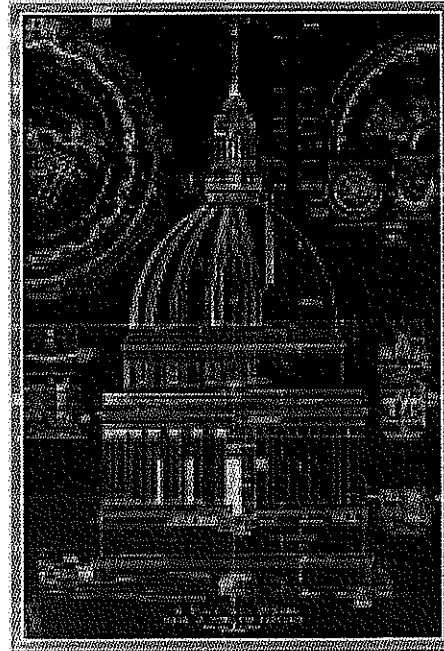


WV CAPITOL COMPLEX PARKING EVALUATION & REDESIGN GSD116434

March 1, 2011



Prepared For:

Ms. Tara Lyle
West Virginia Purchasing Division
Post Office Box 50130
2019 Washington Street East
Charleston, West Virginia 25305-0130
Fx: 304-558-4115

Prepared By:

Triad Engineering Inc.
4980 Teays Valley Road
Scott Depot, West Virginia 25560
Ph: 304.755.0721
Fx: 304.755.1880



◆ TRIAD Listens, Designs & Delivers™

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2011 FEB 28 AM 9:47

WV PURCHASING
DIVISION

www.triadeng.com

March 1, 2011

Ms. Krista Ferrell
West Virginia Purchasing Division
2019 Washington Street, East
Post Office Box 50130
Charleston, West Virginia 25305-0130

**RE: Expression of Interest
Evaluation & Redesign East Main Campus Parking Lots
WV State Capitol Complex, Charleston, WV
GSD116434**

Dear Ms. Ferrell:

We are pleased to present our Expression of Interest for evaluation and redesign of the East Main Campus Parking Lots for the West Virginia Capitol Complex at 1900 Kanawha Boulevard, East in Charleston, WV. The Main Campus is generally bounded by Greenbrier Street on the west to California Avenue on the east and from Kanawha Boulevard on the south to Piedmont Street on the north. Triad Engineering (TRIAD) is confident that the attached documentation will illustrate why we are the best candidate for this project. To summarize, we feel that we would be the best choice because:

- TRIAD has outstanding technical qualifications including our experienced professional staff, modern equipment, and our knowledge of West Virginia.
- TRIAD’s St. Albans office is nearby and can respond quickly to your needs.
- TRIAD can begin immediately on your project and can call upon the resources of the largest engineering firm originating and operating in the state of West Virginia. All design work for this project will be performed by Triad’s St. Albans office.
- TRIAD has specific experience in dealing with all the aspects of your project including our civil engineering design experts, landscape architect, and the field and lab staff to support all surveying, regulatory requirements, and data collection and assessments needed to support this work.

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.

L. Lee McCoy, Jr., P.E.
Senior Engineer/Civil Engineering Manager

Joseph Young, ASLA
Landscape Architect

CONCEPT

SCOPE OF WORK

Based on the request for Expression of Interest, Triad Engineering understands the project involves the following:

- Evaluation of existing parking
- Preparation of a preliminary design
- Preparation of detailed project design
- Coordination with all applicable permitting agencies
- Preparation of construction plans, specifications, bidding/contracting documents
- Assistance during bidding including participation in the evaluation of bids received
- Construction administration services
- Construction inspection services as required to insure compliance with plans and specifications

In addition to producing a complete evaluation of parking in report form and a set of construction documents, Triad will be responsible for verifying, coordinating and documenting locations of all utilities and related design, rebuild and enhancements. This documentation will be provided to the owner in both paper and electronic formats with drawing files provided in AutoCAD format. Triad will submit a comprehensive report for all items in the scope including the following:

Utilities

- a. Locate and mark all utilities in the area and under adjoining streets.
- b. Removal of all abandoned utilities or utility lines that are no longer required.
- c. Relocated utilities shall follow the railroad right-of-way or remaining streets right-of-ways.
- d. If possible, existing lighting shall remain in place.
- e. Triad will consider relocation of power lines and other pole mounted utilities. This relocation activity shall not hold up paving projects. Also Triad will provide a plan that is adaptable to future relocation.

Handicapped Accessibility

- a. A minimum number of handicapped spaces will be provided that will match ADA guidelines for the number of redesigned parking spaces in the project area plus handicapped spaces for any additional parking areas outside the project scope that are not currently accessible.
- b. All areas shall be made accessible by providing ramps, drives, sidewalks and curb cuts.
- c. Accessible routes to the parking area will be provided from the Main Campus, Building 4 and other campus buildings south of Washington Street.

CONCEPT

SCOPE OF WORK

Site Work

- a. Limited landscaping may be included in the scope.
- b. Drainage will be provided as necessary to existing storm drains.
- c. Parking in the area of the existing Mail Distribution Building should be designed to accommodate future demolition of the is building and incorporation of the site into the parking plan.
- d. The project may include relocation of the existing Grounds Maintenance yard east of Michigan Avenue to an area nearer to Veazey Street. The relocated yard shall be the approximate size of the existing area.
- e. Unless otherwise noted, the project will not include the small lot east of Michigan Avenue behind the Credit Union to the alley.
- f. Parking/paving site work must be phased to facilitate continued parking by State employees.
- g. Necessary survey and geotechnical work shall be included.
- h. Phase I & II Environmental Surveys have already been performed on the site.
- i. Potential work could include removal of existing paving, compacting of subsoil, grading, gravel and repaving to correct differential settlement problems with previously paved areas.
- j. Project may include abandonment of existing street right-of-ways at alleys, Jefferson Street and part of Michigan Avenue where the State owns property on both sides of the right-of-way.

The purpose of the project is to consolidate and pave the lots on the eastern side of the Campus, improving parking traffic flow and maximizing the number of spaces. Also, the project will include paving the consolidated lot or lots.

CONCEPT

PROJECT APPROACH

The following is a breakdown of the project into phases and tasks:

PHASE 1 - INITIAL INVESTIGATION AND "UP FRONT SERVICES"

Task 1 - Initial Project Planning Meeting

At the onset of the project, we will meet jointly with the West Virginia General Services Division project personnel and any other key development / project members. This meeting will be for the purpose of reviewing basic project parameters, goals and approval procedures. During this meeting, several items will be discussed including but not limited to project contact names and information, design team review and approval process, general project concept, and desired time frames for each project task.

Task 2 – Survey Field Edit

TRIAD will determine the existence of necessary mapping in the project area and will develop only what is necessary if none exists. This involves identifying existing utility locations and ground surface elevations within the project area. Should suitable mapping become available, during this initial phase we will perform a "field edit." This would include walking/driving the site and verifying that important existing topographic features have been accurately depicted on the mapping.

Task 3 - Utility Research and Meetings

During the initial investigation process, our representatives will meet with the local utility providers for telephone, electric, cable, fiber optic, water, sewer, and gas. The meetings will be for the purpose of obtaining record information on existing facilities and connection points, as well as any lines they may have which will be of concern during construction. If it is not already included, this information will be added to any existing mapping and to any mapping Triad develops.

CONCEPT

PROJECT APPROACH

Task 4 – Identification of Alternatives

During this initial phase, we will study the project areas and present feasible alternatives along with attendant approximate construction costs and environmental considerations. Triad's project manager will be available to explain how the project will affect adjacent properties. We understand, however, that the final selection is subject to the West Virginia General Services Division's approval.

PHASE 2 - PRELIMINARY DESIGN AND PERMITTING SERVICES

Task 1 - Site Planning (Preliminary Site Plans)

Upon completion of the initial phase, Triad will create preliminary site plans to meet project requirements in accordance with applicable regulations and to optimize the goals of the proposed system. The site plans will be periodically updated to incorporate the West Virginia General Services Division's comments and to respond to required reviews. These will be submitted for further review and comment and will become the basis for final design drawings.

Task 2 – Permitting

Upon completion of the preliminary plans, permit applications will be submitted to pertinent review agencies for their approval to perform construction.

Task 3 - Meetings and Approval Process

Upon the completion of the preliminary design drawings and permit application submittals, we will attend team meetings and provide services in support of the development approval process not specifically identified under the other tasks outlined in this letter agreement.

PHASE 3 - FINAL CONSTRUCTION PLANS

Task 1- Final Project Design

Upon the completion of previous reviews and resolution of comments, we will finalize design of the project. This will include a final decision on the project features, as well as right of way requirements and/or possible utility relocations.

CONCEPT

PROJECT APPROACH

Task 2 - Final Construction Drawings and Project Specifications

Upon completion of all reviews and final engineering design, we will prepare bid documents for the project. This will consist of the following, at a minimum:

- Title Sheet
- General Notes
- Site Layout Plans
- Utility Site Plans
- Standard and Special Details
- Specifications

PHASE 4 – BID EVALUATIONS

Task 1 – We will provide engineering support in the evaluation of construction bids and will assist the West Virginia General Services in determining the lowest responsible bid.

PHASE 5 - CONSTRUCTION PHASE SERVICES

Task 1 - Construction Administration Services

Triad has the capability to provide administration services for the construction phase of the project. As you can see from our company overview, we have in-house capabilities for compaction testing, concrete testing, and asphalt paving testing. The West Virginia General Services Division will have the option of selecting any or all of the services listed above.

Task 2 - As-built Survey

If the West Virginia General Services Division wishes, upon completion of construction, we will provide an As-Built survey of the completed work. The survey will include all features of the project as well as any relocated utility locations. The as-built survey will be done one time and will be performed upon substantial completion of the project.



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

Request for Quotation

RFQ NUMBER
GSD116434

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
**KRISTA FERRELL
 304-558-2596**

SHIP TO

RFQ COPY
 TYPE NAME/ADDRESS HERE

Triad Engineering, Inc.
 4980 Teays Valley Road
 Scott Depot, WV 25560

SHIP TO


DEPARTMENT OF ADMINISTRATION
 GENERAL SERVICES
 BUILDING 1 ROOM MB60
 1900 KANAWHA BOULEVARD, EAST
 CHARLESTON, WV
 25305-0123 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
02/02/2011				

BID OPENING DATE: **03/01/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-07		
<p>A&E SERVICES: REDESIGN OF EAST CAMPUS PARKING LOTS</p> <p>EXPRESSION OF INTEREST (EOI)</p> <p>ARCHITECTURAL/ENGINEERING SERVICES</p> <p>THE WEST VIRGINIA DIVISION OF PURCHASING FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF GENERAL SERVICES, IS SOLICITING FOR EXPRESSIONS OF INTEREST TO PROVIDE ARCHITECTURAL AND ENGINEERING SERVICES TO EVALUATE AND REDESIGN THE AREAS OF THE EAST MAIN CAMPUS PARKING LOTS PER THE ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO KRISTA FERRELL IN THE DIVISION OF PURCHASING VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, VIA FAX AT 304-558-4115, OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS FEBRUARY 15, 2011 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM TO THIS EOI ISSUED BY THE PURCHASING DIVISION.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>NOTICE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE  TELEPHONE **304) 755-0721** DATE **2/16/11**

TITLE **MARKETING COORDINATOR** FEN **550592364** ADDRESS CHANGES TO BE NOTED ABOVE

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



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

Request for Quotation

RFQ NUMBER
GSD116434

PAGE
2

ADDRESS CORRESPONDENCE TO ATTENTION OF
**KRISTA FERRELL
 304-558-2596**

RFQ COPY

TYPE NAME/ADDRESS HERE

Triad Engineering, Inc.
 4980 Teays Valley Road
 Scott Depot, WV 25560

SHIP TO

DEPARTMENT OF ADMINISTRATION
 GENERAL SERVICES
 BUILDING 1 ROOM MB60
 1900 KANAWHA BOULEVARD, EAST
 CHARLESTON, WV
 25305-0123 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
02/02/2011				
BID OPENING DATE: 03/01/2011		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>A SIGNED EOI MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE EOI SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE EOI MAY NOT BE CONSIDERED:</p> <p>SEALED EOI</p> <p>BUYER: KRISTA FERRELL-FILE 21</p> <p>EOI. NO.: GSD116434</p> <p>EOI OPENING DATE: MARCH 1, 2011</p> <p>EOI OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR EOI:</p> <p>-----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):</p> <p>-----</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *KH* TELEPHONE 304-755-0721 DATE 2/16/11

TITLE MARKETING COORDINATOR FEIN 550592364 ADDRESS CHANGES TO BE NOTED ABOVE

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

John M. Meeks, PG, LRS
Southwestern Regional Manager/Senior Geologist

EDUCATION

BS, Geology
Graduate Studies

West Virginia University, Morgantown, WV, 1980
Marshall University Graduate College

REGISTRATIONS AND LICENSES

Professional Geologist
Licensed Remediation Specialist

Kentucky (No. 556)
West Virginia (No. 008)

DIRECT WORK EXPERIENCE AND PRIMARY RESPONSIBILITIES

Triad Engineering, Inc., St. Albans, WV	Southwestern Regional Manager/Senior Geologist 2010 - Present
Triad Engineering, Inc., St. Albans, WV	Branch Manager/Senior Geologist 2001 - 2010
Triad Engineering, Inc., St. Albans, WV	Environmental Services Manager/Senior Geologist 1990 - 2001
WV Office of Waste Management, Charleston, WV	Assistant Chief 1985 - 1990
UTD Corp., Elkins, WV	Staff Geologist 1982 - 1985
GSI, Inc., Huntington, WV	Staff Geologist 1980 - 1982

PROFESSIONAL ORGANIZATION/ASSOCIATIONS

Air & Waste Management Association, WV Chapter
WV Chamber of Commerce, Environmental Committee – Former Waste Team Chair
WVDEP Waste Roundtable – Founding Member
Putnam County Chamber of Commerce – Education Committee and Ambassador
Committee

CURRENT POSITION RESPONSIBILITIES

Mr. Meeks is currently a practicing Senior Geologist and Southwestern Regional Manager of Triad. In this capacity, Mr. Meeks is responsible for technical quality and management control of all projects in the region. His technical work includes assessment of groundwater and surface water quality; contaminant assessment; groundwater remediation system design and implementation; waste management facility design and permitting; brownfield redevelopment projects; and wetland mitigation design and permitting. Mr. Meeks also gained a thorough knowledge of environmental regulatory requirements through his experience with WV Division of Environmental Protection, where he supervised statewide enforcement of waste management regulations; including hazardous waste and solid waste regulatory programs, as well as underground storage tank regulations. Prior to his tenure at WV Division of Environmental Protection, Mr. Meeks performed groundwater and surface water assessment projects throughout West Virginia and the central Appalachian region. Mr. Meeks is an occasional guest lecturer and educator regarding brownfield redevelopment, wetland treatment systems, groundwater assessment and remediation, and other environmental topics at community and business associations, technical conferences, and local colleges.

