EOI WVCA Watershed Dam
Rehabilitation Program

June 4, 2015

Prepared For:

Laura Hooper
WV Purchasing Division
2019 Washington St. East
Charleston, WV 25305

Prepared By:

Triad Engineering Inc.
10541 Teays Valley Rd.
Scott Depot, WV 25560

TRIAD ENGINEERING, INC.

MD | OH | PA | VA | WV

June 4, 2015

WVCA
Department of Administration, Purchasing Division
2019 Washington St., East
Charleston, WV 25305

RE: Expression of Interest
Watershed Dam Rehabilitation Program
Triad Proposal No. 04-15-0247

Dear Laura Hooper,

We are pleased to present our Expression of Interest for providing planning and construction administration services for the subject project for WVCA. Triad Engineering is confident that the attached documentation will illustrate why we are the best candidate for this project.

- Triad has outstanding technical qualifications including our experienced professional staff, modern equipment, and our knowledge of the potential project areas.
- Triad has seven office locations in five states throughout the Mid-Atlantic Region. Triad's Scott Depot, WV office is geographically positioned to cover the Brush Creek sites, our Winchester Virginia office is in close proximity to the Potomac-New Creek sites and our Morgantown office is in close proximity to the Upper Decker's Creek site.
- Triad has specific experience in dealing with all the aspects of your project including our civil engineering design experts and our environmental scientists and engineers.
- Triad's accounting system is up to date and well maintained. It segregates and identifies accumulating costs for each job that is performed under this type of project.

Our Statement of Qualifications is presented on the attached SF330 Statement of Qualifications documents.

We appreciate the opportunity to submit the attached materials in response to your request for proposals. If you have any questions or comments about our proposal, please do not hesitate to contact us at 304-755-0721.

Very truly yours,

TRIAD ENGINEERING, INC.

Larry L. McCoy, PE
Civil Engineering Manager

David F. Meadows, P.E., P.S.
Regional Manager

10541 Teays Valley Road | Scott Depot, WV 25560
P 304.755.0721 F 304.755.1880 W www.triadeng.com

ARCHITECT – ENGINEER QUALIFICATIONS

PART I – CONTRACT SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*
EOI Watershed Dam Rehabilitation Program, West Virginia

2. PUBLIC NOTICE DATE	3. SOLICITATION OR PROJECT NUMBER
05/04/2015	AGR1500000004

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE
David Meadows, PE, PS, Regional Manager

5. NAME OF FIRM
Triad Engineering, Inc.

6. TELEPHONE NUMBER	7. FAX NUMBER	8. E-MAIL ADDRESS
304-755-0721	304-755-1880	dmeadow@triadeng.com

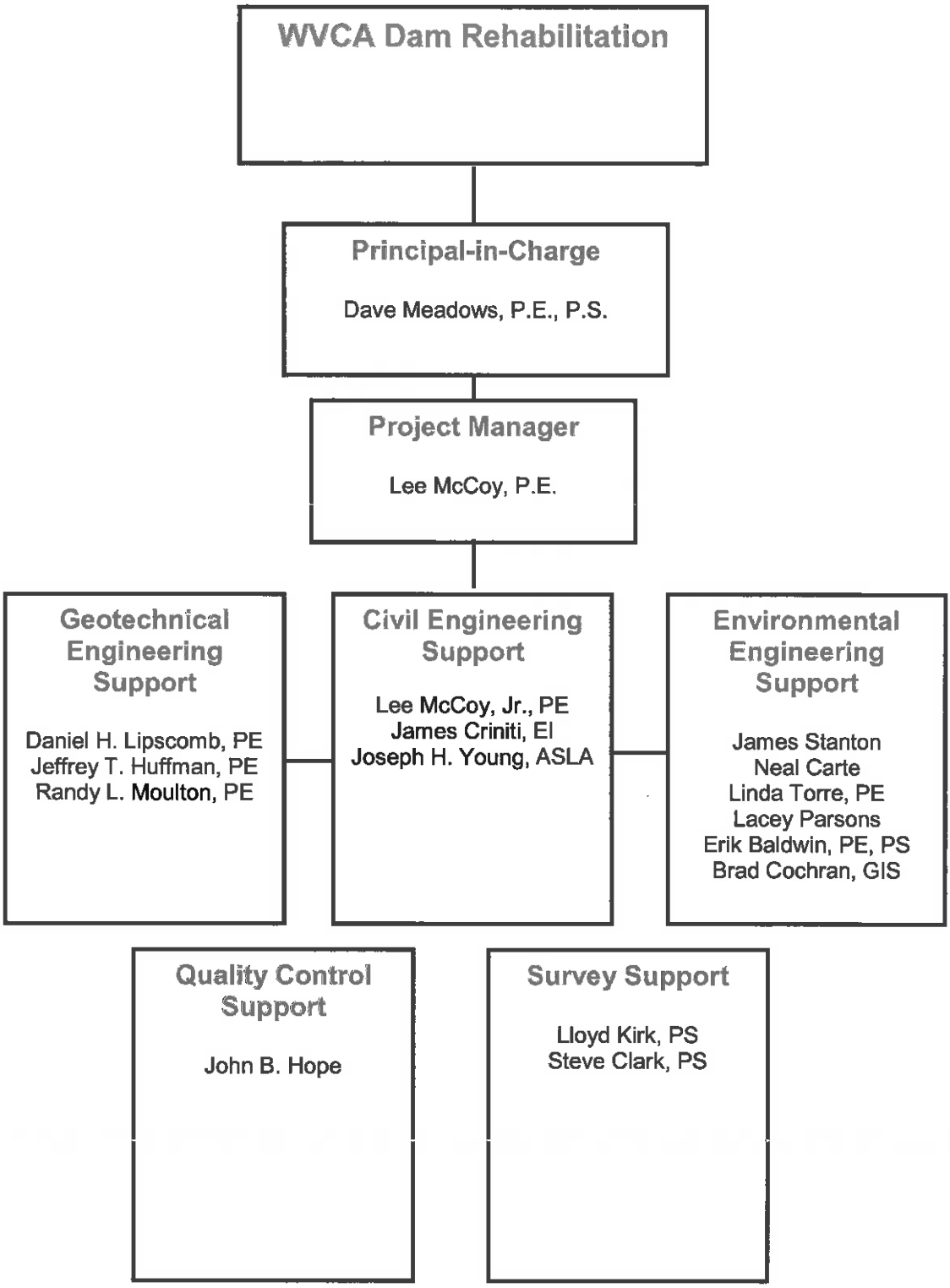
C. PROPOSED TEAM

(Complete this section for the lead firm or joint venture partners, and all key consultants.)

	(Check) Lead Firm	(Check) JV Partner	(Check) Consultant	13. FIRM NAME	14. ADDRESS	15. ROLE IN THIS CONTRACT
a.	☒	☐	☐	Triad Engineering ☐ Check if branch office	10541 Teays Valley Rd. Scott Depot, WV 25560	Prime
b.	☒	☐	☐	Triad Engineering ☐ Check if branch office	1097 Chaplin Rd. Morgantown, WV 26501	Branch
c.	☒	☐	☐	Triad Engineering ☐ Check if branch office	200 Aviation Dr. Winchester, VA 22602	Branch
d.	☐	☐	☒	Decota Consulting Company, Inc. ☐ Check if branch office	4984 Washington St., W. Charleston, WV 25313	Sub
e.	☐	☐	☐			
f.	☐	☐	☐			

D. ORGANIZATIONAL CHART OF PROPOSED TEAM ☐ *(Attached)*

INSERT ORGANIZATIONAL CHART BELOW OR ATTACH.



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
David F. Meadows, PE, PS	Civil Engineer	40	2

15. FIRM NAME AND LOCATION *(City and State)*
Triad Engineering, Inc., Scott Depot, WV

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
M. Civil Engineering (Geotechnical)
MS, Civil Engineering
BS, Civil Engineering

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
PE, Civil Engineer, WV 1137
Registered Professional Surveyor, WV 8057

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Meadows brings over 40 years of leadership, design and project management experience to Triad Engineering. Mr. Meadows joined Triad in 2013 to provide management to the southwest region which includes the southern West Virginia area and the Athens, Ohio office. Prior to coming to Triad he served in a number of technical and leadership positions at the US Army Corps of Engineers, Huntington District. His expertise includes civil design, geotechnical engineering, construction management, surveying, environmental remediation and water resources engineering. ASCE, SAME (Fellow) USSD, ASDSO, WVSPS, Tau Beta Pi, Phi, Beta Phi, Engineer's Club of Huntington

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
Chief H&H and Technical Support Division, Great Lakes and Ohio River Dam Safety Production Center and Dam Safety Modification Mandatory Center of Expertise, USACE, Huntington District, WV

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2012 — CONSTRUCTION *(if applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☐ Check if project performed with current firm

Mr. Meadows was responsible for developing and directing the Division's efforts to manage the regional execution of complex, non-routine, regional and inter-regional dam safety modifications, engineering assessments and risk and reliability analyses throughout the infrastructure capital stock portfolio of the U.S. Army Corps of Engineers. He primarily accomplished this mission through twelve senior technical staff (Hydraulic, Cost and Construction Engineers) who oversaw all complex technical aspects of modification work. He directed their work and provided them with strategic leadership, mentoring, coaching, counseling, team building, partnering, direction and management.

b.

(1) TITLE AND LOCATION *(City and State)*
Bluestone Dam, Hinton, WV
USACE, Huntington District, Huntington, WV

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2012 — CONSTRUCTION *(if applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☐ Check if project performed with current firm

The project is hydrologically deficient and is not structurally stable due to the potential for sliding on the foundation. Managed the hydraulic and hydrologic team and cost engineering team during the performance of numerous studies and activities in addition to direct particaption in them. These include the Issue Evaluation Study (IES), IES resolution, hydrologic determination of the flood frequency and PMF, inundation study, debris evaluation and expert eliciation, hydraulic modeling and expert eliciation of the spillway and penstocks, scouring potenital in the penstock and stilling basin areas, cost engineering for the Dam Safety Investment Plan (DSIP), foundation anchoring, Interim Risk Reduction Measures Plan and the Interim Operating Plan. DSAC II project.

c.

(1) TITLE AND LOCATION *(City and State)*
Zoar Levee, Zoar, OH
USACE, Huntington District, Huntington, WV

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2012 — CONSTRUCTION *(if applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☐ Check if project performed with current firm

The project is subject to a failure by seepage through the foundation. Managed the hydraulic and hydrologic team and cost engineering team during the performance of numerous studies and activities in addition to direct particaption in them. These include the Issue Evaluation Study (IES), hydrologic determination of the flood frequency and PMF, inundation study, PFMA, cost engineering for the Dam Safety Investment Plan (DSIP), seepage barrier evaluation, Interim Risk Reduction Measures Plan and the Interim Operating Plan. As Chief of Engineering & Construction and the Dam and Levee Safety Officer, directly responsible for the emergency remedial measures during the 2008 flood event. These repairs consisted of the emergency design and placement of a seepage berm. After this event oversaw the design and construction of remedial measures that included modification of the existing relief well system in addition to adding relief wells and a collecton system. DSAC I.

