREEK	C/P	5	×		X	X					X				X		X	М		Р		Р	0111
	C/P	5	×		X	X					X						X	М		Р		Р	
ANGLINS RUN				1.00					×		X					X	Х	М	Р			Р	
ROARING CREEK	C/P	5	X	X	X	X											X	М	Р			P	
OVERFIELD / LAFFERTY	C/P	5	X		X	X	-				X					7/2/2			P			Р	
LAURAL RUN	C/P	5	X		X	X					X					X	Х	M					
LYONS LANDSLIDE	C/P	5	X			X					X						X	M	Р			P	
PLEASANT VALLEY	C/P	5	X	_	X	X					X						X	M	Р			P	
ROGER CAMP HILL	C/P	5	X			X					X	X					X	M	Р			Р	
AMERHERSTDALE WTP	С	5	X						_		X			X			X						
MINGO COUNTY											X		X										
WATERLINE	С	5			-	+		+									V-000						
WHITE OAKS PASSIVE MINE TREATMENT	С	5		X		X					X	X	X	X		X	X						
WVDEP THOMAS NE		He line			V		1				X				d'		X				Р		
PHASE I, II, III	Р		X		X	+		+															
OHIO DNR MERKEL LANDSLIDE	Р		X								X						X				Р		

^{*} 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.



DATE PRINTED

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

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TYPE NAME/ADDRESS HERE
Thrasher Engineering, Inc.
30 Columbia Boulevard
Clarksburg, WV 26301

Solicitation

NUMBER

DEP16160

PAGE 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:

FRANK WHITTAKER

SHIP PTO ENVIRONMENTAL PROTECTION
DEPARTMENT OF
OFFICE OF AML&R
601 57TH STREET SE
CHARLESTON, WV
25304 304-926-0499

02/14/2013 BID OPENING DATE: -1:30PMOPENING TIME 03/05/2013 AMOUNT UNIT PRICE ITEM NUMBER QUANTITY LINE ADDENDUM NO. 01 1. ADDENDUM ISSUED TO REPLACE PAGE 7 OF THE ORIGINAL SOLICITATION WITH THE ATTACHED REVISED PAGE THAT CORRECTS ITEM 1 WHICH IDENTIFIED THE PROJECT COUNTY INCORRECTLY. TO PROVIDE ADDENDUM ACKNOWLEDGEMENT. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN THE DISQUALIFICATION OF YOUR BID. END OF ADDENDUM NO. 01 ********* *****

SIGNATURE

had Bell

TELEPHONE 304-624-4108

DATE March 4, 2013

^{πιε} Principal-In-Charge

55-0633596-6

ADDRESS CHANGES TO BE NOTED ABOVE

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: DEP16160

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.

ereby acknowledge receipt of the following addenda and have made the

Acknov iecessai	vled ry r	lgm evis	ent: I hereby acknowledge resions to my proposal, plans and	eceij d/or	ot o spe	cification, etc.
Addena (Check	lun the	n N	umbers Received: x next to each addendum recei	ved)	
	√		Addendum No. 1	[]	Addendum No. 6
	[]	Addendum No. 2	[]	Addendum No. 7
]]	Addendum No. 3	1]	Addendum No. 8
]]	Addendum No. 4]]	Addendum No. 9
	[]	Addendum No. 5]]	Addendum No. 10
further	un	ders	stand that any verbal represent	atio tativ	n m es a spec	Idenda may be cause for rejection of this bid. I ade or assumed to be made during any oral and any state personnel is not binding. Only the diffications by an official addendum is binding.
					hra	sher Engineering, Inc.
					/	Vive Bell
				95.		Authorized Signature
				N	Лar	ch 4, 2013
				-		Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing. Revised 6/8/2012

DEO No	DEP16160
RFQ No.	

STATE OF WEST VIRGINIA **Purchasing Division**

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: 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 the debt owned is an amount greater than one thousand dollars in the aggregate

"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.

"Debtor" means any individual, corporation, partnership, association, Limited Liability Company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "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.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this 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.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

WILLIAM THE LOCKS THE	
Vendor's Name: Thrasher Engineering, I	nc.
Authorized Signature:	Beel Date: March 4, 2013
Authorized Signature:	V Jeen
State of West Virginia	
County of Harrison , to-wit:	
Taken, subscribed, and sworn to before me this	day of, 20
My Commission expires	, 20
AFFIX SEAL HERE	NOTORY PUBLIC

CERTIFICATION AND SIGNATURE PAGE

By signing below, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

(Company)	
Ploal	Belle
(Authorized Signature)	
Principal-In-Charge	
(Representative Name, Titl	e)
304-624-4108	304-624-7831
(Phone Number)	(Fax Number)
March 4, 2013	
(Date)	