PROJECT EXPERIENCE SUMMARY

Environmental Impact Study, Kanawha County, WV

As Project Manager and Senior Scientist, managed and assisted in the preparation of portions of the EIS for a highway widening project for WV DOT. Sections of the EIS prepared by Triad included Noise Impacts, Surface water Impacts, Groundwater Impacts, Wetland Impacts, Threatened or Endangered Species Impacts, Mineral Resources, and Hazardous Waste.

Environmental Impact Study, Marion County, WV

As Project Manager and Senior Scientist, managed and assisted in the preparation of several sections of the EIS for a new access road between I-79 and Rivesville, WV. Sections of the EIS prepared by Triad included Noise Impacts, Surface water Impacts, Groundwater Impacts, Wetland Impacts, Threatened or Endangered Species Impacts, Mineral Resources, and Hazardous Waste.

ERO Landfill Characterization and Interim Closure, WVDEP-LCAP, Charleston, WV

As Project Manager and Senior Geologist, managed and assisted in the characterization and interim closure of the ERO Landfill facility. This included a complete hydrogeologic site evaluation and monitoring well installation, surveying and mapping, waste limit determination, borrow soil investigation, and design of the storm water management system, access road, leachate collection system, and constructed wetland leachate treatment system. Following design and permitting, served as Project Manager for construction Quality Control inspection. Prepared research paper describing the design and operation of the constructed wetland leachate treatment system that was selected for presentation at the national conference of the Solid Waste Association of North America.

Union Carbide Corporation (DOW Chemical), South Charleston, WV

Provided technical and project management services to plant personnel and the Remediation Technologies Group from 1990 through present. As a Project Manager, leading a team of engineers and scientists evaluating and preparing remedial design drawings and construction documents for closure of a Superfund landfill unit located at the former Marietta, OH plant. Project scope included evaluation of alternative cover designs and design of a specialized leachate collection and pumping system. Subsequent work included onsite inspection and certification of the construction.

Bayer Crop Science, USA, Institute, WV

As Senior Geologist, responsible for annual re-evaluation of groundwater conditions at a wastewater treatment facility and hazardous waste landfill, including evaluation, interpretation, and presentation of quarterly groundwater quality data; evaluation of an existing corrective action system through groundwater flow modeling; and statistical analysis of data for evidence of groundwater impacts.

West Virginia Department of Transportation, Charleston, WV

As Project Manager oversaw implementation of annual contract for investigation of hazardous materials and petroleum release sites for WV DOT. Projects have included evaluation of maintenance facilities for releases of organic and inorganic contaminants to soils, groundwater and surface water; investigation of suspect properties slated for right of way acquisition; installation of borings, direct push soil sample locations, and monitoring wells; preparation of cost estimates and specifications for remediation of sites impacted by releases of hazardous materials.

Structures Resources, Inc., Huntington, WV

As Project Manager and Senior Geologist, completed an extensive site assessment of all environmental media and evaluated human and ecological risk for purposes of completing a voluntary remediation project under the WV Brownfields Program. Project included sampling of soils, sediment, groundwater and surface water; preparation of contaminant distribution maps; fate and transport modeling of volatile organic vapors from groundwater and soils to surface structures; fate and transport modeling of groundwater contaminant discharge to an adjacent surface water body.

L. Lee McCoy, Jr., P.E.
Senior Engineer/Civil Engineering Manager

EDUCATION

B.S. Civil Engineering
1996
West Virginia Institute of Technology,

REGISTRATIONS AND LICENSES

Professional Engineer
Certified Flood Plain Manager
No. 14731 West Virginia
No. 25932 Kentucky
No. 73186 Ohio

DIRECT WORK EXPERIENCE AND PRIMARY RESPONSIBILITIES

Triad Engineering, Inc. St. Albans, WV	Civil Engineering Group Manager/Senior Engineer 2006 - Present
Buchart Horn, Inc., Charleston, WV	Senior Engineer 2003 - 2006
City of Charleston, Charleston, WV	City Engineer 2001 - 2003
Benatec Associates, Hurricane, WV	Engineer III 1999 - 2001
Chester Engineers, Huntington, WV	Engineer I 1996 - 1999

CURRENT POSITION RESPONSIBILITIES

Mr. McCoy is currently the Department Manager for our Civil/Transportation Design Section and a Project Manager for the St. Albans office of TRIAD. In this capacity, he is responsible for the oversight of our civil engineering staff as well as the technical and management aspects of civil design and transportation projects within the office. Mr. McCoy has designed and managed projects in numerous disciplines including civil, structural and transportation engineering, site development, planning and surveying. These projects have included streets/highways, bridges, retail/commercial site preparation, airports, parking lots, buildings, retaining walls/foundations, sanitary structures, as well as recreational facilities. Duties included field surveying, drawings and specification preparation, design, design drafting, construction inspection, quality control testing, shop drawing review, project management, contract administration and report preparation.

PROFESSIONAL ORGANIZATIONS/ASSOCIATIONS

American Society of Civil Engineers
Society of American Military Engineers
Association of State Flood Plain Managers (ASFPM)

PROJECT EXPERIENCE SUMMARY

West Virginia Department of Transportation, Division of Highways, Charleston, WV American Church Bridge Replacement, Delbarton, WV

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

Corridor H, U.S. 48 – Scherr, WV

Project Manager and lead roadway designer for 2.25 miles of 4 lane divided highway in Grant County, WV. This project included managing structural engineers, geotechnical engineers, surveyors, other roadway engineers, and designers. Worked closely with West Virginia Department of Transportation personnel as well as local residents during the highways design through the environmentally sensitive Greenland Gap area.

Hobet Mining, LLC – Madison, WV

Performed design of roadway, drainage, and pavement for the relocation of Boone County Route 9 near Madison, WV.

Loves Country Stores – Ripley, WV

As Project Manager and Lead Designer, Mr. McCoy prepared construction documents for the construction of a truck stop/travel store in Ripley, WV. This project includes grading, drainage, roadway expansion, parking lot design, as well as many other aspects.

Putnam County Office of Planning and Infrastructure, Putnam County, WV

Contracted to Putnam County as Putnam County Engineer. In this position, Mr. McCoy performs site and building reviews and inspections countywide, for West Virginia's second fastest growing county.

Devonshire Development, Scott Depot, WV

As Project Manager and Lead Engineer, Mr. McCoy, is responsible for the project design and construction administrative services for a large resort style mix use residential development located in Scott Depot, WV. This development consists of apartments, townhouses and condominiums, state-of-the-art 6500 sq ft clubhouse as well as swimming pools, Jacuzzis, sport courts, tot lots, and dog exercise areas. This project includes grading, drainage, permitting, parking lot design, as well as many other aspects.

WVDEP, Division of Abandoned Mine Land & Reclamation, various locations

As Project Manager and Lead Engineer, Mr. McCoy has been responsible for numerous AML&R designs throughout southern West Virginia. These designs have included grading, drainage, sealing of mine portals (wet & dry), and all aspects related to the closure and reclamation of pre-law mining sites.

Pendleton County Commission - Franklin, WV

Project Manager and lead designer for a park project near Ruddle, WV. This park includes baseball fields, jousting field, parking facilities, exercise trails, and concession building. Mr. McCoy also managed the preparation of construction documents and aided in the bidding of the project. 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 Manger, was also responsible ensuring that the site was able to acquire United States Corps of Engineers Permitting due to sensitive flood plain issues.

James R. (Bo) Criniti, Jr.
Staff Engineer

EDUCATION

B.A. Chemistry	WVU, Morgantown, WV 1995
B.S. Civil Engineering	WVUIT, Montgomery, WV, 2008
F.E. Examination	October 2009

DIRECT WORK EXPERIENCE AND PRIMARY RESPONSIBILITIES

Triad Engineering, Inc. St. Albans, WV	Staff Engineer 2008 to Present
Dow Chemical Charleston, WV	Laboratory Technologist 1999 to 2005
Clearon Corp., South Charleston, WV	Quality Assurance Technician 1997 to 1999
Custom Contracting Elkview, WV	General Contracting Foreman 1996 to 1997

PROFESSIONAL ORGANIZATION/ASSOCIATIONS

American Society of Civil Engineers Member

CURRENT POSITION RESPONSIBILITIES

Mr. Criniti is responsible for Staff Support of civil and surveying projects. He has participated in the design and management of numerous projects. These projects have included retail/commercial site preparation, airports, parking lots, buildings, retaining walls, foundations, sanitary structures, as well as boundary and topographic and photogrammetric surveys. Duties have included hydrologic and hydraulic analysis and design, erosion and sediment control plans, storm water management, field surveying, preparation of construction and as-built drawings, project specifications and preparation of various permit applications. Mr. Criniti also performs construction management, construction inspection, quality control testing, shop drawing review, project management, contract administration, and report preparation. He performs engineering calculations, studies, plans, reports and data analysis, all under the supervision of a licensed engineer. Mr. Criniti assists in the coordinating of construction projects including conducting pre-bid, pre-construction and progress meetings, schedule review and pay request review and approval. He also assists in conducting interim and final inspections of construction projects to determine compliance with applicable laws, regulations, and specifications.

PROJECT EXPERIENCE SUMMARY

City National Bank – Construction Administration Services, WV

This project consists of a state wide contract to provide construction administration services for City National Bank on bank loans for commercial construction projects. On this project Mr. Criniti is responsible for performing periodic job site inspections of work progress, reviewing contractor pay requests, monitoring project schedules as they pertain to percent completion and pay requests, and conducting periodic progress meetings.

Devonshire Housing Development, Scott Depot, WV

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.

BB&T Facility Beckley, WV

As a Staff Engineer, Mr. Criniti has been involved in and is responsible for the drainage design and permitting for this branch bank facility. In this capacity he has to coordinate with the project architect, local municipalities, the WVDOH and the project developer. Work on this project included, utility routing, storm drainage design, storm water management design and preparation of WVDOH 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.

Washington Nile, Clay Local School District and Portsmouth Athletic complex , Various, Ohio

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.

Tolsia Athletic Fields, Fort Gay, West Virginia

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

Joseph Young, ASLA
Landscape Architect

EDUCATION

BSLA, Landscape Architecture West Virginia University, WV, 1989

REGISTRATIONS AND LICENSES

Registered Landscape Architect West Virginia & Ohio

DIRECT WORK EXPERIENCE AND PRIMARY RESPONSIBILITIES

Triad Engineering, Inc., Project Manager/Landscape Architect
St. Albans, WV 2003 - Present

Edwards and Kelcey, Project Manager/Landscape Architect
Charleston, WV 2000 - 2003

Environmental Design Group, Project Manager/Landscape Architect
Charleston, WV 1997 - 2000

The Siebenthaler Company, Project Manager/Landscape Architect
Dayton, Ohio 1996 - 1997

Woolpert LLP, Landscape Architect
Dayton, Ohio 1990 - 1997

PROFESSIONAL ORGANIZATION/ASSOCIATIONS

West Virginia Recreation and Park Association (WVRPA)
American Society of Landscape Architects (ASLA)

CURRENT POSITION RESPONSIBILITIES

Mr. Young currently serves as Landscape Architect for the St. Albans branch of TRIAD. In this capacity, Mr. Young brings nineteen years of experience on a diverse range of projects covering all aspects of landscape architectural design and planning in both the public and private sector. Mr. Young's experience includes but is not limited to park and streetscape design, resort and campus master planning, subdivision layout, landscape and hardscape design, grading and earthwork calculations, construction detailing, specifications, estimating, and project management. Mr. Young also performs Project Management on related projects, and has been involved in planning projects for national and international military bases, pocket parks, 5,000 acre reserves, large downtown streetscapes, subdivision layout and design, and campus master plans for many college and universities.

PROJECT EXPERIENCE SUMMARY

Washington Nile Local School District, West Portsmouth, Ohio

The project consists of the development of an middle school on an existing high school and elementary site. The new addition will occupy the area now being used as an football practice field and open play area. Site features included the development of a new circulation and parking system, the placing of the building for appropriate sun orientation, 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. Client: Tanner Stone & Company Architects

Clay Local School District, Portsmouth Ohio

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. Client: Tanner Stone & Company Architects

King's Daughters Medical Center Medical Office Building Ashland, Kentucky

Triad provided site civil engineering services as well as landscape architectural services for 3 Medical Office Building in Southern Ohio and Eastern Kentucky. Triad worked with a project team headed by the Architect and the owner, to develop a complete comprehensive set of construction drawings. This project involved optimizing the available property to accommodate the medical office building and parking areas that improved circulation on the site to allow for a patient drop-off area at the front of the building. Services provided by Triad included preparation of construction documents and details including site grading and drainage features, landscaping to compliment the architecture of the building and local and state permits. Owner: Kings Daughter Medical Center, Howard Harrison, Director of Facilities

St. Albans Streetscape, St. Albans, WV

Triad Engineering, Inc. was recently selected by the City of St. Albans to design the new gateway and streetscape improvements to the downtown area. Services included the preparation of a master plan, construction documents, and construction administration. The streetscape included parking improvements, landscape improvements, reduction of pedestrian and vehicular interaction, period lighting upgrades, concrete sidewalks with clay pavers, street furniture, and the creation of a gateway sequence into the downtown area.

White Sulphur Springs Streetscape Improvement Project, White Sulphur Springs, WV

Prepared a master plan and streetscape construction documents for a 3 block area of downtown White Sulphur Springs WV. The streetscape included 60 degree angled parking, the installation of trees, concrete sidewalks with clay pavers, ornamental streetlights and miscellaneous street furniture. Project Manager, City of White Sulphur Springs.

Wolf Point Park, Ashland, KY

A 65 acre site near Ashland Kentucky will be the future site of an instructional baseball and sports academy for the local community. The park will have a 40,000 square foot multi-purpose indoor facility that will be able to be used for baseball, soccer, gymnastics and weight training. There will also be 4 Little League fields with a central concession / restroom and scorers area and 4 Babe Ruth fields with a central concession / restroom and scorers area. All fields will be lit to maximize the play and instructional time. The park will also have a walking/fitness trail and parking for 600 cars.

Parviz J. Jalali, P.E.
Senior Project Engineer Geotechnical

EDUCATION

BA, Civil Engineering	Tehran Institute of Technology, 1973
BS, Civil Engineering	West Virginia Institute of Technology, 1979

REGISTRATIONS AND LICENSES

Registered Professional Engineer	West Virginia
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DIRECT WORK EXPERIENCE AND PRIMARY RESPONSIBILITIES

Triad Engineering, Inc. St. Albans, WV	Senior Engineer 1991- present
Triad Engineering St. Albans, WV	Project Engineer 1988- 1991
Triad Engineering St. Albans, WV	Staff Engineer 1980- 1988
Rahyar Engineering Consultants, Inc Tehran, Iran	Staff Engineer 1975- 1976

CURRENT RESPONSIBILITIES

As a senior geotechnical engineer, Mr. Jalali is responsible for geotechnical engineering analysis and design, preparation of geotechnical engineering reports and logging and inspection of soil and rock borings. Mr. Jalali has developed a specialized permeability testing program to facilitate design of a suitable clay liner for a large hazardous waste impoundment designed by TRIAD. Mr. Jalali operates our in-house computers for slope stability analysis, quantity determinations, and computer aided design drafting. Mr. Jalali supervises the project team for geotechnical and geologic studies for all highway related projects. Duties include design and implementation of the subsurface investigation, assignment of laboratory testing, approval of design drawings and technical specifications.

