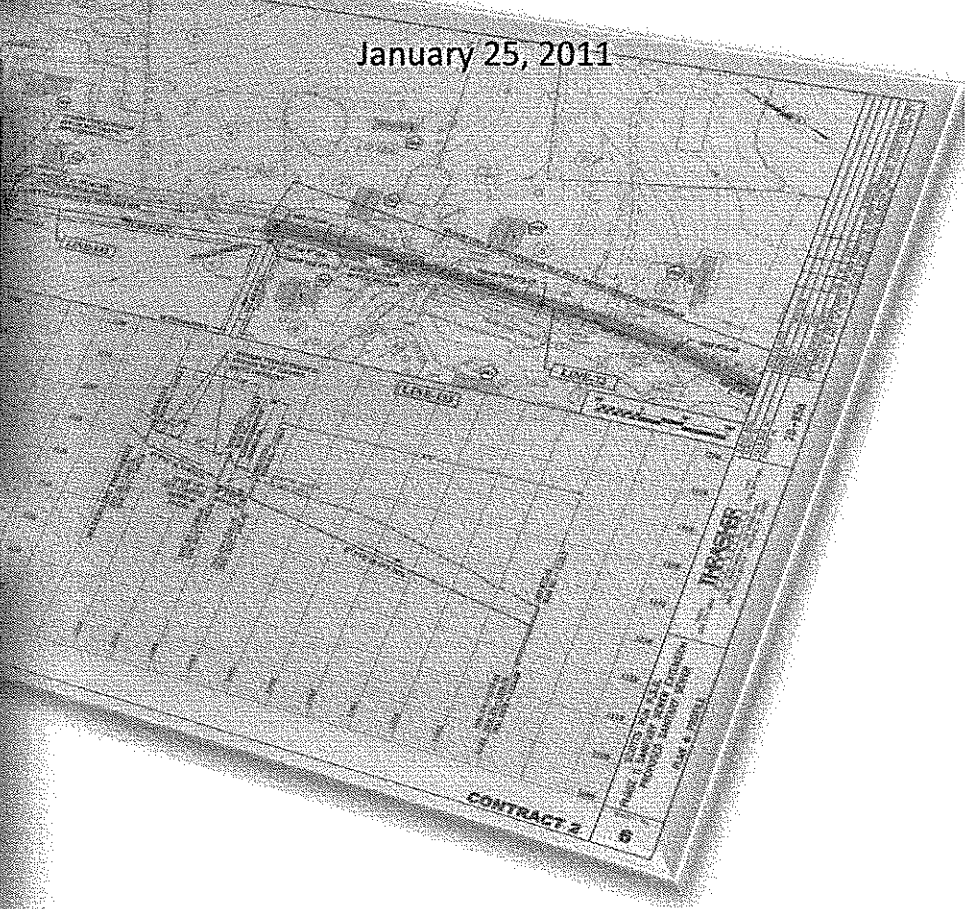




Statement of Qualifications
for Engineering Services
for the
West Virginia Army National Guard
DEFK 11024

Charleston Complex Access Road and Utility Upgrades

January 25, 2011



30 Columbia Boulevard
Clarksburg, West Virginia 26301
304-624-4108
304-624-7831-Fax
thrasher@thrashereng.com
www.thrashereng.com

RECEIVED

2011 JAN 25 A 10: 35

CLARKSBURG □ CHARLESTON □ BECKLEY □ OAKLAND, MD

PROCURING DIVISION
STATE OF WV



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
 DEFK11024

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 TARA LYLE
 304-558-2544

RFQ COPY

TYPE NAME/ADDRESS HERE

Thrasher Engineering, Inc.
 PO Box 1532
 Clarksburg, WV 26301

DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION

1707 COONSKIN DRIVE
 CHARLESTON, WV
 25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/14/2010				

BID OPENING DATE: 01/25/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-00-00-001	N/A	N/A
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL EXPRESSION OF INTEREST (EOI) THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, DIVISION OF ENGINEERING & FACILITIES, WV ARMY NATIONAL GUARD, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ARCHITECTURAL ENGINEERING DESIGN SERVICES FOR AN ACCESS ROAD, UTILITY UPGRADES AND ROUGH SITE GRADING TO THE CHARLESTON ARMORY COMPLEX, PER THE FOLLOWING BID REQUIREMENTS AND THE ATTACHED SPECIFICATIONS. BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER. CANCELLATION THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN. TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO TARA LYLE VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, VIA FAX AT 304-558-4115, OR VIA EMAIL AT TARA.L.LYLE@WV.GOV.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Chad Riley</i>	TELEPHONE 304-624-4108	DATE 1/24/2011
--------------------------------	---------------------------	-------------------

TITLE Principal in Charge	FEIN 550633596 6	ADDRESS CHANGES TO BE NOTED ABOVE
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WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
 2. The State may accept or reject in part, or in whole, any bid.
 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
 5. Payment may only be made after the delivery and acceptance of goods or services.
 6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
 7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
 10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
 12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
 13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
 14. **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>.
 15. **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, and the West Virginia Insurance Commission. 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.
 16. **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 material, 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.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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
 DEFK11024

PAGE
 2

ADDRESS CORRESPONDENCE TO ATTENTION OF:
 TARA LYLE
 304-558-2544

RFQ COPY

TYPE NAME/ADDRESS HERE
 THRASHER ENGINEERING, INC.
 PO BOX 1532
 CLARKSBURG, WV 26302

SHIP TO

DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION
 1707 COONSKIN DRIVE
 CHARLESTON, WV
 25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/14/2010				

BID OPENING DATE: 01/25/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>DEADLINE FOR ALL TECHNICAL QUESTIONS IS 01/06/2011 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">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: ----- TL/32 -----</p> <p>RFQ. NO.: ----- DEFK11024 -----</p> <p>BID OPENING DATE: ----- 01/25/2011 -----</p> <p>BID OPENING TIME: ----- 1:30 PM -----</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *Chad Riley* TELEPHONE 304-624-4108 DATE 1/24/2011

TITLE PRINCIPAL-IN-CHARGE FEIN 5506335966 ADDRESS CHANGES TO BE NOTED ABOVE

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



State of West Virginia
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 Purchasing Division
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12/14/2010				

BID OPENING DATE: **01/25/2011** BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: 304-624-7831 ----- CONTACT PERSON (PLEASE PRINT CLEARLY): CHAD M. RILEY, PE ----- ***** THIS IS THE END OF RFQ DEFK11024 ***** TOTAL: <u>N/A</u>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Chad Riley</i>	TELEPHONE 304-624-4108	DATE 1/24/2011
TITLE PRINCIPAL IN CHARGE	FEIN 55 0633596 6	ADDRESS CHANGES TO BE NOTED ABOVE

