



ENGINEERING
ARCHITECTURE
FIELD SERVICES

October 2, 2017

Bid Response
Division of Natural Resources
Property & Procurement Office
324 4th Ave
South Charleston, WV 25303

RE: A/E Services-Broadband Build-Out for Park Facilities

We are excited for the opportunity to submit this Expression of Interest. Great results don't happen by mistake. They are produced from a clear vision, thoughtful design, and careful construction. This Expression of Interest is a further example of the dedication West Virginia has to improving our state's wireless internet opportunities. Projects that enhance the quality of life in the communities where we live and play has always been a priority for Thrasher.

The Thrasher team understands that designing the internet infrastructure for various state park facilities will be a great addition to West Virginia parks. As a result of this, we have assembled a team with Advantage Technology (Advantage) that is experienced with expanding public wireless internet services. Advantage has over a decade of experience working with Kanawha County Emergency Ambulance Authority installing and supporting its entire IT infrastructure.

The selection of Thrasher will prove beneficial to these projects for several reasons:

- Resources for immediate action: Our engineers and field personnel are readily available and will assure timely response to your needs,
- Reputation to draw a high volume of bidders,
- Proximity of the Thrasher offices to the project sites.

This is an exciting initiative that will enhance the recreation opportunities within our state. Thrasher wants to be a part of these success story's in West Virginia!

Thank you for considering the Thrasher Team. We look forward to your positive reception of our proposal and to meet with you to further demonstrate the commitment, dedication and support we will bring to the state of West Virginia.

We believe that our experience with project delivery combined with Advantage Technology's broadband experience, makes our team the right choice for this project!

Sincerely,
The Thrasher Group, Inc.

Robert R. Milne, PE
Senior Project Manager

GENERAL TERMS AND CONDITIONS:
West Virginia Division of Natural Resources
Agency Delegated Procurements Over \$25,000

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.



(Name, Title)

Robert Milne, PE - Project Manager

(Printed Name and Title)

600 White Oaks Blvd, Bridgeport, WV 26330

(Address)

304-624-4108 / 304-624-7831

(Phone Number) / (Fax Number)

rmilne@thethrashergroup.com

(email address)

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

The Thrasher Group, Inc.

(Company)



(Authorized Signature) (Representative Name, Title)

Robert Milne, PE - Project Manager

(Printed Name and Title of Authorized Representative)

October 02, 2017

(Date)

304-624-4108 / 304-624-7831

(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM

SOLICITATION NO.: AEOI DNR180000001

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification. Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

The Thrasher Group, Inc

Company



Authorized Signature

October 02, 2017

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: The Thrasher Group, Inc.

Authorized Signature: *[Signature]* Date: October 2, 2017

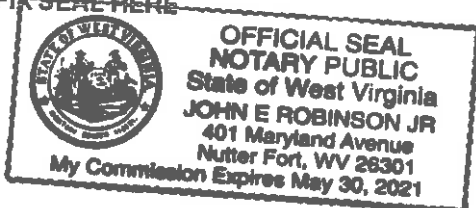
State of WV

County of Harrison, to-wit:

Taken, subscribed, and sworn to before me this 2 day of October, 2017

My Commission expires May 30, 2021, 20

AFFIX SEAL HERE



NOTARY PUBLIC *[Signature]*

Purchasing Affidavit (Revised 07/07/2017)

The Thrasher Group, Inc.

With a commitment to building business through “successful projects and repeat clientele”, H. Wood Thrasher, PE and the late Henry A. Thrasher, PE - formed Thrasher Engineering, Incorporated in Clarksburg, West Virginia in 1983. Since that time, the company, now known as The Thrasher Group, Inc. has grown into one of the mid-Atlantic Region’s largest full-service privately-owned architectural and engineering firms.

Publicly funded projects have been the backbone of the company, and continue to be a large part of our engineering division. Thrasher has grown from its original three employees to a current staff of over 350 and continues to prosper. Instilled in each employee is a commitment to maintaining the highest standards of professional service.