PROJECT EXPERIENCE SUMMARY

Appalachian Corridor "H", Hardy County, WV

TRIAD has performed geotechnical and surveying services as a sub consultant for several sections of Appalachian Corridor H. One of the larger sections was for Section 4, located between Baker and Wardesville in Hardy County. This length of Appalachian Corridor H mainline included approximately 12,270 meters. As part of the mainline, six bridges were proposed to carry the new alignment over WV 55 & 259, Lost River (at three locations), Sauerkraut run and Trout Run. This work was accomplished for the design firm.

The geotechnical investigation consisted of a geological study for the region, drilling a total of 274 roadway borings and 254 structure borings, full-time field inspection of the drilling activities, laboratory testing of the soil/rock samples, preparation of boring logs, cut slope/bench recommendations for the proposed cut areas, slope stability analyses/evaluation for all proposed fill areas, detailed foundation recommendations (shallow and/or deep) for abutment and piers for the six proposed bridges, and preparation of complete geotechnical reports for the mainline and bridges.

Coalfields Expressway, Sophia, WV

As the senior geotechnical engineer on this project, Mr. Jalai oversaw all geotechnical aspects of the project including developing a boring layout based on the project cross-sections provided by the client. His work included supervision of work of field inspectors during the subsurface investigation. Mr. Jalai supervised the design of cut and fills slopes, performed settlement calculations for embankment fills, estimated shrink/swell factors for excavated materials, and tabulated probable sources of select embankment. After the original subsurface investigation and geotechnical report was completed, the WVDOT decided to extend the project 800 ft. in an attempt to balance borrow and waste. A recall boring list was developed in order to continue the project.

King Coal Highway, Mercer County, WV

As the senior geotechnical engineer on this project, Mr. Jalai oversaw the lead inspector as he worked in the field during the subsurface investigation and logging soil and rock. Designed and implemented cut and fill slopes, performed slope stability analyses on critical embankment fills, oversaw settlement calculations for embankment fills, estimated shrink/sell factors for excavated materials, and tabulated probable sources of select embankment. Supervising and approval of all geotechnical reports for the project, including three bridges (Bridge Nos. 10084, 10085, and 10086) which included foundation recommendations and bearing capacity computations for each of the bridge abutments and piers.

West Virginia Route 9, Jefferson and Berkeley Counties, WV

As the senior geotechnical engineer Mr. Jalai supervised the inspectors and reviewed the logging of all soil and rock from bore holes and controlled the involved drill rigs. Oversaw the design and implementation of cut and fill slopes, slope stability analyses on critical embankment fills, the estimated shrink/sell factors for the excavated materials, and the tabulations of probable sources of select embankment.

Steven A. Clark, P.S.
Survey Supervisor

EDUCATION

High School Diploma
Surveying and Mapping Course

East Bank High School, 1972
Carver Career Center, 1972

REGISTRATIONS AND LICENSES

Licensed Professional Surveyor
Certified Black-Hat Coal Miner
Certified 40 Hr HAZWOPER (OSHA 29 CFR 1910.120)

WV, 2003
WV, 1985
OSHA, 2001

DIRECT WORK EXPERIENCE AND PRIMARY RESPONSIBILITIES

Triad Engineering, Inc.,
St. Albans, WV

Survey Supervisor
1999 - Present

Triad Engineering, Inc.,
St. Albans, WV

Party Chief
1991 - 1999

A. D. Whitaker Construction Co.,
Ashland, VA.

Party Chief
06/90 - 9/91

H.A. Durdan & Assoc.,
Jacksonville Beach, FL.

Instrument man/Party Chief
1985 - 1990

PROFESSIONAL ORGANIZATIONS/ASSOCIATIONS

West Virginia Society of Professional Surveyors. Member

CURRENT POSITION RESPONSIBILITIES

Mr. Clark is currently the Survey Supervisor for the St. Albans office of TRIAD. In this capacity, he is responsible for the supervision of the survey crews, overseeing the field work through drafting to the finished product delivered to the client, meeting with clients, and performing field work on large and complex projects. Mr. Clark is experienced in underground surveying, construction layout, boundary and road work surveying, photogrammetric and topographic surveying. Mr. Clark has supervised and/or performed survey work on various types of work including both underground and surface mine surveying for coal mine facilities, site surveys and construction layout for landfill facilities, site surveys and right of way plans for WVDOH highway projects, and site surveys and construction layout for site development projects. Mr. Clark has been involved in survey projects in several states including West Virginia, Florida, Virginia, and Ohio. In his supervisory capacity, Mr. Clark is responsible for schedules, project budgets, and the overall coordination of all survey projects. He works with all levels of engineering staff, the overall project team, and the project owner to produce a quality work product which satisfies all project requirements.

PROJECT EXPERIENCE SUMMARY

Cadastral/Boundary Retracement Surveys –

Mr. Clark was responsible for surveys for Beazer Site Boundary, Weirton, WV; Grundy Boundary Tracts- USACE Huntington District; Martin County KY Boundary Tracts- USACE Huntington District; Paint Creek Boundary- USACE Huntington District

Dam Monitoring and Instrumentation Surveys

Mr. Clark has experience with the precise surveys required for periodical checks for movement at a large number of the flood control projects and inland navigation structures inside the Huntington District of the USACE. These surveys have required precise measurements to be made by GPS, Robotic Total Stations and Digital Levels. This data for the following projects has been processed utilizing the least squares adjustment method and compared to previous observations to check for movement:

- 2008 Capt. Anthony Meldahl Locks and Dam-USACE Huntington
- 2008 Willow Island Locks and Dam-USACE Huntington District
- 2007 Dover Dam-USACE Huntington District
- 2009 Charles Mill Dam-USACE Huntington District
- 2009 North Branch of Kokosing Dam-USACE Huntington District
- 2009 Pleasant Hill Dam-USACE Huntington District
- 2009 Mohicanville Dam-USACE Huntington District
- 2009 Pavonia Levee-USACE Huntington District
- 2009 Charles Mill Lake Dikes 1 and 2-USACE Huntington District
- 2009 Mohicanville Dikes 1 and 2-USACE Huntington District
- 2009 Nashport Dike of Dillon Lake-USACE Huntington District
- 2009 Pleasant Valley Dike of Dillon Lake-USACE Huntington District
- 2009 Silica Sands Levee of Beech City Lake-USACE Huntington District-
- 2009 Deer Creek Dam-USACE Huntington District
- 2009 London Locks and Dam- USACE Huntington District
- 2009 Winfield Locks and Dam- USACE Huntington District
- 2009 Racine Locks and Dam- USACE Huntington District
- 2009 Pleasant Hill Dam-Auxillary Fuse Plug Dike- USACE Huntington District

Airport Facilities, Various Airports throughout West Virginia

In both the supervisory and surveying role on these projects, Mr. Clark is responsible for the generation of site surveys and property boundary surveys to be used in the planning and design of airport facility expansion and upgrade. These surveys include locating all physical and topographic features, utility locations, storm drainage features, and property boundary lines. He works directly with our Senior Airport Engineer to obtain all necessary survey information required to generate a thorough and accurate existing conditions map. Steve has also supervised and performed construction layout on these projects that require extreme accuracy to meet the needs of the local airport operator and the Federal Aviation Association. Notable airport projects include: Summersville Airport - Summersville, WV, Wood County Airport - Parkersburg, WV, Tri-State Airport - Cabell County, and Yeager Airport in Charleston, West Virginia.

WVDOH Highway Projects, Various Highway Engineering Consultants

Mr. Clark's expertise includes several WVDOH projects for various highway consulting engineering firms. He is responsible for the generation of site surveys and property boundary surveys to be used in highway planning and design. These surveys include locating all physical and topographic features, utility locations, storm drainage features, and property boundary lines. He is also responsible for supervising and coordinating other necessary work to perform these surveys including courthouse research and interaction with all existing property owners to complete property questionnaires for right of way acquisition. He has also supervised and performed construction layout on highway projects including bridge and structure layout. Some notable highway design projects include: Corridor D - Parkersburg, WV, I-64 Widening - Kanawha County, WV, Veterans Bridge - Clarksburg, WV, and Route 10 Upgrade - Logan County, WV.

Theodore E. Lemaster
Engineering Technician IV

EDUCATION

South Point High School - 1986
Lawrence Co. Joint Vocational School- 1986

DIRECT WORK EXPERIENCE AND PRIMARY RESPONSIBILITIES

Triad Engineering, Inc., St. Albans, WV	Construction Manager 2008-present
C. J. Hughes Construction Co. Huntington, WV	Crew Leader/Laborer 2006-2008
Bill Enyart & Son's Construction Co. South Point, OH	Laborer 2004-2006
Luther Construction Ashboro, NC	Foreman 2001-2004
PSB Builders Knoxville, TN	Laborer 1999-2001

CURRENT POSITION RESPONSIBILITIES

Mr. Lemaster is currently a Construction Manager for the Civil/Utility Group in the St. Albans office of TRIAD. Mr. Lemaster brings over 11 years of construction experience. Duties in this role include construction of numerous water and wastewater projects, obtaining rights-of-way, surveying, supporting senior level engineers with the design and layout of water and wastewater systems, and Quality Assurance/Quality Control including the constructability of water and wastewater projects.

In addition to the above mentioned duties, Mr. Lemaster assists the project manager in project scheduling, coordination, budget management, client interaction, and project team coordination. Mr. Lemaster assists in preparation of proposals and estimates on larger, long term projects, and also assists in specification preparation, design, design drafting, construction inspection, quality control testing, shop drawing review, permitting and report preparation. Mr. Lemaster completes calculations, studies, plans, reports, and data analysis, all under the supervision of a licensed engineer. Mr. Lemaster assists in the coordinating of construction projects and in conducting interim and final inspections of construction projects to determine compliance with applicable laws, regulations, and specifications.

PROJECT EXPERIENCE SUMMARY

Branchland-Midkiff Public Service District, Lincoln County, West Virginia

Mr. Lemaster has provided *Branchland-Midkiff Public Service District* with preliminary field work such as layout and design, easement acquisition, and location of existing infrastructure. Mr. Lemaster is assisting in the completion of plans and specifications for Fourteenmile, Tenmile, and Miscellaneous Road waterline extensions. Fourteenmile Waterline Extension Project - Project consists of approximately 70,000 feet of 8-inch to 2-inch PVC C-900 water pipe, upgrade to an existing pump station, one new booster pump station, two 150,000 gallon water storage tanks, fire protection and other appurtenances. Tenmile Waterline Extension Project - Project consists of approximately 52,500 feet of 8-inch to 6-inch PVC C-900 water pipe, one new booster pump station, one 50,000 gallon water storage tanks, fire protection and other appurtenances. Miscellaneous Roads Waterline Extension Project - Project consists of approximately 55,000 feet of 8-inch to 6-inch PVC C-900 water pipe, two new hydropneumatic tanks and pump stations, and other appurtenances.

Town of Mason, Mason County, West Virginia

Projects have included the location and mapping of existing utilities. Work consisted of various permitting activities, developing specifications, field visits, and computer design. Projects consist of bringing potable water and fire protection to the community.

Town of Mason Phase I Project – Project consists of 26,000 feet of 2-inch to 8-inch water pipe, four sampling stations, two railroad crossings, and fire protection and other appurtenances. Mr. Lemaster also assisted with the writing of the Operation and Maintenance Manual for the Town of Mason.

Town of Mason Phase II Project – Project consists of upgrading several feet of old and undersized water pipe throughout the Town with new 6 inch PVC C-900, connecting old lines to the new 8 inch water main, and fire protection and other appurtenances.

Town of Milton West Virginia, Bill Enyart & Sons Construction Co.

Mr. Lemaster staked out and installed sewer lines and appurtenances, developed profiles and cutsheets, ran levels, and miscellaneous construction activities pertinent to the project. Mr. Lemaster was responsible for providing the necessary tools and equipment to the members of the construction crew as well as performing daily maintenance to the equipment.

City of Huntington West Virginia, C. J. Hughes Construction Co.

Mr. Lemaster performed construction layout for the 9TH Street Streetscape Project from demolition to reconstruction. Duties included determining subgrade elevations for street, sidewalk, and parking island removal, as well as construction layout for curb and sidewalk location and finish grades. Mr. Lemaster was also responsible for fabricating method of forming the compound angles and slopes for curbing on the project.

Boyd County Kentucky, C. J. Hughes Construction Co.

Mr. Lemaster staked out and installed sewer lines and necessary appurtenances to include manholes, ran levels, and miscellaneous construction activities pertinent to the project. Mr. Lemaster was responsible for providing the necessary tools and equipment to the members of the construction crew as well as performing daily maintenance to the equipment.

Various Construction Jobs located throughout North Carolina, South Carolina, Eastern Tennessee, Southern Virginia, Luther Construction, Ashboro NC.

Mr. Lemaster was responsible for all on-site aspects of construction projects which included steel building construction. Projects were located in North Carolina, South Carolina, Eastern Tennessee, and Southern Virginia. Duties Included maintaining the safety of work crews and visitors, foundation layout, building erection, quality of craftsmanship, and client satisfaction.