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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
1. QUESTIONS AND ANSWERS ARE ATTACHED.						
2. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID.						
EXHIBIT 10						
REQUISITION NO.: DEFK11024						
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 NO.'S:						
NO. 1 <input checked="" type="checkbox"/>						
NO. 2 <input checked="" type="checkbox"/>						
NO. 3						
NO. 4						
NO. 5						
I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Chad Riley</i>	TELEPHONE 304-624-4108	DATE JAN 24, 2010
TITLE PRINCIPAL IN CHARGE	FEIN 55 0633596 6	ADDRESS CHANGES TO BE NOTED ABOVE

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State of West Virginia
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01/11/2011				

BID OPENING DATE: 01/25/2011 BID OPENING TIME 01:30PM

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<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 style="text-align: center;"> <i>Chad Riley</i> SIGNATURE THRASHER ENGINEERING, INC. COMPANY JANUARY 24, 2011 DATE </p> <p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p> <p>REV. 09/21/2009</p> <p style="text-align: center;">END OF ADDENDUM NO. 2</p>						
0001	1	JB		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Chad Riley</i>	TELEPHONE 304-624-4108	DATE JANUARY 24, 2011
TITLE PRINCIPAL IN CHARGE	FEIN 55 0633 596 6	ADDRESS CHANGES TO BE NOTED ABOVE

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



January 24, 2011

Division of Engineering and Facilities /Armory Board Section
c/o WV Purchasing Division
2019 Washington Street, East
Charleston, WV 25305

RE: RFQ #DEFK11024 – Charleston Complex Access Road and Utility Upgrades

To the Members of the Selection Committee:

Thrasher Engineering, Inc. (Thrasher) is very interested in providing professional consulting services to the West Virginia Army National Guard for the above referenced project. We greatly appreciate the opportunity to present our team's qualifications for your consideration.

Our knowledge, experience and expertise in all facets of site development – and especially industrial access roads will be an asset to the WVANG. We have engineered the majority of business and industrial park developments throughout the State of West Virginia.

Thrasher Engineering offers many qualifications that make us the right choice for your project, including:

- ❑ **Considerable Experience in Projects of this Nature.** Our projects have included site selection and master planning, roadway design, survey, and construction management for both municipal projects and private developers.
- ❑ **Professional Staff:** Thrasher Engineering offers a talented professional engineering staff assigned specifically to the aspects of site development. Registered Professional Engineers with a wide range of experience in design of roadways, bridges, and utility systems for business and industrial parks will be assigned to your project.

Our commitment to our clients is the key to our success. Thrasher Engineering recognizes that our reputation is built on successful projects and successful projects often require attention from the beginning stages to long after the contractor has finished. Thrasher Engineering is committed to being there every step of the way.

Sincerely,

THRASHER ENGINEERING, INC.

Chad Riley
CHAD M. RILEY, PE
Principal-in Charge / Project Manager

THRASHER

EXECUTIVE SUMMARY

Thrasher Engineering, Inc. (Thrasher) offers the following summary of our project understanding and capabilities as they apply to the scope of services needed by the West Virginia Army National Guard (WVANG) for the planning and design of an access road, grading plans and utilities for a site at the Charleston Armory Complex for the purpose of providing for future buildings.

Thrasher is the leading West Virginia owned and operated civil engineering firm. We offer the full range of civil engineering, survey, construction management / inspection and materials testing services required by the WVANG to ensure that your requirements and needs are met to satisfaction.

Our extensive experience in site development for industrial, commercial and residential development, provides the WVANG with a team that has unmatched knowledge and resources on the services sought.

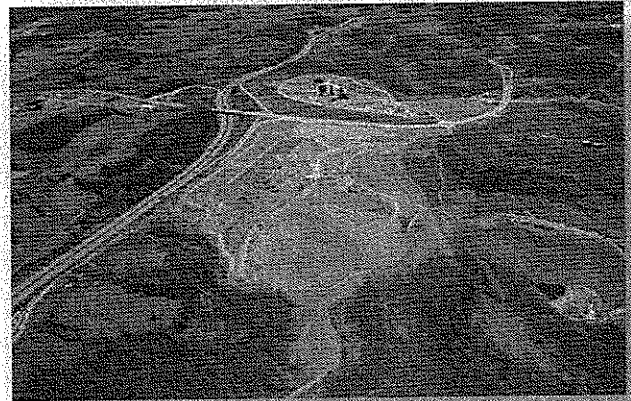
Experience in site development for industrial, commercial and residential development allows us to confidently state that we will provide project estimates that will meet and exceed your needs for accuracy. ***Our estimates for construction of various sites are consistently on target.*** This expertise will ensure accurate estimates to the WVANG for budgeting purposes.

The selection of the Thrasher Engineering, Inc. team as your consulting firm for this project brings the following "extra benefits" as well:

EXPERIENCE IN SITE DEVELOPMENT PROJECTS

Thrasher Engineering has engineered nearly twenty (20) industrial, commercial and business parks created for economic development – more than any other West Virginia firm. We have developed a keen understanding of the intricacies involved in all aspects of development, particularly with access roads and working alongside the West Virginia Division of Highways. Our scope of services for these projects has ranged from site analysis and selection, through design and construction management.

We believe in our philosophy that "successful projects bring repeat clientele", so you will be assured that the best interest of the WVANG will be our priority.



Aerial view of White Oaks Business Park, located at the intersection of I-79 and 279 (Jerry Dove Drive) near Bridgeport, West Virginia. All site development engineering plans, survey and construction management were performed by Thrasher Engineering.

RANGE OF SERVICES AND EXPERTISE

Thrasher's team offers the range of services and depth of personnel to complete the full design and construction of the access road along with the planned future site. As demonstrated in our qualifications and technical expertise, our in-house staff brings civil engineering, survey and construction management and inspection services to the project. Additionally, we offer environmental assessment and permitting services which will be needed for the stream encroachment. Our site development engineers are highly experienced in roadway and bridge design, mass grading plans, utility infrastructure and storm water management impoundments.

LOCATION AND PERSONNEL

Your project will be managed from the home office of Thrasher Engineering, in Clarksburg, West Virginia with support services provided by staff in our Charleston, West Virginia. Survey and construction monitoring services, as needed will be performed by the Charleston staff. Thrasher's **single source management** approach ensures you that your needs will be met in a cost effective and efficient manner. The WVANG will have the full resources of Thrasher's site development, survey and construction inspection departments to make certain the goals of the site development plan are met on time and within budget.

CURRENT WORKLOAD

From the time when Thrasher Engineering added site development engineering to their services, the work load of the department has required handling multiple large scope projects in different stages of the process simultaneously. However, the site development division of Thrasher has now completed the backlog of projects. The most recent design projects- which included grading, utilities, storm water management, roadways and additional site components -at White Oaks Business Park and McDowell County Federal Prison are completed and we are now actively pursuing new projects such as The Coonskin Complex. Our site development workload is such that we will be able to begin work immediately upon our selection as the engineer for this project.