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	Bolivar Dam, Bolivar, OH	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
		2012	

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☐ Check if project performed with current firm

d. The project is subject to a failure by seepage through the foundation. Managed the hydraulic and hydrologic team and cost engineering team during the performance of numerous studies and activities in addition to direct particaption in them. These include the Issue Evaluation Study (IES), hydrologic determination of the flood frequency and PMF, inundation study, PFMA, cost engineering for the Dam Safety Investment Plan (DSIP), seepage barrier evaluation, Interim Risk Reduction Measures Plan and the Interim Operating Plan. As Chief of Engineering & Construction and the Dam and Levee Safety Officer, directly responsible for the design and construction of interim risk reduction measures as a result of the 2008 flood event. These measures included modification of the existing relief well system, expansion of the seepage berm and access road. DSAC II project.

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
e.	US Army Corps of Engineers, Huntington District Huntington, WV	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
		2012	

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☐ Check if project performed with current firm

In addition to being one of the key players in establishing and serving in the Dam Safety Modification Mandatory Center of Expertise in the Huntington District, has served in numerous civil engineering positions with the District. Has served as Chief, Engineering and Construction Division; Chief Water Resources Engineering Branch, Engineering and Construction Division; Chief, Environmental and Remediation Section, Construction Management and Field Support Branch; Chief Soils & HTRW Section, Geotechnical Branch; and Chief, Civil Design Section, Design Branch. Also served as a Geotechnical Engineer, Program Manager and a Hydraulic Engineer. Worked on numerous projects such as the Yatesville Dam design and construction; West Columbus Floodwall, Williamson Central Business District Floodwall, Matewan Floodwall, Grundy Floodwall, Island Creek Flood Damage Reduction Project, Lower Mud Flood Damage Reduction Project and the Marlinton Flood Damage Reduction Project; R. C. Byrd, Winfield and Marmet Locks and Dam Replacement; Summit Equipment Remediation, American Car and Foundry Remediation, WVOW Remediation and O&M, Dolly Sods, and the PBOW Remediation and O&M; Willow Island and Medahl hydropower additions; and the Bluestone, Zoar Levee, Dover, Bolivar, Beach City and Mohawk Dam Safety Modifications and the Tom Jenkins Mineral Extraction. Directly responsible for the development of Flood-proofing Guide Plans and Specifications that resulted in numerous savings and adopted across the Corps.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Daniel H. Lipscomb, PE	Geotechnical Engineering Manager Project Geotechnical Engineer	11	4

15. FIRM NAME AND LOCATION *(City and State)*
Triad Engineering, Inc., Scott Depot, West Virginia

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BS Civil Engineering Technology	Registered Professional Engineer, West Virginia

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Smith Land Surveying **Various Locations, WV**	On-Going	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

As a the Geotechnical Engineering Manager and Project Engineer, Mr. Lipscomb provides project oversight and performs geotechnical investigations for various Oil and Natural Gas sites in West Virginia. The projects include drilling pads, impoundments and access roads.

b.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Dominion Transmission, Inc. **Kanawha County, West Virginia**	2010	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

As project engineer, Mr. Lipscomb processed information gathered during drilling activities and developed a report of subsurface exploration to aid in the design of a horizontal directional drilling project under the Kanawha River in Kanawha County, West Virginia. This included providing rock core unconfined compression test results, and performing a review of rock core samples to observe their Mohs Scale of Mineral Hardness values. Regional geologic information was also given to aid in the project's design.

c.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
East Beckley Bypass, Rural Acres Drive Stanaford Road **Raleigh County, West Virginia**	2011 - Present	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Mr. Lipscomb served as the project engineer with the WV Div of Highways to solicit and oversee drilling services, reduce drilling results, perform calculations and develop recommendations for two new bridges. Two bridges types were proposed as alternatives: (1) geosynthetic reinforced soil integrated bridge system (GRS-IBS) and (2) traditional MSE wall with deep foundations. The project was part of the Every Day Counts initiative designed to identify and deploy innovation aimed at reducing the time it takes to deliver highway projects, enhance safety, and protect the environment. If constructed utilizing the GRS-IBS system both bridges will be the tallest of their type in the United States and one would have the largest span.

d.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Putnam County Schools **Putnam County, West Virginia**	2012	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

Mr. Lipscomb served as the project engineer for the subsurface exploration at multiple Putnam County School projects. His responsibilities on the projects included scheduling and coordination of drilling activities, oversight of assignment for laboratory analysis of soil samples collected during drilling activities, developing boring logs, performing estimated settlement calculations, developing foundation recommendations, and composing a report of subsurface exploration for the individual projects.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Jeffrey T. Huffman, PE	Senior Geotechnical Engineer	22	1

15. FIRM NAME AND LOCATION *(City and State)*
Triad Engineering, Inc., Scott Depot, WV

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
MSCE (Geotechnical), Ph.D. All but disertation.

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Professional Engineer in WV, PA, NC, NC, KY

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Huffman brings over 22 years of full-time design and project management experience as well as 3 years of university teaching experience to Triad Engineering. Mr. Huffman joined Triad in 2013 to provide geotechnical expertise to the southwest region. Prior to coming to Triad he served in a number of technical and leadership positions for various consultants in the mid-Atlantic area. His expertise is in geotechnical engineering, receiving his undergraduate degree in civil engineering and a master's degree in civil engineering (geotechnical engineering). He has completed the course work for his Ph.D. also in this field. SAME, ASCE

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*: **Druid Lake Dam - Baltimore, Maryland.**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 1994 — CONSTRUCTION *(If applicable)*: ?

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☐ Check if project performed with current firm

Project involved raising the crest of an existing earth dam. Performed as-built drawing and maintenance history review of existing earth dam structure. Developed and directed subsurface exploration program to verify as-built drawings. Evaluated existing structure and proposed remediation for slope stability, settlement and seepage. Located and designed retaining wall at toe of proposed new slope to prevent lateral earth pressures on buried concrete outlet structures. Prepared construction drawings and specifications.

b.

(1) TITLE AND LOCATION *(City and State)*: **Christian E. Siegrist Dam - City of Lebanon, Pennsylvania.**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 1992 — CONSTRUCTION *(If applicable)*: 1993

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☐ Check if project performed with current firm

Project involved construction of a new Roller-Compacted Concrete (RCC) Dam. Assisted in the concrete mix design for this new roller-compacted concrete dam. Directed strength testing of soil and rock. Functioned as Assistant Resident Engineer for foundation preparation and foundation grouting.

c.

(1) TITLE AND LOCATION *(City and State)*: **North Fork of the Hughes River Dam - Cairo, West Virginia.**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 1993 — CONSTRUCTION *(If applicable)*: 2001

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☐ Check if project performed with current firm

Project involved the design of an RCC and earth dam. Supervised subsurface exploration including barge drilling. Developed soil borrow locations and evaluated material quality and quantity. Prepared preliminary construction drawings and specifications.

d.

(1) TITLE AND LOCATION *(City and State)*: **Hershey Medical Center Embankment Design and Sinkhole Remediation - Hershey, Pennsylvania.**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 1993 — CONSTRUCTION *(If applicable)*: 1993

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☐ Check if project performed with current firm

Project involved the design of a stormwater detention pond in Karst topography. Supervised subsurface exploration, assisted in the embankment design and drawing and specification preparation. Supervised sinkhole remediation during construction.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Randy L. Moulton, PE	Senior Geotechnical Engineer	36	36

15. FIRM NAME AND LOCATION *(City and State)*
Triad Engineering, Inc., Winchester, VA

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
MS – Civil Engineering (Geotechnical)
BS – Civil Engineering

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
PE – VA, WV, MD, PA

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Moulton is responsible for corporate contract administration, risk management and overall quality control and technical quality assurance of projects undertaken by the company. Technical specialties include design of deep foundations, in particular rock-socketed caissons, design of various types of retaining walls, evaluation of groundwater and seepage problems, and design of earth and earth-rock dams.

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
Tailings Pond "O" Expansion, Utica, IL

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2009	2009-10

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Project Manager and Senior Engineer for design of a two-phase expansion to an existing tailings disposal impoundment. The project involved raising the existing Pond "O" embankment to a Phase I elevation sufficient to create storage for an additional 10 to 12 years of tailings disposal. Services included field exploration, detailed laboratory testing, seepage and stability analyses, preparation of construction drawings and technical specifications, permitting and construction monitoring and materials testing.

b.

(1) TITLE AND LOCATION *(City and State)*
Silver Lake Dam, Frederick County, VA

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2007-08	2008

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Prime designer for a privately owned 40-foot high earth dam which was replacing an older unsafe structure. Features of the new dam included a principal spillway system with an oversized riser to control the pool level more effectively and an emergency spillway routed through a box culvert and discharging via a grouted riprap channel. Triad handled all permitting activities with several agencies of the Commonwealth of Virginia and the U.S. Army Corps of Engineers. Triad also prepared complete bidding and contract documents and conducted construction monitoring and testing services.

c.

(1) TITLE AND LOCATION *(City and State)*
Frederick County Public Schools, Frederick County, VA

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
On-Going	Each year since 1991

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Since 1991, served as Contract and Project Manager for geotechnical investigations for new schools, additions to existing schools and a new transportation facility. Also responsible for management of quality assurance inspection and testing services for several of these new schools.

d.