William T. Brooks, Jr.
Engineering Technician IV

EDUCATION

Marshall University
Fairmont State University

REGISTRATIONS / CERTIFICATIONS

American Concrete Institute: Concrete Field Quality Control, Grade 1 (1991)
WVDOT Certified Portland Cement Concrete Technician (1992)
WVDOT Certified Portland Cement Concrete Inspector (1998)
WVDOT Certified Aggregate Technician (1994)
WVDOT Certified Compaction Technician (1986)
WVDOT Certified Bituminous Concrete Technician (1991)
WVDOT Certified Hot-Mix Asphalt Inspector (1999)
Fairmont State University – TRET, Level III, Certification #2332 (2008)
National Institute for Certification in Engineering Technologies – Construction Materials Testing for
 Concrete, Soils, Asphalt (2001)
Construction QA of Geosynthetic Products for Environmental Control Facilities (1994)
US Army Corps of Engineers: Construction Quality Management for Contractors (2001)
Troxler Electronic Laboratories, Inc: Nuclear Gauge Safety Training (1981)
Troxler Electronic Laboratories, Inc: Troxler Radiation Safety Officer (1993)
Firstline Safety Management: OSHA Subpart L - Scaffolding (1998)
Firstline Safety Management: OSHA Subpart P – Excavation (1998)
Hazardous Waste Operations: OSHA Section 1910 Part 120(1988)
Hazardous Waste Operations: OSHA Section 1910 Part 120 – Supervisor Training (1991)
Hazardous Waste Operations: OSHA Section 1910 Part 120 Annual Refreshers (1991 – 2002)
Regulatory Training Center: OSHA Section 1926.650 Subpart P (2010)

DIRECT WORK EXPERIENCE AND PRIMARY RESPONSIBILITIES

Triad Engineering, Inc. Scott Depot, WV	Construction Inspector 2007 – Present
Triad Engineering, Inc. Scott Depot, WV	Construction Inspector / Senior Engineering Technician 1997 - 2007
Triad Engineering, Inc. Logan, WV	Field and Lab Services Manager 1995 – 1997
Triad Engineering, Inc. Scott Depot, WV	Assistant Field Services Manager 1992 – 1995
Triad Engineering, Inc. Scott Depot, WV	Senior Engineering Technician 1983 – 1992
Mid-Eastern Geotech Huntington, WV	Senior Engineering Technician 1981 – 1982
Connors Steel Huntington, WV	Chemistry Lab Technician 1979 – 1981

DIRECT WORK EXPERIENCE AND PRIMARY RESPONSIBILITIES (Continued)

Charleston Construction
St. Albans, WV

Concrete Batch Plant Technician
1977 – 1979

Donald F. Connelly, Co.
Eighty-Four, PA

Concrete Quality Control Technician
1973 – 1977

CURRENT POSITION RESPONSIBILITIES

Mr. Brooks observes work in progress to ensure conformance with specifications. He examines workmanship of finished installations for conformity to standards and inspects equipment operation and material on the job site. He interprets specifications as related to materials and workmanship and assumes responsibility of administering portions of the contract, which includes preparing change orders and pay requests. He receives occasional supervision from Project Manager or QC Services Manager. He may be assigned to work independently on a project with some complex features. He has demonstrated familiarity with various common job site conditions, problems encountered in assigned territory, and proper procedures for rectification and serves as owner/contractor/engineer liaison. He follows all safety procedures and maintains a driving record free of specific violations.

PROJECT EXPERIENCE SUMMARY

HIGHWAY/BRIDGE PROJECTS

Route 119 4-Lane Upgrade, Charleston to Williamson, WV
I-64, (New 4-Lane Construction) Sandstone to Sam Black Church
I-79, (New 4-Lane Construction) Mink Shoals
6th Street Bridge, Huntington, WV crossing the Ohio River to OH
Krout's Creek Bridge, I-64 at Huntington, WV
Holden Bridge, Route 119 at Holden, WV
Mud Fork Bridge, Route 119 at Logan, WV
Darnell Road Bridge, I-64 at Huntington, WV
Route 35 (New 4-Lane Construction) I-64 Exit #40 to Buffalo Bridge, WV

BUILDING CONSTRUCTION AND SITE DEVELOPMENT

Marriott Hotel, Charleston, WV
South Ridge Center, South Charleston, WV
Cabell Huntington Hospital Addition(s), Huntington, WV
Kinetic Park, Phase I: Site Development, Huntington, WV
Huntington Main Post Office, Huntington, WV
Marshall University (numerous buildings/sports facilities), Huntington, WV

INDUSTRIAL SITES

Consol Buchananon #1 Consol Mine (New Construction), Oakwood, VA
East Beckley WWTP (New Construction), Beckley, WV
Bradley WWTP (New Construction), Bradley, WV
Yeager Airport Concrete Pavement Upgrades, Charleston, WV
Yeager Airport – Air National Guard Concrete Pavement Upgrades, Charleston, WV
Goff Mountain Landfill Upgrades/Closure, Institute, WV
Big Run Landfill Expansion, Ashland, KY
Union-Rome WWTP (New Construction), Chesapeake, OH

UTILITY CONSTRUCTION

Mason Water System Improvements, Phase 1, Mason, WV
Belle Wastewater System Improvements, Belle, WV
Branchland-Midkiff PSD 14 Mile Water Extension and Storage Tank, Branchland, WV

FIRM/TEAM QUALIFICATIONS

Engineers—The engineers and landscape architect who will provide services for this project are registered professionals in West Virginia and are in good standing.

Professional Liability Insurance—Triad Engineering, Inc. carries Errors and Omissions Professional Liability Insurance through Architects and Engineers Insurance Company of Winchester, Virginia. Our coverage is \$ 2,000,000.00.

Experience and Expertise—We believe that the information under the *Experience* Tab will clearly show that Triad Engineering has extensive experience in civil site projects including parking issues and landscape architecture. After examining the materials provided, we think you will agree that those assigned to this project without a doubt have the expertise necessary to complete this project.

Capacity to Perform Project Scope—It is highly unlikely that Triad will need to subcontract out any portion of this project. We provide a full range of services in house including designing, surveying, drilling and testing, construction monitoring and right of way acquisition. As detailed later under this tab, our company currently has a staff of approximately 225 personnel located in seven offices. Your project will be accomplished by the capable staff of the nearby Saint Albans/Scott Depot, WV, Office. However, should the need arise, we can call upon the resources of any of our other six offices.

Work Product—Triad understands that any and all work produce as a result of this contract will become property of the West Virginia General Services Division and can be shared by the Division as deemed appropriate.

State Regulation Conformance—All of Triad Engineering Inc.'s designs conform with all local, State, and Federal regulations applicable to the project.

Litigation or Arbitration Proceedings - Triad Engineering Inc is not involved in any litigation involving Agencies of the State of West Virginia nor is it involved in any disputes with other Agencies of the State of West Virginia that involved legal representation by either party.

PROJECT ORGANIZATION

Company Background

TRIAD ENGINEERING, INC. (TRIAD) is a regional consulting firm based in West Virginia that provides professional services in the areas of civil, water and wastewater, environmental, mining, geotechnical and chemical engineering; site assessment; planning and landscape architecture; geology and hydrogeology; surveying and mapping; construction inspection; and related services. Our firm has provided services on many thousands of projects of varying size and complexity since its founding in Morgantown, West Virginia in 1975.

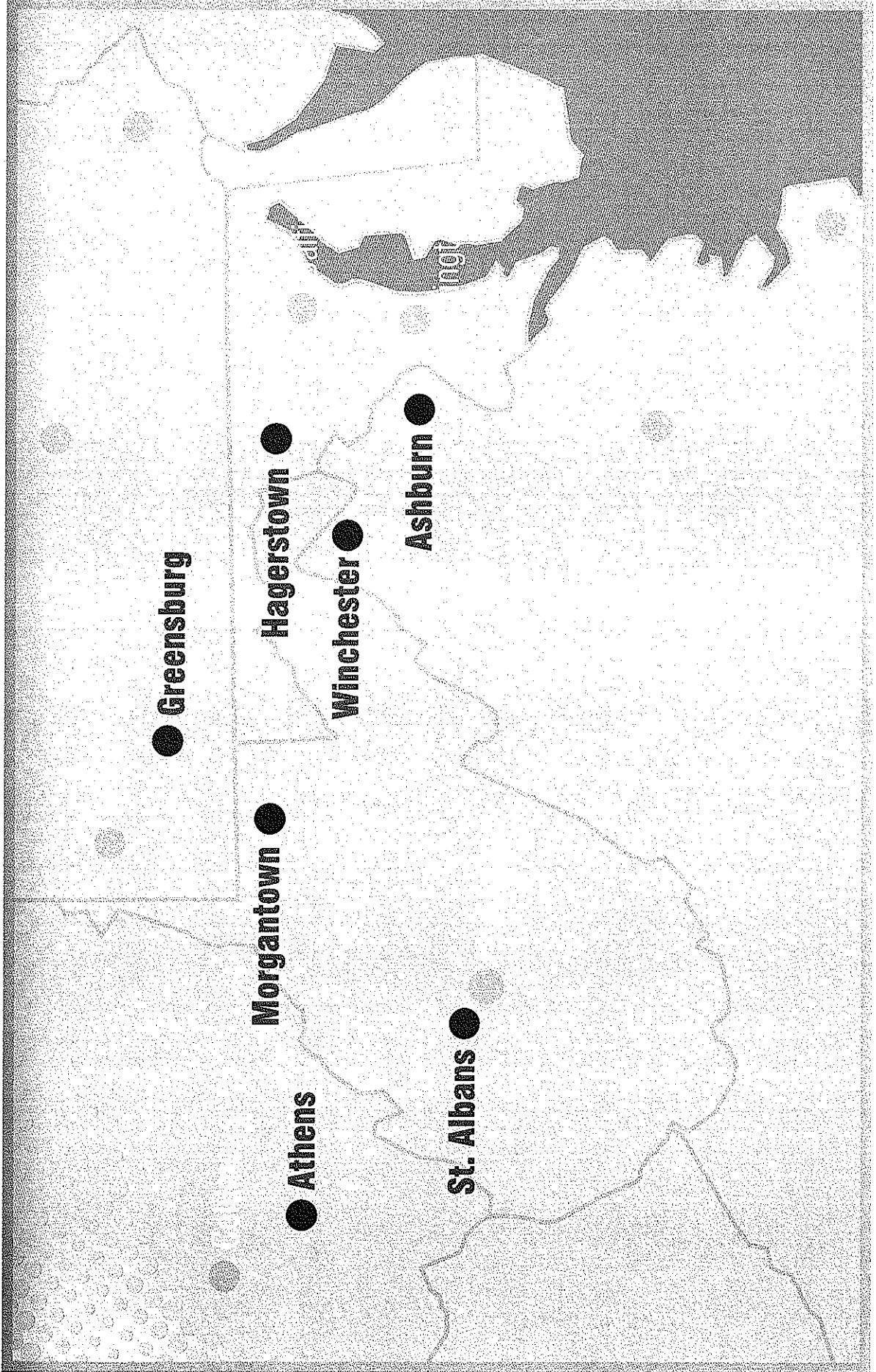
Through our over 35 years of service in West Virginia and surrounding states, both the number and complexity of these projects have grown. Our clients include Federal and State governmental agencies, mining and industrial corporations, contractors, architects, engineers, attorneys, developers, and commercial organizations.

Facilities and equipment available to support our staff have continued to evolve through the years to adapt to the changing needs of the market. Each of our offices contains computer facilities that are utilized for hydrogeologic evaluations, risk assessment, stability analyses, survey data reduction, mapping and site design. Our computer based drafting and reproduction facilities are used to develop detailed site plans, construction details, and other graphic documentation as required for our projects.

TRIAD currently includes a staff of approximately 225 personnel located in six offices. Our personnel include chemical, civil, environmental, geotechnical and mining engineers, as well as geologists and hydrogeologists, biologists, chemists, environmental scientists, planners, landscape architects, natural resource specialists, regulatory compliance specialists, permitting engineers, risk assessors and health and safety specialists.

Our technical support and administrative staff includes designers, draftsmen, surveyors, technicians, drillers, construction inspectors and clerical personnel. Most of our professional and technical staff have been with the company for many years. We pride ourselves on a very low turnover rate, which adds to continuity and enhances the level of productivity and experience afforded by TRIAD.

TRIAD has assembled a team of individuals with broad experience to bring an unmatched knowledge and expertise to your project. Professional staff assigned to this project will possess the necessary qualifications in their particular areas of expertise, and will work with you to ensure success.



PROJECT ORGANIZATION

TRIAD has assembled a team of individuals with broad experience to bring unmatched knowledge and expertise to your project. The professional staff who will be assigned to your project will possess the necessary qualifications in their particular areas of expertise, and will work with you and your staff to ensure success.

Lee McCoy, our Civil Site Group Manager, is a registered professional engineer in West Virginia, Kentucky and Ohio. He has over 13 years experience in civil site design which always includes development of storm water management plans as well as strictly storm water management projects. 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.

Joe Young is a registered Landscape Architect in West Virginia and Ohio. He has over 21 years of experience on a diverse range of projects covering all aspects of landscape architectural design and planning in both the public and private sector. Mr. Young's experience includes but is not limited to park and streetscape design, resort and campus master planning, subdivision layout, landscape and hardscape design, grading and earthwork calculations, construction detailing, specifications, estimating and project management.

Parviz Jalali is a registered professional engineer who joined Triad nearly 30 years ago. He is our senior geotechnical engineer who is responsible for geotechnical engineering analysis and design, preparation of geotechnical engineering reports and logging and inspection of soil and rock borings. He supervises the project team for geotechnical and geologic studies.

Steven A. Clark is a registered professional surveyor in West Virginia. He is a survey supervisor for Triad's Survey Department in St. Albans. He has managed and completed a wide variety of projects including cadastral boundary surveys, boundary records research, conventional horizontal and vertical control networks, geodetic control surveys, topographic surveys, hydrographic surveys and photogrammetry control surveys. He, along with a team of other professional surveyors and technicians, will quickly and efficiently handle any surveying requirements of this contract.

