

W.Va. Division of Natural Resources



Stonewall Jackson State Park Pedestrian Boardwalk System

RFQ# DNR209169

May 12, 2009

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PROCURING DIVISION
STATE OF WV

THRASHER
ENGINEERING
CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES

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May 12, 2009

Department of Administration
Mr. Frank Whittaker
Purchasing Division
Building 15
2019 Washington Street, East
Charleston, West Virginia 25305-0130

RE: *Expression of Interest for Architectural / Engineering Services for a Timber Pile-Supported Pedestrian Boardwalk System at Stonewall Jackson Resort State Park*

Dear Mr. Whittaker, members of the DNR and other pertinent parties:

As demonstrated in this Expression of Interest, Thrasher Engineering is experienced in the design of pedestrian bridges, including a timber-pile supported trail done at a golf course in Maryland by the project manager assigned to this project. This experience will be of great benefit to the Division of Natural Resources and the Stonewall Jackson Resort State Park. We greatly appreciate the opportunity to present our qualifications in one (1) original and two (2) copies of this proposal and look forward to becoming your partner on this endeavor.

In addition to our thorough understanding of your needs, the benefits we offer as the engineering firm selected for this project include:

- 1. *Location:*** As our home offices are located in Clarksburg, we are less than an hour away from the Stonewall Jackson Resort. Our location at the Business & Technology Centre is just minutes from Interstate 79 and will allow us to immediately respond to any needs of the DNR that may arise in a timely and cost efficient manner throughout all phases of the analysis.
- 2. *Experience with Pedestrian Bridges and Recreational Projects:*** Thrasher Engineering has recently provided engineering design services for the planning, design and construction of several pedestrian bridges. Our experience with previous entities is included in our "Representative Project Experience Section." Our previous experience will be advantageous to the success of this project.
- 3. *Personnel:*** The personnel Thrasher Engineering has assigned to this project are experienced in the study and design of pedestrian bridges, in addition to understanding environmental impact. Additionally, the current workload of the staff will allow them to complete the study and design in the time frame sought by the DNR.

4. ***Accurate Project Estimating:*** Once the DNR and other key parties agree on the final plans specifications, our track record of accurately estimating construction costs is one of the strongest reasons we have repeat customers and long-term relationships with our clients. Through good design and careful estimating, we save our clients time and money.

Along with these aspects of our abilities, our philosophy of utilizing a ***teamwork approach*** will be the key factor to a successful project. We listen to our clients and their needs, we work hand-in-hand with regulatory agencies to meet their criteria and we work closely with project administrators, counsel and consultants. Our success with this approach is shown in the repeat clientele and references included with the representative projects listed in this proposal.

We are aware of, and comply with Title VI of the Civil Rights Act of 1954, Executive Order 11246, Section 109 of the Housing and Urban Development Act of 1968, Conflict of Interest Statement and Access to Records provisions and all other requirements as they relate to federal and state funded projects.

We look forward to the opportunity of meeting with you and representatives of the Division of Natural Resources and the Stonewall Jackson Resort State park to discuss your needs and how Thrasher Engineering can provide the patrons of the parks and others who will utilize this boardwalk the quality of engineering services required.

Sincerely,

THRASHER ENGINEERING, INC.



Chad M. Riley, P.E.
Principal-In-Charge / Partner

*Expression of Interest
for*
**Architectural / Engineering Services for
the West Virginia
Division of Natural Resources**

**“Pedestrian Boardwalk System for
Stonewall Jackson Resort State Park”**

RFQ# DNR209169

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Stonewall Jackson State Park Boardwalk

Firm Overview

Established 1983

Officers	H. Wood Thrasher, P.E.	Administration
	Kenneth P. Moran, P.E.	Public Utilities
	Kurt L. Newbrough, P.S.	Survey
	Wm. Randy Watson	Public Utilities
	Chadwick Biller, P.E.	Site Development / Highway / Airport
	Chad Riley, P.E.	Site Development
	Clay P. Riley, P.E.	Public Utilities / Site Development
	Daniel E. Ferrell, P.E.	Public Utilities
Aaron Denham	Materials Testing and Inspection	

Scope of Services Public Work – Water / Sewer / Treatment Plants / Facility Plans / Business and Industrial Parks
 Environmental Engineering / Assessment / Permitting
 Architecture – New Construction / Renovations / Additions
 Site Development – Schools / Commercial Properties
 Highway Design
 GIS Mapping
 Land Surveying, Platting, Legal Description Preparation
 General Civil Engineering – Municipal Engineering / Subdivisions/
 Paving
 Construction Management / Materials Testing / Inspection

Offices 30 Columbia Boulevard, Clarksburg, WV
 300 Association Drive, Charleston, WV
 3000 Thayer Center, Oakland, MD

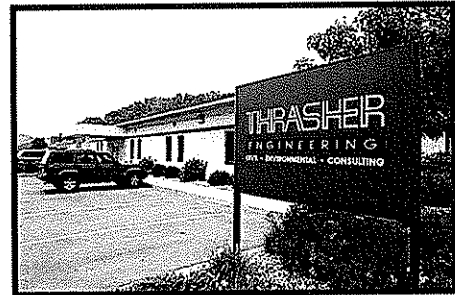
Employees 140+ persons, including: Registered Professional Engineers, Registered Professional Surveyors, Environmental Engineers, Engineer Interns, Graduate Engineers, Landscape Architect, Project Designers, Engineer Technicians, CADD Operators, Construction Inspectors, Surveyors, and Office Support

Typical Projects

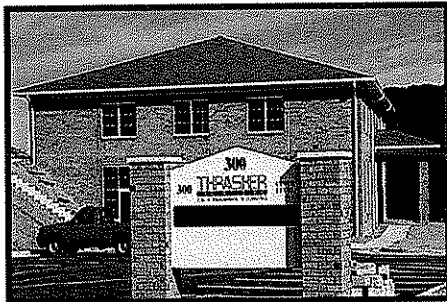
\$ 250,000 - \$15,000,000.	– Sewer Projects
\$ 250,000 - \$22,000,000	– Water Projects
\$ 500,000 - \$15,000,000	– Airport Development Projects
\$ 250,000 - \$ 8,000,000	– Site Development Projects
\$ 50,000 - \$ 250,000	– Street Paving and Drainage Projects
\$ 750,000 +- Per Year	– Surveying and CADD Work
\$ 50,000 - \$ 5,000,000	– Architecture

Firm History

Thrasher Engineering, Inc. is a civil engineering consulting firm specializing in all facets of engineering from public works projects to site development efforts. The majority of Thrasher Engineering's work involves publicly funded water treatment and distribution systems, sewage collection and treatment systems, industrial and business park development, as well as transportation engineering including airports, roadways and bridges. In 2005, we added architectural services to the firm.