(1) TITLE AND LOCATION *(City and State)*
Jefferson County Schools, Jefferson County, WV

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
On-going	Each year since 1990

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

From 1990 to 2004, served as the Contract and Project Manager for geotechnical investigations for several new schools and additions to existing schools, including elementary, intermediate and high schools , with most being located in solution-prone karst terrain requiring special assessment of sinkholes and other solutioning features.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Larry L. McCoy, Jr, PE	Civil Engineering Practice Leader Senior Civil Engineer	18	9

15. FIRM NAME AND LOCATION *(City and State)*
Triad Engineering, Inc., Scott Depot, West Virginia

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
B.S. Civil Engineering

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Professional Engineer West Virginia, Ohio, Kentucky

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Certified Flood Plain Manager - NAFPA

19. RELEVANT PROJECTS

a.
(1) TITLE AND LOCATION *(City and State)*
Boone County Sports Complex
Julian, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2010	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

As **Project Manager and Lead Engineer**, provided technical supervision and oversight to the civil site design for the construction of this Recreational/ Sport Park. This project included grading, drainage, roadway design, parking lot design, as well as all aspects of designing a large multi-use sports complex. As Project Manager, was also responsible ensuring that the site was able to acquire United States Corps of Engineers Permitting due to sensitive flood plan issues.

b.
(1) TITLE AND LOCATION *(City and State)*
America Church Bridge
Delbarton, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2011	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Project Manager and lead roadway designer for the replacement of the American Church Bridge in Delbarton and related roadway work in Mingo County, WV. Design work for this project included drainage, HEC-RAS analysis, roadway design, and right of way design.

c.
(1) TITLE AND LOCATION *(City and State)*
Tournament Park
Ruddle, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2010	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

As **Project Manager and Lead Engineer**, provided technical supervision and oversight to the civil site design for the construction of this $300,000 Recreational/ Sport Park. This project included grading, drainage, roadway design, parking lot design, as well as all aspects of designing a large multi-use sports complex. As Project Manager, was also responsible ensuring that the site was able to acquire United States Corps of Engineers Permitting due to sensitive flood plan issues.

d.
(1) TITLE AND LOCATION *(City and State)*
Sue Morris Sports Complex
Glenville, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2010	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

As **Project Manager and Lead Engineer**, provided technical supervision and oversight to the civil site design for the construction of this Recreational/ Sport Park. This project included grading, drainage, roadway design, parking lot design, as well as all aspects of designing a large multi-use sports complex. As Project Manager, was also responsible ensuring that the site was able to acquire United States Corps of Engineers Permitting due to sensitive flood plan issues.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
James R. Criniti, EI	**Staff Engineer**	6	6

15. FIRM NAME AND LOCATION *(City and State)*
Triad Engineering, Inc., Scott Depot, West Virginia

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
BA Chemistry, WVU
BS Civil Engineering, WVUIT

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Professional Engineer In Training, West Virginia

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
Washington Nile, Clay Local School District and Portsmouth Athletic Complex, Portsmouth, OH

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2010	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

As a Staff Engineer, Mr. Criniti has been involved in and is responsible for the drainage design and permitting for these projects. In this capacity he has to coordinate with the project architect, local municipalities, the ODOT and the project developer. Work on these projects included, utility routing, storm drainage design, storm water management design and preparation of ODOT encroachment permit applications, health department permit application and NPDES permit application for handling surface water during construction. Mr. Criniti is also responsible for performing construction admin on this project consisting of site inspections, pay application review and approval and construction schedule monitoring.

b.

(1) TITLE AND LOCATION *(City and State)*
Bayer CropScience, Institute, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2013	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

As a Staff Engineer, Mr. Criniti has been involved in and is responsible for the drainage design for this project. Mr. Criniti assisted the projected manager in the preparation of construction documents for the expansion for Bayer CropScience's Hazardous Waste Landfill in Institute, WV. The project included grading, drainage and the design of landfill liner and closure features including both earthen and synthetic liners and drainage features.

c.

(1) TITLE AND LOCATION *(City and State)*
Devonshire Housing Development, Scott Depot, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Ongoing	Ongoing

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

As a Staff Engineer, Mr. Criniti has been involved in and is responsible for site development design and permitting for various portions of this large residential development. In this capacity he has to coordinate with the project architect, local municipalities, the WVDOH and the project developer. Work on these projects includes building pad positioning and elevation, access road layout including grading design, parking lot layout, utility routing, storm drainage feature layout and design. Permitting work on these projects includes WVDOH encroachment permitting, health department permitting and NPDES permitting for handling surface water during construction. Mr. Criniti is also responsible for attending and conducting project meetings with the project contractor, the developer and associated agency.

d.

(1) TITLE AND LOCATION *(City and State)*
Sheetz Store, Eisenhower Drive, Beckley, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2012	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

As a Staff Engineer, Mr. Criniti has been involved in and is responsible for the drainage design and permitting for this project. Mr. Criniti assisted the projected manager in the preparation of construction documents for the construction of a gas station/convenience store in Beckley, WV. This project includes grading, drainage, detention, roadway expansion, parking lot design, water quality design as well as many other aspects.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Joseph H. Young, ASLA	Senior Landscape Architect	23	11

15. FIRM NAME AND LOCATION *(City and State)*
Triad Engineering, Inc., Scott Depot, West Virginia

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
BSLA Landscape Architecture

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Registered Landscape Architect, West Virginia and Ohio

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Certified Flood Plain Manager - NAFPA

19. RELEVANT PROJECTS

a.
(1) TITLE AND LOCATION *(City and State)*: **Boone County Sports Complex, Julian, WV**
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2010 — CONSTRUCTION *(if applicable)*: N/A
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Senior Landscape Architect a sports park project near Julian, WV. Mr. Young prepared the master plan for the site and performed all site layout and grading and landscape design. Mr. selected all materials for use in the construction of the sports complex. Mr. Young also assisted in the permitting to ensuring that the site was able to acquire United States Corps of Engineers Permitting due to sensitive flood plan issues.

b.
(1) TITLE AND LOCATION *(City and State)*: **Washing Nile Local School District, West Portsmouth, Ohio**
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2011 — CONSTRUCTION *(if applicable)*: N/A
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm

c.
(1) TITLE AND LOCATION *(City and State)*: **Tournament Park, Ruddle, WV**
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2010 — CONSTRUCTION *(if applicable)*: N/A
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Senior Landscape Architect a sports park project near Julian, WV. Mr. Young prepared the master plan for the site and performed all site layout and grading and landscape design. Mr. selected all materials for use in the construction of the sports complex. Mr. Young also assisted in the permitting to ensuring that the site was able to acquire United States Corps of Engineers Permitting due to sensitive flood plan issues.

d.
(1) TITLE AND LOCATION *(City and State)*: **Sue Morris Sports Complex, Glenville, WV**
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2010 — CONSTRUCTION *(if applicable)*: N/A
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Senior Landscape Architect a sports park project near Julian, WV. Mr. Young prepared the master plan for the site and performed all site layout and grading and landscape design. Mr. selected all materials for use in the construction of the sports complex. Mr. Young also assisted in the permitting to ensuring that the site was able to acquire United States Corps of Engineers Permitting due to sensitive flood plan issues.

e.
(1) TITLE AND LOCATION *(City and State)*: **Clay Local School District, Portsmouth, Ohio**
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2012 — CONSTRUCTION *(if applicable)*:
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
The project consists of the development of an existing high school site into a K-12 school site with the addition of the middle and elementary schools . The new addition will occupy the area now being used as student and faculty parking area. Site features included the development of a new circulation and parking system, the development of age appropriate play areas, outdoor learning areas, outdoor courtyard area, pedestrian circulation around the site, utility design and an extensive storm water management system. Triad worked with a project team headed by the architect and owner, to develop a complete comprehensive set of construction documents.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Roger A. Simar	QA/QC & Construction Services Manager / Laboratory Manager	39	39

15. FIRM NAME AND LOCATION *(City and State)*
Triad Engineering, Inc., Morgantown, West Virginia

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
A.S., Civil Engineering Technology

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
WV Dept. of Highways – Bituminous Concrete Tech. (# 651), Portland Cement Concrete Tech. (#693), Aggregates Tech. (#112), Compaction Tech. (#312), Marshall Mix Design; National Inst. For Certification in Engineering Technologies – Senior Civil Eng. Tech. (#060687); Geotechnical Eng. Tech. (#060687); American Concrete Institute – Concrete Technician, Grade 1 (#196-38-3400). Certified Radiation Safety Officer – Humboldt Scientific.

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Training: *Fairmont State University – Level V Certified Inspector; Troxler Electronics Laboratories – Radiation Safety.*

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
WV National Cemetery
Grafton, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
1985-2014	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Mr. Simar has provided technical services and oversight for multiple WV National Cemetery projects since 1985. Projects have included site expansions, improvements and repairs, with services including field and laboratory materials testing (during geotechnical explorations and construction phase services), construction monitoring, and inspections.

b.

(1) TITLE AND LOCATION *(City and State)*
West Virginia University
Morgantown, WV / Various Locations, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
1976-Present	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Mr. Simar has provided Project Management and on-site Quality Control Manager and testing duties for numerous University developments over the last 30+ years, including the following recent projects:

- Mountaineer Field (Construction, Expansion, Upgrades to Field and Facilities)
- Basketball Practice Facility (Construction)
- Downtown Residence Hall (Construction)
- Evansdale Greenhouse (Construction)
- Women's Soccer Practice Facility (Construction)
- Nursery School / Day Care Facility (Construction)
- Brooks and White Halls (Renovations)
- Mountaineer Station (Construction)
- Baseball Park (Construction – Nearing Completion)

c.

(1) TITLE AND LOCATION *(City and State)*
WV Department of Highways (numerous projects)
Districts 4 – 8, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
1980-Present	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Mr. Simar has managed and performed testing, inspection and monitoring services for the WVDOH for more than 30 years. He has tested soil and concrete during all phases of highway and bridge construction, performed inspection services to ensure compliance with design specifications, provided oversight and organization of assistant technicians and inspectors, and served as a respected liason between the State and its contractors. *(Triad is a multi-year recipient of the WVDOH Engineering Excellence Award for Construction Inspection.)*

d.

(1) TITLE AND LOCATION *(City and State)*
Allegheny Power
Greensburg, PA

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2005-2007	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Provided on site field inspection / testing and laboratory testing services under a two-year contract. Management duties included coordination of Contract Work Assignments (CWAs) and project assignments for four Triad offices supporting three client regions.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
John B. Hope	Quality Control Services Manager Senior Engineering Technician	23	23

15. FIRM NAME AND LOCATION *(City and State)*
Triad Engineering, Inc., Scott Depot, West Virginia

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
Dupont High School

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
MSHA Above Ground Hazard Training
OSHA Hazwoper 40 Hour
USACE Construction QC Manager
Licensed Asbestos Inspector

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
West Virginia Division of Highways
Fairmont, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2011	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

As a licensed asbestos Inspector, assisted the Project Manager in documenting the collection of samples for asbestos testing in over 50 structures, and preparing the reports for review by the project manager.

b.

(1) TITLE AND LOCATION *(City and State)*
Endocrine Disruptor Study, Potomac, Ohio, Monongahela and Kanawha Rivers

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2010	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Duties included the Sampling and Collection of raw river water to be tested by EPA and WV DEP for Endocrine Disruptors. The labeling and shipping of the samples to the testing labs. Photographic locations for the report and document river levels and clarity.

c.

(1) TITLE AND LOCATION *(City and State)*
Commerce Park and West Pea Ridge Bridges, Huntington, West Virginia

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2010	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Duties included the sampling and testing of all classes of WVDOH concrete. Testing and monitoring of lift thicknesses of fills and backfills. The collection of aggregate samples.

d.

(1) TITLE AND LOCATION *(City and State)*
Hawks Nest Hydro Dam Anchoring
Ansted, West Virginia

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
On-going	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Provided QC Management of a large project to install safety anchoring to the underlying bedrock. Duties include management of QC personnel during full project inspection and materials testing of all grout, concrete, soils and specialty materials including cellular foam concrete.

e.