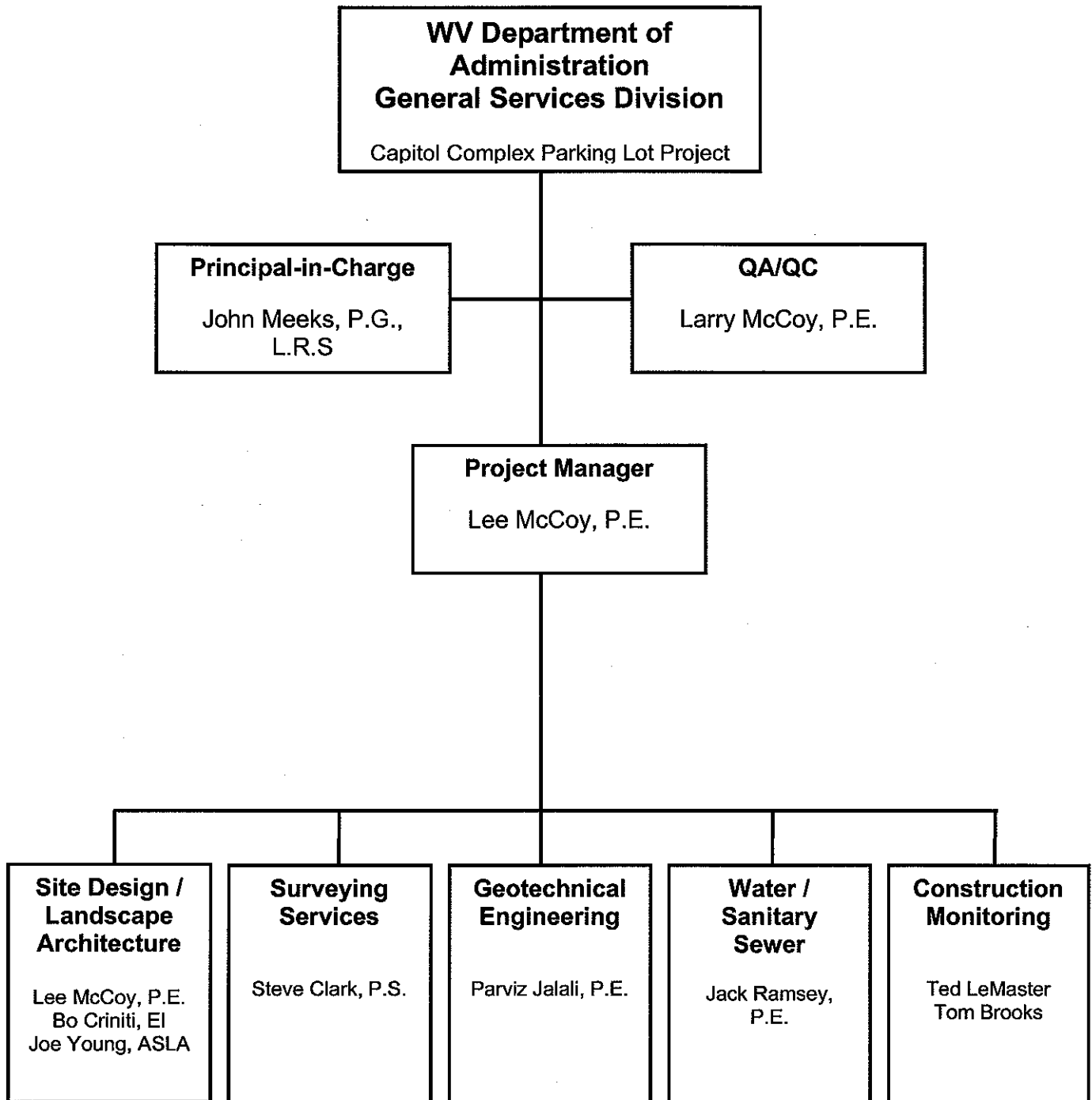
PROJECT ORGANIZATION

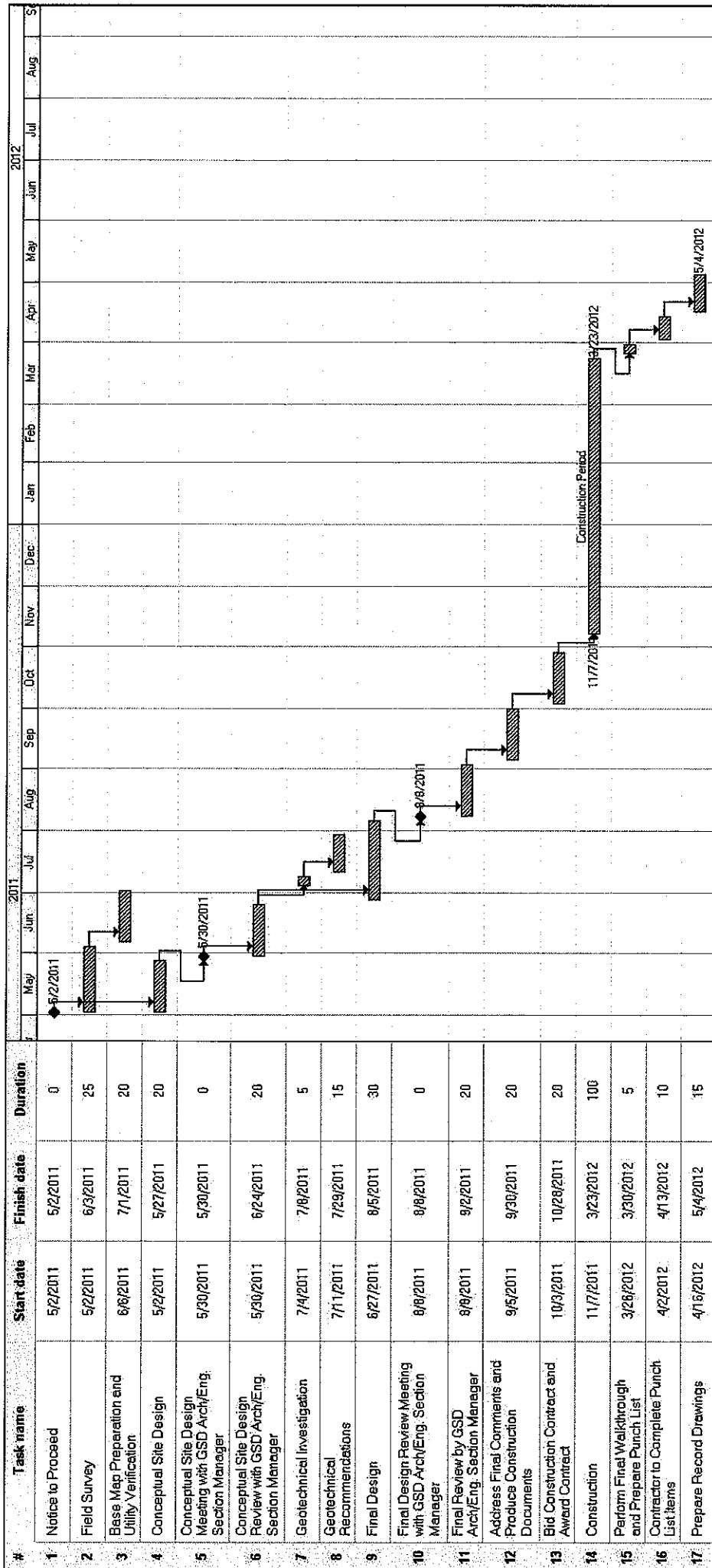
Jack Ramsey, our Utilities Group Manager, is a registered professional engineer in West Virginia, Virginia and Ohio. He has some 17 years experience in designing water, wastewater and storm water projects. He directs a group of engineers and technicians who prepare construction drawings and specifications for projects as well as inspectors and construction managers who see the projects through the construction phase.

Larry McCoy is a registered professional engineer in West Virginia and Pennsylvania. He will be performing quality assurance and quality control on this contract. He retired in 2002 from the U.S. Army Corps of Engineers after 33 years of service, the last 12 of which were as the Chief of the Civil Design Section, Design Branch. After his Corps service, he assumed the duties of the Director of Engineering and Construction for the Pittsburgh Water and Sewer Authority where much of the focus was on the many combined sewer outfalls in the Pittsburgh area. Since his arrival at Triad in 2006, he has served as a senior engineer in the Civil Department, preparing proposals, performing design as well as quality control and quality assurance duties.

PROJECT ORGANIZATION

ORGANIZATIONAL CHART





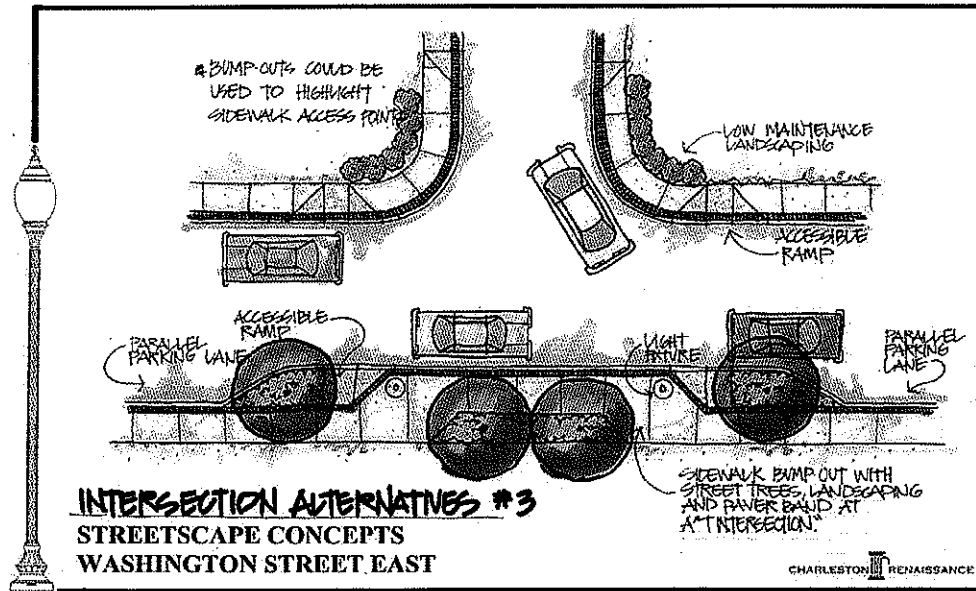
DEMONSTRATED EXPERIENCE

The table below provides supplemental information for the project data sheets that follow.

NAME	CONSTRUCTION COST	SIZE	OWNER	PHONE	COMPLETION DATE
Washington St Steetscape	\$700,000	1 Mile	Charleston URA	304 348 689	2003
Yeager Airport Upgrades	\$2,000,000	N/A	Central WV Region Airport Authority	304 344 803	Was not constructed
Devonshire	\$12,000,000	110 Acr	Cathcart Construct	434 872 028	Underway
East Hills Prof. Center	\$2,300,000	12 Acr	East Hills Development, LL	304 523 651	2009
6 th Avenue St. Albans	\$850,000	2000 L	City of St. Albans	304 722 006	2006
Boone Co. Sports Complex	Used County Work Force	20 Acr	Boone County Economic Dev Authority	304 369 911	Incomplete
Tournament Park	\$500,000	15 Acr	Pendleton County Parks & Recreation		2008
Welch River Front Park	\$1,300,000	1 Acre	City of Welch	304 436 311	2009
King's Daughter Med Ctr.	\$60,000,000	4 Bldgs	Kings Daughter M Ctr	606 408 461	2008
Marshall U Foundation	\$9,000,000	4.5 Acr	Travis Arey Neighborgall Con	304 525 518	2010
West Hill Development	\$1,500,000	10.5 A	Structures Resources, Inc	304 302 802	Underway



Washington Street Streetscape Charleston WV.



Prior to joining Triad Engineering Mr. Young was selected to design the streetscape improvements for a 1 mile section of Washington Street. The design connects Charleston's downtown district with the West Virginia State Capital Complex. The plan gave recommendation on site amenities such as benches, trash receptacles, lighting, bollards, sidewalk configurations and planting areas. After the competition and the approval of the design, Mr. Young prepared construction documents for a 3 block area of the design consisting of , landscape improvements, concrete sidewalks with clay pavers, period lighting upgrades, street furniture, and worked with local utility company's to relocate the overhead utilities.

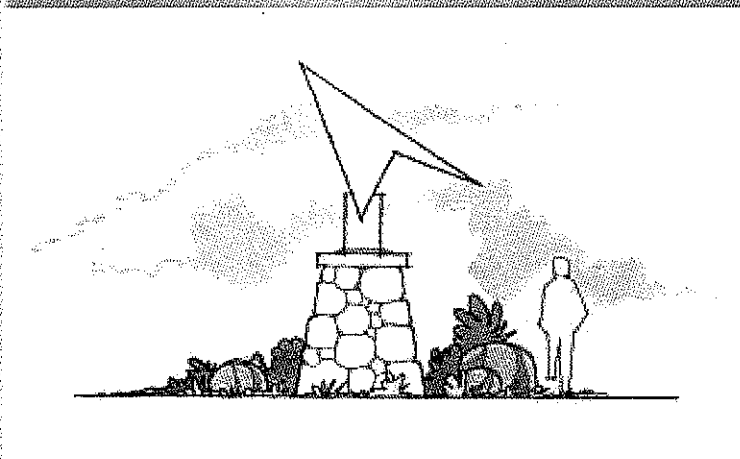
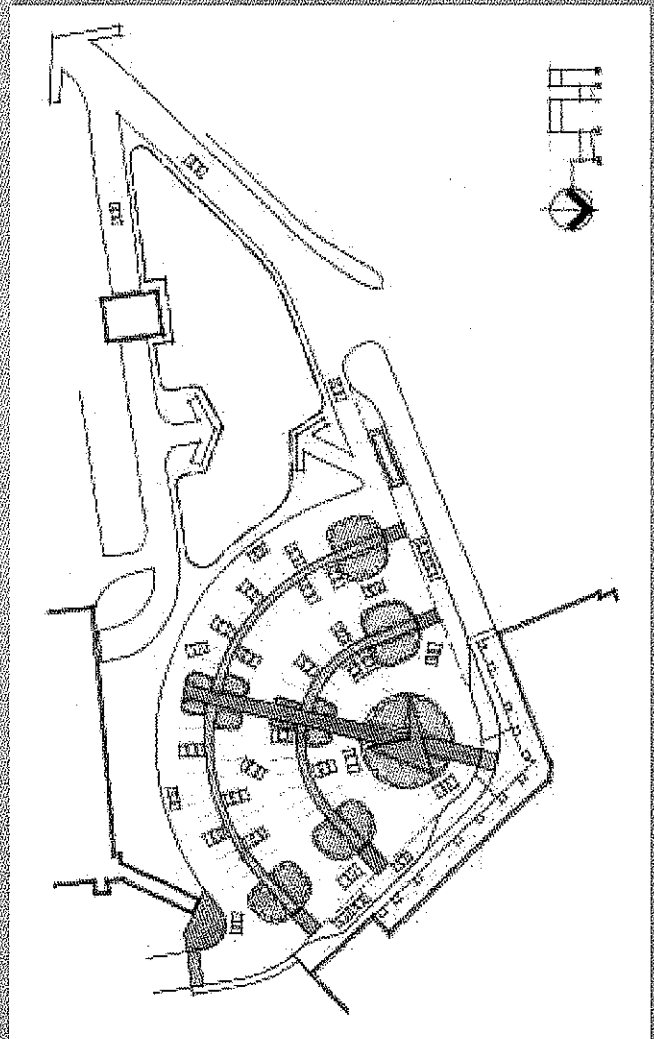
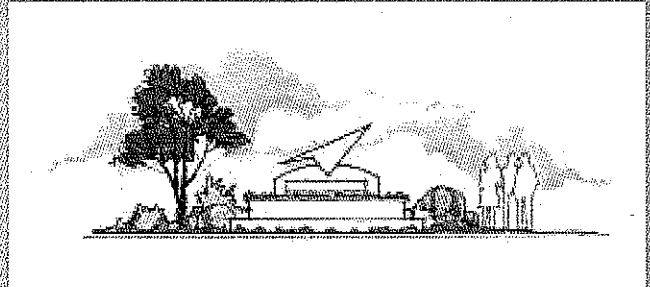
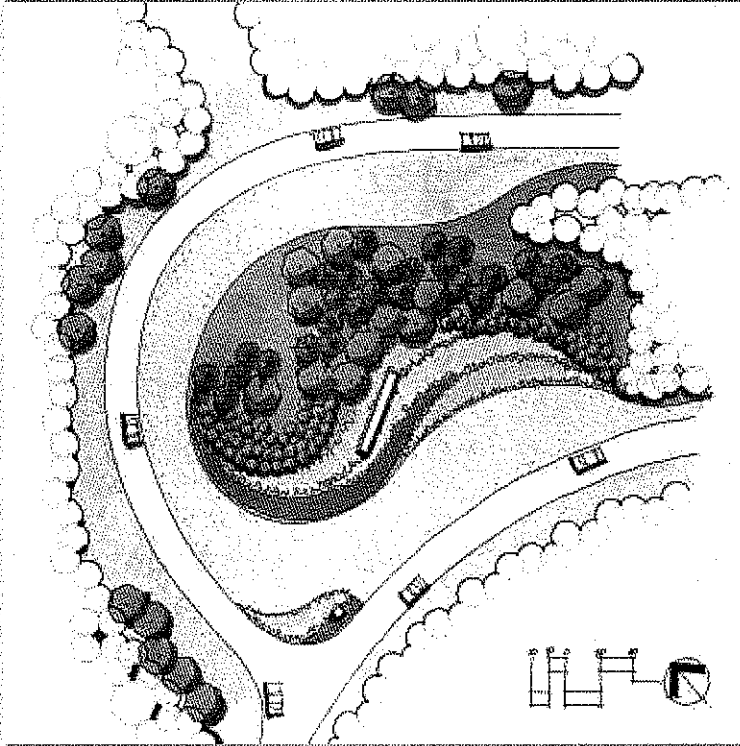
Yeager Airport Terminal Upgrades

Client: Central West Virginia Regional Airport Authority, 1.304.344.8033

Project Location: Charleston, West Virginia

Service Provided: Landscape Architecture

Project Cost: To be determined



Triad Engineering, Inc. was recently selected by Central West Virginia Regional Airport Authority to design improvements for signage updates, as well as the drop-off and short-term parking areas at the Yeager Airport Terminal. Services included the preparation of design plans for three key areas along the entrance drive as well as directional signage, plant massing and low native stone walls. The redesign of the drop-off/short-term parking area involved rethinking the traffic flow to meet the Homeland Security standard and the separation of pedestrian and vehicular circulation.