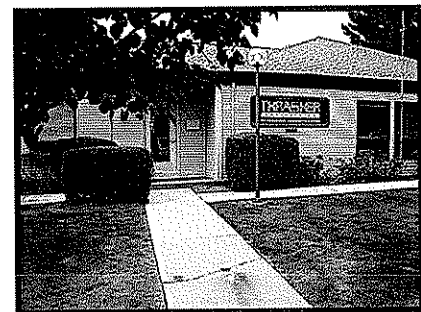
H. Wood Thrasher and Henry A. Thrasher formed the company in 1983 with a commitment to excellence and professionalism in engineering. **H. Wood Thrasher, P.E.** remains principal of the company; also serving as principals are **Kenneth P. Moran, P.E.**, **Wm. Randy Watson** and **Kurt L. Newbrough, P.S.**



Thrasher Engineering is a part of Resource Engineering Group, Inc., a holding company of five of West Virginia's leading engineering and architectural firms. Thrasher Engineering is based in **Clarksburg, West Virginia** with branch offices in **Charleston, West Virginia** and **Oakland, Maryland**. The Oakland office was opened in early 2004 to serve customers in the eastern portion of West Virginia and the western portion of Maryland, while our Charleston office is able to effectively meet the needs of our southern clients, well into Virginia. **The Berkeley Associates**, located in **Martinsburg, West Virginia**, allows Thrasher Engineering an additional location from which to serve clients in the Eastern Panhandle of West Virginia. **Pentree, Incorporated**, also a civil engineering firm, is located in Princeton, West Virginia.

FIRM SIZE

Since its formation the company has grown to a firm of more than 170 persons. This staff includes 25 engineers, 12 of whom are registered professional engineers. The Survey Department of this company includes four registered professional surveyors. The Thrasher Engineering team also includes engineer technicians, project designers, CADD operators, construction inspectors and the administrative / office support team. As we've grown, we've paid careful attention to maintain the personal touch that has helped us to reach our present size.



Services Offered

Thrasher Engineering offers the full complement of services necessary to provide the DNR with services for a timber-pile supported pedestrian boardwalk system for the Stonewall Resort State Park in Roanoke. Thrasher Engineering is capable to provide the engineering, design and construction management for your boardwalk. We provide high quality engineering study and design, along with survey and field services to municipalities and other government entities as well as private clients throughout West Virginia and in surrounding states. A large part of our work involves site development projects, including outdoor recreational facilities and venues. We also have the resources to provide the environmental services required for these projects, along with architectural and landscaping design as needed for facilities. Additionally, Thrasher Engineering's Field Services Division provides surveying, construction management and inspection along with materials testing that meet and exceed regulations required by state and federal agencies.

The services we offer that relate directly to the Division of Natural Resources Stonewall Jackson State Park Boardwalk includes:

CIVIL ENGINEERING

SITE DEVELOPMENT / RECREATIONAL FACILITIES

The successful design and construction of outdoor recreational facilities from boardwalks to trails demands a combination of technical expertise in many areas; Thrasher Engineering, Inc. offers the resources to provide all of the services necessary and has a track record of successful projects.

Services the firm provides for recreational projects include:

- Site Selection and Evaluation
- Survey
- Environmental Assessment/ Design / Permitting
- Engineering design for grading / drainage / trail alignment
- Architectural Design for supporting facilities
- Construction Management and Inspection
- Materials Testing

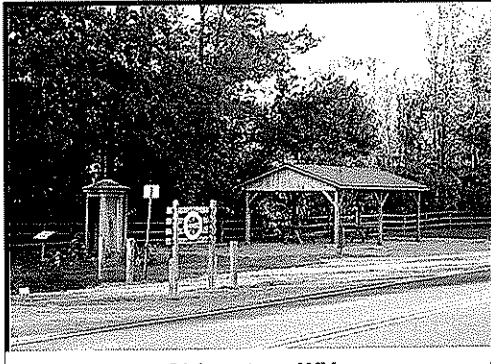


*City of Bridgeport, WV
City Park Walking Trail*

Our objective in the design of recreational / public use facilities is to go beyond just the engineering aspect of the project; we work as a team with clients to understand their present

Stonewall Jackson State Park Boardwalk

and future needs. With that information, the team works with them to evaluate site locations and present designs that best suit their short and long- term goals.



*Shinnston, WV
Rail Trail Head*

Recreational Project Experience Includes:

- ❑ Rail to Trail areas
- ❑ Recreation Trails
- ❑ City Parks – Conceptual Planning and Design
- ❑ Athletic Fields – Soccer / Football – Colleges and Universities / High Schools / Community Facilities
- ❑ Recreational Resorts/ Lodging

ENVIRONMENTAL SERVICES

Thrasher Engineering has extensive direct experience in all aspects of environmental assessment and remediation. As a result, the staff can manage your project locally and draw upon the expertise required for efficient, cost effective implementation. This approach allows both the local access and control clients require, plus the technical expertise necessary to meet the needs in the increasingly complex area of state and federal environmental regulation.



