



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header

General Information Contact Default Values Discount Document Information

Procurement Folder: 68225	SO Doc Code: CEOI
Procurement Type: Central Contract - Fixed Amt	SO Dept: 0310
Vendor ID: 000000206513	SO Doc ID: DNR1500000018
Legal Name: TERRADON CORPORATION	Published Date: 5/6/15
Alias/DBA:	Close Date: 5/19/15
Total Bid: \$0.00	Close Time: 13:30
Response Date: 05/18/2015	Status: Closed
Response Time: 15:40	Solicitation Description: Addendum #2 Blackwater Falls Sled Run Phase III - EOI
	Total of Header Attachments: 0
	Total of All Attachments: 0



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

**State of West Virginia
 Solicitation Response**

Proc Folder : 68225

Solicitation Description : Addendum #2 Blackwater Falls Sled Run Phase III - EOI

Proc Type : Central Contract - Fixed Amt

Date issued	Solicitation Closes	Solicitation No	Version
	2015-05-19 13:30:00	SR 0310 ESR05181500000003839	1

VENDOR

000000206513
 TERRADON CORPORATION

FOR INFORMATION CONTACT THE BUYER

Laura E Hooper
 (304) 558-0468
 laura.e.hooper@wv.gov

Signature X FEIN # DATE

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Architectural engineering				\$0.00

Comm Code	Manufacturer	Specification	Model #
81101508			

Extended Description : A/E services for Blackwater Falls Sled Run Phase III East Bond Project.



Charleston/Poca, WV
409 Jacobson Dr.
Poca, WV 25159
Tel: 304-755-8291
Fax: 304-755-2636

Charlton Heights, WV
PO Box 307
Charlton Heights, WV 25159
Tel: 304-645-4636
Fax: 304-645-7614

Columbus, OH
4449 Easton Way, Ste. 200
Columbus, OH 43219
Tel: 614-934-1315

Lewisburg, WV
PO Box 1635
Lewisburg, WV 24901
Tel: 304-645-4636
Fax: 304-645-7614

May 18, 2015

Bid Clerk
Department of Administration
Purchasing Division
2019 Washington St E
Charleston, WV 25305

Subject: Expression of Interest CEOI 0310/DEP1500000018 for Blackwater Falls Sled Run Phase III

Dear Selection Committee:

TERRADON is pleased to provide you with the following Expression of Interest to provide professional engineering services to the WV DNR for CEOI 0310/DEP1500000018 for Blackwater Falls Sled Run Phase III.

TERRADON has a long-standing history of providing quality design and construction services to the State of West Virginia. Our diverse staff can provide complete services for any issue that may be included in this project. TERRADON welcomes the opportunity this project offers.

I look forward to an opportunity to interview for this project, and hope to be the State's preferred consultant. Should you have any questions regarding the submittal or TERRADON, please do not hesitate to contact me at 304-755-8291.

Sincerely,

Ryan Wheeler
TERRADON Corporation



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

State of West Virginia
 Centralized Expression of Interest

Proc Folder: 68225

Doc Description: Addendum #2 Blackwater Falls Sled Run Phase III - EOI

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2015-05-06	2015-05-19 13:30:00	CEOI 0310 DNR1500000018	3

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:

TERRADON Corporation
 409 Jacobson Drive
 Poca, WV 25159

FOR INFORMATION CONTACT THE BUYER

Laura E Hooper
 (304) 558-0468
 laura.e.hooper@wv.gov

Signature X *Muhammad U. Riaz* FEIN # 55-0687626 DATE 5/18/15

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

DNR1500000018	Document Phase Final	Document Description Addendum #2 Blackwater Falls S led Run Phase III - EOI	Page 3 of 3
----------------------	--------------------------------	--	------------------------------

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: 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 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: Terradon Corporation

Authorized Signature: Muhammad U. Riaz Date: 5/13/15

State of West Virginia

County of Putnam, to-wit:

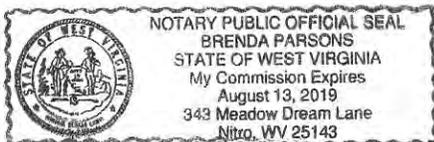
Taken, subscribed, and sworn to before me this 13th day of May, 2015

My Commission expires August 13, 2019

AFFIX SEAL HERE

NOTARY PUBLIC

Brenda Parsons



ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: DNR150000018

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 type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input checked="" 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.

TERRADON Corporation

Company



Authorized Signature

5/18/15

Date

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

Revised 6/8/2012

CERTIFICATION AND SIGNATURE PAGE

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid, 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.

TERRADON Corporation
(Company)

Muhammad U. Riaz
(Authorized Signature) (Representative Name, Title)

304-729-9125 304-755-2636 5/18/15
(Phone Number) (Fax Number) (Date)

Engineering . Planning . Surveying . Environmental . Inspection

STATEMENT OF QUALIFICATIONS FOR:

*Blackwater Falls State Park
Phase III Sled Run Improvements*

WVDNR
324 4th Avenue
South Charleston, WV 25303

May 19, 2015



Corporate Office
409 Jacobson Dr.
Poca, WV 25159
304-755-8291

Lewisburg, WV
425 North Jefferson St.
Lewisburg, WV 24901
304-645-4636

Columbus, OH
4449 Easton Way, Ste. 200
Columbus, OH
614-934-1315

Charlton Heights, WV
P.O. Box 307
Charlton Heights, WV 25040
304-541-7655

ALL LOCATIONS Fax: 304.755.2636

www.terraddon.com

TABLE OF CONTENTS

1.	Professional Qualifications/Corporate Overview.....	1
2.	Staff Qualifications/Experience in Completing Similar Projects.....	9
3.	References.....	15
4.	Copies of Staff Certifications/Degrees.....	16
5.	Proposed Staffing Plan.....	20
6.	Descriptions of Past Projects.....	21

SUMMARY OF PROSPECTUS

This summary of prospectus describes TERRADON Corporation's response to the West Virginia Division of Natural Resource's advertisement for: **The Blackwater Falls State Park Phase III Sled Run Improvements Project.**

1. The TERRADON Team possesses all the required Professional Qualifications necessary for consideration and satisfactory performance of the required work and has multiple professional engineers and landscape architects licensed by the State of West Virginia. Our primary point of contact, also the person responsible for the design, is located within the office where the work is to be performed (Poca, WV), and as demonstrated by project experience listed in Section 1, has sufficient past experience performing for the State of West Virginia, related to design and plan development to be provided for this project. This individual shall be the person-in-charge overseeing the work and will be readily accessible to the Division and will be located in-state.
2. The TERRADON Team and our accomplished professionals have the specialized experience and technical competence for consideration by the Department. Our specialized experience listed in our resumes and project experience show emphasis on the qualifications of the staff that will be working on the project, and we have placed emphasis on individual specialized expertise required for the project. Our included resumes of the individuals who will be committed to the needs of the project are included for consideration in this proposal. Our professional and non-professional staff's specialized experience and technical competence stationed within our Charleston-area offices where the work is to be performed has been included for consideration.
 - a. The TERRADON team will have one single point of contact and will coordinate with a single contact at the DNR. This will streamline all communications and eliminate miscommunication on the project.
 - b. We will develop our project scope to fit the project budget and select some aspects to be bid as alternatives to allow maximum flexibility at the bid opening, to ensure we keep the project on budget. We also will suggest that we have a contingency during conversation for any field issues.
 - c. Based on our budget and scope, we will develop a project schedule. This schedule will be realistic and have some allotment of contingency time build in for field issues and weather.
 - d. TERRADON has an extensive history and track record for all the scope items for this project.
3. The TERRADON Team has the necessary capacity and ability to accomplish the work within the Department's required schedule time frame; a list of our personnel dedicated to perform the work is included in Section 3: CAPACITY/MANAGEMENT & STAFFING CAPABILITIES.
4. As described in Section 4, TERRADON has indicated Past Performance on contracts with Government agencies and private industry in terms of cost control, quality of work, and compliance with performance schedules.
5. The location where the work will be performed will be in our Charleston-area offices, and TERRADON and OMNI's headquarters are both in close proximity to both the WVDNR headquarters. Staff have a long history of successful performance on previous projects for similar size and scope. Our past experience and

Qualifications - TERRADON Corporate Overview



TERRADON Corporation offers a multi-faceted approach to design engineering and consulting services. For the past 25 years TERRADON staff has provided a wealth of engineering solutions blanketing the Appalachian and Mid-Atlantic region with successful projects. The company built its reputation on expert personnel and quality, time-sensitive service. Those same founding principles hold true today.