The depth of our staff allows for us to handle many components of project simultaneously, bringing time and cost efficiencies.

COST CONTROL AND QUALITY OF WORK

Thrasher Engineering has a long track record of quality design, clear communication through detailed plans and specifications, and has developed a positive reputation for immediately dealing with construction issues with cost implications at the time they arise. These things, along with our vast experience dealing with a wide variety of public and private funding agencies are some of our strongest company characteristics.

Cost control starts from the time the project is in its earliest conceptual phase. Establishing a clear conceptual plan and accurate preliminary cost estimates help the clients make good, informed strategic decisions early on in the process that creates efficiency in design, leading to a final product where the client has maximized the project program within any budgetary constraints.

Throughout design, our project managers and designers continually evaluate the practicality and cost implications of design elements. There are numerous checks along the way to assure that the components of the project remain in line with the available funding.

In the bidding phase, we control costs by removing risk for the contractor. We do this by providing clear concise plans, unambiguous clarifications and parameters of responsibility, measurement and payment, and other items that are often overlooked but have cost implications. We bid far more projects per year than any of our competition and consistently attract more bidders. This is because there is a strong "comfort level" with our style of detailed construction documents from most all of the contractors that do this type of work in the tri-state area. They know what to expect and know that they will be treated fairly and that they have less risk with our projects due to the items previously mentioned. This, with the increased competition provided by a large number of bidders leads to lower costs for the client. ***As an example, we recently bid a site development project for a 40 acre recreational complex for the City of Bridgeport that had 17 bidders and came in over 20% below the engineer's estimate.***

In the construction phase, our inspectors and project managers constantly monitor construction budget progress by updating quantity under runs and over runs, tracking time vs. cost complete. When potential change order issues arise, we evaluate them as quickly as possible to determine alternatives and associated costs. We vet any contractor's claim for extra payment before it ever gets to the owner; if we don't agree, we work with the contractor to find a solution that is fair and reasonable for our client. Unless there is an un-resolvable dispute with what a contractor is submitting, the client will not see a change order request that we haven't evaluated and negotiated to a point that we believe is fair.

Our inspectors settle up with contractors on pay items daily so that we have a real-time understanding of the costs and help reduce instances of disagreement at the end of the pay period. Each pay application is reviewed in detail by our inspector and project manager to ensure that the contractor is only getting paid what he is owed through the contract terms.

TIMELINESS

Thrasher does WHATEVER IT TAKES to meet any timeline. We like to get things done right - and fast. Our most recent examples of our "fast track" process include:

- ***City of Bridgeport – Charles Pointe Recreation Complex - Plans for \$1.5 Million in site development - Out to bid in 30 days following plan approval as promised.***
- ***White Oaks Business Park – Developed grading plans to allow contractor to move 3 Million Cubic Yards in 5 months. Also designed \$22 Million of infrastructure improvements (utilities, roadways, pad sites) in 5 months.***

We will establish timelines and meet them. While some tasks cannot be shortened, we regularly work with the client to understand what is driving the timeline and what the ultimate goal is and work to find some way to meet the project goals. We start at the deadline, work backwards through the things we can't control, and will do whatever it takes with the things we can control to make it happen.

CONCLUSION

As demonstrated in the following information, Thrasher Engineering has played an important role in engineering economic development. Our expertise, experience and most importantly *success* with site development projects is unsurpassed. We work as a team with our clients and look forward to teaming with the WVANG and your partners and adding your project to our roster of successful site development endeavors.

PROJECT APPROACH

Thrasher Engineering is ready and committed to meet the needs of the WVANG with readily available, technically experienced personnel and in-house resources beyond that of other firms. Our approach to the required work is as follows:

STUDY AND PRELIMINARY DESIGN PHASE

Efficiency in the Study and Preliminary Design phase of this project will be essential to meeting the project schedule. This project will require immediate actions and constant interaction between the Engineer and the appropriate regulatory agencies for elements including road, E&S, and storm water management. Concepts must be discussed and approved very early in the process to make sure that our design approach will satisfy the permitting agencies. TEI is positioned to get the job done.

The first days of this project will be critical to maintaining the project schedule. The decisions that will be made in this period will be the basis of the rest of the design. Following our initial meetings with WVANG personnel, TEI will apply the following methodology and tactics:

- 1) TEI's first task will be to perform surveys and/ or verify any survey control & mapping available. Survey and mapping verification will be completed with time efficiency; the task will be assigned to our fully-equipped Charleston based survey crew.***
- 2) After the road alignment is established, we will develop E&S, storm water management, and grading concepts. The approach for the road will be defined. We will meet with the appropriate permitting agencies to review the concepts to make sure our approach will be acceptable. Because Thrasher has provided engineering services to numerous commercial, industrial and residential developments throughout the state, we have a complete understanding of guidelines and regulations.***

Once the above design items have been completed, the preliminary design for mass grading and utilities will be prepared, followed by preparation of the plans and specification for submission of permits.

A detailed construction cost estimate will be prepared and presented to WVANG officials allowing you to make informed decisions on how the project will be bid and constructed. We will use our large database of unit bid prices, along with our local knowledge and expertise in road construction projects to provide a detailed, thorough final construction cost estimate.

FINAL DESIGN PHASE

Upon acceptance of preliminary design by the owner and all other regulatory agencies, we will complete the detailed design and provide a set of final construction level project plans and technical specifications.

Bringing bids and final construction costs in under the project budget is an area the Thrasher Engineering truly excels as is demonstrated in our project experience. Highly detailed plans and clearly defined parameters will provide clear and concise bid documents that will generate interest in bidders, create fierce competition, reduce the potential for change orders, and ultimately lead to more value for your construction dollars.

We will work with the WVANG and West Virginia Purchasing Department to assemble the bid documents, including all applicable local, state, and federal requirements.