Services Include:

- ❑ Environmental Assessments and Audits
- ❑ Air Compliance Management
- ❑ Hydrogeologic and Geologic Investigations
- ❑ Ground-Water Monitoring
Sampling and Laboratory Analysis
- ❑ Water and Wastewater Treatment Systems
- ❑ Remediation Investigation and Feasibility Studies,
Alternatives and Design
- ❑ Solid and Hazardous Waste Management
- ❑ Risk Assessments
- ❑ Permit Applications
- ❑ Voluntary Remediation and Redevelopment Act Program
- ❑ Mitigation Plans
- ❑ Environmental Impact
Statements and Assessments
- ❑ Permitting Assistance
- ❑ Ecological Studies - Endangered Species Surveys, and Section 7 ESA Consultation
- ❑ Wetland Delineation,
Design, and Mitigation
- ❑ Stream Assessments, Design, and Mitigation

FIELD SERVICES

SURVEY

Thrasher Engineering's Land Surveying Department performs a wide range of services, not only in conjunction with Thrasher Engineering projects, but independently for both public and private clients. Our survey crews, which include four staff members with Professional Surveyor certifications, conduct surveys for a wide variety of projects, including:



- ❑ Pre and post mine subsidence surveys
- ❑ GPS ground control surveys for aerial mapping
- ❑ Right-of-way surveying.
- ❑ Landfill closure surveys
- ❑ Topographic surveys
- ❑ Construction layout for site development projects, highways, railroads, sanitary sewer systems and wastewater treatment plants
- ❑ Lake and river sounding surveys
- ❑ Boundary surveys
- ❑ ALTA/ACSM surveys
- ❑ Pre and post blasting surveys
- ❑ West Virginia Department of Transportation Division of Highways surveys

Thrasher Engineering's survey crews are equipped with the latest in conventional and GPS survey equipment.

- ❑ Two Leica Real Time GPS systems
- ❑ Seven Leica electronic total stations
- ❑ Topcon total station

This equipment allows the firm to currently staff eight conventional survey crews and two GPS survey crews. The survey crews and office support staff can easily provide generated field data in virtually any digital format referenced to specified projection systems. 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.

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CONSTRUCTION MANAGEMENT

Thrasher Engineering knows how projects are built. We provide the knowledgeable and experienced personnel necessary to manage the construction phase of any project.

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, they apply construction management and inspection expertise to ensure successful projects. Both construction managers and inspectors have years of experience; many of whom are certified by the West Virginia Department of Transportation / Division of Highways.



Construction Management Services include:

- Site Layout
- Construction Stakeout
- Inspection
- Quality Control
- Project Administration

ADDITIONAL SERVICES

As a full service architectural/engineering firm, Thrasher Engineering, Inc. has the ability to meet the full gamut of requirements of any project. During our 26-year history, our service portfolio has grown to include transportation engineering, landscape architecture, architecture, environmental reporting, materials testing, funding assistance, sanitary sewer, water projects and the proper administration of projects through our experienced staff. Many of these services would not be utilized in the DNR's project, but they are available in the event a situation presents itself requiring other aspects of the engineering realm. Thrasher's diversification will provide the DNR and Stonewall Jackson State Park with a peace of mind that any potential need can be met.

Project Understanding/Approach

The West Virginia Division of Natural Resources is looking to design and construct a Timber Pile-Supported Pedestrian Board System at Stonewall Jackson Resort State Park. The trail would connect the existing campground at the State park to the lodge complex.

In order to meet the needs of the DNR and those utilizing the services at Stonewall Jackson Resort State Park, the project will begin with an understanding of the area in question. By meeting with DNR and Stonewall Resort officials, a determination can be made as to the best location of the boardwalk. Concluding the best site to install the boardwalk will be the first of many critical steps in the process.

Once a location is determined, several considerations will figure into the direction of design. The length of the boardwalk, safety and environmental disturbances will all figure prominently into the approved design of the boardwalk. During this phase, consideration may also be given to whether the boardwalk will exclusively handle pedestrian traffic or may also handle light vehicular use.

As those issues are settled, the location will be surveyed by Thrasher Engineering Inc.'s experienced survey crew. From those surveys, the plans and specifications can be drawn up, leading to a meeting with the owner / client – in this case the West Virginia Division of Natural Resources. By meeting with the DNR and other key parties, the plans will be reviewed, changes made as needed and cost estimates discussed in order to make sure an effective and economical plan is developed.

TEI will also begin the process of sending out all necessary permits to aid in moving the process forward in a time-convenient fashion. Thrasher Engineering has experience in the procurement of permits from groups such as the Division of Culture and History, the U.S. Army Corps of Engineers, the Division of Environmental Protection and many other agencies that require environmental and regulatory permits.

After those involved have agreed on the plans, a final set of detailed plans and specifications will be prepared. With approval of the client of those final plans, the project will be put out to bid. Thrasher Engineering will assist in the evaluation of the contractor bids to insure compliance with the agreed upon design parameters. Construction Management and testing services are also available and the depth / experience of our staff will allow for Thrasher Engineering to provide other necessary related services needed by the DNR that may arise.