Main Point of Contact:

Robert R. Milne, PE
Project Manager
600 White Oaks Boulevard
P. O. Box 940
Bridgeport, WV 26330
Phone: 304-326-6141
rmilne@thethrashergroup.com

Office Locations:

Bridgeport, WV
Charleston, WV
Beckley, WV
Oakland, MD
Fredericksburg, VA
Canton, OH
Lexington, KY

Thrasher Information:

Incorporated in 1983
www.thethrashergroup.com

The Thrasher Group, Inc. - Bridgeport, WV



The Thrasher Group, Inc.

With multi-discipline capabilities, Thrasher covers all of the professional services needed to deliver successful projects to both public and private clientele. The firm's roots were planted in civil engineering and consulting services for public utility projects. Over the years, our success has allowed us to branch out, expanding our services to meet both the needs of our clients and the growing need for more responsive and effective solutions.

By providing a full range of quality professional engineering, surveying, architectural, environmental and related field services, Thrasher has positioned itself as one of the leading firms in the Mid-Atlantic region.

Disciplinary Practices:

- Land & Site Development
- Parks and Recreation
- GIS Mapping and Software Development
- Environmental Services
- Materials Testing
- Roadways / Bridges / Streetscapes
- Storm Water Systems
- Survey - land and bathymetric
- Civil Engineering
- Water Treatment and Distribution
- Wastewater Collection and Treatment
- Construction Monitoring
- Airports
- Land Planning and Landscape Architecture

Areas of Service:

- Planning
- Preliminary engineering
- Funding direction & application assistance
- Regulatory permitting
- Design and construction document preparation
- Bid documentation & process oversight
- Construction administration & monitoring
- Post construction service & on-going commitment



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Advantage Technology

Advantage Technology is made up of highly trained professionals that have the experience and depth necessary to meet the technology needs of your business. They hold various secondary degrees and industry-recognized certifications from VMware, Microsoft, ShoreTel, Dell, Aruba Networks and Avaya. They have more than 30 professionals with over 300 years of hands-on experience in all forms of technology, with an emphasis on server and networking infrastructure and telecommunications. They also maintain Department of Defense Security Clearance.

No matter your IT needs, from telecommunications to full data center implementation, Advantage Technology can help. They are a full-service information technology management, support and consulting company. In short, Advantage Technology is your complete IT solution. Their philosophy of "customer first" has driven their growth to well over 400 satisfied clients and made them one of the preeminent IT firms in West Virginia.



950 Kanawha Blvd E
Suite 100
Charleston, WV 25301
www.advantage-tech.com
304-342-0796

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Project Management Scheduling and Budgeting

Scheduling:

Thrasher realizes the importance of establishing and maintaining project schedules. Time means money and making sure we help you spend your money wisely is our number one goal. Our team puts an extra emphasis on making sure our projects stay on schedule. One of the ways we accomplish this, is by utilizing specialized scheduling software to track every stage of a project from design and bidding, through construction completion.

We also require contractors working on our projects to regularly update their project schedules and give a detailed progress report at each job meeting. This helps to ensure all parties are informed and aware of potential delays. Keeping our owners up to speed with progress is our number one goal and ensures occupancy and owner supplied equipment are scheduled accordingly.

Budgeting:

At Thrasher we take construction estimating and budgeting very seriously. As a matter of fact it is considered the most important facet of what we do. Without accurate budgets, there is no tool to guide the design process. This is why we make cost estimating an integral part of the project from day one.

Our estimates go beyond the typical cost per foot of lump sum price. At Thrasher we do contractor grade estimates that look at every part of the project. We do detailed take-offs of materials and look at every man hour needed to complete a project. We also have a great understanding of the local market and material costs which allows us to accurately design to meet your budget.