(1) TITLE AND LOCATION *(City and State)*
Route 10 Overpass Overlay
Chapmanville, West Virginia

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2010	

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Duties included the sampling and testing of the latex modified concrete for the overlay. Including the making of chloride permeability samples to determine the penetration of de-icing materials and the potential effects on the underlying decking and reinforcing steel.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Lloyd Kirk, PS	Survey Supervisor	27	3

15. FIRM NAME AND LOCATION *(City and State)*
Triad Engineering, Inc., Scott Depot, West Virginia

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
Mining Engineering Technology, WVUIT

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Professional Surveyor / WV
Professional Surveyor / NC,

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Certified Flood Plain Surveyor, NC

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
Appalachian Electric Power
John Amos Power Plant – Winfield WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2013	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

As Surveyor-in-Charge, provided direct supervision of field crew and operated as one-man robotic total station/GPS crew in support of construction of new mooring cells for the coal harbor off-loading facility. Riverine survey operations required for establishing the best-fit alignment of the existing docking line and for providing positioning services to anchor sheet piling templates in the Kanawha River.

b.

(1) TITLE AND LOCATION *(City and State)*
City of Raleigh
Raleigh, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2010	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

As Surveyor-of-Record, provided direct supervision of various field crews and conducted field surveys for right-of-way acquisition, topographic location, and wetlands delineation surveys for an approximately 6000 LF sanitary sewer line. Project also consisted of the preparation of, topographic mapping for design purposes, and the preparation of Wetlands Delineation Maps to secure 404(c) permits through the US Army Corps of Engineers (Wilmington District).

c.

(1) TITLE AND LOCATION *(City and State)*
NC Department of Transportation
Warren County, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2011	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

As Surveyor-of-Record / Data Analyst contracted to NCDOT, provided direct supervision of various field crews and conducted field surveys for right-of-way acquisition and topographic location surveys for roadway improvements conducted per Federal Highway Administration High Risk Rural Roads specifications for approximately 3.5 miles of local rural roads in Warren County NC including deliverable plan sets prepared per NCDOT/NC MAPS specifications.

d.

(1) TITLE AND LOCATION *(City and State)*
NC Army National Guard
Morrisville, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2010	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Surveyor of Record / Field Supervisor providing construction staking and layout of Crash, Fire and Rescue (CFR) Facilities Building supporting the 1st of 130th Aviation Battalion (AH-64 Apache Helicopter unit) based at Raleigh Durham International Airport. Operations were conducted in close coordination with Federal Aviation Administration and NC National Guard personnel to provide layout services for the construction of an approximately $1.3 million facility.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE a. TOTAL	b. WITH CURRENT FIRM
Steven A. Clark, PS	Survey Crew Coordinator/Party Chief	26	20

15. FIRM NAME AND LOCATION *(City and State)*
Triad Engineering, Inc., Scott Depot, West Virginia

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
Survey and Mapping Courses

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Professional Surveyor / WV
Professional Surveyor / KY

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Certified 40 Hour Hazwoper OSHA

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
US Army Corps of Engineers-Huntington District
IDIQ Contract for Surveying Services

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2007-2010
CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Party Chief for multiple task orders on this contract over the past 3.5 years including the updating of the horizontal and vertical datums on multiple USACE project sites. This update will allow these projects to be compliant with the new datum standards set forth in the **Comprehensive Evaluation of Project Datums**. Project types have included horizontal and vertical control surveys, soil/rock sample locations, topographic survey, cross section, boundary surveys, and dam instrumentation across the Huntington District.

b.

(1) TITLE AND LOCATION *(City and State)*
WVDOT Statewide Surveying Contract
Various location throughout West Virginia

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2000-Present
CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Over the duration of this contract for surveying services, performed the duties of survey crew coordinator/ party chief for Triad Engineering. **Supervised or performed various tasks including centerline stakeout, as-built surveys, and monthly quantity surveys** on projects across the state of West Virginia for the West Virginia Department of Transportation

c.

(1) TITLE AND LOCATION *(City and State)*
Bayer CropScience
Institute, West Virginia

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 1994-Present
CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Over the past nineteen years, Performed various survey projects under various work orders at the Institute facility. Projects have included volume surveys, various topographic surveys, monitoring well locations, boundary surveys and construction layout surveys. Performed a deformation/ monitoring survey on a weekly basis for two years to monitor movement in and around the MIC storage units. Performed a hydrographic survey on a one mile stretch of the Kanawha River adjacent to the facility as part of a shoreline stabilization/ docking port upgrade project.

d.

(1) TITLE AND LOCATION *(City and State)*
Hydrographic Survey-Dupont Plant
Belle, West Virginia

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2011
CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Performed hydrographic survey and mapping of an increment of the Kanawha River adjacent to the Dupont Facilities located in Belle, WV, immediately upstream of the approach channel of the Marmet locks and dam. The purpose of the survey was to map river features including mooring cells, river bank and all facilities of the Dupont Plant.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
James Stanton	Biologist - Environmental Consultant	5	5

15. FIRM NAME AND LOCATION *(City and State)*
Decota Consulting Company, Inc.

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
MS Biology, Marshall University
BS Wildlife and Fisheries Resources, West Virginia University

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
SFS-TCP Genus-Level Eastern EPT Taxonimist
SFS-TCP Family-Level Eastern Aquatic Insect Taxonomist

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Level II Rosgen River Morphology and Applications

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Fourmile Surface Mine, Kanawha County, WV		N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm
Approximately 1,200 acre surface mine project that included permitting, design, construction, and monitoring. Provided analysis and oversight through biological monitoring phases of project.

b.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Lakin State Farm In-Lieu Fee Project, Lakin, WV		N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm
Ongoing WV DEP In-Lieu Fee Program mitigation project that will generate over 10,000 stream and wetland mitigation credits. Providing analysis and oversight through biological monitoring and assessment phases of project.

c.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
White Oak Creek Mitigation Project		N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm
Approximately 12,000 foot stream mitigation project that included permitting, design, construction, and monitoring. Provided analysis and oversight through biological monitoring and assessment phases of project.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Neal Carte	Design - Environmental Consultant	30	5

15. FIRM NAME AND LOCATION *(City and State)*
Decota Consulting Company, Inc.

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
BS Biology, West Virginia State College

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
SFS-TCP Genus-Level Eastern EPT Taxonimist
SFS-TCP Family-Level Eastern Aquatic Insect Taxonomist

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Level IV Rosgen - River Restoration and Natural Channel Design Wetland Delineator Certification

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
Sand Run Wetland Mitigation, Upshur County, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Approximately 1,200 acre surface mine project that included permitting, design, construction, and Approximately 6 acre wetland project that included delineation, permitting, design, construction, and monitoring. Provided design and oversight through all phases of project.

b.

(1) TITLE AND LOCATION *(City and State)*
Lakin State Farm In-Lieu Fee Project, Lakin, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Ongoing WV DEP In-Lieu Fee Program mitigation project that will generate over 10,000 stream mitigation credits and one acre of wetland mitigation credits by restoring over 23,000 feet of impaired stream channel. Providing wetland delineation, stream and wetland mitigation design and construction oversight of project.

c.

(1) TITLE AND LOCATION *(City and State)*
White Oak Creek Mitigation Project

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Approximately 12,000 foot stream mitigation project that included permitting, design, construction, and monitoring. Provided design and oversight through construction and ongoing monitoring including vegetation assessment and invasive species evaluations.

d.

(1) TITLE AND LOCATION *(City and State)*
Meadow Branch Wetland Delineation

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Was responsible for delineation of wetlands within the project areas of the proposed Meadow Branch Wetland Delineation project in Letcher County, Kentucky. This delineation identified nearly four acres of emergent and scrub/ shrub wetlands in 4 wetland complex systems.

e.

(1) TITLE AND LOCATION *(City and State)*
Route 10 Overpass Overlay
Chapmanville, West Virginia

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2010	

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Duties included the sampling and testing of the latex modified concrete for the overlay. Including the making of chloride permeability samples to determine the penetration of de-icing materials and the potential effects on the underlying decking and reinforcing steel.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Linda Torre, PE	Environmental Consultant	30	19

15. FIRM NAME AND LOCATION *(City and State)*
Decota Consulting Company, Inc.

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
MS in Environmental Engineering, Marshall University
BS in Civil Engineering, West Virginia University
BS in Mathematics / Natural Science, University of Charleston

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Professional Engineer (WV)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Society of Mining Engineers.
American Society of Civil Engineers
Level II Rosgen River Morphology and Application

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
Fourmile Surface Mine, Kanawha County, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Approximately 1,200 acre surface mine project that included permitting, design, construction, and monitoring. Provided analysis and oversight through biological monitoring phases of project.

b.

(1) TITLE AND LOCATION *(City and State)*
Fivemile Deep Mines Mitigation and Permitting

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Decota prepared and obtained approval from regulatory agencies for development of a deep mine operational area that diverted approximately 1400 feet of intermittent channel through culvert. The project included mitigation via rehabilitation and enhancement of approximately 3500 feet of the downstream segments of the impacted channel. Impact assessments, permitting, design and construction oversight were completed by Decota. Monitoring is ongoing.

c.

(1) TITLE AND LOCATION *(City and State)*
Putnam Village Station, Wetland Delineation

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Partnered with Triad Engineering, Inc, was responsible for the delineation of wetlands within the construction zone of the proposed Putnam Village Power Sub-Station. Delineations were completed, field reviewed by the US ACE and approved. Currently, the project is under construction.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Lacey Parsons	Project Manager - Design	20	11

15. FIRM NAME AND LOCATION *(City and State)*
Decota Consulting Company, Inc.

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
BS Wildlife and Fisheries Resources, West Virginia University

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Certified Professional in Erosion and Sediment Control
WV Department of Agriculture Certified Nutrient Management Planner

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Level IV Rosgen - River Restoration and Natural Channel Design

19. RELEVANT PROJECTS

a.
(1) TITLE AND LOCATION *(City and State)*: **Fourmile Surface Mine, Standard, WV**
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: | CONSTRUCTION *(if applicable)*: N/A
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Approximately 1,200 acre surface mine project that included permitting, design, construction, and monitoring. Provided design and oversight through mitigation construction and ongoing monitoring phases of project.

b.
(1) TITLE AND LOCATION *(City and State)*: **Lakin State Farm In-Lieu Fee Project, Lakin, WV**
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: | CONSTRUCTION *(if applicable)*: N/A
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Ongoing WV DEP In-Lieu Fee Program mitigation project that will generate over 10,000 stream mitigation credits and one acre of wetland mitigation credits by restoring over 23,000 feet of impaired stream channel. Providing wetland delineation, stream and wetland mitigation design and construction oversight of project.

c.
(1) TITLE AND LOCATION *(City and State)*: **White Oak Creek Mitigation Project**
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: | CONSTRUCTION *(if applicable)*: N/A
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Approximately 12,000 foot stream mitigation project that included permitting, design, construction, and monitoring. Provided design and oversight through construction and ongoing monitoring.