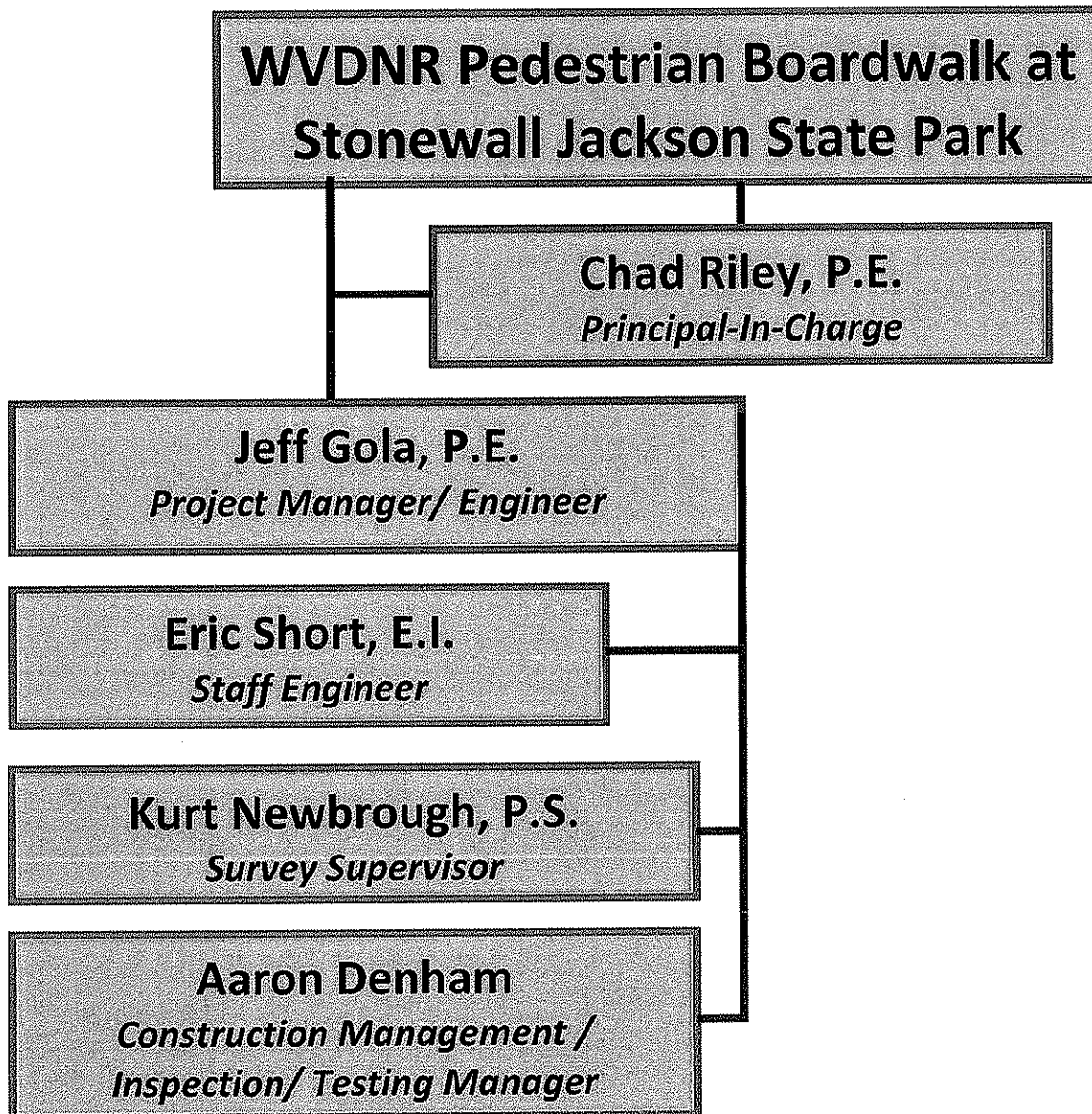
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DNR Project Team

ORGANIZATIONAL CHART

The DNR / Stonewall Jackson State Park project is one that will need a basic, streamlined team of qualified personnel experienced in similar projects. Thrasher Engineering has assigned a team of talented and experienced professionals familiar with the effort the DNR is undertaking. These professionals will meet and exceed your needs in a time and cost efficient manner.

The organization chart, summary of key staff members and personal profiles follow.



Stonewall Jackson State Park Boardwalk

STAFF SUMMARIES

The Thrasher Engineering team for West Virginia Division of Natural Resources project will be led by **Chad Riley, P.E.**, who is a Partner in Thrasher Engineering. Mr. Riley will serve as **Principal-In-Charge**. He has served as Project Manager and Project Engineer for the majority of site development projects designed by the firm, including streetscapes for the campus of Fairmont State University and numerous business parks. He is a graduate of Fairmont State University with a Bachelor of Science degree in Civil Engineering Technology.

Providing management and design will be **Jeff Gola, P.E.** In the role of **Project Manager** and **Project Engineer**, Mr. Gola has designed roadways, recreational venues and sidewalks for numerous Thrasher Engineering clients, including the a timber trail as part of the Thousand Acres Golf Course and surrounding residential units. He has also done work for the Cities of Ripley, Mannington and Pleasant Valley, along with industrial and business parks developers. Mr. Gola graduated Summa Cum Laude from West Virginia University with a degree in Civil Engineering.

Serving as **Staff Engineer** will be **Eric Short, E.I.** Mr. Short works with Mr. Gola on design of all sidewalk / recreational trail projects. He received his Bachelor of Science Degree in Civil Engineering Technology from Fairmont State University.

Kurt Newbrough, P.S. will supervise all survey, mapping and any right of way elements of the project. Mr. Newbrough is a Principal and Partner in Thrasher Engineering and has more than 25 years of experience in all aspects of ground survey.

Aaron Denham will be responsible for the supervision and assignment of inspection and testing personnel. He brings experience and certifications necessary to the project in order to successfully complete the boardwalk. The majority of Mr. Denham's staff is certified to the exacting standards of the WVDOH, which will ensure that your project will meet and exceed regulations.

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STAFF PERSONAL PROFILES FOLLOW:

Chad Mitchell Riley, P.E.
Principal-In-Charge / Site Development Manager



SUMMARY OF EXPERIENCE

Mr. Riley joined Thrasher Engineering in 1996 and became a partner in the firm in 2004. His past experience with the firm has included survey and construction management / inspection responsibilities; he now holds the responsibility of Site Development Manager and lead engineer for site development projects. The focus of these projects is for the development of industrial and business parks, multi-use developments and long-term, multi-phase infrastructure improvement project. He has extensive experience in working with both Federal and State funding agencies, including the US Department of Commerce, Economic Development Authority and the State of West Virginia Development Office.