The second-generation, family-owned business has built a strong reputation by providing flexible, cost effective design solutions and maintaining the highest level of customer service. The firm has been recognized through numerous awards from professional organizations and agencies including the American Society of Civil Engineers, State Highway Departments, the Department of Environmental Protection and the American Institute of Architects.

TERRADON's corporate culture promotes innovation and progressive thinking. Project leaders strive to sustain customers through a wide-range of engineering offerings. TERRADON employees understand the purpose behind their services and work to cultivate lasting relationships with clients through honest, hard work.

TERRADON is the largest woman-owned engineering firm in West Virginia. TERRADON is a certified Women's Business Enterprise as defined by the Women's Business Enterprise National Council and the National Women Business Owners Corporation.



Locations



TERRADON maintains four locations: headquarters near Charleston, WV and offices in Lewisburg, WV, Charlton Heights, WV, and Columbus, OH. Each location is fully-staffed with Landscape Architects, Professional Engineers, Surveyors and Field Inspectors.



TERRADON Land Development Services Overview

Land Development covers a broad swath of TERRADON's service offerings and sees a large percentage of its annual revenue from repeat clients or referrals. The group is composed mainly of Landscape Architects and CAD designers who frequently team with every other department within the company.

TERRADON's Land Development department collaborates with public and private entities and has a strong presence in the recreation, public/civil, educational and commercial development sectors. TERRADON is recognized as a leader in providing site design and land planning services. The firm's professional engineers work closely with the client from the project's initial phase through a schematic design, construction documents and project delivery. TERRADON's Landscape Development Group remains on the forefront of sustainable design, providing LEED Accredited Professionals to clients. Projects utilizing sustainable design best practices aid clients in significantly reducing energy costs on projects.

TERRADON's Land Development Group works in a variety of markets including: Parks/Recreation, Commercial/Industrial, Civic/Public, K-12 Education, Higher Education and Medical.

Projects include: Master planning, recreational planning, funding agencies assistance, economic development planning, surveying, engineering, architecture, historical preservation construction administration and inspection.

LAND DEVELOPMENT SERVICES

- Master Planning
- Presentation Drawings/Renderings
- Site Feasibility Studies
- Schematic Design
- Layout Plans
- Grading Plans
- Stormwater Management Plans
- Erosion Control Plans
- Planting Plans
- Construction Observation



Statement of Interest - Qualifications

Geotechnical Services

TERRADON offers some of the most experienced staff in the region for local geotechnical expertise. This team of experts brings a distinctive, specialized understanding of the difficult soil and groundwater conditions found in the Ohio Valley and Appalachian Regions of the United States.

The Geotechnical group has provided investigations associated with earthen dams, mining, waste disposal, new building construction, landslides analysis and remedial design, cell and high mast towers, landfill permitting and cap design, flexible/rigid pavement design, and environmental remediation.



SERVICES INCLUDE

- Dam Design (Earth, Rock Concrete)
- Dam Studies (Cost, Volume, Area, Water Balance)
- Retaining Structure Analysis and Design
- Stability Analysis
- Landslide Analysis and Remedial Design
- Foundation Design
- Municipal and Industrial Landfills
- Flexible and Rigid Pavement Design
- Test Borings
- Monitoring Well and Piezometer Installation
- Test Pit Excavations
- Soil and Rock Logging, Sampling and Testing

GEOTECHNICAL DESIGNS INCLUDE

- Dams
- Roadway Cuts, Fills and Bridge Foundations
- Site Development
- Landslide Remediation
- Subsurface and Surface Drainage
- Structural Corrections
- Structural Retaining Walls
- MSE Walls and Other Gravity Walls
- H-Piles and Lagging
- Anchors (Rock or Soil) In Combination with Above if Applicable
- Building Foundations
- Asphalt and Concrete Pavements



Statement of Interest - Qualifications

CONSTRUCTION INSPECTION & MONITORING

TERRADON offers construction inspection and monitoring, and materials testing services to document compliance with project design specifications and regulatory requirements. The firm provides construction monitoring for utility, highway, and commercial construction projects. TERRADON also provides laboratory and field testing of construction materials. Engineers and technicians at TERRADON are West Virginia Department of Highways certified in Portland Cement Concrete, Hot-mixed Asphalt, Compaction and Aggregates.

Materials Testing & Inspection Services Include:

- Slump of Portland Cement Concrete (AASHTO-T119)
- Air Content of Freshly Mixed Concrete (AASHTO-T196 and T152)
- Unit Weight and Yield (AASHTO-T121)
- Making and Curing of Concrete Test Specimens (AASHTO-T23)
- Compressive Strength of Concrete Specimens (AASHTO-T22)
- Fine and Course Aggregate Gradations (AASHTO-T11 and T27)
- Specific Gravity of Aggregates (AASHTO-T84 and T85)
- Atterberg Limits (AASHTO-T89 and T90)
- Moisture Content of Soil (ASTM-D2216)
- Nuclear Compaction Testing of Soil, Stone, and Hot Mixed Asphalt
- Preparation of Certification Forms and Construction Reports

The following is a short listing of construction inspection experience:

- Montgomery Sewer Upgrades (3 projects)
- National Park Service: Nuttallburg Town Reconstruction
- National Park Service: Brookfield - Hawks Nest Dam stabilization
- West Virginia American Water Company - Various waterline extension and replacement projects throughout West Virginia
- Summit Bechtel Family Reserve -
 - Multi-shift construction observation and compaction testing for soil placement and excavation activities
 - Concrete testing
 - Drainage installation Construction Observation
 - Gradation Testing and Construction Observation for Stone Placement
 - Utility Installation Construction Observation
 - On-site Sewage Holding and Disposal Systems Inspection
 - Road Construction Inspection and Testing
 - 2009 IBC Special Inspections at the Logistics Center Warehouse, Treehouse, Visitor's Center and Zip Lines

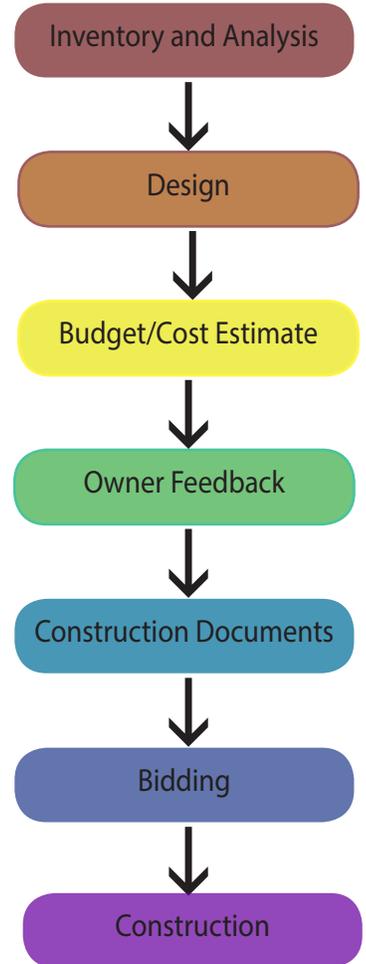


PROJECT APPROACH

This project approach describes TERRADON Corporation’s response to the West Virginia Division of Natural Resource’s advertisement for: The Blackwater Falls State Park Phase III Sled Run Improvements Project.

Project Design Approach Steps:

- Surveying
- Inventory and Analysis
- Schematic Planning
- Cost Analysis
- Owner/Consultant Progress Meeting
- Owner Feedback
- Geotechnical Investigation (if required)
- Site Design
- Owner Feedback
- Environmental Analysis and Permitting (if required)
- Construction Documents
- Agency Permitting
- Bid Phase Construction Phase
- Contract Administration during Construction



PROCEDURE OF COMMUNICATION

The TERRADON Team will demonstrate a clear procedure for communication with the DNR and Blackwater Falls during all phases of the project. TERRADON and OMNI have teamed for over a decade on numerous civic, public, recreational and private projects. This history of successful projects is made possible through effective communication and providing constant input on concepts, plans and construction aspects.