BIDDING AND CONSTRUCTION PHASE

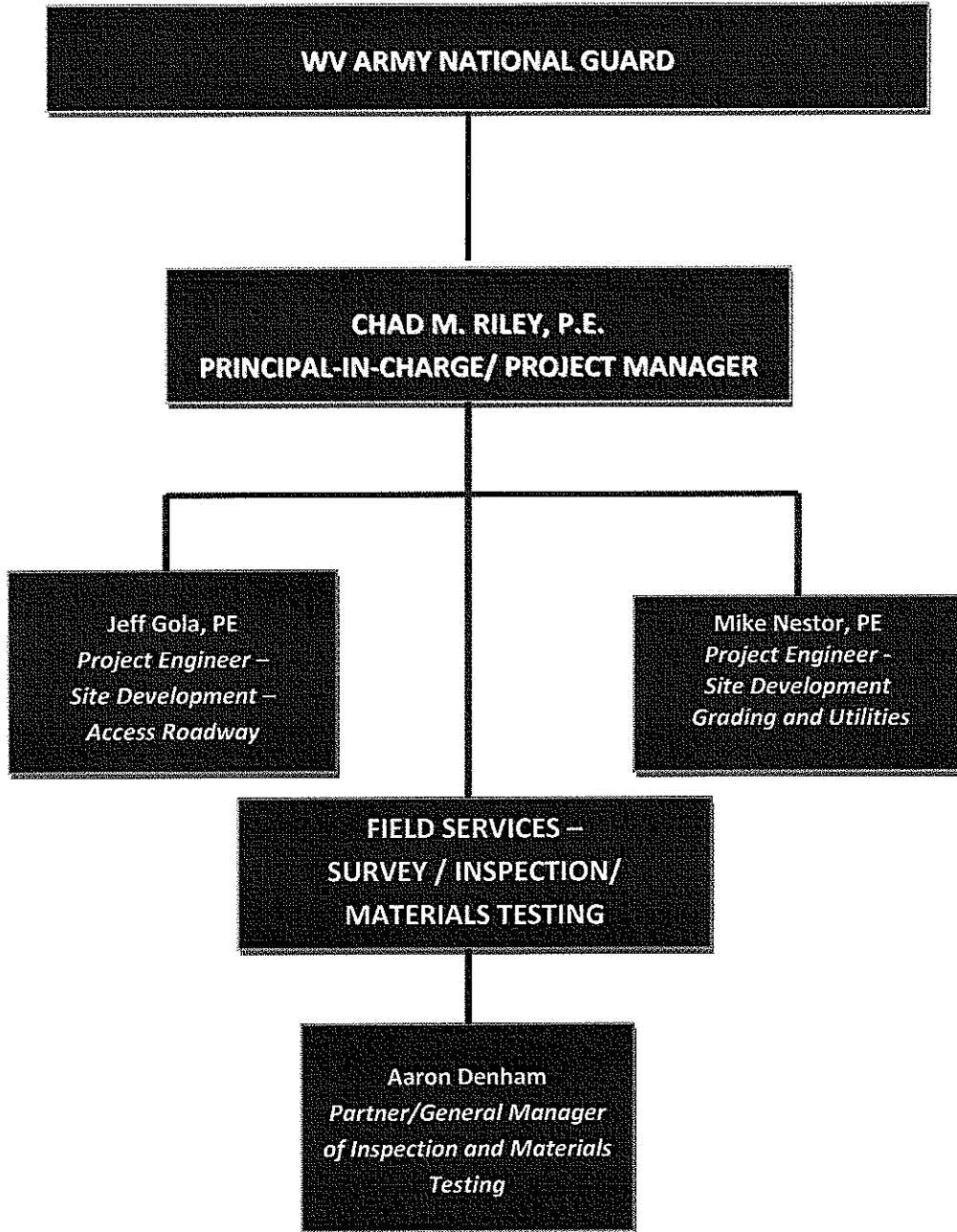
By publicly bidding tens of millions of construction every year, Thrasher Engineering, Inc. understands the bidding environment better than our competition. We understand the issues that need to be clearly defined to control construction costs.

We will attend & participate in the pre-bid, bid opening and pre-construction conferences. We pride ourselves on the fact that our projects typically have more bidders than our competitors, leading to more competitive pricing. This can be attributed to our depth of understanding of how to bid publicly funded projects. Contractors like fairness and don't like risk. We take extensive measure to make sure that bidding issues and the construction plans are detailed and clearly defined, providing a fair bidding environment and minimized risk to contractors. Upon receipt of bids, we will evaluate the bids and consult & advise on the quality of the bids and the acceptability of the contractor.

If later included in the scope, TEI will serve as the WVANG's representative protecting the integrity of the project and the WVANG's best interests.. We will review submittals, prepare and negotiate field orders & change orders, and interpret the plans & specifications. A monthly project meeting will be held on site to discuss progress, issues, and schedule. A copy of the minutes of these meetings will be provided.

QUALIFICATIONS OF KEY PROFESSIONAL STAFF

THE PROJECT TEAM ORGANIZATIONAL CHART



CHAD MITCHELL RILEY, P.E. – PRINCIPAL IN CHARGE / PROJECT MANAGER

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 Project 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.

REPRESENTATIVE SITE DEVELOPMENT PROJECTS

- WHITE OAKS BUSINESS PARK**
- GARRETT COUNTY BUSINESS PARK**
- RALEIGH COUNTY MEMORIAL AIRPORT INDUSTRIAL PARK**
- McDOWELL COUNTY PRISON**
- FAIRMONT STATE UNIVERSITY: 10-YEAR INFRASTRUCTURE IMPROVEMENTS PROJECT:**
 - *Utilities, Roadways, Sidewalks, Storm Drainage, Utility Relocation*
 - *Rosier Field Turf Replacement*
 - *Parking Garage*
 - *Falcon Center (Student Activity Center)*
 - *Bryant Place Dormitory*
 - *RCB National Aerospace Education Center*
- 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 CEMETARY EXPANSION**

EDUCATION

Fairmont State University – Bachelor of Science, Civil Engineering Technology

REGISTRATIONS

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

HONORS AND AFFILIATIONS

- Fairmont State University Distinguished Alumni - 2009***
- Fairmont State University Technology Advisory Committee***

JEFFREY GOLA, P.E. – PROJECT 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/demolition plans*
- *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.*

EDUCATION

- B.S., Civil Engineering – West Virginia University, Summa Cum Laude 1998*

CERTIFICATIONS

- Registered Professional Engineer (PE), State of West Virginia #15621*
- Registered Professional Engineer (PE), State of Maryland #33492*
- American Society of Civil Engineers*
- American Society of Highway Engineers*
- City of Mannington Code Enforcement Appeal Board*

REPRESENTATIVE PROJECT EXPERIENCE

- WVDOH Indian Fork: Two span steel beam bridge 127 feet long in Gilmer County West Virginia. Design of a bridge structure and roadway approaches. A Hec-Ras analysis was performed to determine stream water elevations. The bridge is unique in that the steel girders were simple supported made composite.*
- WVDOH Jakes Run: Single span steel girder bridge 95 feet long. Design consisted of a bridge, roadway approaches, detour road, waterline relocation, and right-way-plans.*
- WVDOH Corley Bridge and Little Grassy Creek Box Beam Bridge: Single concrete box beam bridges. Provided the construction plans for the bridge, road approaches, and right of way plans. The stream was modeled to provide stream elevations for different storm events. Worked directly under the WVDOH District 7 bridge engineer to provide plans in shorten time frame of 3 months.*
- WVDOH Corridor H – Davis to Bismarck: Design of over 2 miles of a four-lane divided highway, including an additional 1.5 miles of secondary roads. The project also includes a three span bridge spanning Corridor H and a set of twin mainline bridges spanning a secondary road.*
- Three Forks Bridge: Complete design of a three span steel girder bridge 325 feet long. The purpose of the bridge was to provide access for a new mining facility owned by the International Coal Group. bridge had to span both a stream and railroad tracks.*