REPRESENTATIVE PROJECTS

Mr. Riley is currently, or has served, as Project Manager for numerous economic development projects throughout the State of West Virginia. In this capacity, he holds ultimate responsibility for client communication, engineering design, funding issues, construction document preparation, bidding, and construction management. He also serves as "Owner's Representative" as a liaison between Architects, Contractors and clients.

SITE DEVELOPMENT PROJECTS

- ❑ **FAIRMONT STATE UNIVERSITY: 10-YEAR INFRASTRUCTURE IMPROVEMENTS PROJECT:**
 - Utilities, Roadways, Sidewalks, Storm Drainage, Utility Relocation
 - Parking Garage
 - Falcon Center (Student Activity Center)
 - Bryant Place Dormitory
- ❑ **RALEIGH COUNTY MEMORIAL AIRPORT INDUSTRIAL PARK**
- ❑ **McDOWELL COUNTY PRISON**
- ❑ **PINECREST BUSINESS AND TECHNOLOGY PARK –RALEIGH COUNTY, WV**
- ❑ **WOLF CREEK PARK "LIVE, WORK AND PLAY" COMMUNITY – FAYETTE COUNTY, WV**
- ❑ **CHARLES POINTE DEVELOPMENT – BRIDGEPORT, WV**
 - Mass Grading, Roadways, Sidewalks, Utilities
 - Conference Center
- ❑ **WOOD PRODUCTS INDUSTRIAL PARK – MINGO COUNTY, WV**
- ❑ **PUTNAM COUNTY INDUSTRIAL PARK**
- ❑ **BELINGTON INDUSTRIAL PARK – BARBOUR COUNTY, WV**
- ❑ **FEDERAL BUREAU OF PRISONS**
 - Glenville Correctional Institute – Gilmer County, WV
 - Canaan U.S. Penitentiary / Federal Prison Camp
- ❑ **U.S. DEPARTMENT OF VETERANS AFFAIRS – WEST VIRGINIA NATIONAL CEMETERY EXPANSION**

EDUCATION

FAIRMONT STATE UNIVERSITY – Bachelor of Science, Civil Engineering Technology

Stonewall Jackson State Park Boardwalk

REGISTRATIONS

- Registered Professional Engineer, State of West Virginia*
- Registered Professional Engineer, State of Maryland*
- WVDOH Certified Concrete Technician*
- WVDOH Certified Compaction Technician*

AFFILIATIONS

- Fairmont State University Technology Advisory Committee*
- Fairmont State University "Distinguished Alumni" Award*

Stonewall Jackson State Park Boardwalk

JEFFREY L. GOLA, P.E.
Project Manager/Engineer



SUMMARY OF EXPERIENCE

Mr. Gola joined Thrasher Engineering in 1998 and serves as Project Manager/Engineer on Highway Projects, Community Improvement Projects, and Commercial Site Development Projects. He is experienced in all aspects of the project control, from design and drafting to the bidding process to the over site of the construction inspection. Specialties include:

- Highway Engineering: planning and design of roadways and sidewalks.
- Structural Engineering: design of bridges, retaining walls, and utility plant structures.
- Site/Land Development: design of roads, drainage, storm water manager, erosion and sediment control and numerous regulatory permitting activities.
- Hydrology and Hydraulic Engineering: stream modeling and dam break analysis.

REPRESENTATIVE PROJECT EXPERIENCE

- Thousand Acres Golf Paths / Boardwalk: Designed golf cart paths and access roads at the Thousand Acres Golf Course situated in Deep Creek, Maryland. A key part of the project involved a wooden pier boardwalk crossing wetlands to minimize environmental impacts.*
- Town of Nutter Fort Safe Routes to Schools: More than 300 feet of sidewalk was installed for the purposes of providing a safer environment for area school children. The project, done in conjunction with the Town and the Harrison County Board of Education, also involved road striping, signage, and barricades for students and ADA-compliant ramps.*
- City of Pleasant Valley Sidewalks/Safe Routes to Schools: Working with the local regional planning and development council, we have successfully design and constructed approximately 2000 feet of sidewalk using transportation enhancement funds. Currently we are designing a phase 3 portion of sidewalk for the city that will provide a safe route for students to walk to the local elementary school as part of the Safe Schools program. Typically these types of projects stay within the WVDOH right of way and therefore have to reviewed and approved by them.*
- City of Salem Slip Repairs: The goal of the project was to repair two slip areas that occurred below a city street and above some residential structures. The problem areas where investigated by a geotech engineer. Based on site conditions and funds, the most efficient method to correct the problems were to use gabion walls.*
- City of Ripley, Main Street Revitalization: This project was one of kind for us in that we were taking all of the existing overhead utility lines along Main Street and putting them underground in conduit. The project involved direct coordination with the utility companies to ensure they had the necessary number, size, and location of conduit. Beyond the utilities, the Main Street was designed with new sidewalks that incorporated brick pavers, hand railing, decorative street lights, and handicap ramps.*
- Wirt County Commission Sidewalks: Worked for the Wirt Co. Commission and the Town of Elizabeth for the design of approximately 1000 square yards of sidewalk. The project consists of replacing sidewalk around the courthouse square and along the main street.*

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EDUCATION

WEST VIRGINIA UNIVERSITY – Bachelor of Science, Civil Engineering, Summa Cum Laude 1998

CERTIFICATIONS

- Registered Professional Engineer (PE), State of West Virginia*
- Registered Professional Engineer (PE), State of Maryland*
- American Society of Civil Engineers*
- American Society of Highway Engineers*
- City of Mannington Code Enforcement Appeal Board*

Stonewall Jackson State Park Boardwalk

ERIC SHORT, E.I.
Staff Engineer



SUMMARY OF EXPERIENCE

Mr. Short joined Thrasher Engineering in 2003 and serves as Staff Engineer on Residential and Commercial Site Development Projects as well as Transportation projects. Mr. Short has experience in all aspects of site engineering, taking projects from concept to construction.

Specialties include;

- **Conceptual Planning:** planning for residential, commercial, and recreational developments
- **Site/Land Development Engineering:** geometric layout of sites, subdivisions, and roads, grading, drainage system design, storm water management, erosion and sediment control, and various regulatory permitting activities.