TERRADON recognizes that constant communication and feedback between clients and the design team are essential during each phase of the project. Communication will be maintained through in-person visits, email correspondence and telephone calls during each stage of the project.

DEMONSTRATION OF HISTORY OF PROJECTS CONSTRUCTION WITHIN BUDGET

The Project Profiles included in this submission demonstrate that TERRADON and OMNI have completed a history of projects that meet owners' budgets and develop clear plans to ensure projects can be constructed within budget.

TERRADON Corporation maintains a cost accounting system in house that segregates and identifies accumulating costs for each job that is performed under cost-type projects. TERRADON utilizes Deltek accounting software and routinely tracks projects in accordance with requirements of the State of West Virginia.

DEMONSTRATION OF HISTORY OF PROJECTS CONSTRUCTED IN ALLOTTED TIMES

In addition to ensuring projects are completed within budget, it is important make sure projects are completed within allotted times. The TERRADON team has a history of completing projects both on-time and within budget, and creates detailed plans with proposed timelines for all projects.

DEMONSTRATION OF COMPETENCY AND EXPERIENCE IN PROFESSIONAL DISCIPLINES

As indicated in the professional resumes included in this submission, the TERRADON team demonstrates competent and acceptable experience in all expected professional disciplines necessary for the design and completion of the project. The team consists of experienced, licensed Professional Engineers, Landscape Architects, Architects, Geologists, Remediation Specialists, Wetland Scientists, Surveyors and Inspectors. Each of these professionals has obtained the proper credentials, and gained the required experience on previous projects, to complete this project.

TERRADON TECHNICAL EXPERTISE - KEY PERSONNEL

Greg Fox, ASLA, LEED AP **Project Manager and Primary Point of Contact**

Greg Fox has overseen the Land Development Department at TERRADON since its inception in 2000. He offers more than 26 years of industry experience, providing design services to a variety of markets. During his tenure, the Land Development Group has completed more than one hundred K-12 Educational projects and dozens of Higher Education projects. Under his guidance, the group has been the recipient of Engineering Excellence awards from the West Virginia Association of Consulting Engineers, and the Gold Award for Engineering Excellence from the American Council of Engineering Companies. Additionally, the Land Development Group has been recognized numerous times for Merit Awards by the West Virginia Chapter of American Society of Landscape Architects. Fox is a registered Landscape Architect in West Virginia, Ohio, North Carolina, South Carolina, Pennsylvania and Virginia. He is an active member of the American Society of Landscape Architects. Fox received degrees in Landscape Architecture and Planning from West Virginia University.

John James, PE **Geotechnical Engineer**

James is a Senior Geotechnical Engineer for various transportation, environmental, and mining projects. James specializes in innovative and cost-saving concepts for his projects. James' project experience includes: roads; highways and bridges; earth and rockfill dams; numerous foundation investigations; studies and designs for landfills and environmental facilities; surface and ground water studies and remediation; foundation investigations and designs ranging in size from houses to major industrial complexes; storm drainage facilities; airport facilities; landslide analysis and correction; and forensic engineering.

Jim Nagy, PE **Infrastructure**

Nagy performs Civil Engineering related to water and waste water projects at TERRADON. He specializes in the design of water treatment and distribution systems. He has more than 25 years of on-hand experience providing engineering for the largest private water company in West Virginia. He earned a B.S. in Civil Engineering from West Virginia University. His primary focus is on management of water and wastewater projects. He also performs design work related to water distribution systems and sewage collection systems.

Shawn Gray, ASLA **Landscape Architect**

Shawn Gray is an experienced Site Designer and Land Planner who serves as an integral part of the TERRADON design team. He offers experience on many of TERRADON's highest profile projects, focusing on large scale site development and parks and recreation projects. Gray also provides site design and landscape architecture services for K-12 and Higher Education projects. He is responsible for developing site, grading, landscape and utility plans, site detailing and erosion sediment control plans and permitting.

Peter J. Williams, ASLA **Landscape Architect**

"Pete" Williams is a graduate of West Virginia University with a Bachelor of Science in Landscape Architecture. His responsibilities include landscape architectural design, grading and storm water drainage design, the design of pedestrian circulation systems and related amenities, roadway design, site planning, and quality control. Mr. Williams is registered as a professional Landscape Architect in West Virginia with more than 13 years of experience at TERRADON and more than 22 years of overall experience.

Robert Thaw, PS **Survey and Mapping**

Robert Thaw, Vice President of Survey and Mapping, oversees all TERRADON Survey services. TERRADON's survey group serves a diverse range of projects in support of seven TERRADON service groups in addition to managing survey-specific clients. Thaw manages a staff of Professional Surveyors and Computer Aided Drafting (CAD) designers who provide mapping, construction layout, ALTA survey, topographic survey and boundary survey services. Thaw's leadership has been instrumental in TERRADON's prioritization of the use of modern technology, ensuring clients the most efficient and accurate results. Additionally, he is responsible for in-house design of commercial property sites, parking and utility easements, and review of project plans and base mapping creation. Thaw's group also provides as-built surveys, utility identification surveys and deformation monitoring of design features such as retaining walls and dams.



Greg Fox, ASLA, LEED AP Vice President of Land Development

Greg Fox oversees TERRADON's Land Development Sector. Fox has been responsible for hundreds of notable commercial, educational and recreational site development projects during his 25-year career. During his time as Land Development Department Head, TERRADON has earned Engineering Excellence Awards from the West Virginia Association of Consulting Engineers, numerous Merit Awards from the American Society of Landscape Architects, and the Gold Award from the American Council of Engineering Companies.

Relevant Project Experience

- **The Bechtel Summit National Scouting Reserve** - Provide Site Design for the 10,600+ acre site in Fayette County, WV. Responsible for site grading, construction drawings, NPDES design and coordination for all project subconsultants for NPDES permitting with WVDEP.
- **Greater Greenbrier Sports Complex** - Provided Master Planning and Grading Design Services for the Greater Greenbrier Sports Complex located north of Lewisburg, WV. Five phases include: Master Planning, Grading Study, Full Construction Documents, Utility Layout, Road Design, Erosion and Sediment Control.
- **Glade Run/ Zelienople, PA** - Conducted a master facility plan for a 300+ acre development for Glade Run Lutheran Services This project involved a mixed use development which included an equestrian trail, senior housing, single family residential, office, and retail.
- **Palatine Park Master Planning** - Provided master Planning Services for the City of Fairmont for the redevelopment of Palatine Park on the east side of the Monongahela River adjacent to downtown Fairmont, WV. The Master Plan featured new parking areas, walking trails, a vista overlook, a picnic gazebo and retail space.
- **Putnam County Parks Master Planning** - Provided Master Planning and site civil design services for the expanding Valley Park in Hurricane, Putnam County, WV. This work is part of a nearly \$2 million expansion, which was completed in 2013 and adds an additional 6 acres to the park. The project included planning for athletic fields, multiple parking lots, access roads and greenspace, but also incorporated a walking trail that ties into existing park trails. The plan was produced in coordination with the WVDOT to determine roadway/walkway ingress/egress and designed in accordance with local, state and federal regulations.
- **Fairmont Riverfront Park Master Plan** - The City of Fairmont and the Fairmont Renaissance Corporation intend to develop new recreation opportunities and at the same time enhance economic development opportunities for the community. The main goal of the planning process was to develop a plan that will allow for the comprehensive development and implementation of new elements to the riverfront. The elements planned will include rehabilitation of an existing park and new recreation, commercial, and residential opportunities. This plan was designed so that the core elements of the plan will entertain people of all age groups, help with the revitalization of the surrounding neighborhood, and stimulate the entire downtown area of Fairmont.



Education

B.S. Landscape Architecture
West Virginia University
B.A. Geography & Planning
West Virginia University

Work Experience

2000-Present
TERRADON Corporation

1996-2000
Martin Boal Anthony &
Johnson Architects

1993-1996
Site Design

1989-1993
EG&G Inc

1988-1989
PSC Engineers

John James, PE
Geotechnical Engineer

Mr. James is a Senior Geotechnical Engineer for various transportation, environmental, and mining projects. Mr. James specializes in innovative and cost-saving concepts for his projects.