- ❑ ***Raleigh County Memorial Airport Industrial Park: Designed the roadway and drainage for a 100 acre industrial park. The project included a detailed erosion and sediment control plan. Responsible for all invoices and project administration between the owner, contractor, and funding agencies.***
- ❑ ***Benedum Airport Authority: Provided a grading, drainage, and erosion and sediment control package for improving the North Central WV Airport runway safety area approach slopes. The project is now proceeding to the design of an 800 foot runway extension.***
- ❑ ***Mid-Atlantic Aerospace Complex: Design of approximately 5400 linear feet of a storm water system and a detention pond. The proposed system will provided drainage infrastructure for future development along an existing airport taxiway.***

MICHAEL R. NESTOR, P.E. – PROJECT ENGINEER

SUMMARY OF EXPERIENCE

Mr. Nestor joined Thrasher Engineering Inc., in 2005. 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.

EDUCATION

- B.S. Civil Engineering Technology – Fairmont State University, 2003*

REGISTRATION

- Professional Engineer, State of West Virginia*

REPRESENTATIVE PROJECT EXPERIENCE

- WILLIAMSPORT PARK ROAD EXTENSION – 650 foot road extension in Williamsport, MD. Completed design of road, including grading, drainage, storm water management, profiles, permitting, and specifications.*
- NORTH MIDDLE SCHOOL WALKING PATH SAFE ROUTES TO SCHOOL: Developed construction plans for approximately 1,300 lineal feet 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 PAW PAW SIDEWALKS SAFE ROUTES TO SCHOOL: Developed construction plans for approximately 300 lineal feet of new sidewalk along with drainage structures in accordance with Safe Routes to Schools Program.*
- MILLARDSVILLE VILLAGE – 26 townhouse lots on approximately 3.15 acres. Completed sketch plat, storm water management design, and street profiles.*
- FAIRFAX FARM Section 2 – 15 single family residential lots on approximately 36.73 acres. Completed development of drainage areas, grading plan, erosion and sediment control plan, layout of lots, and Preliminary Plat design.*
- PIKESIDE MEADOWS Section E – 63 townhouse lots on approximately 17.51 acres. Prepared drawings for Public Service Districts.*
- LITTLE GEORGETOWN ESTATES Sections 1 and 2 – 64 single family residential lots on approximately 127 acres. Completed lot layout, septic layout, design of sediment basin, turning lane, erosion and sediment control, and Preliminary Plat.*
- WEBBER SPRINGS Section 3 – 119 single family residential lots on approximately 32.81 acres. Completed design of turning lane on WV Route 51.*
- BROOKSIDE ESTATES Section 1 – 60 single family residential lots on approximately 101.86 acres. Completed Sketch Plat design along with septic reserve layout and initial grading and profiles.*

- ❑ **CREEKSIDE MEADOWS** – 95 single family residential lots on approximately 101.86 acres. Completed lot layout, Sketch Plat design, water and sewer extensions, and design of storm water management facilities.
- ❑ **MULLBERRY KNOLL** – 10 townhouse lots on approximately 1.5 acres. Completed Sketch Plat design, water and sewer extension, grading plan, erosion and sediment control plan, and design of storm water management facilities.
- ❑ **SHENANDOAH OFFICE PARK** – Two commercial buildings totaling 50,000 sf. Sketch Plat design.
- ❑ **SPRING HILL Section 6** – 15 single family residential lots on approximately 10 acres. Completed design of storm water management, grading plan, and preparation of drawings for Preliminary Plat submittal.
- ❑ **MAIDSTONE ON THE POTOMAC** – 108 single family residential lots on approximately 40.5 acres. Completed Sketch Plat design, water and sewer extensions, grading plan, erosion and sediment control plan, drainage plan, design of storm water management facilities, and Preliminary Plat design.
- ❑ **BACK CREEK ACRES** – 3 single family residential lots on approximately 6 acres. Completed Preliminary Plat, grading plan, and erosion and sediment control plan.
- ❑ **CHESTNUT HILL ESTATES** – 29 single family residential lots on approximately 66 acres. Completed Sketch Plat design, lot and street layout, grading plan, and profiles.
- ❑ **SPRING HILL Section 7** – 7 single family residential lots on approximately 7 acres. Completed lot layout, water and sewer extensions, grading plan, erosion and sediment control plan, profiles, grading plan, drainage plan, storm water management, and Preliminary Plat design.
- ❑ **LEISURE LIVING ESTATES Section 4** – 10 single family residential lots on approximately 7 acres. Completed Sketch Plat design, water and sewer extensions, grading plan, profiles, erosion and sediment control plan, drainage plan, storm water management, and Preliminary Plat design.
- ❑ **HAWKS NEST**: Developed Storm Water Management Plan for residential subdivision using low impact development methods. Scope included site grading, storm water management, erosion and sediment control, and other miscellaneous items required in the civil scope.

AARON DENHAM – PARTNER/ GENERAL MANAGER – SURVEY AND CONSTRUCTION MGT.

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

EDUCATION

- B.S. Civil Engineering Technology, 1999 – Fairmont State University*

CERTIFICATIONS

- Fairmont State University Level V Certification – Transportation Engineering Technologist – Engineering Specialization*
- 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*

REPRESENTATIVE PROJECT EXPERIENCE

- Army Corp of Engineers, Tygart Dam*
- Jackson County Airport*
- 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 Squibb Wilson Boulevard Demolition and Parking Lots; Lead Inspector & Testing*
- Fairmont State University Renovation; Testing*
- City of Pleasant Valley Sidewalk Project; Lead Inspector & Testing*
- WVDOH South High Street Bridge*
- Wheeling Route 2 Bypass*
- Lake Floyd Dam*
- Baker Dam Site 10*
- City of Bridgeport 279 By-Pass*
- Mon-Fayette Expressway*
- WVDOH Meadowbrook Road*
- Fetterman Bridge*

QUALIFICATIONS AND PREVIOUS EXPERIENCE

CAPABILITIES AND SERVICES

Thrasher Engineering provides civil, consulting, and environmental engineering services in a variety of disciplines, in addition to offering full field services in survey, GIS mapping and software development, construction management and inspection and materials testing at our own nationally certified laboratory.