Project Approach

Many projects follow similar project approaches which include: field evaluation, site survey, design, permitting, contract documents and bidding, and construction administration. Thrasher excels at evaluating projects in a way that provides our clients with superior technical proficiency. Our team utilizes our past project experience and in-depth understanding of each potential project to successfully take it from concept through to completion.

Communication throughout any project is a primary key to a successful project! Upon notification of award our communication procedure will begin with the WVDNR. We will maintain this line of communication throughout the project in an effort to avoid surprises to the owner, contractor, engineer, and ultimately the end user the citizens of West Virginia.

1. State of WV awards project to Thrasher
2. Thrasher's Project Manager will contact the WVDNR to set up a project scoping meeting.
3. Following project scoping meeting Thrasher will submit a detailed proposal identifying our scope of services and proposed fee for the project, as well as project design schedule.

Communication during Design

Prior to the initiation of the design services, Thrasher's Project Manager will discuss with the DNR's point of contact how communication during the design phase of the project will be handled. Updates during the design phase can occur in numerous ways weekly status updates via email, conference calls, and monthly progress meetings. Our project teams are well versed in keeping our clients abreast of project status during the design phase in numerous ways, and we tend to customize communication during the design phase to our clients desires.

Communication during Construction

Thrasher will conduct monthly progress meetings with the contractor, the WVDNR, and key project stakeholders throughout the duration of the project. Meeting minutes will be distributed to all attendees and any other agents identified by the WVDNR. Action items will be documented within the meeting minutes.

Throughout construction Thrasher will have people on-site for project representation as well as material testing. Anytime a Thrasher employee is on site during construction a field report will be prepared. Field reports will be reviewed by the engineering team and distributed to the DNR's construction representative on a weekly basis.

Prior to the start of construction, Thrasher's project manager will meet with the DNR's field rep to determine how communication throughout construction phase of the project will be handled to ensure that DNR is well informed throughout the construction project.

Thrasher does not just work for a client, we partner with them. This type of working relationship helps ensure projects are completed on-time and within budget. Thrasher will work with the Parks and Recreation to clearly define the scope of services and establish a project approach for each location. After an initial project review, you will find a few preliminary key points which Thrasher believes should be taken into account while establishing the project scope and approach on the following pages:



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Project Approach

Our project team has a long history of completing projects on-time and within budget throughout the Tri-State Area. Throughout this response we have highlighted several projects that illustrate our experience, and our detailed project approach is a test proven plan to complete projects on schedule and on-budget.

Thrasher will establish a design kick-off meeting with the WV DNR and key members of our project team to review the selected project and clearly define the Scope of Services. Following contract approval, our project team will take the following steps to complete the project.

Step 1 - Field Evaluation

We will assemble a team of engineers and technicians to conduct a field evaluation of the project conditions. Problem areas will be identified and incorporated into an existing condition map. Photos will be taken to clearly define other potential problem areas. We will coordinate with key stakeholders and take additional facts into consideration to assist in identifying problem areas. Thrasher will also take into account the future plans for the park and additional amenities the park may be incorporating in the future.

Step 2 - Creation of Base Mapping

- If current mapping is not available Thrasher will perform a survey of the site.
- Thrasher will perform a survey of the site as well as bathymetrics of the boat launch area.
- Thrasher will obtain tax maps and deed research, to create a property mosaic of the project area.
- Thrasher will field verify the property mosaic to create a property map of the project area.
- Thrasher will obtain documentation to establish right-of-ways on the streets accessing the project area.

Step 3 - Conceptual Design and Report

- Following completion of the base mapping, Thrasher will begin preparation of the conceptual designs of the projects identified during the kick-off meeting.
- Thrasher's engineers and technicians will walk the property and identifying potential problem areas and design solutions with regards to internet serviceability.
- Thrasher will prepare a conceptual design and where applicable provide design alternatives for consideration by the DNR.
- Thrasher will prepare a written report of the conceptual designs; identifying design issues.