REPRESENTATIVE PROJECT EXPERIENCE

- ❑ **City of Pleasant Valley Sidewalks/Safe Routes to Schools:** Working with the local regional planning and development council, we have successfully design and constructed approximately 2000 feet of sidewalk using transportation enhancement funds. Currently we are designing a phase 3 portion of sidewalk for the city that will provide a safe route for students to walk to the local elementary school. Typically these types of projects stay within the WVDOH right of way and therefore have to reviewed and approved by them.
- ❑ **Town of Nutter Fort Safe Routes to Schools:** More than 300 feet of sidewalk was installed for the purposes of providing a safer environment for area school children. The project, done in conjunction with the Town and the Harrison County Board of Education, also involved road striping, signage, and barricades for students and ADA-compliant ramps.
- ❑ **City of Ripley: Main Street Revitalization:** This project was one of kind for us in that we took all of the existing overhead utility lines along Main Street and putting them underground in conduit. The project involved direct coordination with the utility companies to ensure they had the necessary number, size, and location of conduit. Beyond the utilities, the Main Street was designed with new sidewalks that incorporated brick pavers, hand railing, decorative street lights, and handicap ramps.
- ❑ **City of Salem Slip Repairs:** The goal of the project was to repair two slip areas that occurred below a city street and above some residential structures. The problem areas where investigated by a geotechnical engineer. Based on site conditions and funds, the most efficient method to correct the problems were to use gabion walls.
- ❑ **Wirt County Commission:** Design of approximately 1000 square yards of sidewalk along city streets and within the courthouse yard.

EDUCATION

FAIRMONT STATE UNIVERSITY – Bachelor of Science, Civil Engineering Technology, 2003
FAIRMONT STATE UNIVERSITY – A.S., Architectural Engineering Technology, 2003

CERTIFICATIONS

- ❑ **American Society of Civil Engineers**

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KURT NEWBROUGH, P.S.
Partner / Field Services Supervisor



SUMMARY OF EXPERIENCE

Mr. Newbrough serves as Secretary of Thrasher Engineering in addition to being a Partner of Resource Engineering Group and is Survey Supervisor for the firm.

Mr. Newbrough has extensive knowledge in all aspects of surveys and is responsible for the assignment and review of all survey activities of his seven fully staffed survey teams. He is experienced in various types of surveys including, but not limited to boundary, topographical, construction layout and GPS for both public and private clientele. Survey projects are performed for each of the Resource Engineering Group companies' public and private clientele, as well as on an independent contract basis.

REPRESENTATIVE PROJECT EXPERIENCE

Construction Layout

- Fairmont State University; Various Projects Associated with the 10-Year Infrastructure Improvement Master Plan*
- City of Bridgeport; Charles Pointe Development*
- Harman Construction, Incorporated*
- Calvert Excavating and Paving, Incorporated*
- Howard Concrete*
- Dodd Corporation*
- Mid-Atlantic Storage System, Incorporated*

Topographical Surveys

- West Virginia Department of Transportation/Division of Highways*
- Harrison County Board of Education*
- Gandee and Partners; Huntington Summit High School*
- William A. Bruce, AIA; Food Lion Stores*

Boundary Surveys

- Fairmont State University; Various Projects Associated with the 10-Year Infrastructure Improvement Master Plan*
- Town of Moorefield; North and South Levee Areas*
- US Army Corps of Engineers*
- Flood Control*
- USARC Sites*
- US Department of Justice; FBI Fingerprint Identification Complex*
- Hardy County Rural Development Authority*

EDUCATION

JOHN TYLER COMMUNITY COLLEGE – Surveying, Chester, Virginia.
UNITED CAREER CENTER – Clarksburg, West Virginia

Stonewall Jackson State Park Boardwalk

REGISTRATIONS

- Professional Land Surveyor, State of West Virginia*
- Certification, OSHA Hazardous Waste Operations and Emergency Response Center*
- Certification, U.S. Department of Labor/Mine Safety and Health Administration*

AFFILIATIONS

- West Virginia Association of Land Surveyors*
- American Congress on Surveying and Mapping*

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AARON W. DENHAM

Manager – Construction Management/Inspection/Testing



SUMMARY OF EXPERIENCE

Mr. Denham joined Thrasher Engineering in 2000 and serves as Field Supervisor for the firm. Mr. Denham is responsible for construction management, inspection and materials testing for highway, airport, site development, structural and public utilities projects.

REPRESENTATIVE PROJECT EXPERIENCE

- City of Pleasant Valley Sidewalk/Safe Routes to Schools Project; Lead Inspector & Testing*
- Town of Nutter Fort Safe Routes to Schools Project*
- City of Bridgeport 279 By-Pass*
- Fairmont State University Squibb Wilson Boulevard Demolition and Parking Lots; Lead Inspector & Testing*
- Mon-Fayette Expressway*
- WVDOH Meadowbrook Road*
- Jackson County Airport*
- Benedum Airport Authority Metal Equipment Storage Building; Lead Inspector & Testing*
- Benedum Airport Authority 2001 Master Plan*
- Benedum Airport Authority 2002 Master Plan*
- Benedum Airport Authority 2003 Master Plan*
- Benedum Airport Authority, 2004 Master Plan*
- Ruby Memorial Hospital NE Addition*
- Health Science Learning Center*
- WV National Cemetery Expansion*
- Fairmont State University*
- Institute for Scientific Research*
- I-68 Welcome Center*
- Stockmeier Urethanes*
- Fairmont State University Renovation; Testing*
- WVDOH South High Street Bridge*
- Wheeling Route 2 Bypass*
- Lake Floyd Dam*
- Baker Dam Site 10*
- Fetterman Bridge*
- Benton's Ferry Bridge*
- Army Corp of Engineers, Tygart Dam*

EDUCATION

FAIRMONT STATE UNIVERSITY – Bachelor of Science, Civil Engineering Technology, 1999