d.
(1) TITLE AND LOCATION *(City and State)*: **Cline Run Mitigation Bank**
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: | CONSTRUCTION *(if applicable)*: N/A
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
All stream surveying, habitat, geomorphic and biological assessments for the development of the Cline Run Mitigation Bank. This project is over 31,000 feet in length and would create over 5000 Stream and Wetland Valuation Metric stream credits with an additional 2+ acres of wetland credit.

e.
(1) TITLE AND LOCATION *(City and State)*: **Fivemile Deep Mines Mitigation and Permitting**
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2010 | CONSTRUCTION *(if applicable)*:
(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☒ Check if project performed with current firm
Decota prepared and obtained approval from regulatory agencies for development of a deep mine operational area that diverted approximately 1400 feet of intermittent channel through culvert. The project included mitigation via rehabilitation and enhancement of approximately 3500 feet of the downstream segments of the impacted channel. Impact assessments, permitting, design and construction oversight were completed by Decota. Monitoring is ongoing.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Erik Baldwin, PE, PS	Environmental Consultant	22	7

15. FIRM NAME AND LOCATION *(City and State)*
Decota Consulting Company, Inc.

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
MS Environmental Engineering, Marshall University BS Civil Engineering, Bluefield State College	Professional Engineer (WV, VA, OH) Professional Land Surveyor (WV, VA)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
West Virginia Society of Professional Surveyors
American Society for Engineering Education

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Fourmile Surface Mine, Standard, WV		N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Approximately 1,200 acre surface mine project that included permitting, design, construction, and monitoring. Provided design and oversight through mitigation construction and ongoing monitoring phases of project.

b.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Lakin State Farm In-Lieu Fee Project, Lakin, WV		N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm

Ongoing WV DEP In-Lieu Fee Program mitigation project that will generate over 10,000 stream and wetland mitigation credits. Providing engineering and survey support for property ownership verification and project design.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Brad Cochran, GIS	Environmental Consultant	15	8

15. FIRM NAME AND LOCATION *(City and State)*
Decota Consulting Company, Inc.

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
BA Geography, West Virginia University

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
West Virginia Association of Geospatial Professionals

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
Fourmile Surface Mine, Standard, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Approximately 1,200 acre surface mine project that included permitting, design, construction, and monitoring. Provided mapping, data analysis, and data collection for all phases of project.

b.

(1) TITLE AND LOCATION *(City and State)*
Lakin State Farm In-Lieu Fee Project, Lakin, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Ongoing WV DEP In-Lieu Fee Program mitigation project that will generate over 10,000 stream and wetland mitigation credits. Providing watershed assessment, survey, mapping, modeling, data analysis, and data collection for all phases of project.

c.

(1) TITLE AND LOCATION *(City and State)*
Emergency Watershed Protection Program, Statewide, WV

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☒ Check if project performed with current firm

Statewide watershed protection program developed by the West Virginia Conservation Agency. Developed and implemented the GIS and data management components for all phases of project.

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

1

1. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Cobun Creek Dam **Morgantown, West Virginia**	2009	2010

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Morgantown Utility Board (MUB)	Jim Fetty	(304) 292-8443

24. DESCRIPTION OF PROJECT *(Include project info, services, benefit/value, results, relevance, references, photographs/diagrams, awards/certifications, team members)*

The Cobun Creek Dam impounds approximately 185 acre-feet of water and was originally constructed in 1957 as a water supply dam for the City of Morgantown. The earth and rock fill structure is approximately 57 feet in height and 268 feet long. The open-channel emergency spillway is constructed within the right abutment of the structure, with the channel excavated into bedrock.

The structure is located within the City of Morgantown, less than a mile from where it empties into the Monongahela River. Hazard classification analyses were utilized to prove that the structure has a Class 2 Hazard Potential. Using a risk analysis, Triad was able to justify the use of a lesser design storm to evaluate the spillway capacity. As constructed, the dam was able to safely pass 35% of the PMP storm. However, risk analyses prove that 37% PMP will flood the downstream area with no failure of the dam. Therefore, the spillway needed to be enlarged to pass the 37% PMP storm.

Seepage through the bedrock and flows through the spillway have resulted in significant erosion on the right side of the dam embankment. Therefore, armoring was designed to protect this area from additional degradation. In addition, the emergency spillway channel sidewall, which was excavated into shale bedrock, has been undercut over the years by spillway outflows. This undercutting has resulted in a loss of support for the overlying rock, with large slabs of rock spalling and blocking the spillway channel. Filling of the undercut area with concrete is proposed, with reinforcement dowelled into the upper and lower rock units. Triad provided construction plans and specifications to complete the design effort. In addition, Triad has also provided safety inspection services and completion of the Certificate of Approval forms to satisfy West Virginia dam safety regulations.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
a.	**Triad Engineering, Inc.**	Morgantown, WV	Prime Engineer, Geotechnical Investigations, Hydrologic & Hydraulic Analysis, Civil Engineering and Design, Permitting
b.			
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

2

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Bluestone Dam **Hinton, WV**		

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
US Army Corps of Engineers, Huntington, WV		

24. DESCRIPTION OF PROJECT *(Include project info, services, benefit/value, results, relevance, references, photographs/diagrams, awards/certifications, team members)*

The Bluestone Dam is located on the New River at Hinton, West Virginia. The dam is a concrete gravity structure, 165 feet high and 2,048 feet in length and was completed in 1949. The drainage area of the Bluestone Dam is 4,565 square miles, the largest of any dam in West Virginia. The primary purpose of the dam is for flood damage reduction. To date the Bluestone Dam has prevented over five billion dollars of flood damage.

David Meadows, PE, PS, is a retiree from the USACE, Huntington District. Before his retirement Mr. Meadows was the Chief, H&H and Technical Support Division, Great Lakes and Ohio River Dam Safety Production Center and Dam Safety Modification Mandatory Center of Expertise before coming to Triad Engineering in 2013 as the Southwest Regional Manager. In this position he was responsible for developing and directing the Division's efforts to manage the regional execution of complex, non-routine, regional and inter-regional dam safety modifications, engineering assessments and risk and reliability analyses throughout the infrastructure capital stock portfolio of the U.S. Army Corps of Engineers. He primarily accomplished this mission through twelve senior technical staff (Hydraulic, Cost and Construction Engineers) who oversaw all complex technical aspects of modification work. He directed their work and provided them with strategic leadership, mentoring, coaching, counseling, team building, partnering, direction and management.

The structure is located within the City of Morgantown, less than a mile from where it empties into the Monongahela River. Hazard classification analyses were utilized to prove that the structure has a Class 2 Hazard Potential. Using a risk analysis, Triad was able to justify the use of a lesser design storm to evaluate the spillway capacity. As constructed, the dam was able to safely pass 35% of the PMP storm. However, risk analyses prove that 37% PMP will flood the downstream area with no failure of the dam. Therefore, the spillway needed to be enlarged to pass the 37% PMP storm.

The Bluestone Dam is hydrologically deficient and is not structurally stable due to the potential for sliding on the foundation. A failure of the dam would be catastrophic and would place over 100,000 people at risk and cause over an estimated ten billion dollars in damage. Mr. Meadows managed the hydraulic and hydrologic team and cost engineering team during the performance of numerous studies and activities in addition to direct particaption in them. These included the Issue Evaluation Study (IES), IES resolution, hydrologic determination of the flood frequency and PMF, inundation study, debris evaluation and expert eliciation, hydraulic modeling and expert eliciation of the spillway and penstocks, scouring potenital in the penstock and stilling basin areas, cost engineering for the Dam Safety Investment Plan (DSIP), foundation anchoring, Interim Risk Reduction Measures Plan and the Interim Operating Plan. DSAC II project. Three hydraulic models were constructed at USACE Engineering Reseach and Development Center (Center). These models assisted in the evaluation of the scour potential in the spillway and penstock stilling basins.

The determination of the flood frequency was a critical study that could dramatically impact the dam safety modifications of the dam features. This determination included an evaulation of the risk associated with the operation of the gates and impact on pool elevation as a result of the debris build-up against the dam. The determination also considered a different methodology of determining the frequency by considering volume-duration verus the convential satistical analysis. Risks associated with considering different antecedate conditions and penstock operations were also performed. This resulted in the determination of a flood frequency that would be the basis for use in the project baseline risk assessment and risk evaluation for the dam safety modifications.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
	Triad Engineering, Inc.	St. Albans, WV	Prime Engineer, Geotechnical

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

3

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Edgemont Reservoir **Hagerstown, MD**		

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Hagerstown, MD		

Triad Engineering, Inc. (Triad) under contract with the City of Hagerstown, Maryland Water and Sewer Department provided geotechnical engineering, environmental services and construction management services related to various remedial and maintenance activities at the Warner Gap Hollow Dam (Edgemont Reservoir), located near Smithsburg, in Washington County, Maryland. These activities were a requirement of the Maryland Department of the Environment (MDE) Dam Safety Division.

The Gap Hollow Dam is a 56 ft. high earthen dam. Due to reported seepage at the embankment toe, Triad was contracted by the City of Hagerstown to perform a seepage analysis, soil borings, stability analyses, geophysical surveys, installation of monitoring wells and stream quantity studies to determine the extent and magnitude of the observed seepage, thus reducing the associated risk. Based on this information, Triad was able to design a toe drain drainage system to properly collect and convey the seepage to an appropriate outlet. Triad generated construction drawings and specifications for the installation of the toe drain system. Triad also performed on-going monitoring during construction activities to document the installation of the toe drain.

In addition to the remedial investigation and design services, Triad also provided environmental services which included Wetland Delineation Studies, Compliance with the Washington County Forest Conservation Ordinance (FCO), and various Environmental Permitting activities through the MDE. The Wetland Delineation Studies were performed in general accordance with the Routine Determination Method as outlined in the 1987 U.S. Army Corps of Engineers (Corps) Wetlands Delineation Manual. As a result, jurisdictional waters and wetlands were identified and documented at the project site. These areas were subsequently slated for avoidance.
In conjunction with the other work on this project, Triad also prepared and submitted a Joint Federal/State Application for the Alteration of Any Flood Plain, Waterway, Tidal or Non-Tidal Wetland in Maryland (JPA) for the planned maintenance activities at the Warner Gap Hollow Dam. As a result, MDE issued Maryland Waterway Construction Permits.

Triad also prepared Emergency Action Plans (EAPs) for the Warner Gap Hollow Dam in accordance with MDE Dam Safety Division Requirements. This required detailed Topographic Surveys of the reservoirs and downstream areas, detailed Hydrology and Hydraulic Studies, Dam Breach Analysis, and the development of Danger Reach Maps. Transportation Routes, Businesses, Residences, and Properties within the danger reach areas were researched and listed. In addition, all appropriate emergency response personnel were researched and listed. The EAPs received MDE's approval.