James' project experience includes: roads; highways and bridges; earth and rockfill dams; numerous foundation investigations; studies and designs for landfills and environmental facilities; surface and ground water studies and remediation; foundation investigations and designs ranging in size from houses to major industrial complexes; storm drainage facilities; airport facilities; landslide analysis and correction; and forensic engineering.

Relevant Project Experience

- US 35—Slope Stability Design of Waste Pit Areas
- Corridor H— Slope Stability Design of Waste Pit Areas and Cut/Fill Slope Value Engineering
- Geotechnical investigations and reporting on highway/roadway projects including open-ended statewide geotechnical contract, Route 35 Design/Build, Sedalia Arch Bridge, and Sleeth's Run Bridge.
- Chatham Lake Dam—Dam Design and Analysis.
- Dawson Dam— Dam Design and Analysis.
- Horton Dam— Seismic Analysis and Monitoring.
- Weston Water Supply Dam— Seepage Analysis & Corrective Design.
- Lake Chaweva Dam— Dam Reconstruction Design.
- Geotechnical investigation and design of numerous water and wastewater treatment plants, including Charleston Wastewater Treatment Plant, North Beckley Wastewater Treatment Plant, and Buckhannon Water & Wastewater Treatment Plant.
- Design and upgrade of water supply dams including Upper & Lower Dog Run water supply dams, Salem, West Virginia; Key Dam, Bluefield, West Virginia; Chatham Lake Dam (irrigation supply), Shady Springs, West Virginia. Involvement with geotechnical aspects included interaction with process and structural aspects and structural design of many components.



Education

B.S., Civil Engineering,
West Virginia Institute of
Technology

Work Experience

TERRADON Corporation
2004-Present

James Engineering
1983-2004

Triad Engineering
1978-1983

James Engineering
1973-1978

Ackenherl & Associates
1968-1973

US Geological Survey
(Part-time College Intern)

Jim Nagy, PE
Senior Engineer

As a Senior Engineer at TERRADON, Jim Nagy's primary focus is on designing civil engineering projects for public and private development projects throughout West Virginia. Nagy specializes in the design of water distribution systems as well as sewage collection systems. Nagy offers decades of hands-on experience and has previously provided design engineering services for schools, commercial developments, residential developments, public utilities and more. He earned a B.S. in Civil Engineering from West Virginia University and is a Professional Engineer in the State of West Virginia.

Relevant Project Experience

- **School Projects**
Responsible for layout, design, and permitting of water and sewer lines for numerous school projects in WV. Projects entailed coordination with PSDs, municipal water and sewer departments, State and Federal regulatory agencies for design of facilities. Schools include: Blue Ridge Community and Technical College, Blue Ridge K-12, Burnsville Elementary, Flatwoods Elementary, Davis Elementary, Sutton Elementary, Little Birch Elementary, Frametown Elementary, Buffalo High School, Clay-Battelle High School, Confidence Elementary, Jefferson Elementary, East Hardy High School, Eastwood Elementary, Flinn Elementary, Geary Elementary, Gilbert High School, Greenbrier West high School, Hampshire High School, Harpers Ferry High School and 19 additional schools.
- **Commercial Developments**
Responsible for layout, design, and permitting of water and sewer lines for numerous commercial developments in WV. Projects entailed coordination with PSDs, municipal water and sewer departments, State and Federal regulatory agencies for design of facilities. Developments include: Fairmont Federal Credit Union, Allegheny Energy Union (Fairmont), First Ward (Clendenin) Apartments, Milton Crossing, Tri-State Hotel and multiple convenience store sites throughout WV.
- **Charleston Replacement Housing**
Utility design, primarily water, sewer and stormwater, and coordination of overall site activities with the project developer for multi-unit housing development. Each phase entailed the design and layout of several hundred feet of water, sewer and stormwater line, including multiple connections with the utility providers, i.e., the Charleston Sanitary Board and West Virginia American Water, and applicable permit applications. Also responsible for construction monitoring and provision of as-built drawings as required by the respective utility providers.
- **Cathcart – Devonshire Development, Scott Depot, WV**
Designed sanitary sewer and water distribution system to serve more than 900 housing units in this private development.
- **Washington Woods Subdivision, Ravenswood, WV**
Designed more than 9,000 feet of water and sewer line and a 500 gpm fire pump water booster station to serve a 150 lot subdivision.
- **Sawmill Village, Snowshoe, WV**
Designed approximately 2,800 feet of 8" water line and sanitary facilities to serve the Sawmill Village development project in Snowshoe, WV.
- **Cabell County Water Main Extension Project**
Worked on design and layout of approximately 46,000 feet of water main for the Salt Rock PSD/WVAW. Responsible for bidding, contract award, and project management.
- **Putnam County Water Main Extensions**
Worked on design and layout of approximately 63,000 feet of water main and a booster pumping station for the Putnam County Commission/WVAW. Responsible for bidding, contract award, and project management.
- **Manila Ridge Water Main Extension Project**
Worked on design and layout of approximately 38,000 feet of water main for the Putnam County Commission/WVAW. Project has not received funding yet. However, will be responsible for bidding, contract award, and project management.



Education

B.S. Civil Engineering
West Virginia University

Work Experience

TERRADON Corporation
2007-Present

WV American Water
1991-2007

AWW SC
1984-1991

WV DNR
1982-1984

VTN, Inc. Consulting
Engineers
1978-1982

J.H. Milam Consulting
Engineers
1977-1978

WV DNR
1976-1977

WV Department of
Highways
1975-1976

Registration

Professional Engineer: WV

Bill Hunt, PG, LRS

Vice President of Geo-Environmental, Testing & Inspection

Bill Hunt is a Licensed Remediation Specialist and serves as Vice President of Geo-Environmental and Testing & Inspection services at TERRADON Corporation. Hunt offers relevant experience in environmental documentation, investigations, and coordination with federal, state, and local agencies. He prepares Environmental Impact Statements, Environmental Assessments, Section 4(f) Evaluations, and other environmental technical documents. He supervises and participates in work plan development, field surveys, on-site monitoring, data collection, impact analysis, subconsultant management, public meeting organization and group presentations.



Relevant Project Experience

Hunt has provided environmental management services on a wide variety of projects. His experience includes:

- NEPA Assessments/Clearances
- Phase I and II Environmental Site Assessments
- Section 401/404 Permitting
- Wetland Assessments and Delineations
- Environmental and Industrial Hygiene Sampling
- Environmental Audits and NEPA Assessments
- Risk Assessments
- Remediation Design
- Statistical Analysis of Soil and Groundwater data
- Spill Prevention and Best Management Practices Plan Preparation

Key Projects

- Conducted three Environmental Assessments and Environmental Screenings for proposed public school developments in West Virginia. These projects were involved with the National Park Service through the Land and Water Conservation Fund. These projects included assessment of NEPA considerations, WV SHPO, USFW RTE Species, USDA Prime Farmland, and wetlands.
- Conducted over 50 Phase I Environmental Site Assessments for the siting or cellular communication towers. These assessments included compliance with NEPA, SHPO and THPO considerations as required by the Federal Communications Commission, with FONSI.
- Conducted Form C Environmental Assessments for three runway extension projects located in West Virginia. These EAs were performed in conformance with the Federal Aviation Administration specification for projects that do not categorical exclusion criterion.
- Obtained 404, 401, PLC permits, project included performing cultural resource investigation oversight to determine if sites are eligible for or listed on the NRHP, endangered species survey oversight, wetland and stream mitigation plan oversight for of marina and retail development in Proctorville, Ohio.
- NEPA Environmental Study, West Virginia Regional Airport, Randolph County Airport, Mason County Airport, Upshur County Airport, Mingo County Airport.