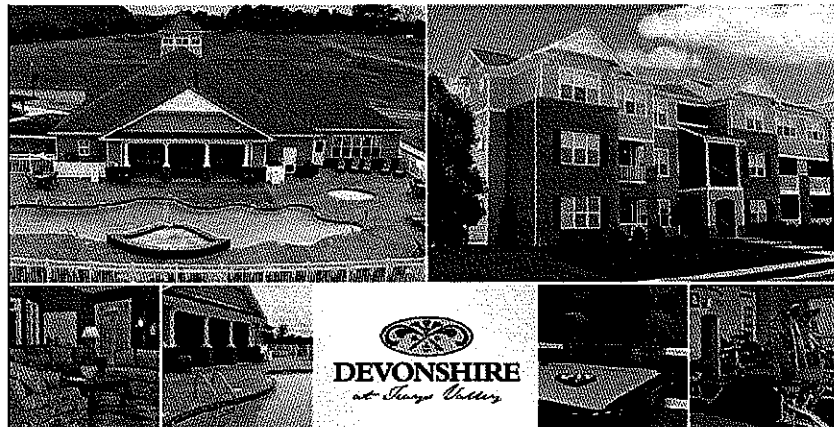
TRIAD



**Devonshire
Scott Depot, West Virginia**

TRIAD provided full civil engineering services including site development design for this project, which consisted of the construction and site development for a large luxury mixed-used residential development located in Scott Depot, WV. 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 foot 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.

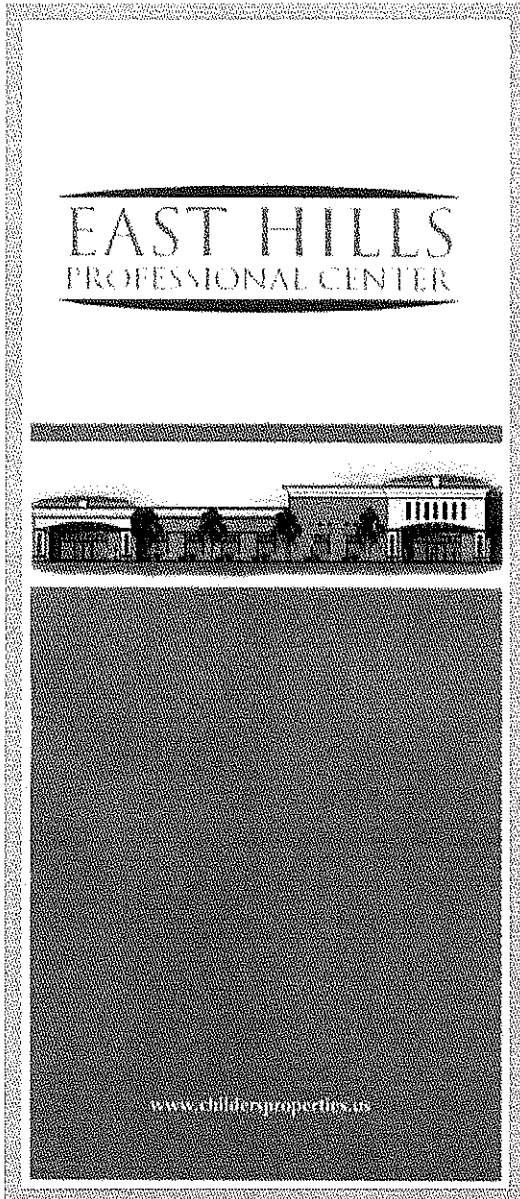


Services provided by TRIAD consisted of field surveying to generate a map of existing site and topographic features, geotechnical investigations to determine subsurface conditions to facilitate design of the building foundations and associated site work, design of all site grading and drainage features and storm water management features, and preparation of WV Division of Highways (WVDOH) encroachment permit and WV Department of Environmental Protection (WVDEP) construction storm water permits. The permitting phase of the project also included close coordination with the Putnam County, WV 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.

Cathcart Construction, LLC
1244 Swan Lake Drive
Charlottesville, VA 22902
(434) 872-0281



**East Hills Professional Center
Huntington, West Virginia**



TRIAD provided full civil engineering services including site development design for this project. The project included the construction and site development for commercial use of some 12 acres. The development consisted of the complete remodeling of interior and exteriors of a 186,000 square foot structure, the design of 2 stand alone structures as well as the redesign and improvement of site drainage and parking. Triad design 5 large retaining walls to greatly increase the onsite parking. TRIAD worked with a project team consisting of the architect, developer and future tenants/owners to create a complete comprehensive set of construction drawings. Site features included concrete and asphalt paving, sidewalks, curb and gutter, site utility routing and drainage structures.

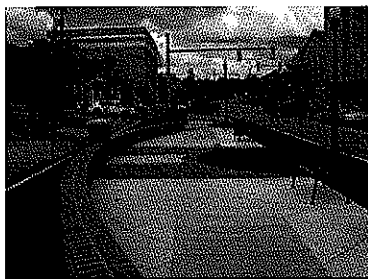
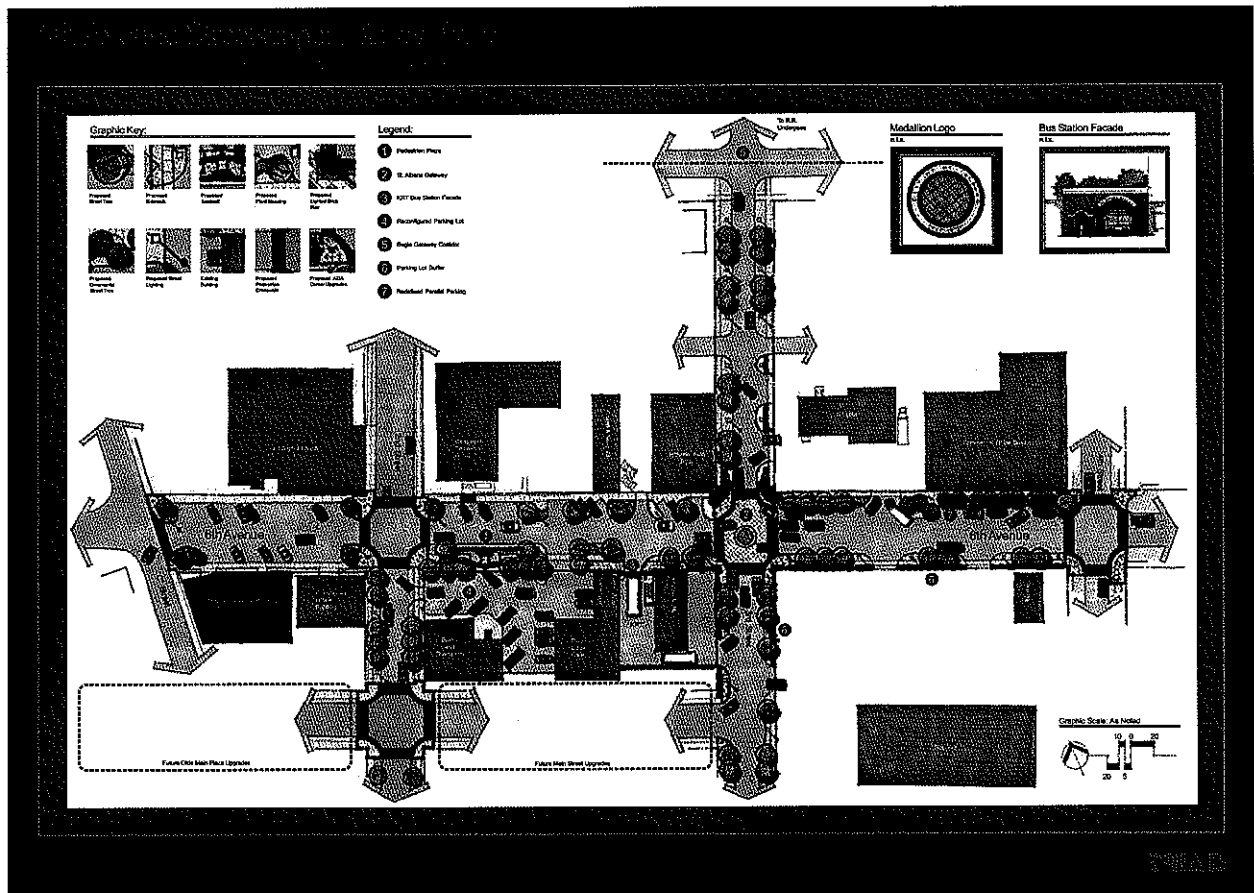
As with most site development projects, this project involved optimizing the use of available property to accommodate the commercial development and associated parking and access drives.

Services provided by Triad consisted of field surveying to generate a map of existing site and topographic features, an ALTA survey, a geotechnical investigation to determine subsurface conditions to facilitate design of the building foundations and associated site work, design of all site grading and drainage features, and preparation of West Virginia Division of Highways (WVDOH) encroachment permit and West Virginia DEP construction storm water permits

Client: East Hills Development, LLC. #, West Virginia 25705 (304) 523-6515



6th Avenue Streetscape Master Plan St. Albans, West Virginia

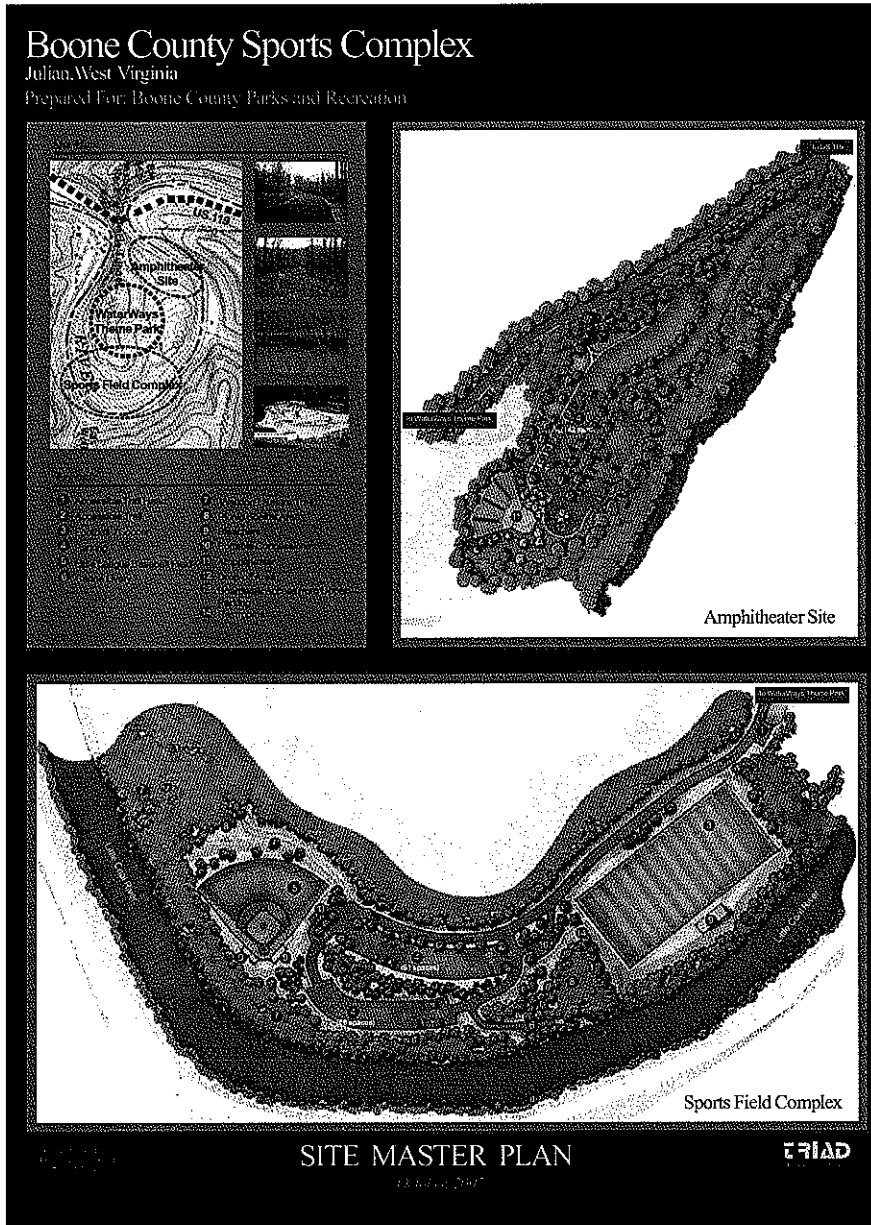


Triad Engineering, Inc. was recently selected by the city of St. Albans to design the new gateway and streetscape improvements to the downtown area. Services included the preparation of a master plan, construction documents, and construction administration. The streetscape included parking improvements, landscape improvements, reduction of pedestrian and vehicular interaction, period lighting upgrades, concrete sidewalks with clay pavers, street furniture, and the creation of a gateway sequence into the downtown area.