In accordance with the requirements of the MDE issued Waterway Construction Permit for the maintenance activities at the Warner Gap Hollow Dam, Triad remains under contract with the City of Hagerstown, Maryland Water and Sewer Department to perform routine inspections and yearly inspections with MDE. Triad is also listed as the Facility Dam Engineer in charge of emergency inspection during significant precipitation events and earthquakes. Triad also performs a yearly update to the project EAP.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
	Triad Engineering, Inc.	Hagerstown, MD	Prime Engineer

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

4

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
IDIQ A/E Surveying Services **USACE Huntington District**		

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
USACE-Huntington District	Paul Dean	(304) 399-5698

24. DESCRIPTION OF PROJECT *(Include project info, services, benefit/value, results, relevance, references, photographs/diagrams, awards/certifications, team members)*

Triad Engineering was selected to provide surveying services on Contract W91237-07-D-004 in 2005. Since that time Triad has completed 32 task orders with a project value of approximately $1,500,000. The projects have ranged from as-built surveys of completed projects to the establishment of base control networks for upcoming projects. Triad worked with the Huntington District to meet the mission goal of updating the project datums throughout the district per the Comprehensive Evaluation of Project Datums Guidelines (CEPD). To date Triad has submitted over 130 existing or new control stations into the NGS database with another 30 points currently in process. In additional Triad has updated both the horizontal and vertical project datums on 16 projects throughout the district.

Triad has recently completed a project at the Dover Dam near Dover Ohio. On this project hydrographic survey data was combined with conventional survey data and 3-Dimension scanning data collected with a Trimble VX scanning station to produce a complete topographic survey of the project site including areas that were not accessible by conventional means. This data was provided to the Huntington District in the form of a Microstation DGN file, an In-Road surface file and a LAND-XML design file.

Triad has completed several instrumentation projects on flood control dams. Utilizing one crew chief and four rodman, the Triad team was able to complete a horizontal instrumentation observation on 32 points in one day. Each point was observed 12 times (6 direct, 6 reverse) from two different stations. The crew chief was required to point the instrument for the first reading, then after that, each reading was automated. A standard deviation of the resultant angles and distance was produced. Triad crews recently completed instrumentation on three locks and dams on the Ohio River and two locks and dams on the Kanawha River. Due to budget constraints, a method for horizontal observations was developed by Triad personnel along with Paul Dean, Survey Manger from the Huntington District. The method consisted of utilizing one GPS rover along with three or four GPS base stations. This method proved to be highly successful and provided significant cost savings to the District.

The largest project completed by Triad was running check sections for a LIDAR mapping project crossing the state of West Virginia. Triad crews ran sections on the entire 97 miles of the Kanawha River, 73 miles of the New River, 15 miles of the Greenbrier River, 15 miles of the Gauley River and 12 miles of the Elk River. Sections were typically extended to a point plus or minus 250 feet above the water's surface.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
a.	**Triad Engineering, Inc.**	St. Albans, WV	Prime Engineer
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
f.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 5

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Whitetail Resort **Mercersburg, PA**		

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Snow Time, Inc.		(717) 382-9400

24. DESCRIPTION OF PROJECT *(Include project info, services, benefit/value, results, relevance, references, photographs/diagrams, awards/certifications, team members)*

Triad has provided engineering services for multiple projects at Whitetail Resort. Triad provided civil design for the southernmost pond on Whitetail Resort's property. The design was to replace a failing principal spillway and update the emergency spillway. The existing spillway was abandon in place and a new pipe and concrete spillway was installed through the pond berm. Civil services involved designing the spillways and preparing a hydrology and hydraulics report, preparing site grading & erosion-sediment control plans, preparing permit applications for PA Dam Safety and obtaining approvals from all reviewing agencies.

Environmental services included marking of wetlands and stream evaluation. Topographic surveying services were performed to show contours over the entire area and show details of the spill way areas and the pond. Triad performed dam inspections, prepared inspection reports for NPDES permitting of the large reservoir, and completed a seepage analysis. Geotechnical engineering services were provided for the design and construction of the expansion to the existing lodge. The scope of work included performing eight (8) soil borings and probes within the limits of the proposed expansion area, detailed laboratory testing and development of a detailed geotechnical report

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
a.	**Triad Engineering, Inc.**	Morgantown, WV	Prime Engineer
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
f.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

6

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Winfield Lock and Dam Monitoring Survey, Winfield, WV		

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER

24. DESCRIPTION OF PROJECT *(Include project info, services, benefit/value, results, relevance, references, photographs/diagrams, awards/certifications, team members)*

This was a task order under the U. S. Army Corps of Engineers Survey Contract. The purpose of this task order was to conduct a survey to determine any movement or deformation of this Kanawha River navigation project. The field work was performed during normal project operations. Field services provided by Triad included a control survey, monitoring and deformation survey, and establishment of National Geodetic Survey Monuments.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME **Triad Engineering, Inc.**	(2) FIRM LOCATION *(City and State)* St. Albans, WV	(3) ROLE / RELATIONSHIP Prime Engineer
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
f.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

7

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Elkwater Fork Water Shed Dam **Huttonsville, West Virginia**		

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Natural Resource Conversation Service (NRCS) Morgantown, WV	David Heeter, Heeter Construction	(304) 927-3032

The project consists of the construction of a 32 million dollar water supply dam across Elkwater Fork, near Huttonsville, West Virginia. The dam construction consists primarily of roller compacted concrete (RCC) with pre-cast concrete panels placed along the upstream and downstream faces. The water shed area for this dam is over 5,000 acres. Triad provided engineering support to the contractor and is currently providing full time quality control services.

Engineering support services provided by Triad consisted of preparation of construction erosion and sediment control plans for the project site as well as over 1 mile of access road, air pollution permit application for the conventional concrete and RCC batch plants, full design of a ground water de-watering system, and full design of a surface water diversion system including earthen coffer dam.

Quality control services for the project consist of full quality control management and testing of all construction materials including fill placement, conventional concrete materials, and roller compacted concrete materials. Triad built and furnished a fully equipment laboratory for the project and is currently staffing the project with a quality control manager / RCC engineer and 4 quality control. technicians

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME **Triad Engineering, Inc.**	(2) FIRM LOCATION *(City and State)* St. Albans, WV	(3) ROLE / RELATIONSHIP Prime Engineer
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
f.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

8

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Devonshire Development **Scott Depot, WV**	2009	Ongoing

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Cathcart Properties, Inc.	Todd Dofflemyer	(434) 296-4168

Triad provided full civil engineering services including site development design for this project. The project consisted of the construction and site development for a large luxury mixed used residential development located in Scott Depot, West Virginia. The development which encompasses approximately 110 acres will ultimately have 532 luxury apartments, 174 townhouses, 72 condominiums and 59 single family patio homes. The development also includes a 6,500 square feet clubhouse, resort style pool, playgrounds and sport courts. Triad worked with a project team consisting of the architect and developer, to create a complete, comprehensive set of construction drawings. Site features included concrete and asphalt paving, sidewalks, curb and gutter, site utility routing, drainage structures, and storm water management features.

As with most site development projects, this project involved optimizing the use of available property and terrain to accommodate the housing facilities and associated parking and access drives.

Services provided by Triad consisted of, field surveying to generate a map of existing site and topographic features, geotechnical investigations to determine subsurface conditions to facilitate design of the building foundations and associated site work, design of all site grading and drainage features and storm water management features, and preparation of West Virginia Division of Highways (WVDOH) encroachment permit and West Virginia DEP construction storm water permits. The permitting phase of the project also included close coordination with the Putnam County, West Virginia Planning Commission to obtain building permits and certificates of occupancy. Triad also performed construction administration services on this project including full time inspection, construction documentation, pay estimate review, and Owner / Contractor coordination.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME **Triad Engineering, Inc.**	(2) FIRM LOCATION *(City and State)* St. Albans, WV	(3) ROLE / RELATIONSHIP Prime Engineer
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
f.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 9

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Fourmile Fork of Paint Creek Surface Mine Kanawha County, WV		2

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Tyler Morgan, LLC	Andrew Jordon	(304) 595-5801

Approximately 1,200 acre surface mine project that included permitting, design, construction, monitoring, endangered species evaluation, cultural resource analysis, surface mine planning, valley fill and haul road design, SMCRA permitting, Individual NPDES permitting, and 401/404 Clean Water Act permitting.

Mitigation work served as compensation for impacts associated with Fourmile Surface Mines No. 2 and 3. Goals of the project were to provide fish habitat enhancement. bank stabilization to a stocked trout fishery stream, and correct degradation caused by historic land use patterns. Enhancement with in-stream structures covered 11,500 feet of Paint Creek and 2,500 feet of Fourmile Fork of Paint Creek.

Decota coordinated with local interest groups including landowners, the WV Division of Natural Resources, and the Lower Paint Creek Watershed Association to prevent property loss from erosion and increase tourism in the popular fishing area with the newly enhanced mitigation reach.

Decota was responsible for design and implementation of the project. All permitting work and subsequent monitoring has been done through our engineering and environmental biology staff.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME **Decota Consulting Company, Inc.**	(2) FIRM LOCATION *(City and State)* Cross Lanes, WV	(3) ROLE / RELATIONSHIP Prime Environmental Consultant
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
f.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

10

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
WVDEP In-Lieu Fee Stream and Wetland Mitigation Program		

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
WVDEP	Brian Bridgewater	(304) 926-0499 ext. 1829

Decota has been approved as a pre-qualified vendor for the WVDEP's In-Lieu Fee Program. Decota has completed preliminary assessments and are in the development stages of three large stream restoration projects on behalf of the West Virginia Dept. of Environmental Protection. These projects will result in the restoration and enhancement of over 6 miles of stream on state-owned and managed land. Decota is responsible for the planning, design, permitting, construction oversight, and subsequent monitoring of the projects.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME **Decota Consulting Company, Inc.**	(2) FIRM LOCATION *(City and State)* Cross Lanes, WV	(3) ROLE / RELATIONSHIP Prime Environmental Consultant
b.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
c.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
d.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
e.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP
f.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE / RELATIONSHIP

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 16)	27. ROLE IN THIS CONTRACT (From Section E, Block 17)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
David Meadows, PE, PS			X						X		
Daniel Lipscomb, PE									X		
Jeffrey Huffman, PE			X								
Randy Moulton, PE		X	X	X		X					
Lee McCoy, PE									X		
James Criniti, EI									X		
Joseph Young, ASLA									X		
John Hope								X			
Lloyd Kirk, PS									X		
Steve Clark, PS					X		X				
James Stanton										X	X
Neal Carte											X
Linda Torre, PE										X	
Lacey Parsons										X	X
Erik Baldwin, PE, PS										X	X
Brad Cochran, GIS										X	X

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	**Cobun Creek Dam**	6	**Winfield Lock and Dam Monitoring Survey**
2	**Bluestone Dam**	7	**Elkwater Fork Water Shed Dam**
3	**Edgemont Reservoir**	8	**Devonshire Development**
4	**IDIQ A/E Surveying Services USACE Huntington District**	9	**Fourmile Fork of Paint Creek Surface Mine**
5	**Whitetail Resort**	10	**WVDEP In-Lieu Fee Stream and Wetland Mitigation Program**

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

SUMMARY

Triad Engineering Inc. has the specialized experience, technical competence and professional qualifications to provide the civil engineering services you require. We feel that the WVCA will benefit from Triad's ability to draw on professional expertise across a wide service range. This ability to approach projects from a "big picture" perspective, combined with our relationship-based philosophy, produces real world problem solving that goes beyond traditional consulting.