Thrasher will be responsible for all aspects of project management, specifically including all contractual issues, scheduling, communications and budget. Thrasher will provide all civil engineering aspects related to infrastructure, environmental assessments, site development, structural engineering and all related field services including survey, construction management and inspection and materials testing as needed.

MASTER PLANNING AND SITE DEVELOPMENT



Entrance Road Construction at Kulseth Industrial Park, outside of Fairmont, West Virginia. Kulseth was one of three industrial parks engineered by Thrasher for the Marion Regional Development Council

As a leading firm in the planning, design of business and industrial parks, Thrasher Engineering has had the opportunity to not only review and evaluate master layout plans developed by planning firms, but also design master plan layouts in-house for our clients.

We have planned, surveyed, designed and provided construction management services for site development projects for both public and private clients. Projects ranging from the White Oaks Business Park in Harrison County, to Pinecrest Business and Technology Park in Beckley, to the multi-purpose "Live, Work and Play" community in Fayette County, to sites for residential housing to business and industrial parks are included in the range of site development projects.

Utilizing our common sense project approach to these projects, we are able to analyze the development goals

and prioritize elements of projects, determining the prime goals for each phase. Our objective in site development engineering is to go beyond just the engineering aspect of the project; we work as a team with clients to understand their present and future needs. Thrasher Engineering brings the full spectrum of engineering services necessary to the WVANG for the full development of the Coonskin Complex site.

Thrasher Engineering provides the full spectrum of engineering services necessary to develop sites that provide the infrastructure needed:

- Site Selection and Evaluation
- Site Master Planning
- Survey
- Roadways
- Sidewalks
- Utilities (water, sewer, storm sewer, gas, electric and telecommunications)

STORM WATER SYSTEMS

Thrasher Engineering's staff members have considerable hydrologic and hydraulic design experience in storm water control and drainage projects. Our familiarity with the storm utility process allows us to successfully obtain local, state, and federal erosion and sediment control permits and National Pollutant Discharge Elimination System (NPDES) permits for point source and storm water discharges.



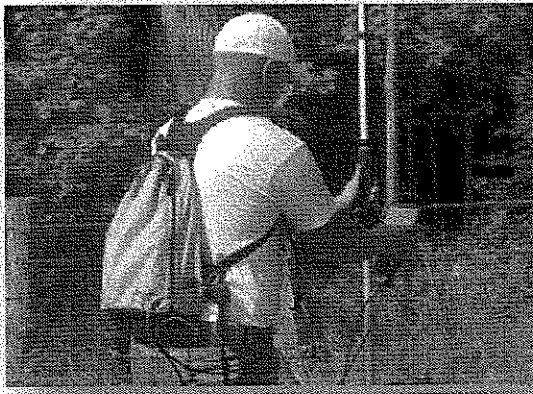
Storm Water Detention Pond –
White Oaks Business Park

Capabilities in the evaluation and design storm water drainage include:

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

LAND SURVEY SERVICES

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. The types of surveys performed include



Both GPS and Conventional Survey Methods are
used by Thrasher's Survey Crews

Right-of-way/Easement surveying.

- GPS ground control surveys for aerial mapping
- Landfill closure surveys
- Topographic surveys
- Construction layout for site development projects, highways, railroads, sanitary sewer systems and water and wastewater treatment plants
- Lake and river sounding surveys
- Boundary surveys
- ALTA/ACSM surveys

T

Thrasher also produces accurate planimetric mapping from aerial photography, as well as differential volume calculations and contour mapping. By combining stereoscopic photos with CAD and terrain modeling software, computer models may be constructed to determine many topographic calculations at a substantial savings of time and money over manual field measurements and long-hand calculations.

Thrasher Engineering's survey crews have worked in each of West Virginia's 55 counties, including performing local courthouse research for legal descriptions and plat mats. In the past 5 years, we have performed more than **1000 surveys** throughout the state.

CONSTRUCTION MANAGEMENT AND INSPECTION

The integrity of a project design requires inspectors and construction management personnel to protect the owner's interests. TEI provides 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.

Construction Management and Project Administration Services include:

- Site Layout
- Construction Stakeout
- Inspection
- Quality Control

During our 26-year history, we have developed and employed methods in construction management and inspection process proven effective and efficient whether the project is one Thrasher Engineering has designed, or the project has been designed by another firm.

Our measures include:

- Daily logs and Inspection sheets
- Cut sheets
- Quantity tracking
- Field drawings
- Digital Photo Logs

Our Construction Managers bring strong communication and administrative skills to project management and accuracy to inspection. TEI inspects the construction of \$60,000,000 per year.



MATERIALS TESTING

Project Managers and Field Technicians are experienced in all types of construction activities. From earthwork testing and monitoring of structural fills, to concrete and asphalt testing, and caisson inspection. We apply construction and inspection expertise to ensure successful roads, bridges and airports projects. Field Technicians have years of experience; many of whom are certified by the West Virginia Department of Highways for materials testing.

Services Include:

- Asphalt Testing and Inspection (batch plant inspection, cores, field testing, mix designs analysis)
- Concrete Testing and Inspection (cores, field testing, mix design analysis, test cylinders)
- Drilled Caissons and Piling Inspection
- Foundation Inspection (caissons, piling, shallow foundations)
- Masonry Testing and Inspection
- Paint Thickness Testing



- ❑ Soil Testing and Inspection (structural fills, pipe backfill)
- ❑ Sprayed-on Fireproofing Inspection and Testing
- ❑ Structural Steel Inspection (bolt torque inspection)
- ❑ Subsidence Inspection
- ❑ Weld Inspection (shear connector studs, visual weld)

AASHTO CERTIFIED LABORATORY

Our laboratory, in Clarksburg, WV, is accredited thru American Association of State Highway and Transportation Officials (AASHTO), and accreditation programs including AASHTO Materials Reference Laboratory (AMRL), and Cement and Concrete Reference Laboratory (CCRL). Additionally, engineers and technicians who perform tests both in the field and in the lab are certified by the West Virginia Department of Highways.

Our fully trained and certified laboratory technicians have years of experience with observing and testing, in both the field and the laboratory. The Materials Testing Laboratory is fully equipped to meet the testing needs of virtually any construction project. Testing includes aggregate, asphalt, concrete, and soils.