Education

B.S. Environmental Science,
Morehead State University

M.A. Geography,
Ohio University

Work Experience

2010—Present
TERRADON Corporation
VP Geo-Environmental,
Testing & Inspection

2008—2010
NGE, LLC
Environmental Services Manager

2001—2008
Superior Marine Ways
Director, Environmental Health
& Safety

1991-2001
H.C. Nutting Company
Environmental Group Leader

1989—1991
PSARA Technologies
Environmental Services Division
Manager

1986—1989
Westinghouse
Environmental Scientist

Robert Thaw, PS

VP - Survey and Mapping

With more than 22 years of experience in a wide range of surveying projects, Robert Thaw serves as head of TERRADON's Survey and Mapping department. He organizes and supervises survey crews, reviews project plans and creates base mapping for various projects including noise barriers, interchanges, connectors, bypasses, sidewalks, bike paths and bridges. Thaw oversees all TERRADON survey activities, including: preparation of Right-Of-Way plans; the development of GPS static networks for aerial mapping in the design of roadways; identification of existing utilities and property lines; base image development and control placement for construction projects; and drafting of legal descriptions for ROW parcels.

Thaw has been directly responsible for survey and mapping services, including Right-Of-Way, on a number of notable transportation projects including:

- **Laurel Fork Campground Bridge**
TERRADON provided surveying and design engineering on a USDA Forest Service project in Randolph County, West Virginia. Surveyors led by Thaw provided Right-Of-Way services, including courthouse research, construction easements, and location of alignments. Additionally, provided topographic mapping, project control for construction, hydraulic cross sections and stream profiles.
- **Sedalia Arch Bridge**
Thaw oversaw survey services for the replacement of an existing concrete arch bridge with a 72' single span bridge. The bridge consisted of adjacent concrete prestressed box beams with a cast-in-place concrete deck. Survey services consisted of a topographic survey, ROW plans, construction control and legal description creation. Roadway design consisted of new bridge approaches and a designed detour. Drainage, maintenance of traffic and right-of-way plans were included in the scope of work.
- **Sleeth's Run Bridge**
Thaw provided Right-Of-Way services during the design for the replacement of an existing truss bridge in Lewis County, WV. The project included the design of a new 200' structure and approaches. Survey services consisted of a topographic survey, ROW plans, construction control and legal description creation.
- **Grade Road**
Thaw oversaw Right-Of-Way services for the new construction of two lanes adjacent to an existing two-lane roadway. Right-Of-Way services included Right-Of-Way Plans, legal descriptions, and questionnaires for take parcels.
- **St. Mary's Bypass**
Working for the WWVDOT, Thaw led transportation survey services for the relocation of WV 16 in Pleasants County, from Pleasants County Route 18 to WV 2 in Saint Mary's, West Virginia for approximately two miles of highway. The project included topographic mapping, survey control mapping, right-of-way and utility cost estimates and inventories.



Education

A.S., Survey Technology, 1981,
West Virginia Institute of
Technology

B.S., Surveying, 1985, West
Virginia Institute of Technology

Work Experience

TERRADON Corporation
1994-Present

Bowman Land Surveying
1992-1994

Dunn Engineers
1990-1992

Kelley Gidley Blair and Wolf
1988-1990

Pierson & Whitman
Architects and Engineers
1984-1986

Registration

Professional Surveyor,
West Virginia

Peter J. Williams, ASLA
Landscape Architect

“Pete” Williams is a graduate of West Virginia University with a Bachelor of Science in Landscape Architecture. His responsibilities include landscape architectural design, grading and storm water drainage design, the design of pedestrian circulation systems and related amenities, roadway design, site planning, and quality control. Mr. Williams is registered as a professional Landscape Architect in West Virginia with more than 13 years of experience at TERRADON and more than 22 years of overall experience.

Relevant Project Experience

- **Fire Stations, Medical, First Responder, Public Facilities**

- Yeager Airport Fire/Crash/Rescue Station
 - Fairmont Public Safety Building & Fire Safety Station

- **Higher Education**

- Marshall University Student Recreation Center
 - Marshall University Student Housing
 - Fairmont State Inner Campus Design

- **K-12**

- Hurricane High School Sports Fields, Additions & Renovations
 - Lakeside Elementary School Additions & Renovations
 - Eastwood Elementary School Additions & Renovations
 - Flinn Elementary School Additions & Renovations
 - Musselman High School Additions & Renovations
 - Martinsburg North Middle School Additions & Renovations
 - Jefferson Elementary School Additions & Renovations
 - A New Blue Ridge Primary School
 - Winfield Elementary School Additions & Renovations
 - A New Buffalo High School
 - A New Confidence Elementary School
 - Greenbrier West High School Additions & Renovations
 - A New Lewisburg Elementary School
 - A New Rainelle Elementary School
 - Eastern Greenbrier Junior High School Additions & Renovations
 - Mason Dixon Elementary School Additions & Renovations
 - Poca High School Additions & Renovations
 - A New Winfield Middle School
 - A New Poca Elementary / Middle School
 - A New Mingo Central High School & Athletic Complex
 - A New University High School & Athletic Complex
 - A New Mountain View Elementary School
 - A New Pikeview Middle School
 - A New Moorefield Intermediate School

- **Numerous Industrial, Commercial , Parks and Recreation Facilities**



Education

B.S. Landscape Architecture
West Virginia University

Work Experience

2000 – Present
TERRADON Corporation

1992-2000

Chapman Technical Group
Registration

Affiliations

American Society of Landscape Architects

West Virginia Chapter of
American Society of Landscape Architects

REFERENCES

Grand Vue Park

OWNER'S NAME: Marshall County Parks and Recreation Board
 ADDRESS: 250 Trail Drive, Moundsville, WV 26401
 CONTACT NAME AND PHONE NUMBER: Craig White, General Manager 304-845-9810 x404
 EMAIL ADDRESS: cwhite@grandvuepark.com

Barbour County Parks Master Planning

OWNER'S NAME: Barbour County Commission
 ADDRESS: 8 North Main Street, Philippi, WV 26416
 CONTACT NAME AND PHONE NUMBER: Chuck Foley, Barbour County Administrator 304-457-4339
 EMAIL ADDRESS: barbour@bcnetmail.org

Palatine Park Master Planning

OWNER'S NAME: City of Fairmont, WV
 ADDRESS: 200 Jackson St., Fairmont, WV 26554
 CONTACT NAME AND PHONE NUMBER: Jay Rogers, City Manager 304-366-6212
 EMAIL ADDRESS: jrogers@fairmontwv.gov

Valley Park Expansion

OWNER'S NAME: Putnam County Commission
 ADDRESS: 1 Valley Park Rd, Hurricane, WV 25526
 CONTACT NAME AND PHONE NUMBER: Scott Williamson 304-562-0518
 EMAIL ADDRESS: scott@putnamcountyparks.com

Greater Greenbrier Sports Complex

OWNER'S NAME: Greater Greenbrier Sports Complex Foundation
 ADDRESS: 200 N Court, Lewisburg, WV 24901
 CONTACT NAME AND PHONE NUMBER: Jeri Via 304-645-3961
 EMAIL ADDRESS: jeri4wvu@yahoo.com