Client: The City of St. Albans, WV., 1.304.722.0065



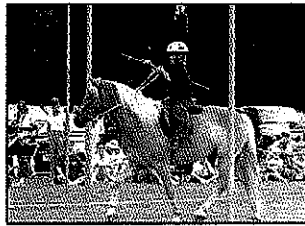
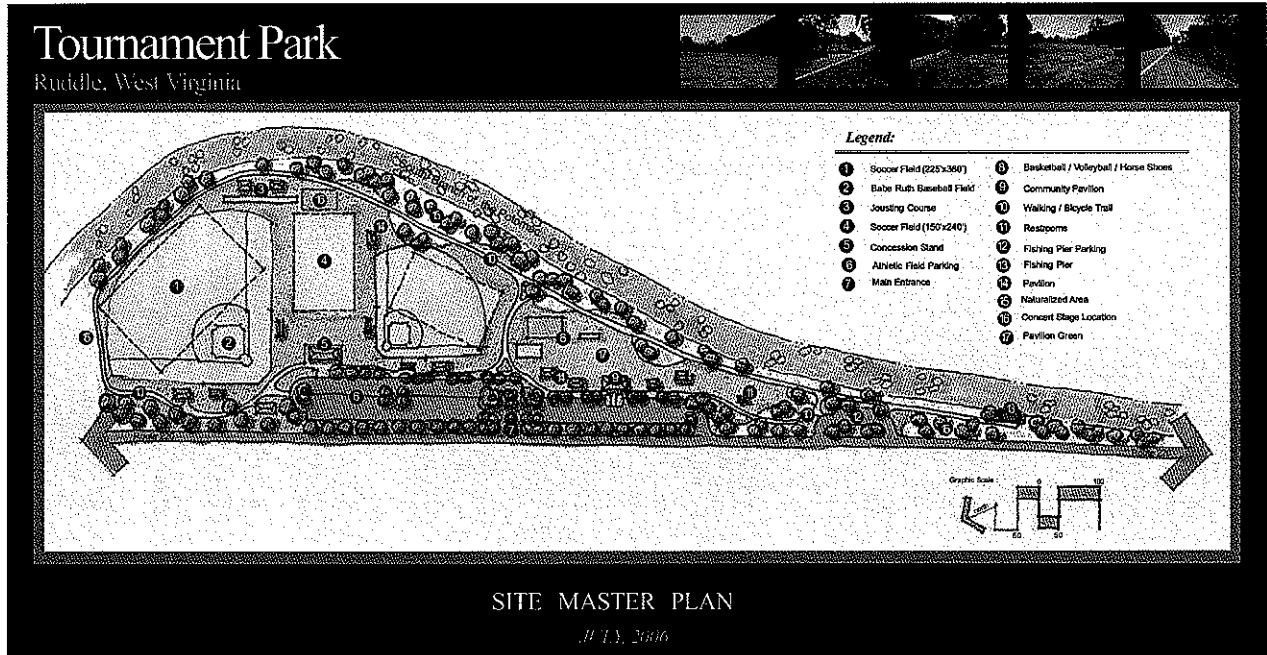
Boone County Sports Complex Julian, WV



Triad prepared a master plan and construction documents for this 20 acre site. The project involved the planning of a multipurpose field, baseball field, walking trail, canoe livery, restroom facility and a amphitheater. A detailed set of construction documents was completed upon approval of the master plan. The fact that most of this project was situated in the flood plain also presented many design and permitting challenges. We maximized the use of the floodplain while avoiding any increase in the flood risks.



Tournament Park Ruddle, West Virginia



A 15 Acre site near Franklin West Virginia will be developed into a community park. The park will have a multi-purpose sports fields that will be used for baseball and soccer. There will also be a jousting course that will be used during the local fall festival. Users of the park will also have access to a concession / restroom facility, walking / fitness trail, fishing access, and picnic shelters. The park will also have a information kiosk that will tell the history of the site as well as the surrounding community.

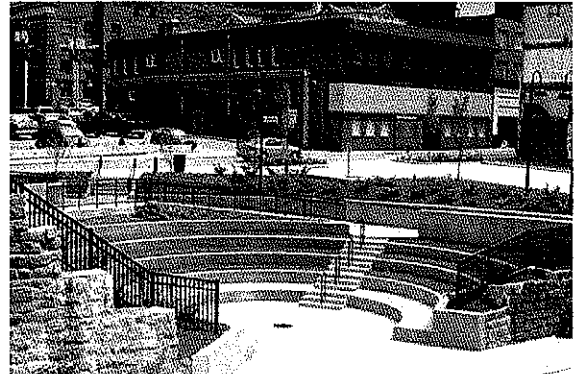
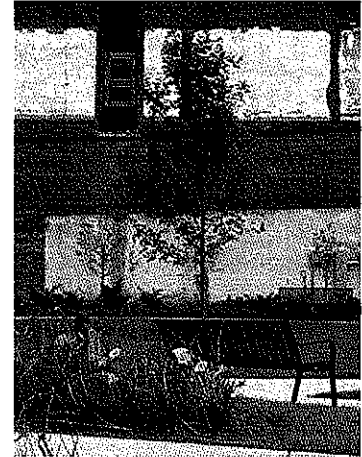
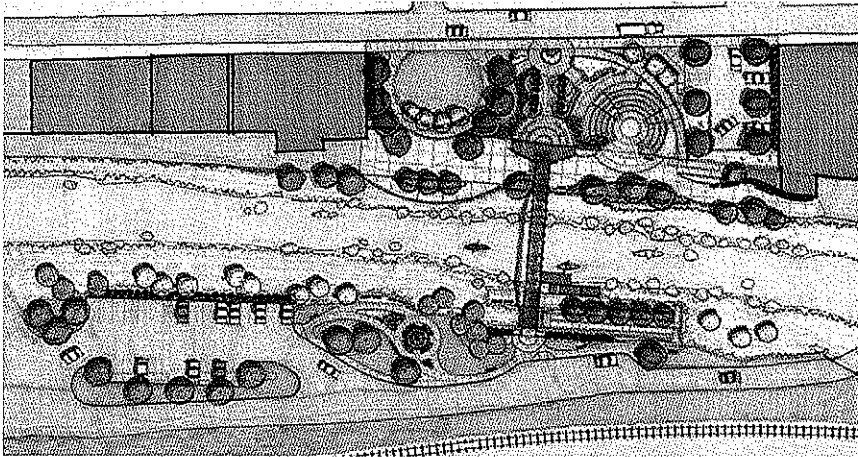
Services provided by Triad consisted of a complete site survey, geotechnical investigation, design of all site grading, drainage and layout features, preparation of permit applications including West Virginia Division of Highways (WVDOH) encroachment permit and WVDEP construction storm water permit, and quality control testing, inspection, and construction administration. In addition, Triad performed a detailed hydraulic analysis of the South Fork of the Potomac River in the project area to determine the base flood elevation.

Client: Franklin Parks and Recreation, Completion Date: Spring 2007

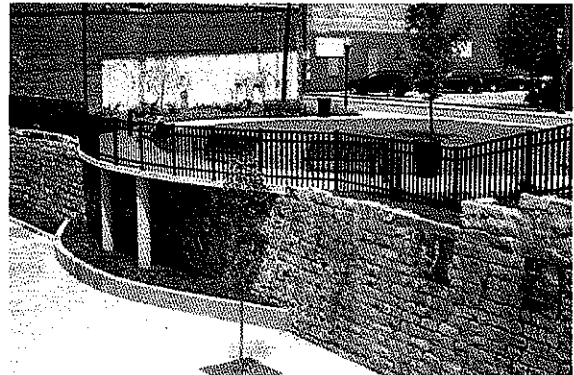




Welch River Front Park Welch, West Virginia



Triad Engineering, Inc. was selected by the City of Welch to design a park and streetscape improvements to a downtown area that is adjacent to the Tug Fork River. Services included the preparation of a master plan, construction documents, and construction administration. The park included extensive landscape improvements, lighting upgrades, concrete sidewalks with clay pavers, street furniture, parking improvements and the creation of an amphitheater space that connected the lower level and the upper level with a ADA ramps and steps. The space was developed to create a open space that could be used for community events as well as to create a greatly needed open space in the downtown area.

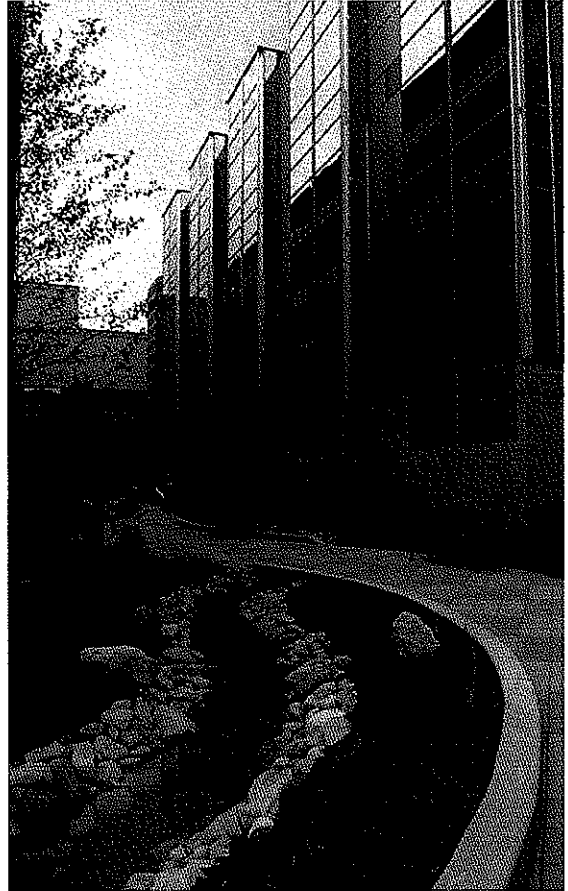


Client
City of Welch
Welch, West Virginia
304.436.3113





King's Daughters Medical Center Ashland, Kentucky



Triad provided site civil engineering services as well as landscape architectural services for the King's Daughters Medical Center Campus in Ashland, Kentucky. Triad worked with a project team headed by the Architect and the owner, to develop a complete comprehensive set of construction drawings for 4 new buildings sites. The projects involved optimizing the available property to accommodate the new buildings and parking areas and the improvement of pedestrian and vehicular circulation. The projects included the development of pedestrian spaces, for the patients and visitors which features plant massings, water features, sculptures and other site amenities.

Services provided by Triad included preparation of construction documents and details including site grading and drainage features, landscaping to compliment the architecture of the building.

Owner :
Kings Daughter Medical Center
Howard Harrison, Director of Facilities



**Marshall University Foundation Center
519 John Marshall Drive.
Huntington, West Virginia**

Project Description:

The project consisted of site civil, surveying, geotech, drilling, and QC testing for the design and construction of a large stand alone structure on a site previously occupied by homes and parking lots. Our client was the construction contractor. One of the unique features of the project was the use of geopiers instead of deep foundations. Subcontractors were used for the construction of the asphalt pavement and foundations.



Documents generated included site plans, field daily reports, lab results, inspection reports, and test results. Design services provided by TRIAD consisted of engineering consultation, generation of site plans and specifications, drainage calculations and design, highway design, surveying, the preparation of permit applications. Field services included testing and inspection of subgrade, concrete, asphalt, and grout as well as tests for floor flatness and geopier installation.

Project Completion Date:

May 2010

Project Cost:

Fee: \$31,500

Project Contact:

Travis Arey, Neighborgall Construction Co.
1216 Seventh Avenue
Huntington, West Virginia 25701
(304) 525 5181

K:\SOQ's\Projects\Civil\Site Development\Project Profile Sheets\Marshall Foundation

**West Hills Development Project
Structures Resources, Inc.
Huntington, West Virginia**

Project Description:

The project consisted of the renovation of an existing department store to convert use of the building to a telemarketing call center. The entire project site encompasses 10.5 acres and required revisions to the existing parking lot layout as well as existing drainage features. The project also required that a turn lane be constructed on WV Route No. 522 to improve traffic flow in the area of the site.

This project was somewhat unique due to the fact that two 96 inch corrugated metal culverts (CMP) extended through the front part of the site. The culverts which were damaged and partially collapsed conveyed upstream drainage as well as drainage from the site. Full replacement of the pipes would have cost approximately \$500,000.00. TRIAD worked with the project developer and all necessary agencies to develop a plan to repair the pipes in place. This option reduced the cost by approximately \$300,000.00.

Services provided by TRIAD consisted of engineering consultation, generation of a master plan, preparation of project plans and specifications for submission to the City of Huntington, drainage calculations and design, highway design, surveying, asbestos inspection of the existing building, and the preparation of permit applications for several agencies including: the City of Huntington, the West Virginia Department of Environmental Protection, West Virginia Division of Highways, Public Lands Corporation, and the United States Army Corps of Engineers.

Project Completion Date:

May 2010

Project Cost:

Fee: \$53,000

Project Contact:

Robert Childers, Structures Resources, Inc.
5187 U.S. Route 60, Suite 13
Huntington, West Virginia 25705
(304) 302- 8020



PROJECT NAME

Runway 5, Runway 23, and Taxiway A Safety Area Improvements
FAA AIP Project No. 3-54-0003-031-2003
Yeager Airport, Charleston, West Virginia

PROJECT DESCRIPTION

TRIAD designed and specified the construction of the improvements to the safety areas for Runway 5, Runway 23, and Taxiway A. The project required the placement of over 2,000,000 cubic yards of soil and rock, mechanical stabilization of 1 to 1 slopes on portions of each end of Runway 5-23, drilled pile wall installation, the installation of storm drainage piping and structures, replacement of the runway end identifier lights, taxiway and threshold lights, 9,000 cubic yards of Portland cement concrete paving, asphalt paving, replacement of 4,800 linear feet of perimeter fence, relocation of existing Federal Aviation Administration (FAA) underground cable and modifications to the ALSF-1 approach light system.

The new graded surface for Runway 5 was planned to accommodate a proposed Engineered Material Arresting System (EMAS) in order to fulfill the requirements of the FAA. The new graded surface for Runway 23 was planned to accommodate a future runway extension. The new location of Taxiway A will comply with the current safety and standards requirements of the FAA.

Services provided by TRIAD consisted of field surveying, geotechnical investigation and laboratory testing, research of the existing airfield infrastructure, storm drainage design, and the preparation of construction drawings and project specifications. TRIAD performed construction administration duties and quality control testing. Construction administration duties included conducting construction meetings, approval of submittals and change order requests, and full-time construction inspection. Quality control consisted of compaction testing of embankment material.

CLIENT

Central West Virginia Regional Airport Authority
100 Airport Road, Suite 175
Charleston, West Virginia 25311-1080

CLIENT CONTACT

Mr. Richard A. Atkinson, III
Airport Director -Yeager Airport
(304) 344-8033

REFERENCES

Mr. David Meadows

United States Army Corps of Engineers
502 Eighth Street
Huntington, WV 25701
304-399-5243

Rick Atkinson, Director

Charleston WV Regional Airport
100 Airport Road, Suite 175
Charleston, WV 25311
304-344-8033

Dick Callaway, Mayor

City of St. Albans
1499 MacCorkle Avenue
St. Albans, WV 25177
304-727-2971

Mr. Charles Stover

West Virginia Division of Environmental Protection
Office of Abandoned Mine Lands & Reclamation
601 57th Street
Charleston, WV 25304
304-926-0499

Hessie Crislip

Department of Development and Planning
City of Huntington
800 Fifth Avenue, Room L7
Huntington, West Virginia 25717
304-696-4435

Mr. Marty Mariotti

General Manager
Green Valley-Glenwood PSD
P.O. Box 6099
Bluefield, WV 24701
304-325-6832

Mr. Lucas Gagnon

Public Works Director
Town of Moorefield
206 Winchester Avenue
Moorefield, WV 26836
304-530-6142

◆ TRIAD Listens, Designs & Delivers

⚙️ CIVIL ENGINEERING DESIGN

Triad has a team of professional personnel which provides civil engineering design services in a variety of markets including land planning, site development of residential subdivisions, commercial development, education and healthcare facilities, water/wastewater, landfills, reservoirs, and many other facets of land development. We can combine many other in-house services, from surveying to construction inspection and testing, to provide a product from start to finish. Our goal is to design a cost-effective project that incorporates good engineering science, meets local, state and federal regulations and codes, and is an appealing design that meets or exceeds client expectations.