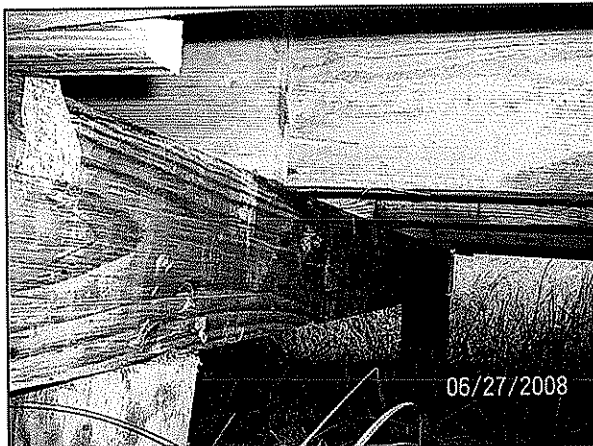
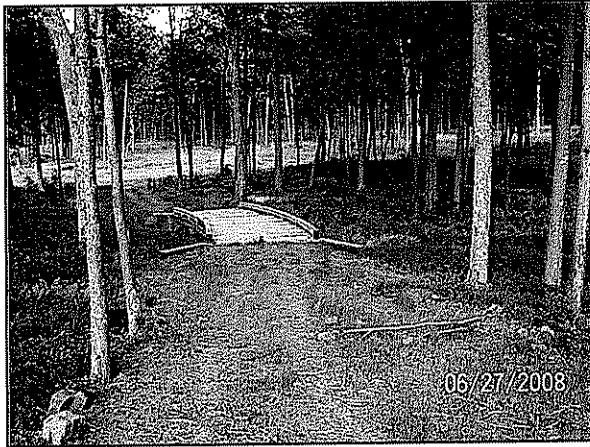
REGISTRATIONS

- WVDOH Compaction Inspector*
- WVDOH Concrete Inspector/Technician*
- WVDOH Aggregate Sampling Inspector*
- WVDOH Aggregate Technician/Inspector*
- WVDOH Bituminous Inspector/Technician*
- WVDOH Radiation Safety*
- Troxler Basic Safety – Nuclear Compaction Gauge*

Thrasher Engineering, Inc. EOI

Representative Projects

CITY OF OAKLAND, MARYLAND – THOUSAND ACRES GOLF TRAILS / BOARDWALK / WETLANDS CROSSINGS



The Thousand Acres project undertaken by Thrasher Engineering had many components, including design of golf cart paths and access roads at the lakeside community. Some of the paths crossed wetlands, which resulted in the need for wooden piers and a boardwalk system to minimize potential damage to wetlands and at the same time allow regular golf / pedestrian traffic to continue.

Client/Contact:

Bill Franklin
301-616-4866

Project Location:

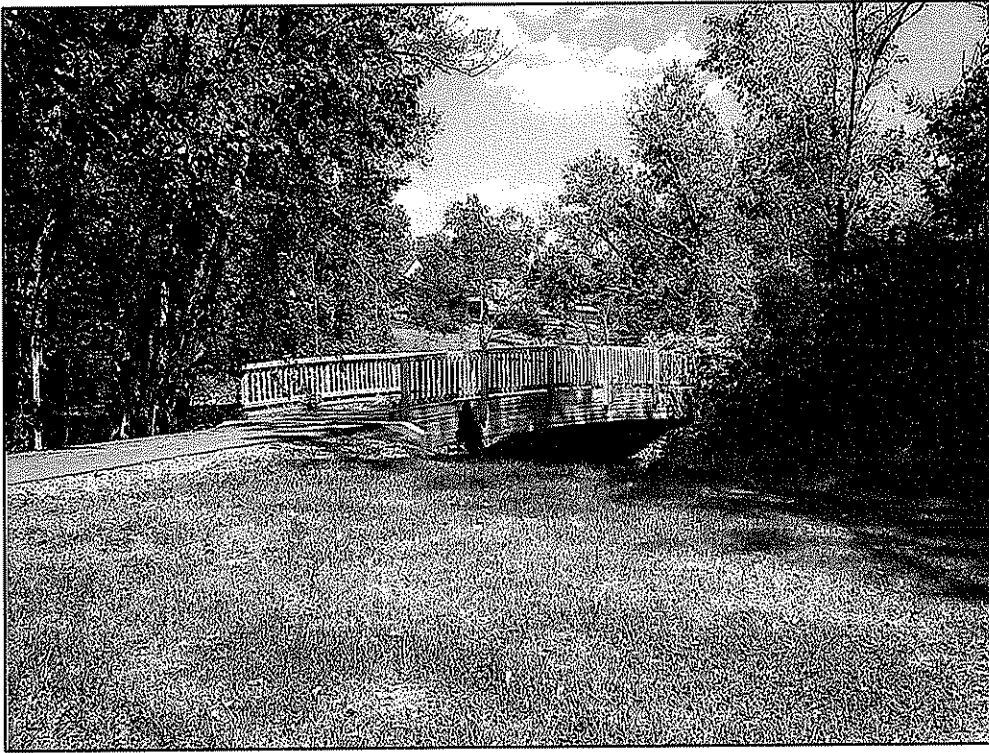
Garrett County, Maryland
(Deep Creek Lakes)

Project Status:

Complete

Stonewall Jackson State Park Boardwalk

CITY OF BRIDGEPORT – HARRISON COUNTY, WV PEDESTRIAN BRIDGE

**Client/Contact:**

City of Bridgeport
Parks and Recreation Board
164 West Main Street
Bridgeport, WV 26330
Don Burton, Director
304-842-8240

Project Location:

Harrison County, West Virginia

Project Cost:

\$85,000

Project Status:

Complete

This project consisted of conceptual plan and design, and site development for the Davisson Run Vehicular / Pedestrian Bridge project for the City of Bridgeport's Parks and Recreation Board. This bridge is a prefabricated structure.