REPRESENTATIVE EXPERIENCE

WHITE OAKS BUSINESS PARK

CONTACT: High Tech Corridor Development, LLC - Mr. Jack Keeley 304-622-2400

DESCRIPTION AND LOCATION: 300 Acre Business Park, Harrison County, West Virginia – Private Funding

COMPLETION DATE: 2009

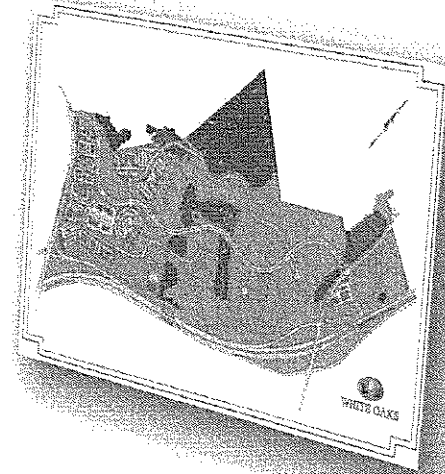
ENGINEER'S CONSTRUCTION COST ESTIMATE VS. LOW BID RESULTS:

Contract 1: Mass Grading	
Estimate: \$12,200,000.00	Low Bid: \$9,839,487.00
Contract 2: Site Utilities	
Estimate: \$2,800,000.00	Low Bid: \$2,255,852.00
Contract 3: Road Package	
Estimate: \$4,255,200.00	Low Bid: \$4,339,489.00

SYNOPSIS:

Thrasher Engineering, Inc. served as the prime consultant on the project, providing project management along with all civil engineering, survey, and construction inspection services for this master planned community in Harrison County. Site development engineering included preparation of land planning, grading plans, roadways, utilities and pad-ready sites. Architectural services from Thrasher Engineering were utilized for the design and construction of two (2) multi-tenant office buildings and numerous commercial business structures. The site is located immediately adjacent to one of the most heavily traveled interstate corridors in West Virginia and is immediately adjacent the FBI National Bio-Metrics Center and a new 350-bed regional hospital.

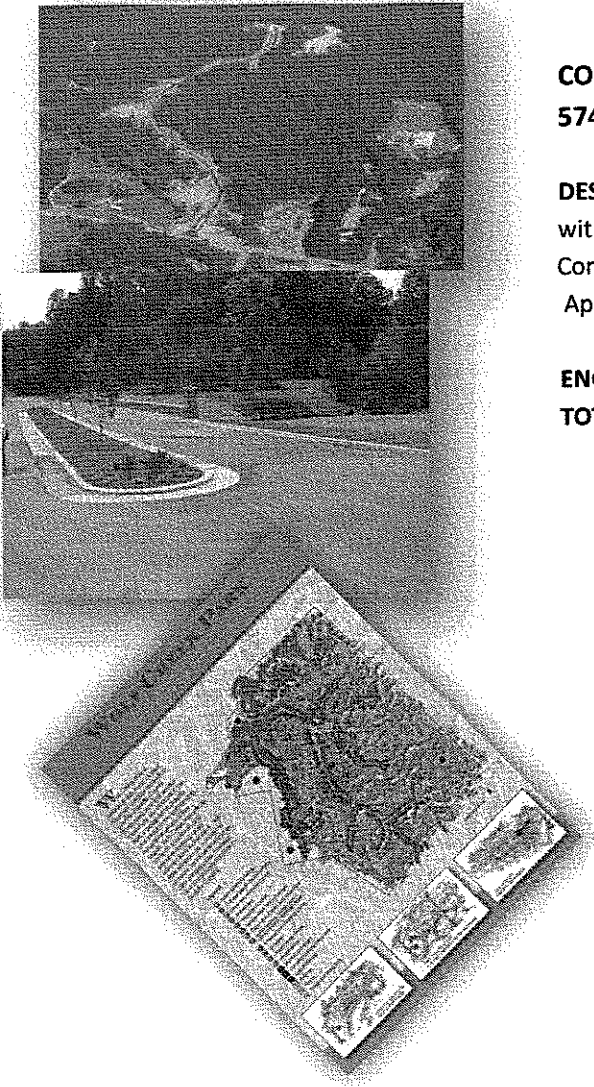
Three alternative concept plans for development of the site were prepared; each responded uniquely to site characteristics, opportunities and constraints, opportunities from major adjacent development, schemes for the arrangement of a central boulevard and connector roads, and various land use designations. Alternatives were evaluated and scored against the overall project goals, the criteria of which included ability to support the building program, site development and infrastructure costs, aesthetic and



character opportunities, open space allocations, impacts on investment return and compliance with zoning regulations. From the alternatives, a preferred alternative was identified and developed in detail including a non-motorized circulation system, opportunities for neighborhoods or mixed-use precincts and preservation areas.

The site development construction was placed on an accelerated schedule. Contracts for grading and utilities were bid in February 2008 and roads in May 2008. Site development was complete and the park was dedicated in October of 2009.

WOLF CREEK PARK – “LIVE, WORK AND PLAY” COMMUNITY



CONTACT: Fayette County Commission, Mr. Dave Pollard, 304-574-4258

DESCRIPTION AND LOCATION: Wolfe Creek Park is a 1,000-acre area with 400 developable acres, dubbed a “Work, Live and Play Community” which is located near Fayetteville in Fayette County, WV. Approximately 250 acres are planned for business development.

ENGINEER'S CONSTRUCTION COST ESTIMATE: \$4,582,900.00
TOTAL LOW BID COST OF SERVICES: \$4,412,900.00

SYNOPSIS:

Thrasher Engineering was retained for all aspects of the development, including site selection, preliminary engineering reports, design, and preparation of bidding and construction documents, evaluation of bids and construction monitoring and inspection for this phased site development project.

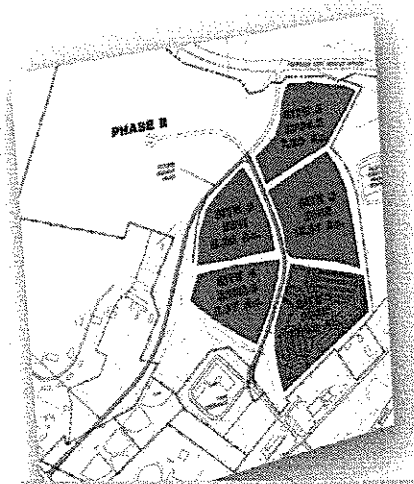
Phase I of the project was recently completed, and consisted of:

- 4,500 LF access road
- Con-span Entrance Bridge
- Grading to building Pads
- Erosion and sediment control, drainage and storm water management
- Utilities including water, sewer electric, cable and telecommunications

The Thrasher Team was instrumental in helping take the project from an idea to reality by providing all planning, engineering and related services. At the north end of the property, sensitive wetland areas exist and Thrasher is devising economical and environmentally sensitive solutions for these and similar areas.

PINECREST BUSINESS AND TECHNOLOGY PARK

CONTACT: Mr. Bill Baker, Pinecrest Development Corporation, 304-929-2010



DESCRIPTION AND LOCATION: Mixed Use Industrial and Business Park located in Beckley, West Virginia.

Thrasher Engineering was retained for all aspects of the development of this park, including access roads, grading, erosion and sediment control, drainage and utilities including water, sewer, storm sewer, electric, cable and telecommunications.