Project Approach

Step 4 – Construction Documents

Our team will provide design solutions and construction documents to the appropriate personnel for the project identified to be carried forward to final design based upon the conceptual design report. Thrasher proposes to prepare two submissions - preliminary design and final design. The preliminary design submission will be used to review the proposed project with the DNR. After review and comment, we will complete the final design documents based upon comments received and conclusions reached at the preliminary design review. Our field evaluations and design approach will specifically address these issues in the construction documents.

Step 5 – Cost Estimates

Our project team will provide itemized cost estimates at the following stages: conceptual design, preliminary design and final design.

Step 6 – Bid Process

We will assist the DNR in preparation of the bid documents, attendance at pre-bid meetings and issuance of addenda.

Step 7 – Construction Administration

- The project team will review project submittals, attend project meetings and provide inspection of the construction being completed. The project team will provide final punch list inspection at project completion.
- Challenges during construction - We will develop a program to keep the DNR abreast of potential construction issues. Our project team will prepare our design repairs with the adjacent property owners in mind. We plan to address any issue through clear and concise construction notes, details, and specifications to ensure the safety of the workers and river environment.

Step 8 – Project Close Out

Upon completion of the project, our Project Team will provide final as-built drawings in both CAD and PDF format to the DNR and any appropriate personnel.



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Project Goals and Objectives

Goal/Objective 1 - The Thrasher Team will review existing plans and the operations at each park prior to completing any design services. The preliminary engineering report identified in the Scope of Services section will highlight advantages and disadvantages to the proposed broadband system at each park facility studied.

Goal/Objective 2 - The Thrasher Team will be able to provide all of the necessary services required to bring broadband services to the WV State Parks. Thrashers knowledge of the design process, and project delivery along with Advantage Technology's expertise in broadband installation will enable our team to provide the WVDNR with accurate plans, meeting applicable codes, all within the project budget.

Goal/Objective 3 - At Thrasher, we consistently bid more projects than any other firm within the state of WV. Construction Administration is a service we always offer our clients. In order to meet the needs of this project our project team will identify a lead project representative and a lead broadband expert at each location prior to the start of construction



West Virginia Division of Natural Resources State Park Experience

Chief Logan State Park Conference Center

The Chief Logan State Park was in need of a conference center. Thrasher, as the site development consultant, teamed with an architectural firm and was hired by the West Virginia Division of Natural Resources to provide the State Park with utility, site development and roadway design for the new conference center.

Lost River Wastewater Collection System

The West Virginia Division of Natural Resources hired Thrasher to provide services for a new wastewater collection system for the Lost River State Park. Along with the construction of the wastewater collection system, Thrasher provided erosion and sediment analysis, roadway repairs and the construction of an underground electrical system, eliminating over 49 power poles and 12,400 LF of electrical lines.

Watoga Water and Sanitary Sewer Improvement

Thrasher was able to provide the West Virginia Division of Natural Resources at Watoga State Park with water and sewer system improvements. The Thrasher team provided design and construction services at the park consisting of water line extension and new water treatment facilities. It was important to the Division of Natural Resources to keep the areas of construction with the least amount of disturbance as possible.

Thrasher State Parks Experience:

- Cacapon State Park
- Lost River State Park
- Watoga State Park
- Chief Logan State Park
- Prickett's Firt Memorial State Park
- Tygart Lake State Park
- Valley Falls State Park



Infrastructure Experience

FIRST ENERGY: Substation and 34.5 kV Distribution Line Project

This project consisted of the construction and installation of a substation and a 34.5 kilovolt (kV) distribution line in North Central West Virginia and will serve as an extension of First Energy's infrastructure. The Thrasher Environmental team conducted the stream and wetland delineation within the identified environmental AOI then completed the field summary report (no aquatic resources) and project mapping. As part of this project, the Thrasher Environmental Staff corresponded with the following agencies for the associated permit acquisition:

- WV DNR WRS: RTE Species Review
- USFWS: ESA Section 7 Clearance
- WV DOH: Crossing and Entrance Permits
- Applicable County Floodplain Approval
- WV DEP: NPDES Construction Stormwater Permit, Notice of Intent (NOI)
- Including an Abbreviated SWPPP, GPP, and E+S Control Plans

FIRST ENERGY: 138 kV Transmission Line

This project consisted of the construction and installation of a 138 kV transmission line in North Central West Virginia and will serve as an extension of First Energy's infrastructure. The Thrasher Environmental team conducted the stream and wetland delineation within the identified environmental AOI encompassing approximately 46 acres; then completed the field summary report (streams only) and project mapping. As part of this project, the Thrasher Environmental Staff corresponded with the following agencies for the associated permit acquisition:

- WV DNR WRS: RTE Species Review
- USFWS: ESA Section 7 Clearance
- WVDNR OLS: Stream Activity Permit
- Applicable County Floodplain Approval
- WV DEP: NPDES Construction Stormwater Permit, NOI
- Including the SWPPP, GPP, and E+S Control Plans <https://dailyenergyinsider.com/wp-content/uploads/2016/12/Transmission-Line.jpg>



Transmission/Distribution Line Experience

TRANSMISSION/ DISTRIBUTION LINE FIELD SURVEY EXPERIENCE

Specific examples of project experience for transmission lines include:

Performed boundary, ALTA, topographic, and/or control and construction stakeout surveys for substation sites at:

- Lazenby – Mercer County, WV
- Jarrold – Raleigh County, WV
- McGraws – Wyoming County, WV
- Caretta – McDowell County, WV
- Hall's Ridge – Mercer County, WV
- Patrick Street – Kanawha, WV
- Claypool Hill – Tazewell County, VA
- Spectra Energy – Washington County, VA
- Garrison Switch – Boone County, WV
- Rockhouse Road – Boone County, WV
- Lockhart – Dickenson County, VA
- Cross Lanes – Kanawha County, WV
- Patrick Street – Kanawha County, WV
- Lanham – Kanawha County, WV
- Duffield – Scott County, VA
- Wellmont – Sullivan County, TN
- Sherwood – Doddridge County, WV



Performed Transmission Line Surveys at:

- McGraws – Wyoming County, WV
- Patrick Street – Kanawha County, WV
- Halls Ridge – Mercer County, WV
- Lockhart – Dickenson County, VA
- Spectra Energy – Washington County, VA
- Jaeger-Wharncliffe – McDowell/Mingo County, WV
- Duffield, Scott County, VA

Marion County EDA & WVDNR Palatine Park Boat Ramps and Parking

Thrasher has had the pleasure of working with both the Marion County EDA and the West Virginia DNR on rehabilitation of an existing boat ramp and the addition of a new 3 lane boat ramp at Palatine Park in Fairmont, WV. For the EDA, the first phase of this project involved Thrasher developing a comprehensive master plan to help guide the County Commission to understand their long term goals for the park. After the master plan was complete, the Thrasher team began the design of a new splash park. The splash park opened in the Spring of 2014 and has quickly become a huge attraction for the community.

Most recently, Thrasher has been working with the Marion County EDA and the West Virginia DNR on existing and a new boat ramp projects, respectively, at Palatine Park. The revitalization of the existing single lane boat ramp, parking area and access at the western end of Palatine Park was designed and constructed Spring 2016. This was completed as part of Phase III of Palatine Park extension with the Marion County EDA. The new boat ramp facility project with the WVDNR began construction in early fall 2016 and is projected to be completed later in the summer of 2017. This project features a new 3-lane boat ramp, parking and is fully ADA accessible.