This project also included the upgrade of adjacent walking trails. Thrasher Engineering also provided owner's representative services, bidding and construction management for this project.

Stonewall Jackson State Park Boardwalk

*FAIRMONT STATE UNIVERSITY – MARION COUNTY, WV
PEDESTRIAN BRIDGE*



Client/Contact:

Fairmont State University
1201 Locust Avenue
Fairmont, WV 26554-2491
Jim Decker, Assistant
Vice-President of Facilities
304-367-4000

Project Location:

Marion County, West Virginia

Funding:

Fairmont State University

Project Status:

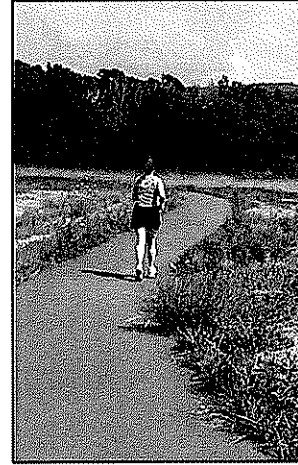
Complete

Within Thrasher Engineering, Inc.'s scope of services for the Master Plan developments at Fairmont State University was the design of the abutment for the pre-fabricated pedestrian bridge constructed to connect the Bryant Place Residence Hall to the main campus of the University.

In addition to design, TEI provided survey, specifications and construction management services.

Stonewall Jackson State Park Boardwalk

TOWN OF MOUNTAIN LAKE PARK, MARYLAND – CRYSTAL SPRINGS LOOP TRAIL


Owner/Client:

Mountain Lake Park
Box 2182
1007 Allegheny Drive
Mountain Lake Park, MD 21550-2182

Contact:

Mayor Britten "Leo" Martin
301-334-2250

Project Location:

Garrett County, Maryland

Project Status:

Completed/November 2006

Project Cost:

\$78,568

Mountain Lake Park sought a trail to be designed by Thrasher Engineering that was ADA compliant, and included trail head construction and a public parking area. The trail has, which is six-feet wide and covers two miles, is widely used.

As part of the scope of services, the effort included project planning, design, permitting, bid administration, and construction management services / inspection.



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

Request for Quotation

RFQ NUMBER
 DNR209169

PAGE
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ADDRESS CORRESPONDENCE TO ATTENTION OF
 FRANK WHITTAKER
 304-558-2316

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE

Thrasher Engineering, Inc.
 30 Columbia Blvd.
 Clarksburg, WV 26301

SHIP TO

DIVISION OF NATURAL RESOURCES
 STONEWALL JACKSON STATE PARK
 ATTN: PARK SUPERINTENDENT
 ROUTE 1, BOX 0
 ROANOKE, WV
 26423 269-0523

DATE PRINTED	TERMS OF SALE	SHIP VIA	FCB	FREIGHT TERMS
04/13/2009				

BID OPENING DATE: 05/12/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES IS SOLICITING EXPRESSIONS OF INTEREST FOR ARCHITECTURAL AND ENGINEERING SERVICES FOR A TIMBER PILE-SUPPORTED PEDESTRIAN BOARDWALK SYSTEM FOR STONEWALL RESORT STATE PARK LOCATED IN ROANOKE WV, PER THE ATTACHED SPECIFICATIONS. TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WEST VIRGINIA PURCHASING DIVISION VIA FAX AT 304-558-4115 OR VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV. DEADLINE FOR TECHNICAL QUESTIONS IS APRIL 22, 2009 AT 4:00 PM. ALL TECHNICAL QUESTIONS RECEIVED, IF ANY WILL BE ANSWERED BY ADDENDUM AFTER THE DEADLINE. EXHIBIT 10 ADDENDUM ACKNOWLEDGEMENT I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC. ADDENDUM NOS.: NO. 1 NO. 2						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *[Signature]* TELEPHONE 304-624-4108 DATE 5-6-09

Principal-in-Charge FEIN 55-0633596 6 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
 Department of Administration
 Purchasing Division
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04/13/2009				

BID OPENING DATE: 05/12/2009 BID OPENING TIME: 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
NO. 3						
NO. 4						
NO. 5						
<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p>.....SIGNATURE Thrasher Engineering, Inc.COMPANY 5-6-09DATE</p> <p>REV. 11/96</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>REV. 1/2005</p> <p>NOTICE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE TELEPHONE 304-624-4108 DATE 5-6-09

Principal-in-Charge FEIN 55-0633596 6 ADDRESS CHANGES TO BE NOTED ABOVE

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Thrasher Engineering, Inc.
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 Clarksburg, WV 26301

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04/13/2009				

BID OPENING DATE: 05/12/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: 44</p> <p>REQ. NO.: DNR209169</p> <p>BID OPENING DATE: 05/12/09</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: ----- 304-624-7831 -----</p> <p>PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE: ----- Chad Riley, P.E. -----</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
NATURE <i>Chad Riley</i>	TELEPHONE 304-624-4108	DATE 5-6-09
Principal-in-Charge	FEIN 55-0633596 6	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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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ADDRESS CORRESPONDENCE TO ATTENTION OF
 FRANK WHITTAKER
 304-558-2316

POSTAL COPY

RFQ COPY
 TYPE NAME/ADDRESS HERE

Thrasher Engineering, Inc.
 30 Columbia Blvd.
 Clarksburg, WV 26301

SHIP TO

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04/13/2009				

BID OPENING DATE: 05/12/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
***** THIS IS THE END OF RFQ DNR209169 ***** TOTAL: _____						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *[Signature]* TELEPHONE 304-624-4108 DATE 5-6-09

ROLE Principal-in-Charge FEIN 55-0633596 6 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: 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 owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

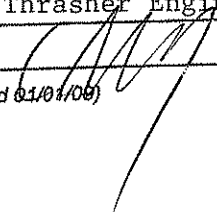
Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

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.

Vendor's Name: Thrasher Engineering, Inc.

Authorized Signature:  _____
Chad Riley, P.E.

Date: 5-6-09