Responsive service, extensive experience and achieving Total Client Satisfaction are attributes that our team brings to its clients. Our members' past performance on Indefinite Delivery Contracts with the USACE and other agencies requiring similar services has been ranked Excellent with unconditional recommendations for future contracts.

The Triad Team looks forward to working with the Huntington District in supporting your mission and would like to thank you for the opportunity to submit our qualifications.

TEAM ORGANIZATION AND MANAGEMENT

Organizational Responsibilities and Working Relationships Among Team Members

Triad's Point of Contact, David F. Meadows PS, PE, brings over 40 years of leadership, design, construction and project management experience to Triad Engineering. Mr. Meadows joined Triad in 2013 to provide management to the southwest region which includes the southern West Virginia area and the Athens, Ohio office. Prior to coming to Triad he served in a number of technical and leadership positions at the US Army Corps of Engineers, Huntington District. His expertise includes civil design, geotechnical engineering, construction management, surveying, environmental remediation and water resources engineering.

Project Management Guidelines (Design Management Plan)

Triad's success in the Federal marketplace is based on strong project management that has been driven by continued corporate growth. Coordination between Triad and the WVCA will be maintained through an **effective consultant-client communication policy**. Triad will develop administrative procedures such as the organization of the project, its implementation, and the management of the work progress. We will be available to the District throughout the course of the contract. **The Point of Contact will initiate all communication between our Team and the WVCA** They will also facilitate further communication between members of the Team through continuous direct access to key staff.

Depth of Personnel and Production Scheduling

Based on normal operating criteria, our Team can commit seven (10) Professional Engineers whose registrations include **West Virginia, Virginia, Ohio, Pennsylvania, Maryland, Kentucky, and District of Columbia**. Our Team of Professional Engineers are supported by others ranging from Engineering Interns (EI) to designers, to CAD operators. **With this number of engineers and technical staff, our Team would be able to respond to multiple task order assignments with no negative impact on delivery schedules for those projects or current workload.**

Quality Assurance/Quality Control

Triad's primary goal is client satisfaction. It is this focus on identifying, understanding, and satisfying our client's expectations that forms the basis for all of our actions, serves as a core value of our culture, and forms the foundation of our quality control/quality assurance program. Thus, schedule and cost control performance, as well as accurate and complete technical work, are integral components of our commitment to quality. Triad has written a Project Management and Quality Control Plan that contains our quality policies and documents, our standard practices designed to support efficient performance, and keep employees focused on meeting client expectations. These plans will be furnished to the

WVCA if requested.

Management of Consultant Efforts

Decota Consulting will be Triad's subcontractor and will performed all NEPA related activities and will perform all stream restoration and wetland delineation activities. Triad will perform the remainder of the scope items.

PROFESSIONAL CAPABILITIES OF THE TEAM

Firm Background and Service

Triad Engineering, Inc was formed in 1975 by three engineers from West Virginia University, and has steadily grown to become one of the 500 largest engineering firms in the country. Triad is a full-service engineering firm specializing in the areas of civil, geotechnical, environmental and mining engineering, as well as surveying. Their firm of over 200 employees is employee owned - from field support staff to senior managers. We have seven offices located across West Virginia, Virginia, Pennsylvania, Ohio and Maryland. Triad Engineering, Inc. prides itself on the ability to perform top-quality work for our clients, which is both on schedule and within budget. Our company is small enough to be responsive to the needs of our clients, and large enough to remain at the forefront of the engineering practice.

Qualifications of the PIC/PM/Team Personnel

David Meadows is a registered professional engineer in West Virginia. He will be performing overal project oversite and quality assurance and quality control on this contract. He retired in 2013 from the U.S. Army Corps of Engineers after 40 years of service. During his career at the Corps, he served as Chief of the H&H and Technical Support Division, Great Lakes and Ohio River Dam Safety Production Center and Dam Safety Modification Mandatory Center of Expertise, Chief of Engineering and Construction Division, Chief of Water Resources Engineering Branch, Engineering and Construction Division, Chief of Environmental and Remediation Section, Construction Management and Field Support Branch, Chief, Civil Design Section, Design Branch, and Chief of Soils & HTRW Section, Geotechnical Branch. .

Larry "Lee" McCoy, Jr is a registered professional engineer in West Virginia, Kentucky and Ohio. He has over 18 years of experience in civil site design which very often includes performing HEC-RAS analyses for many of our design projects which are located in or near floodplains. He is also a Certified Floodplain Manager. He directs a group of other engineers and technicians who also perform design work as well as develop plans and specifications for these projects. Mr. McCoy also works closely with and directs, as needed, inspectors and construction managers who see the projects through the construction phase.

Discipline/Personnel Specifications

Triad has the in-house depth of personnel and **professional license registrations** to be able to respond to task order assignments located in nearly all of the area contained within the geographic boundaries of the **Huntington District**.

Licenses, Certifications and Training

Illustration No. 3 is intended to identify professional license registrations the Triad Team currently possesses.

Many of the technical staff are currently registered as Professional Engineers. In addition, our Team has numerous engineering interns, scientists, drillers and drill helpers.

Our Team has an ongoing commitment to provide training, formalized education, continuing education and professional memberships to our staff so that we are better prepared to meet the challenges of the profession. The following list is representative of our commitment:

- Certified consultants have provided the **40-hour hazardous waste training** and the 8-hour refresher training to all field survey and project management staff. This also has included **First Aid and CPR training** to comply with OSHA standards.
- 10 Hour OSHA General Industry Safety Training.
- American Red Cross CPR & First Aid Training.
- CSX Contractor Safety Training.
- Speakers at various Geotechnical Conferences around the US.

- Members of various professional Geotechnical engineering societies at the state and national levels to include Association of State Dam Safety Officials.
- Corporate subscriptions and/or memberships to various professional publications.
- Certified Monitoring of Well Installation
- Radiation Safety Officers
- Troxler Nuclear Moisture Density Gauge Certified
- MSHA Surface Coal Mine Operations
- Federal Highway Institute Subsurface Investigation Specialists
- NCMA Segmental Retaining Wall Installer Certified
- Electrical Resistivity Imaging Training
- Registered Flaggers

Illustration No. 3

MATRIX OF TEAM LICENSES AND CERTIFICATIONS

State License	Triad Engineering	
	PE	LS
West Virginia	**10**	**5**
Kentucky	**2**	
Maryland	12	2
North Carolina	1	
Ohio	**4**	**1**
Pennsylvania	9	2
Virginia	**10**	**2**
District of Columbia	2	1

Illustration No. 4 is intended to identify specific expertise for key personnel on the Team.

Illustration No. 4

KEY PERSONNEL EXPERTISE

TEAM	Site Grading and Development Plans	Commercial/Industrial Site Developments	Landscape Design	Storm Water Best Management Practices	Utility Design and Analysis	Hydrologic Studies	Dam Rehabilitation studies and design	Transportation Engineering	Construction Specifications and Contract Documents	Construction Contract Administration
Triad Engineering, Inc.										
David F. Meadows	X	X		X	X	X	X	X	X	X
L. Lee McCoy, Jr, PE	X	X		X	X	X	X	X	X	X
Jack Ramsey, PE	X	X		X	X		X		X	X
Randy L. Moulton, PE	X	X		X	X	X	X	X	X	X
Danny Lipscomb, PE							X			
Jeff Huffman, PE	X	X		X	X	X	X	X	X	X
James "Bo" Criniti, EIT	X	X		X		X	X	X	X	X
William Ernstes, ASLA	X	X	X				X		X	X
Joe Young, ASLA	X	X	X				X		X	X
Shawn Fore	X	X	X	X	X	X	X	X	X	
Scott Bria	X	X	X	X	X	X	X	X	X	X

ARCHITECT – ENGINEER QUALIFICATIONS

1. PROJECT NUMBER *(If any)*

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work. Limit one page per office.)

2a. FIRM (OR BRANCH OFFICE) NAME (LEGAL NAME ON FILE WITH THE OHIO SECRETARY OF STATE)	3. YR ESTABLISHED	4. FTID NUMBER
Triad Engineering, Inc.	1975	550592364

2b. STREET	5. OWNERSHIP
10541 Teays Valley Rd.	a. TYPE: Corporation

2c. CITY	2d. State	2e. ZIP CODE	b. SMALL BUSINESS STATUS
Scott Depot	WV	25560	

6a. POINT OF CONTACT NAME AND TITLE	7. NAME OF FIRM *(If Block 2a is a branch office.)*
David F. Meadows, PE,PS Regional Manager	

6c. TELEPHONE NUMBER	6d. E-MAIL ADDRESS
740-249-4304	dmeadows@triadeng.com

8. FORMER FIRM NAME(S) *(If any)*

N/A

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) LICENSED	c. No. of Employees (2) NON-LICENSED
02	Administrative	13	4
08	CADD Technician	8	3
10	Chemical Engineer	0	0
12	Civil Engineer	16	5
15	Construction Inspector	24	5
16	Construction Manager	2	1
18	Cost Engineer/Estimator	1	
23	Environmental Engineer	3	1
24	Environmental Scientist	8	5
27	Geotechnical Engineer	15	3
29	GIS Specialist	1	1
30	Geologist	11	4
34	Hydrologist	2	1
38	Land Surveyor	19	6
39	Landscape Architect	2	1
42	Mechanical Engineer	0	
43	Mining Engineer	3	
47	Planner: Urban/regional	0	
58	Technician	25	6
60	Transportation Engineer	1	1
	Other Employees	27	8
	Total	173	65

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number (see below)
A05	Airports; Navaids; Lighting	6
A06	Airports; Terminals & Hangars	3
B02	Bridges	6
C10	Buildings	3
C12	Communication Towers	2
C15	Construction Management	3
D02	Dams (Earth; Rock)	4
E09	Environmental Assessments	2
E11	Environmental Planning	6
F05	Forensic; Expert Witness	2
H07	Highways	4
L02	Land Surveying	6
L03	Landscape Architecture	2
P06	Site Planning	4
P08	Correctional Facilities	4
P12	Power Generation	3
S05	Soils; Foundations	7
S09	Structural Design	1
T02	Testing & Inspection Services	6
T04	Topo. Surveying & Mapping	6
A05	Airports; Navaids; Lighting	6

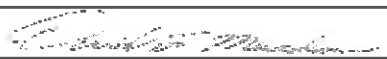
11. TOTAL REVENUES FOR LAST 2 YEARS
(Insert revenue index number shown at right)
**For OFCC administration, include contracts administered by OFCC, SAO, and OSFC*

a. Work for this Contracting Authority*	1
b. Other State Work *(see instructions)*	5
c. **Total State Work**	5

REVENUE INDEX NUMBER

1. Less than $50,000
2. $50,000 to less than $100,000
3. $100,000 to less than $200,000
4. $200,000 to less than $500,000
5. $500,000 to less than $1,000,000
6. $1,000,000 to less than $2,000,000
7. $2,000,000 to less than $5,000,000
8. $5,000,000 to less than $10,000,000
9. $10,000,000 to less than $20,000,000
10. $20,000,000 to less than $50,000,000

12. AUTHORIZED REPRESENTATIVE
The foregoing is a statement of facts.

a. SIGNATURE 

b. DATE: 06/04/2015

c. NAME AND TITLE
David F. Meadows, PE, PS, Regional Manager

Provide a separate Part II form for each firm or branch office participating on the proposed project team.