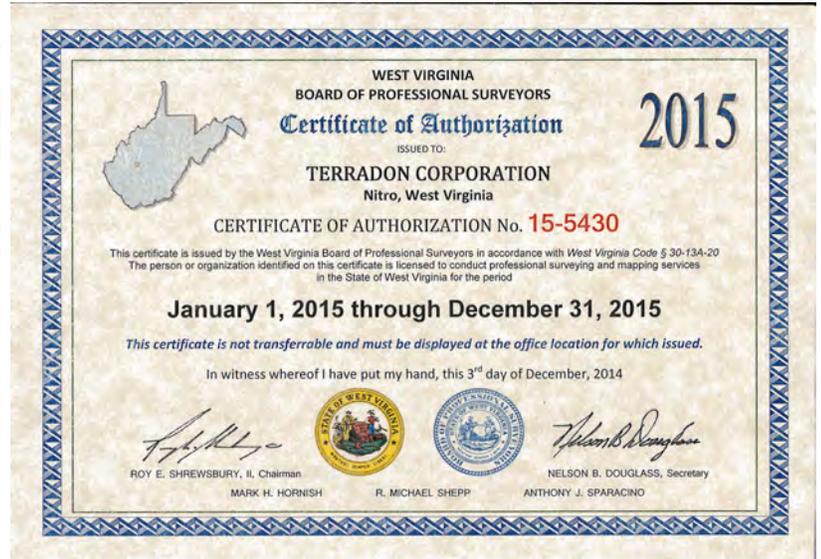
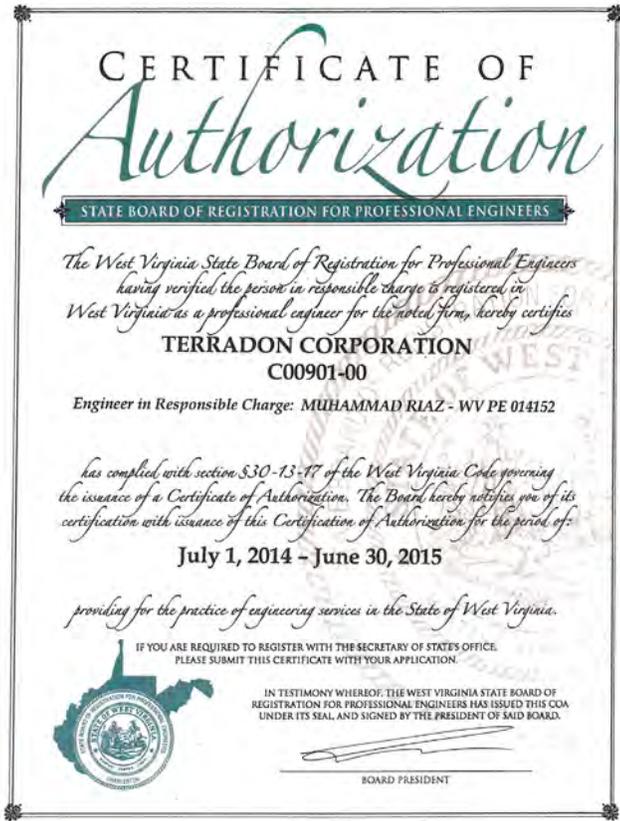
The Summit Bechtel Family National Scout Reserve

OWNER'S NAME: Boy Scouts of America, Summit Group
 ADDRESS: 68 Crossroads Mall, Mount Hope, WV 25880
 CONTACT NAME AND PHONE NUMBER: Rob Ridgeway, Facilities Director 304-469-1089
 EMAIL ADDRESS: Rob.Ridgeway@scouting.org

Private Real Estate Developments

OWNER'S NAME: R&J Development, LLC
 ADDRESS: 107 E. Madison St., Lousia KY 41230
 CONTACT NAME AND PHONE NUMBER: Brandon Doerner, RealEstate Director 606-638-0360
 EMAIL ADDRESS: brandon@eliteky.net

Certifications/Degrees Applicable to This Project



TERRADON CORPORATION is a certified Women's Business Enterprise as defined by the Women's Business Enterprise National Council.

TERRADON is the largest woman-owned engineering firm in West Virginia and is controlled by Virginia King, who provides more than 32 years of administrative experience to the company.

Certifications/Degrees Applicable to This Project



STATE BOARD OF LANDSCAPE ARCHITECTS

522 Ashebrooke Square, Morgantown, WV 26508
Ph: (304) 594-3535 Fax: (304) 594-1482

MEMORANDUM

TO: Landscape Architects Registered in the State of West Virginia
FROM: Michael Biafore, Chairman
WV State Board of Landscape Architects
DATE: September 1, 2014
RE: Transmittal of Identification Card

The West Virginia State Board of Landscape Architects is happy to advise you that your license to practice landscape architecture in the State of West Virginia has been renewed for the fiscal year July 1, 2014 to June 30, 2015.

Enclosed you will find your renewal card.

If you have any questions or need assistance, please do not hesitate to contact me at (304) 594-3535.

Enclosure



WEST VIRGINIA STATE BOARD
OF LANDSCAPE ARCHITECTS

This certifies that

Gregory D. Fox

is registered as a

LANDSCAPE ARCHITECT

Certifications/Degrees Applicable to This Project



**West Virginia State Board of Registration
for Professional Engineers**

JAMES A NAGY
[REDACTED]

This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is entitled to practice engineering in the State of West Virginia.

EXPIRES June 30, 2015

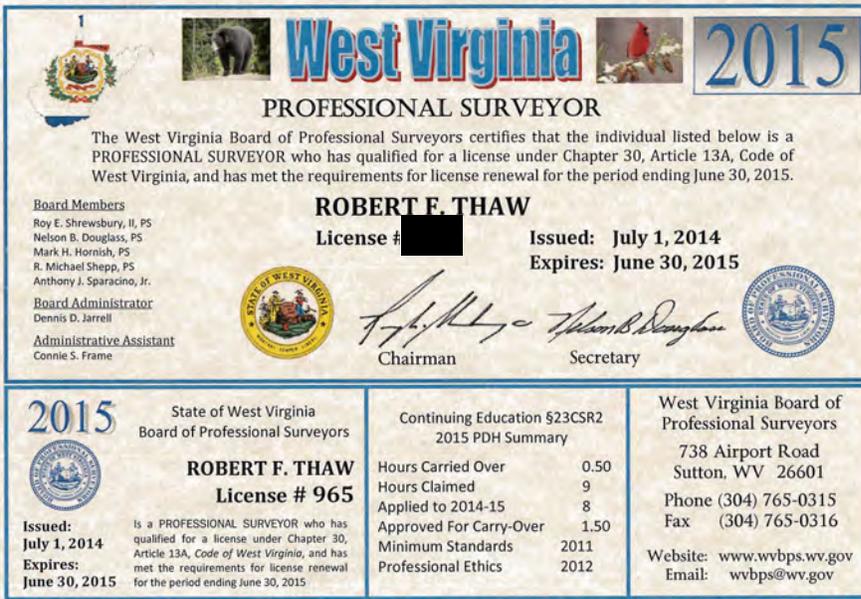


**West Virginia State Board of Registration
for Professional Engineers**

JOHN W JAMES
[REDACTED]

This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is entitled to practice engineering in the State of West Virginia.

EXPIRES June 30, 2015



West Virginia 2015
PROFESSIONAL SURVEYOR

The West Virginia Board of Professional Surveyors certifies that the individual listed below is a PROFESSIONAL SURVEYOR who has qualified for a license under Chapter 30, Article 13A, Code of West Virginia, and has met the requirements for license renewal for the period ending June 30, 2015.

ROBERT F. THAW
License # [REDACTED] Issued: July 1, 2014
Expires: June 30, 2015

Board Members
Roy E. Shrewsbury, II, PS
Nelson B. Douglass, PS
Mark H. Hornish, PS
R. Michael Shepp, PS
Anthony J. Sparacino, Jr.

Board Administrator
Dennis D. Jarrell

Administrative Assistant
Connie S. Frame

Chairman [Signature]
Secretary [Signature]

2015 State of West Virginia Board of Professional Surveyors ROBERT F. THAW License # 965 Issued: July 1, 2014 Expires: June 30, 2015 is a PROFESSIONAL SURVEYOR who has qualified for a license under Chapter 30, Article 13A, Code of West Virginia, and has met the requirements for license renewal for the period ending June 30, 2015	Continuing Education §23CSR2 2015 PDH Summary Hours Carried Over 0.50 Hours Claimed 9 Applied to 2014-15 8 Approved For Carry-Over 1.50 Minimum Standards 2011 Professional Ethics 2012	West Virginia Board of Professional Surveyors 738 Airport Road Sutton, WV 26601 Phone (304) 765-0315 Fax (304) 765-0316 Website: www.wvbps.wv.gov Email: wvbps@wv.gov
--	--	---

Certifications/Degrees Applicable to This Project



STATE BOARD OF LANDSCAPE ARCHITECTS

522 Ashebrooke Square, Morgantown, WV 26508
Ph: (304)594.3535 Fax: (304)594.1482

MEMORANDUM

TO: Landscape Architects Registered in the State of West Virginia
FROM: Michael Biafore, Chairman
WV State Board of Landscape Architects
DATE: September 1, 2014
RE: Transmittal of Identification Card

The West Virginia State Board of Landscape Architects is happy to advise you that your license to practice landscape architecture in the State of West Virginia has been renewed for the fiscal year July 1, 2014 to June 30, 2015.

Enclosed you will find your renewal card.

If you have any questions or need assistance, please do not hesitate to contact me at (304) 594-3535.