Contact:
Mr. Charlie Reese, Director
Marion County EDA
200 Jackson Street
1st Floor, Room 103
Fairmont, WV 26554
304-367-5355

Mr. Zach Brown
West Virginia DNR

Project Highlights:

- Development of Long Term Master Plan - including recreation and commercial opportunities
- Design of splash park with optional ice skating rink in the winter months
- Design for road realignment to better serve the growing park
- Survey and preparation of top mapping for WVDNR boat ramp



West Virginia DNR New 3 Lane Boat Ramp Construction



Advantage Technology Experience

1. Advantage Technology has worked with Kanawha County Emergency Ambulance Authority (KCEAA) for over a decade installing and supporting its entire IT infrastructure. They designed their first rack system many years ago when they had just a couple desktop servers. We now support KCEAA on a 24/7 basis because of the mission critical service they provide.

Advantage Technology worked with KCEAA to design and implement a 10gb iSCSI Storage Area Network solution with Equallogic storage systems and VMware in a large multi-host environment. Advantage also currently run their datacenter with all virtual servers and no physical servers. Advtange worked on Internet Firewall strategy, configuration and redundancy for staff and remote offices; implemented a new 10gb connected Ethernet switch network and Wi-Fi for multiple facilities; installed and configured their phone system; and designed a video training system for their staff by incorporating it into Avaya's Scopia product.

2. Advantage Technology implemented over 1,000 mission critical network connectivity including Cat5e, Cat6 and fiber for WVU's various teaching facilities, offices and medical practices. Advantage was asked to provide seamless connectivity with no cosmetic determinate to facility. They were able to work around staff schedules and peak hours to install over 10,000 feet of conduit systems with minimal disruption to employees productivity.
3. Advantage was hired to help Valley Health move their Electronic Health Records from the cloud and create their own Data Center. Valley Health has over 40 locations and 500 employees. Advantage designed, installed, and now maintain their entire IT infrastructure. They also worked with Valley Health's IT department to support their VMware, Microsoft, Citrix, and Cisco environment on a 24/7 basis for almost 10 years.



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Project Team



Mike Nestor, PE
QA/QC

Robert Milne, PE
Project Manager

RJ Hovatter, PE
Project Engineer

Caitlyn Preast, EI
Staff Engineer

Thrasher-in-House
Environmental Services

Thrasher-in-House
Survey Services

Thrasher-in-House
Construction Administration Services

Robert Milne, PE Project Manager



Robert Milne, P.E. joined Thrasher in 2010 and was named Partner in the firm in 2012. Mr. Milne has over 25-years of experience working throughout the tri-state area. Mr. Milne is responsible for the overall management of projects including staff supervision, assignments, contract administration, cost control and on-time project delivery.

Mr. Milne is experienced in civil/site design, public utilities, buildings, as well as roadways, highways, bridges, traffic studies and storm sewer design and construction administration and inspection.

Education:

- Masters of Science, Civil Engineering - West Virginia University
- Bachelors of Science, Civil Engineering - West Virginia University

Registrations:

- Registered Professional Engineer
 - States of West Virginia, Ohio, Maryland, Virginia, and Pennsylvania

Affiliations/Certifications:

- Leadership Monongalia County, WV
- Foundations of Leadership / National Leadership

Related Experience Includes:

- West Virginia DNR Palatine Park Master Plan: Boat Ramp and Parking Improvements - Marion County, West Virginia
- Marion County Economic Development Council Master Plan and Splash Park - Marion County, West Virginia
- Canal Place Master Plan - Allegany County, Maryland
- West Virginia University - Evansdale Pedestrian Improvements - Monongalia County, West Virginia
- Westridge Development 800-Acre Industrial and Commercial Site Development Project - Monongalia County, West Virginia
- WVU Milan Puskar Stadium Renovations - Monongalia County, West Virginia

Mike Nestor, PE

QA/QC



Michael Nestor, PE, joined Thrasher in 2005 and has over 15 years of experience in the development of large commercial and industrial sites. Mr. Nestor has been involved in numerous site development endeavors within the State of West Virginia where he has been tasked with designing site layouts, infrastructure design including street and lot layout, street profiles, and the extension of public utility systems to these developments.