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(if any)*:

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME **Triad Engineering, Inc.**			3. YEAR ESTABLISHED 1975 / 4. FTID NUMBER
2b. STREET 219 Hartman Run Road			5. OWNERSHIP a. TYPE Corporation
2c. CITY Morgantown	2d. STATE WV	2e. ZIP CODE 26505	b. SMALL BUSINESS STATUS N/A
6a. POINT OF CONTACT NAME AND TITLE Richard M. Rogers, Northwestern Regional Manager			7. NAME OF FIRM *(if block 2a is a branch office)* N/A
6b. TELEPHONE NUMBER 304-296-2562	6c. E-MAIL ADDRESS rrogers@triadeng.com		
8a. FORMER FIRM NAME(S) *(if any)* N/A			8b. YR. ESTABLISHED N/A / 8c. DUNS NUMBER N/A

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
02	Administrative	13	5
08	CADD Technician	8	2
09	Chemical Engineer	1	2
12	Civil Engineer	16	6
15	Construction Inspector	24	3
16	Construction Manager	2	5
18	Cost Engineer/Estimator	1	2
23	Environmental Engineer	3	8
24	Environmental Scientist	8	1
27	Geotechnical Engineer	15	1
29	GIS Specialist	1	9
30	Geologist	11	
34	Hydrologist	2	
38	Land Surveyor	19	
39	Landscape Architect	2	
42	Mechanical Engineer	0	
43	Mining Engineer	3	
47	Planner: Urban/regional	0	
58	Technician	16	
60	Transportation Engineer	1	
	Other Employees	27	5
	Total	173	49

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A05	Airports; Navaids; Lighting	6
A06	Airports; Terminals & Hangars	3
B02	Bridges	6
C10	Buildings	3
C12	Communication Towers	2
C15	Construction Management	3
D02	Dams (Earth; Rock)	4
E09	Environmental Assessments	2
E11	Environmental Planning	6
F05	Forensic; Expert Witness	2
H07	Highways	4
L02	Land Surveying	6
L03	Landscape Architecture	2
P06	Site Planning	4
P08	Correctional Facilities	4
P12	Power Generation	3
S05	Soils; Foundations	7
S09	Structural Design	1
T02	Testing & Inspection Services	6
T04	Topographic Surveying & Mapping	6

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	1
b. Non-Federal Work	8
c. Total Work	8

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE: Richard M. Rogers

b. DATE: 06/04/15

c. NAME AND TITLE: Richard M. Rogers, Northwestern Regional Manager

ARCHITECT – ENGINEER QUALIFICATIONS

2. SOLICITATION NUMBER *(if any)*:

2a. FIRM (OR BRANCH OFFICE) Name: Triad Engineering, Inc.		3. YEAR ESTABLISHED: 1975	4. FTID NUMBER:
2b. STREET: 200 Aviation Drive		5. OWNERSHIP a. TYPE: S-Corporation	
2c. CITY: Winchester	2d. STATE: VA / 2e. ZIP: 22602		
6a. POINT OF CONTACT NAME AND TITLE: Randy Moulton, PE, Principal Engineer		b. SMALL BUSINESS STATUS: VA DMBE Small - # 703607	
6b. TELEPHONE NUMBER: 540-667-9300	6c. EMAIL ADDRESS: rmoulton@triadeng.com	7. NAME OF FIRM *(If block 2a is a branch office)*	
8a. FORMER FIRM NAME(S) *(if any)*		8b. YR. ESTABLISHED	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	(2) BRANCH
02	Administrative	13	3
08	CADD Technician	8	
09	Chemical Engineer	1	
12	Civil Engineer	16	
15	Construction Inspector	24	
16	Construction Manager	2	
18	Cost Engineer/Estimator	1	
23	Environmental Engineer	3	
24	Environmental Scientist	8	
27	Geotechnical Engineer	15	2
29	GIS Specialist	1	
30	Geologist	11	
34	Hydrologist	2	
38	Land Surveyor	19	
39	Landscape Architect	2	
42	Mechanical Engineer	0	
43	Mining Engineer	3	
47	Planner: Urban/regional	0	
58	Technician	16	4
60	Transportation Engineer	1	
	Other Employees	27	
Total		173	9

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A05	Airports; Navaids; Lighting	2
A06	Airports; Terminals & Hangars	3
B02	Bridges	6
C10	Buildings	3
C12	Communication Towers	2
C15	Construction Management	3
D02	Dams (Earth; Rock)	4
E09	Environmental Assessments	2
E11	Environmental Planning	6
F05	Forensic; Expert Witness	2
H07	Highways	4
L02	Land Surveying	6
L03	Landscape Architecture	2
P06	Site Planning	4
P08	Correctional Facilities	4
P12	Power Generation	3
S05	Soils; Foundations	7
S09	Structural Design	1
T02	Testing & Inspection Services	6
T04	Topographic Surveying & Mapping	6

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS
(insert revenue index number shown at right)

a. Federal Work	1
b. Non-Federal Work	8
c. Total Work	8

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE
The foregoing is a statement of facts.

a. SIGNATURE: 

b. DATE: 06/04/15

c. NAME AND TITLE: Bradley Reynolds, PE, Regional Manager

ARCHITECT – ENGINEER QUALIFICATIONS

1. PROJECT NUMBER *(If any)*

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work. Limit one page per office.)

2a. FIRM (OR BRANCH OFFICE) NAME (LEGAL NAME ON FILE WITH THE OHIO SECRETARY OF STATE)	3. YR ESTABLISHED	4. FTID NUMBER
Decota Consulting Company, Inc.	1996	835676631

2b. STREET	5. OWNERSHIP
4984 Washington St. W	a. TYPE: Corporation

2c. CITY	2d. STATE	2e. ZIP CODE	b. EDGE STATUS
Cross Lanes	WV	25313	

6a. POINT OF CONTACT NAME AND TITLE	7. NAME OF FIRM *(If Block 2a is a branch office.)*
David Raines, Vice President	

6c. TELEPHONE NUMBER	6d. E-MAIL ADDRESS
304.776.3333 ext. 110	davidraines@decotaconsulting.com

8. FORMER FIRM NAME(S) *(If any)*

N/A

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Function Code	b. Discipline	c. No. of Employees (1) LICENSED	c. No. of Employees (2) NON-LICENSED	a. Profile Code	b. Experience	c. Revenue Index Number (see below)
01	Administrative	1		C13	Computer Services	1
07	Biologist	3		C15	Construction Management	1
08	CADD Technician	1		E09	Environmental Impact Studies	2
12	Civil Engineer	2		EI 1	Environmental Planning	3
24	Environmental Scientist	4		E12	Environmental Remediation	3
29	GIS Specialist	2		EI 3	Environmental Testing and Analyt	2
38	Land Surveyor	1		G04	GIS Services	1
58	Technician / Analyst	5		G05	Geospatial Data Conversion	1
				M06	Mining and Mineralogy	5
				S13	Storm Water Handling	1
				T04	Topographic Surveying	1
				W02	Water Resources	2
				W03	Water Treatment	2
	Other Employees					
	Total	19				

11. TOTAL REVENUES FOR LAST 2 YEARS
(Insert revenue index number shown at right)
**For OFCC administration, include contracts administered by OFCC, SAO, and OSFC*

a. Work for this Contracting Authority*	1
b. Other State Work *(see instructions)*	6
c. **Total State Work**	6

REVENUE INDEX NUMBER

1. Less than $50,000
2. $50,000 to less than $100,000
3. $100,000 to less than $200,000
4. $200,000 to less than $500,000
5. $500,000 to less than $1,000,000
6. $1,000,000 to less than $2,000,000
7. $2,000,000 to less than $5,000,000
8. $5,000,000 to less than $10,000,000
9. $10,000,000 to less than $20,000,000
10. $20,000,000 to less than $50,000,000

12. AUTHORIZED REPRESENTATIVE
The foregoing is a statement of facts.

a. SIGNATURE 

b. DATE: 06/04/2015

c. NAME AND TITLE
David Raines, Vice President

Provide a separate Part II form for each firm or branch office participating on the proposed project team.

OUR SERVICES

- Civil Engineering
- Geotechnical Engineering
- Environmental Services
- Survey and Mapping
- Landscape Architecture
- Mine Permitting
- Construction Monitoring
- Drilling and Sampling
- Laboratory Testing

PENNSYLVANIA
500 Bursca Drive, Suite 504
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Hagerstown, MD 21740
(301) 797-6400

VIRGINIA
200 Aviation Drive
Winchester, VA 22602
(540) 667-9300

21641 Beaumeade Circle
Suite 300
Ashburn, VA 20147
(703) 729-3456

WEST VIRGINIA
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10541 Teays Valley Road
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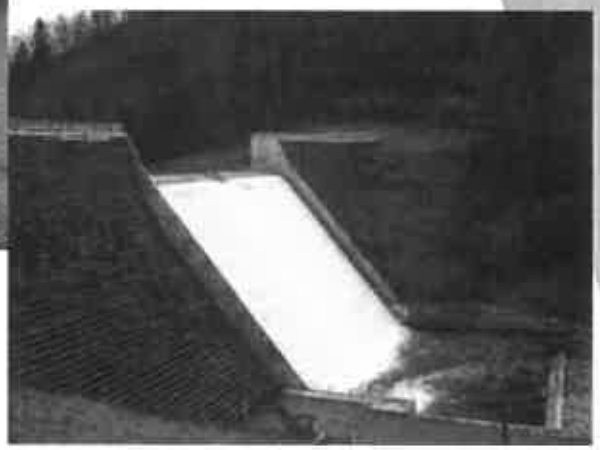

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