Enclosure



**WEST VIRGINIA STATE BOARD
OF LANDSCAPE ARCHITECTS**

This certifies that

Peter J. Williams

is registered as a

LANDSCAPE ARCHITECT

Licensee's Signature

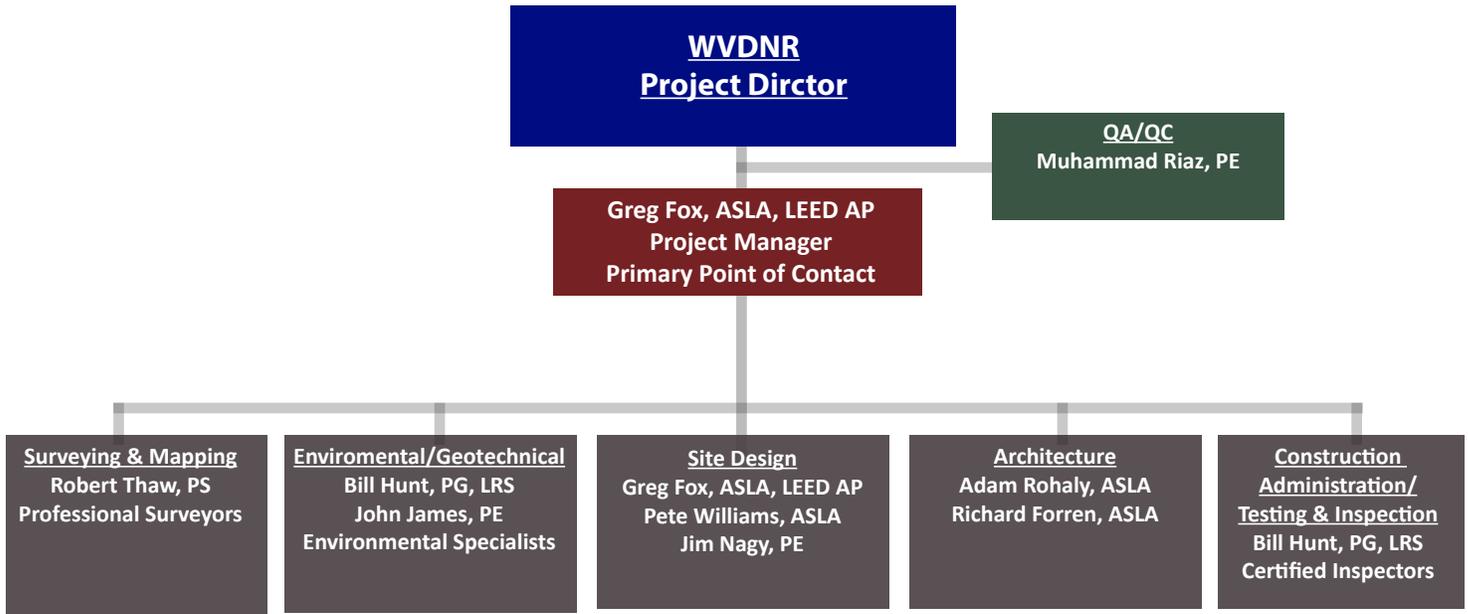
Certificate No. [REDACTED]

Expires:

6/30/15

Proposed Staffing Plan/Organizational Chart

The following organizational chart lists key personnel and their roles in this project:



The design team maintains sufficient full-time staff in order to complete quality projects in an efficient and timely manner. The company maintains staffing protocols in order to supplement staff should project demands increase. At present time, the team has adequate staff in-house to manage and complete project tasks in relation to this contract.

The team's engineers and landscape architects have numerous resources within the company to draw on, such as surveying, geotechnical engineering, environmental engineering, landscape architecture, materials testing, and construction monitoring. This allows the project manager to control all phases of the design process, from initial site reconnaissance through construction.

PRIOR EXPERIENCE - Master Planning, Large Scale, Private Recreation Facilities

Greater Greenbrier Sports Complex Master Plan

TERRADON provided Master Planning and Grading Design Services beginning in June 2013 for the Greater Greenbrier Sports Complex located north of Lewisburg, WV.

The work was divided into five phases, and includes:

- Master Planning
- Grading Study
- Full Construction Documents
- Utility Layout
- Road Design
- Erosion and Sediment Control.



Descriptions of Past Projects

Bluestone State Park Master Planning

LOCATION: Bluestone, WV
PM NAME: Greg Fox
TYPE: Master Plan for State Park
GOALS/OBJECTIVES & HOW MET:
 TERRADON was responsible for the development of a swimming pool replacement for existing pools at Bluestone State Park. The existing pool was located within the 100-year flood plain and subject to flooding.

TERRADON proposed a new pool located above the 100-year flood plain while incorporating many unique and creative design features for Bluestone State Park guests and the surrounding community.



Grand Vue Park Park



LOCATION: Moundsville, WV
PM NAME: Greg Fox
TYPE: Master Plan for State Park
GOALS/OBJECTIVES & HOW MET:
 TERRADON is currently developing Master Plans and Schematic Planning for Grand Vue Park near Moundsville, WV. Services include: inventory and analysis of existing features, identifying project opportunities, land planning, master planning and team coordination with subconsultants.

Chief Logan Park Lodge Expansion

LOCATION: Logan, WV
PM NAME: Greg Fox
TYPE: Design and Planning for State Park Lodge Expansion
GOALS/OBJECTIVES & HOW MET:
 TERRADON Corporation provided site civil design and planning services for the expansion of the lodge at Chief Logan State Park.



PRIOR EXPERIENCE - Parks and Recreation

Harveytown Park & Connector Master Planning

LOCATION: Huntington, WV

PM NAME: Greg Fox

TYPE: Trail Connector Design and Planning

GOALS/OBJECTIVES & HOW MET: TERRADON Corporation was responsible for trail design of a connector from Harveytown Park to Ritter Park in Huntington, WV. TERRADON provided a 3-Phase Master Planning approach for a section of trail that is predicted to be heavily used by the Huntington Community.



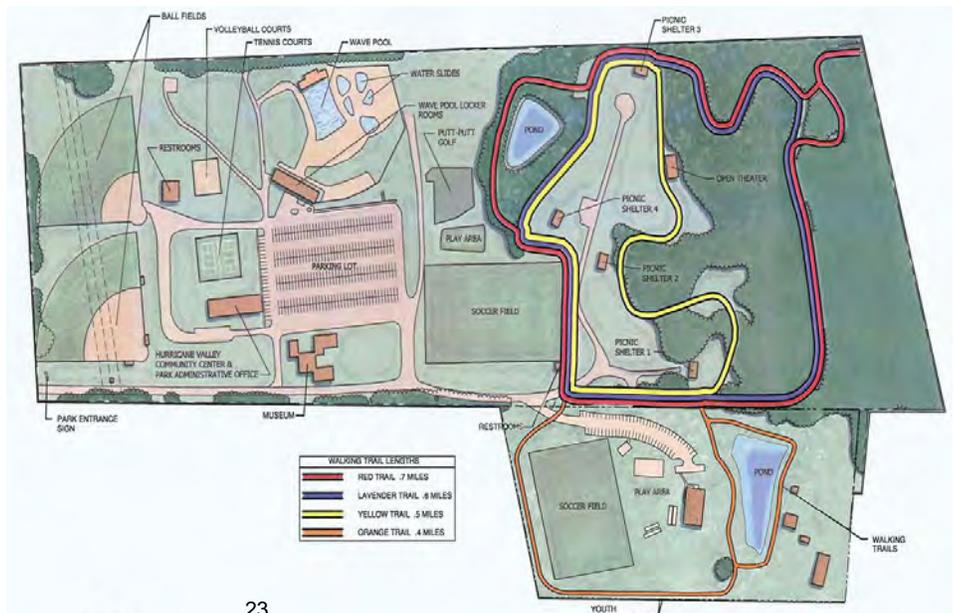
Putnam County Parks and Recreation Board - Valley Park Trails Map

LOCATION: Hurricane, WV

PM NAME: Greg Fox

TYPE: Master Planning and Expansion Design

GOALS/OBJECTIVES & HOW MET: TERRADON Corporation developed a detailed trail map and additional graphics for a walking trail system in Valley Park.