Mike's knowledge of navigating the West Virginia regulatory and permitting agencies has also proven to be a huge asset to his clients. Mr. Nestor is able to help clients move projects from design to construction at a rapid pace. His ability to assess sites and develop strategic designs ensures that clients do not run into unforeseen issues when entering the construction phase. In addition to Mike's talents for designing industrial and manufacturing sites, he has also garnered years of experience designing some of the most complicated and expansive stormwater management systems in the state. Mr. Nestor has worked with both public and private clients to solve stormwater issues and bring project sites into complete State and Federal compliance.

Education:

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

Registrations:

- Registered Professional Engineer
 - State of West Virginia

Affiliations/Certifications/Trainings:

- Past President of the North Central WV Chapter of American Society of Highway Engineers
- American Society of Civil Engineers

Related Experience Includes:

- Westridge Development 800-Acre Industrial and Commercial Site Development Project - Monongalia County, West Virginia
- Baker Hughes Industrial Site Development - Stark County, Ohio
- American Woodmark Facility Site Development - Hardy County, West Virginia
- Raleigh County Memorial Industrial Park - Raleigh County, West Virginia
- Wood Products Industrial Park - Mingo County, West Virginia
- Nicholas County Industrial Park - Nicholas County, West Virginia
- White Oaks Business Park Development - Harrison County, West Virginia
- Charles Pointe Development - Harrison County, West Virginia
- Fairmont State University 10 Year Open-End Contract - Marion County, West Virginia
- Pinecrest Business and Technology Park - Raleigh County, West Virginia
- Wolf Creek Park "Live, Work, Play" Community - Fayette County, West Virginia

RJ Hovatter, PE Project Engineer



Richard "R.J." Hovatter joined Thrasher Engineering, Inc. in 2011 and serves as Project Engineer/Manager for the firm. Mr. Hovatter is a graduate of Fairmont State University and has extensive knowledge of the engineering field through education and previous experience. He is responsible for the designs, scheduling and management of site designs, oil and gas well site designs, erosion and sediment control plans, storm water plans, and waterline feasibility studies.

As Project Engineer, Mr. Hovatter has completed the site design, grading, storm water and erosion and sediment control plans for over twenty private and commercial development. He has also managed over 35 Abandoned Mine Land Emergency and Abandoned Mine Land projects in West Virginia, Maryland and Ohio.

Education:

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

Registrations:

Registered Professional Engineer (PE)

- State of West Virginia
- State of Pennsylvania

Related Experience Includes:

- Antero Resources Canton Water System Project - Doddridge County, West Virginia
- Antero Resources Langford Water Project - Doddridge County, West Virginia
- Antero Resources West Fork Intake - Harrison County, West Virginia
- Oxford Pipeline Design - Doddridge County, West Virginia
- Interconnect Well Pad Sediment and Erosion Control Plan - Wetzel County, West Virginia

Richard Wilbur II

President/CEO of Advantage Technology



Richard Wilbur is President/CEO of Advantage Technology, an IT company located in downtown Charleston, West Virginia. Advantage Technology provides IT services for over 850 professional companies and organizations in West Virginia, Virginia, Ohio, Kentucky, Tennessee, Alabama, and Florida and has provided support all over the eastern United States.

Richard is principally a Senior Systems Engineer, where he specializes in designing enterprise data centers using virtualization, storage systems, and the latest server architecture.

Education:

- Regents' Bachelor of Arts - West Virginia University

Notable Achievements:

- Started Advantage Technology over 15 years ago
- Grew Advantage Technology from a single employee to over 70 employees
- Still maintains our first customers

Certifications:

- MCSE, Microsoft Certified Systems Engineer, 2001
- Comptia A+, Certified Service Professional, 2001
- CCNA, Cisco Certified Network Associate, 2007
- CSSA, Certified Sonicwall Security Administrator, 2008
- CSSA, Certified Sonicwall Security Administrator, 2010 (Aventail)
- CVE 4.1, Certified Virtualization Expert, 2011
- VCP5, VMware Certified Professional, 2012
- VCP5.5, VMware Certified Professional, 2015



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Jonathan Knight

Data Communications Expert



Jonathan is a networking, connectivity, data communications and data centers expert with a career working for Fortune 500 companies. He has In-depth knowledge coordinating multi-group, complex enterprise-level projects from concept to completion. In addition to his technical expertise, he has supervisory experience planning, directing and coordinating network engineering projects for fast-paced growth companies.