Additional services included project development, funding applications, permits for construction, preparation of bidding and contracting documents and evaluation of bids. Also included in this project were materials testing and inspection.

Thrasher Engineering's Architectural Division provided design and construction services for the Rahall Technology Center at the Park.

This project included the construction of:

- Approximately 2,000 LF of roadway with sidewalks, curbing, street trees, street lighting and other landscaping features
- Approximately 2000 LF of site utilities
- Storm water management
- Grading for building pads



RALEIGH COUNTY MEMORIAL AIRPORT INDUSTRIAL AND BUSINESS PARK

CONTACT: Raleigh County Airport Authority - Tom Cochran, Airport Manager - 304-255-0479

DESCRIPTION AND LOCATION: 2-Phased Business and Light Industry Park with a total of 334 Acres, adjacent to Raleigh County Memorial Airport. The project was partial funded by US Department of Commerce / EDA Funding.

ENGINEER'S CONSTRUCTION COST ESTIMATE: \$7,100,000.00

CONSTRUCTION LOW BID TOTAL: \$6,900,000.00



This project consisted of the development of conceptual and final design drawings and specifications for an Aerospace and Light Industrial Park located at Raleigh County Memorial Airport. This site is approximately 326 acres.

Phase IA Contract 1 included site grading and access road construction consisting of 766,500 CY excavation, sediment ponds and ditches.

Phase IA Contract 2 included utilities and pump station upgrades consisting of:

- Gas line
- Water line
- Force main
- Gravity sewer line
- Manholes
- 2 duplex non-clog pump stations
- 2 duplex grinder pump stations
- Upgrades to existing S&L pump stations

Phase IA Contract 3 included access road paving, curbs, gutters and sidewalks. This contract included:

- 3,700 LF of Roadway
- Concrete sidewalk,
- 3,700 LF curb and gutter and guardrails

PUTNAM COUNTY BUSINESS PARK

CONTACT: Putnam County Development Authority – Gary Walton, Executive Director - 304-757-0318

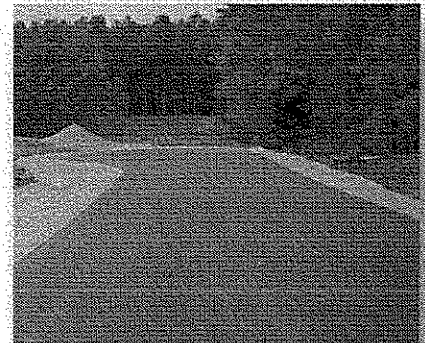
DESCRIPTION AND LOCATION: Putnam Business Park is a 205 acre site located along the Kanawha River in Fraziers Bottom, Putnam County, West Virginia

ENGINEER'S CONSTRUCTION COST ESTIMATE: \$1,950,000.00

TOTAL CONSTRUCTION CONTRACTS LOW BID: \$1,860,000.00

SYNOPSIS: Roads, water and sewer lines for the park were designed by Thrasher Engineering. This project included:

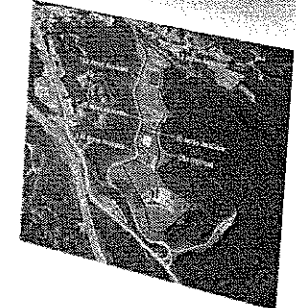
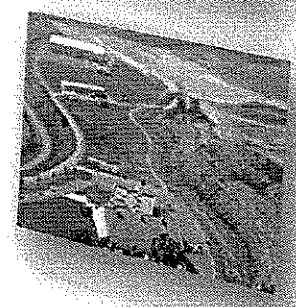
- Paving,
- Turn lanes off of U.S. Route 35
- 1,935 LF of storm drain,
- 1 sewage pump station
- 1,650 LF of force main
- 800 LF of gravity sewer line
- 2,660 LF of water line
- 535 LF of culverts
- 192,000 CY excavation
- 5,000 LF of high link fence



ADDITIONAL SITE DEVELOPMENT EXPERIENCE

Thrasher provided all civil engineering design, survey and construction monitoring activities for the site analysis, design and construction of the following site development projects. Design for grading, roadways, storm drainage and on-site utilities were included in the scope of services.

- ❑ **GLADE CREEK BUSINESS PARK - Nicholas County Building Commission
304- 872-7876**
- ❑ **MID-ATLANTIC AEROSPACE PARK - Benedum Airport Authority -
James R. Griffith - Airport Manager 304-842-3400**
- ❑ **BELINGTON INDUSTRIAL PARK -Barbour County Office for Economic
Development - 304-456-1225**
- ❑ **NORTHPOINT BUSINESS / INDUSTRY PARK -Preston County Economic
Development Authority 304-329-2299**
- ❑ **POLYMER ALLIANCE ZONE -304-372-1143**
- ❑ **HARRISON COUNTY BUSINESS AND TECHNOLOGY PARK – City of
Clarksburg 304-842-7405**
- ❑ **WOOD PRODUCTS INDUSTRIAL PARK - Mingo County Redevelopment
Authority 304-235-0042**
- ❑ **ROBERT C. BYRD INDUSTRIAL PARK -Hardy County Rural Development
Authority 304-530-3047**
- ❑ **WEBSTER COUNTY BUSINESS PARK-Webster County Economic
Development Authority 304-847-2145**
- ❑ **MC DOWELL PRISON, GLENVILLE PRISON, CANAAN PRISON - Federal
Bureau of Prisons 202-514-6461**



REFERENCES

Thrasher Engineering has provided the highest level of technical expertise and customer service to clients throughout the state for over 28 years. The majority of the firm's clients have used the firm for numerous projects over the years, adding credence to the firm's philosophy of "**Successful Projects, Repeat Clientele**". In addition to those references included in our Representative Experience, we are pleased to present the following clients who will attest to our quality of service:

- **Mr. Alex E. Paris, President** (724) 947-2236
Alex Paris Contracting Co., Inc.
Atlasburg, PA

- **Mr. Jim Griffith, Airport Manager** (304) 842-3400
North Central West Virginia Airport
Bridgeport, WV

- **Mayor Emmett Pugh, Beckley/ Raleigh County** (304) 256-1750
Memorial Airport Authority
City of Beckley
Beckley, WV

- **Ms. Judy Radford, Executive Director** (304) 254-8115
4-C Economic Development Authority
Beckley, WV

- **Mr. Jim Decker, V. P. Facilities** (304) 367-4861
Fairmont State University
Fairmont, WV

- **Mr. W.D. Smith, Executive Director** (304) 872-4970
 - Region IV Planning and Development Council
Summersville, WV

- **Commissioner Ron Watson** (304) 624-8500
 - Harrison County Commission
Clarksburg, WV

- **Commissioner Dave Goebel** (304) 265-1401
 - Taylor County Commission
Grafton, WV