PRIOR EXPERIENCE - Master Planning, Parks and Recreation

Dorsey's Knob Master Plan - BOPARK

LOCATION: Morgantown, WV
 PM NAME: Greg Fox
 TYPE: Master Plan for Public Park

GOALS/OBJECTIVES & HOW MET:
 TERRADON provided Master Planning services to the Morgantown Board of Park and Recreation Commissioners for the development of Dorsey's Knob in Morgantown, WV.



DORSEY'S KNOB
 MORGANTOWN, WEST VIRGINIA
MASTER PLAN
 BOARD OF PARK & RECREATION COMMISSIONERS



Roane County Parks Master Planning

LOCATION: Roane County, WV
 PM NAME: Greg Fox
 TYPE: Design and Planning for County Park

GOALS/OBJECTIVES & HOW MET:
 TERRADON Corporation, provided site master planning and site civil engineering services for Roane County Parks.



PRIOR EXPERIENCE - Master Planning, Large Scale, Private Recreation Facilities

The Summit Bechtel National Scout Reserve

LOCATION: Mt. Hope, WV
 PM NAME: Greg Fox
 TYPE: Design and Planning for Large Scale, Private Recreational Facility
 Client Name: Trinity Works
 Date of Construction: 2008-2013
 Construction Cost: \$350 Million

GOALS/OBJECTIVES & HOW MET:

TERRADON Corporation was heavily involved in the development of the Summit Bechtel National Scout Reserve as a consultant to Trinity Works. The Summit is a 12,000+ acre outdoor adventure center owned by the Boy Scouts of America and located near Mt. Hope, WV. From the initial site selection to surveying, planning, infrastructure design and inspection, TERRADON was a key player in creating one of the highest-profile design and construction endeavors in West Virginia. Working under tight specifications and time restrictions, TERRADON spearheaded the delivery of quality results.

- Initial Site Selection/Conceptual Designs
- Site Planning/Grading
- Erosion and Sediment Control
- AML
- Survey/Mapping
- All Environmental Permitting
- Geotechnical Engineering
- Materials Testing and Construction Monitoring
- Utility Design
- 60+ miles of underground utilities
- 550,000 tons of aggregate produced by on-site rock crushing 600 acres of clearing, grubbing and rough grade operations
- 3 million cubic yards of excavation
- 600 acres of fine grading and revegetation
- 28 miles of drainage swales, including erosion and sediment control
- 14 miles of new roads (grade and drain)
- 4 earthen dams
- 80,000 seat lawn amphitheater



RELEVANT EXPERIENCE

Jonathan Larck Reservoir Park Master Plan

LOCATION: Putnam County, WV
PM NAME: Greg Fox
TYPE: Design and Planning for Public Park with Reservoir
GOALS/OBJECTIVES & HOW MET: TERRADON Corporation was responsible for creating a Master Plan for the Jonathan Larck Reservoir Park for the Putnam County Parks and Recreation Commission. Elements included an access drive to the park area, picnic shelters, playground areas, restroom facilities, trail systems and fishing and boating opportunities.



Toyota Wetland Education Center

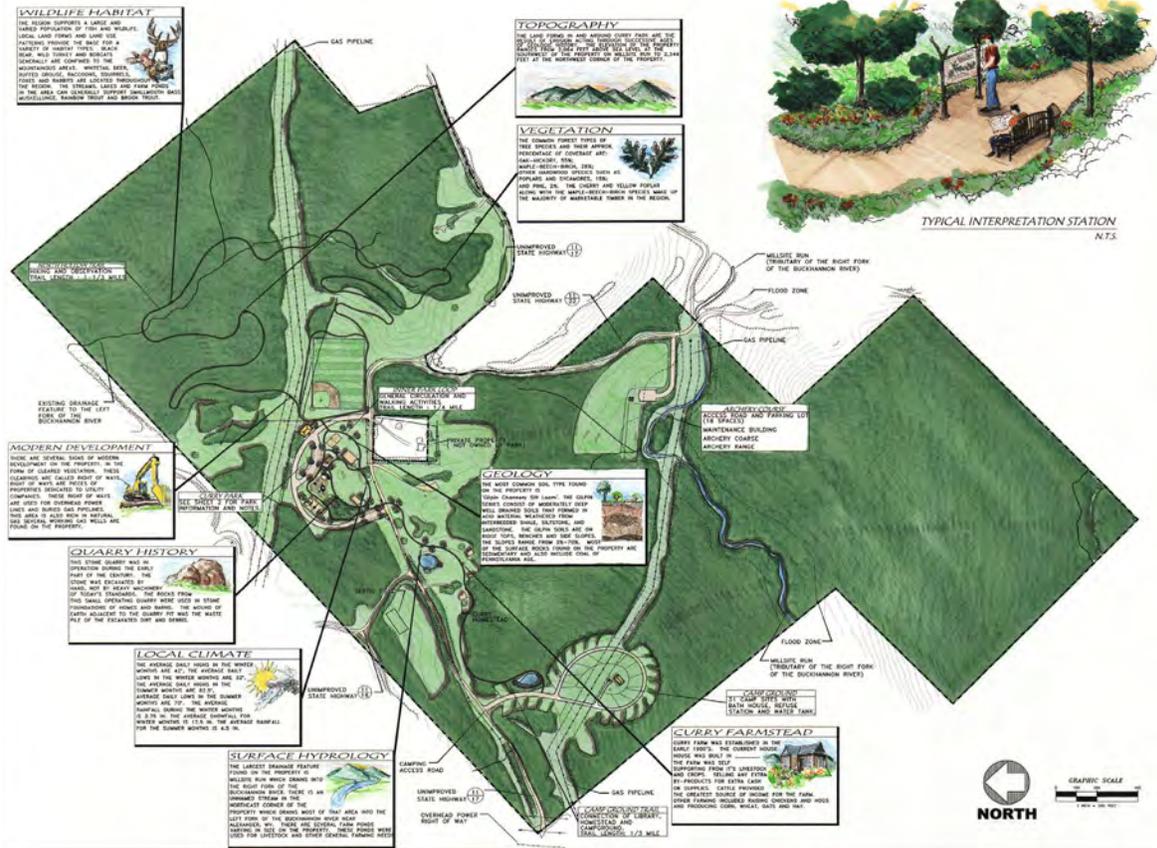
LOCATION: Winfield, WV
PM NAME: Greg Fox
TYPE: Design and Planning for Private Wetland Education Center
GOALS/OBJECTIVES & HOW MET: TERRADON Corporation provided Master Planning and site civil design services, followed by construction drawings, for the Toyota Wetland Education Center near Buffalo, WV.



Notable elements incorporated parking spaces, information kiosks, crushed gravel trails, elevated boardwalks and observation decks into this unique environmental habitat and wildlife refuge.

RELEVANT EXPERIENCE

Upshur County Park Master Planning - Curry Park



LOCATION: Upshur County, WV
PM NAME: Greg Fox
TYPE: Design and Planning for Public Park

As a subconsultant, TERRADON completed the Curry Park Master Plan Study for the Upshur County Commission.

Relevant Project Tasks Included:

- Survey and Mapping
- Land Planning
- Utility Design
- Grading and Drainage Design
- Access Road Design
- Construction Drawings



Previous Experience

Winterplace Water Supply Dam

LOCATION: Winterplace, WV
PM NAME: John James, PM
TYPE: Water Supply Dam Remediation
Client Name: Winterplace Water Supply Dam (John James completed engineering design services while working as James Engineering)
Date of Construction: 2001
Construction Cost: \$75,000

GOALS/OBJECTIVES & HOW MET:

Winterplace Dam is a small dam located downstream of the ski slopes used for water supply for snow-making for the resort ski area. Because of the somewhat variable winter climate at Winterplace and the development of better snow-making equipment, the client needed more water storage.

The initial project scope was for dredging the lake of construction sediment to reclaim about 3 million gallons of water storage. An additional evaluation indicated an additional 2 million gallons of storage could be developed by excavating natural soil from within the reservoir area. Engineering plans, specifications and permits were then developed for this option and constructed.

Concurrent with the above construction, James studied the feasibility of raising the dam and pool elevation to gain additional volume. Studies resulted in alternates to raise the pool either 10 or 15 feet to gain an additional 50 to 75 million gallons. For economic and other reasons, including the necessity and cost of raising the pump station, the construction was not completed.