Since 2012, he has been Customer Solutions Director at Advantage Technology, where he develops and manages complex networking and datacenter problems for wide range of customers.

Education:

- Bachelor of Science, (Dual Discipline) Electrical and Computer Engineering - West Virginia University

Notable Achievements:

- Enabled fast paced growth by designing and upgrading data center core technologies, air conditioning, cable/rack layouts, UPS and generator in less than a year.
- Increased operational stability and availability in the network infrastructure with standards based wiring practices and up-to-date equipment in the core and remote sites.
- Expert in resolving complex/critical connectivity problems including performance problems, application access and intermittent issues.
- Reduced overall network/telecom costs by proactively managing and negotiating contracts.
- Resolved remote site WAN/LAN/MAN connectivity with the utilization of TLANS, broadband and T1s.
- Provided business continuity in a disaster scenario by designing and implementing large scale, cost-effective disaster recovery connectivity and services.

Certifications:

- MCSE, Microsoft Certified Systems Engineer, 2001
- Comptia A+, Certified Service Professional, 2001
- CCNA, Cisco Certified Network Associate, 2007
- CSSA, Certified Sonicwall Security Administrator, 2008
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Eric Fields

Communications Engineer



As a Communications Engineer at Advantage Technology, Eric designs and implement cutting edge telecommunications systems, including basic key systems to advanced PBX and VOIP telephone systems. He also oversee Information Technology Systems infrastructure installations to ensure that our customers have a solid foundation to build reliable, high performance networks.

Before coming to Advantage Technology, he was an Avionics Technician in the United States Air Force. He also designed substations for American Electric Power for five years. He began working in telecommunications in 1999 as a project manager for a large ITS contractor, managing medium to large infrastructure installations in the Mid-Atlantic regions.

Notable Achievements:

- Veteran, Operation Desert Storm, 1991
- Eagle Scout, 1987

Certifications:

- BICSI Registered Communications Distribution Designer (RCDD)
- Corning Fiber Optics
- Avaya IP Office
- NEC SL1100



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Rob Dixon

Director of Information Systems



As the Director of Information Systems Security at Advantage Technology, Rob is charged with leading our Information Security Services team on behalf of our customers. We deliver a number of advisory services in addition to security compliance testing, awareness training, and other professional security services. He has nearly 20 years of industry experience in information security.

Education:

- Management Information Systems - DeVry University
- Communications - West Virginia State University

Notable Achievements:

- He has been fortunate enough to have been invited to participate in a number of unclassified, state and federal exercises including the NSA's Cyber Defense Exercise 2009-2011 and Cyber Storm II and III.
- In 2013, he developed an open source DNS security tool titled Scrape-DNS. This tool has been adopted and included in a number of security testing toolkits and frameworks, including Metasploit, Recon-ng and ArchAssault.

Certifications:

- GIAC Certified Penetration Tester (GPEN)
- GIAC Certified Wireless Penetration Tester (GAWN)
- GIAC Certified Web Application Penetration Tester (GWAPT)
- Certified Computer Hacking Forensics Investigator (CHFI)
- Snort Certified Professional (SnortCP)
- Enterasys Security Systems Engineer – Dragon (ESSE-D)
- Tenable Enterprise Certified Professional (TECP)
- Tenable Nessus Certified Professional (TNCP)
- Tenable Nessus Audit Certified Professional (NACP)
- Protected Critical Infrastructure Information (PCII) Authorized User
- Chemical-terrorism Vulnerability Information (CVI) Authorized User
- Microsoft Operations Framework (MOF)



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