Our Civil Engineering Design Services Include:

▾ Site Grading and Development Plans

- Minor lot subdivisions
- Major lot subdivisions
- Planned unit developments
- Erosion and sediment control plans

▾ Commercial/Industrial Site Developments

- New commercial/industrial planned developments
- New commercial/industrial buildings/parking sites
- Additions/renovations to existing development sites

▾ Landscape Design

▾ Storm Water Best Management Practices (BMP)

- Environmental Sensitive Design (ESD) (micro-scale BMPs, rainwater harvesting, and site planning practices)
- Storm water conveyance systems (channels, storm drain pipe systems, etc.)
- Storm water quantitative controls (ponds, underground storage, infiltration and attenuation)
- Storm water quality controls to meet state and federal clean water acts (wetlands, filters, non-structural BMP, etc.)

▾ Utility Design and Analysis

- Sanitary sewer conveyance systems
- Sanitary sewer pump stations
- Sanitary sewer on-site treatment (septic fields and treatment plants)
- Potable water distribution systems

▾ Hydrologic Studies

- Drainage studies
- Flood plain analysis
- Stream restoration
- Reservoir rehabilitation/construction

▾ Green Sustainable Design

- LEED Site Design and Consulting
- LEED Site Certification Processing
- Water Conservation Design

▾ Land Use and Planning Consultation

▾ Transportation Engineering

- Traffic studies
- Intersection design
- Entrance plans
- Roadway improvement plans

▾ Reinforced Concrete Design

▾ Retaining Wall Design

▾ Construction Specifications and Contract Documents

▾ Construction Contract Administration



Please contact Triad to ask about other services which may not be listed

www.triadeng.com

◆ LANDSCAPE ARCHITECTURE

Triad approaches our site development projects with sensitivity to the functional, aesthetic and environmental demands of each project. Our work includes master planning and detailed site design for parks and recreational facilities, urban improvement areas, residential and institutional settings, and streetscapes.

Park and Recreation Planning and Design

Triad's work in park design and rehabilitation is extensive, ranging from small pocket parks to large regional facilities. We have an unparalleled track record in taking these projects from the concept phase to permitting and through construction.

Site Development

Triad's site development work requires a multidisciplinary approach. Landscape architects work closely with engineers to optimize the use of the site while at the same time enhancing aesthetics. Whether for corporate site campuses, universities, residential communities or mixed use and retail developments, the Triad design team integrates buildings, roadways, open public spaces and site amenities into plans that are both practical and pleasing. As part of the site development process, the firm provides site layout, grading, drainage and planting plans with each design.

Urban Design

A focus of interest in landscape architecture is the rehabilitation of public urban spaces. As infrastructure ages over time, streetscapes deteriorate and pedestrian areas become unattractive. Triad has been actively involved in Streetscape and Urban Design projects that restore these public spaces so that they can be enjoyed by all.

Additional Landscape Architecture Services Include:

- ▾ Programming
- ▾ Land-Use Studies
- ▾ Marketing Illustrations
- ▾ Site Selection, Inventory and Analysis
- ▾ Resort and Entertainment Planning
- ▾ Disturbed Lands Restoration
- ▾ Trail Studies
- ▾ Residential Estate Master Planning
- ▾ Feasibility Studies



TRIAD

TRIAD ENGINEERING, INC.

◆ TRIAD Listens, Designs & Delivers

❖ SURVEYING AND MAPPING SERVICES

Triad provides complete professional surveying and mapping services for clients in construction, mining and land development. All surveys are completed under the supervision of a licensed land surveyor experienced in the particular type of survey required. Triad utilizes GPS, robotic and conventional total stations with electronic data collectors. All surveys and mapping meet National Map Accuracy Standards or other appropriate quality standards. Triad routinely provides MSHA- and OSHA-trained survey crews, depending upon the site-specific requirements.

Our Surveying and Mapping Services Include:

- ▼ ALTA/ACSM Land Title Surveys
- ▼ Boundary and Subdivision Surveys
- ▼ Topographic and Planimetric Surveys
- ▼ Ground Control for Aerial Mapping
- ▼ Construction Layout and As-Built Surveys
- ▼ FEMA Flood Elevation Certificates
- ▼ Hazardous Material Site Surveys
(requires OSHA 40-Hour Certification)
- ▼ Hydrographic Surveys
- ▼ Support for Mining and Quarrying
Industries (requires MSHA certification)
- ▼ Quantity Determination Surveys
(Stockpiles, Mass Excavation)
- ▼ Streambed and Lake Soundings
- ▼ Well Plot Surveys for Oil and Gas Industry
- ▼ Settlement Monitoring and
Structural Deviation Surveys
- ▼ Locations of Delineated Wetlands



Please contact Triad to ask about other services which may not be listed

www.triadeng.com



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❖ GEOTECHNICAL ENGINEERING SERVICES

Triad was originally formed in 1975 as a geotechnical engineering firm, and our expertise in this discipline is superior. Many of Triad's engineers have advanced degrees in geotechnical engineering. The combined education and professional experience of our staff provides our clients with cost-effective and practical solutions for the most difficult soil, rock and groundwater problems. Our clients include industrial and mining companies, governmental agencies, contractors, architects, engineers, developers, owners and commercial organizations. Geotechnical projects have included investigations for hospitals, churches, hotels, schools, shopping centers, communication towers, wind turbines, water and petroleum product storage tanks, coal and mineral processing facilities, landslides, bridges and highways, parks and recreation facilities, river docks, and impoundments of all types. Let Triad's experience and capabilities in geotechnical engineering help bring your project to a successful conclusion.

Our Geotechnical Engineering Services Include:

- ▼ Shallow and Deep Foundation Evaluations and Recommendations
- ▼ Landslide/Slope Stability Analysis and Remedial Design
- ▼ Earth and Earth/Rock Dam and Embankment Design
- ▼ Retaining Wall Evaluation and Design
- ▼ Mine Subsidence Investigations
- ▼ Flexible and Rigid Pavement Evaluations and Design
- ▼ Groundwater and Seepage Analysis and Design
- ▼ Shored and/or Braced Excavation Evaluations
- ▼ Foundation Underpinning Recommendations
- ▼ Forensic Investigations and Expert Witness Testimony
- ▼ Hydrogeologic Studies
- ▼ Fracture Trace Analysis
- ▼ Karst Investigations
- ▼ Geophysical Investigations
 - 2-Dimensional Electrical Resistivity Imaging
 - Ground Penetrating Radar (GPR) Testing
- ▼ Laterally Loaded Pile Analysis
- ▼ Pile Driveability Studies
- ▼ Seismic Site Classifications

❖ CONSTRUCTION MONITORING, TESTING AND INSPECTION SERVICES

Quality Assurance/Quality Control (QA/QC) construction monitoring services have been core specialties since Triad was founded in 1975. We maintain a staff of experienced construction inspectors and technicians who are certified by ACI, WVDOT, VDOT, NICET, and numerous other local, state and/or nationally recognized organizations, as needed in the specific jurisdiction of the project. Our QA/QC management staff are long-term employees who have been instrumental in establishing close working relationships with our clients. Our growth has been the result of staff dedication, client satisfaction and significant repeat business from clients, many of whom have been with us for 25+ years. You can trust Triad to be constantly on guard for your interests. Triad will provide efficient, cost-effective services focused on the construction quality your project deserves.

Our Construction Monitoring Services Include:

- ▼ In-Place Moisture/Density Testing (sand cone and nuclear)
- ▼ Field Concrete Sampling and Testing
- ▼ Bearing Capacity Evaluation
- ▼ Footing, Wall and Slab Inspections
- ▼ Deep Foundation Construction Inspection (including driven piles, drilled piers, mini/micro piles and auger cast piles)
- ▼ Structural Steel Inspection (including visual inspection, non-destructive testing of welds, plumbness and inspection of bolted connections)
- ▼ Masonry Inspection (including mortar and grout testing and reinforcing steel inspection)
- ▼ Pre- and Post-Tensioning Inspection
- ▼ EIFS (Exterior Insulated Finishing System) Inspection
- ▼ Paint Thickness (Wet and Dry Film)
- ▼ Sprayed-on Fireproofing Inspection
- ▼ Firestop Inspection
- ▼ Floor Slab Flatness Testing
- ▼ Water and Sewer Line Construction Inspection
- ▼ Batch Plant Inspection
- ▼ Pre- and Post-Blast Inspections
- ▼ Blast Monitoring (seismograph)
- ▼ Reinforcement Locations (Cover Meter and Ground Penetrating Radar)
- ▼ Windsor Probe and Rebound Hammer Testing
- ▼ Concrete and Asphalt Core Drilling
- ▼ Field Asphalt Inspection
- ▼ Vapor Emission Testing
- ▼ HUD Inspections
- ▼ Draw Inspections

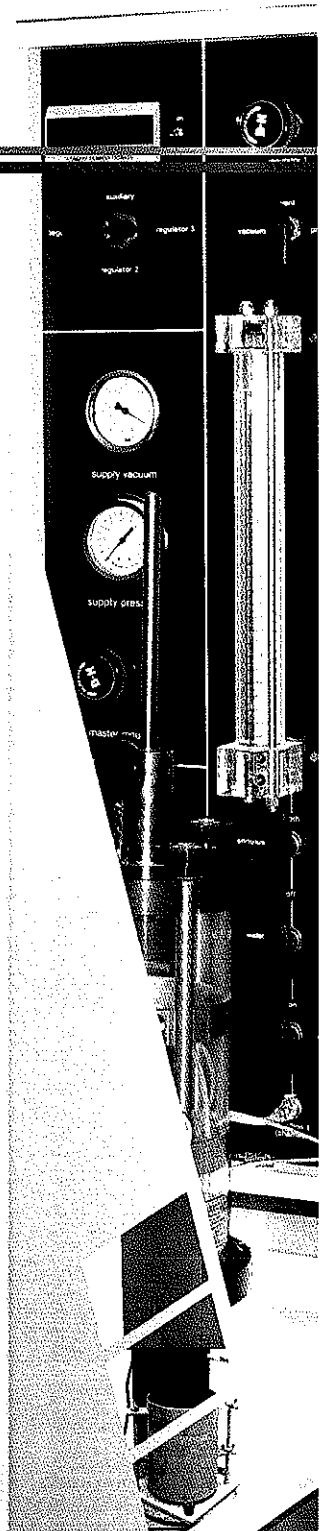


❖ LABORATORY MATERIALS TESTING SERVICES

Providing support for our geotechnical engineering and construction monitoring divisions, Triad maintains complete laboratory facilities where tests are conducted by experienced technicians under the supervision of professional engineers. Our laboratory technicians hold many applicable state agency certifications. Materials tested include soil, concrete, aggregate, asphalt, rock and sprayed-on fireproofing. Our testing labs routinely participate in national quality control programs administered by AMRL and CCRL which follow AASHTO and ASTM testing procedures.

Our Laboratory Materials Testing Services Include:

- ▾ Soil Classification (Atterberg Limits and Grain Size Distribution)
- ▾ Moisture Content
- ▾ Specific Gravity
- ▾ Soil pH
- ▾ Organic Content
- ▾ Natural Density and Moisture Content
- ▾ Moisture-Density Relations (Standard and Modified)
- ▾ Maximum and Minimum Density (Granular Soils)
- ▾ California Bearing Ratio (CBR)
- ▾ Unconfined Compression
- ▾ Triaxial Shear
- ▾ Direct Shear
- ▾ Consolidation
- ▾ Permeability (Flexible and Rigid Wall)
- ▾ Los Angeles Abrasion
- ▾ Sodium Sulfate Soundness
- ▾ WVDOH Fractured Faces
- ▾ Clay Lumps and Friable Particles
- ▾ Flat and Elongated Particles
- ▾ Compressive Strength Testing
 - Concrete Cylinders
 - Concrete and Rock Cores
 - Grout Prisms, Grout Cubes and Mortar Cubes
 - Concrete Masonry Units
- ▾ Flexural Strength Testing - Concrete Beams
- ▾ Concrete Beam Shrinkage
- ▾ Concrete Chloride (Rapid Permeability, Shrinkage)
- ▾ Asphalt Testing (Absorption, Density and Extraction, Gradation, and Marshall Stability and Flow)
- ▾ Fireproofing Density and Moisture Content
- ▾ Pyritic Sulfur Content





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❖ WASTEWATER ENGINEERING SERVICES

Triad provides planning, design and construction administration for wastewater systems ranging in size from short sewer line extensions to major collection and treatment systems. Our experienced staff of professional engineers and designers provides personal attention and puts the needs of our clients first. They are well versed in all federal and state regulations related to wastewater systems, and they are extremely knowledgeable and experienced in working with funding agencies.

Our staff members have designed numerous wastewater collection and treatment systems for a diverse group of clients. We offer assistance and guidance in resolving problems while delivering high quality and innovative solutions through sustainable design. We can provide a turn-key project or serve in a limited role depending on the client's needs. Our background includes design of new facilities of varying magnitude, as well as system expansion and cost-effective rehabilitation of existing systems. We can provide operation and maintenance assistance as well as troubleshooting systems.

Efficient, cost-effective collection and treatment of wastewater is necessary to protect the health of the population and the environment. Triad has the experience and capabilities to assist you in the development of a dependable wastewater collection and treatment system to meet the needs of your community.

Wastewater Engineering Design Services Include:

- ▼ Preparation of Facilities Planning Studies and Preliminary Engineering Reports
- ▼ Assisting Clients in Obtaining Funding
- ▼ Design of Wastewater Systems
 - Line Layout
 - Hydraulic Analysis
 - Pump Station Design
 - Odor Control Facilities
 - Plant Layout and Design
 - Rehabilitation of Existing Systems
- ▼ Specifications and Construction Documents
- ▼ Permit Applications
- ▼ Construction Cost Estimates
- ▼ Assistance in Land Acquisition and Obtaining Rights-of-Way
- ▼ Assistance in Securing Competitive Construction Bids
- ▼ Construction Administration
 - Review of Shop Drawings
 - Processing Contractor's Periodic Pay Requests
 - Construction Monitoring
 - Semi-Final and Final Inspections
 - Preparation of Operation and Maintenance Manuals
 - One-Year Certifications
 - Final Project Close-Out



Please contact Triad to ask about other services which may not be listed

www.triadeng.com

❖ POTABLE WATER SYSTEM ENGINEERING SERVICES

Triad provides planning, design and construction administration for potable water systems ranging in size from relatively small line extensions to county-wide utility programs. Our dedicated staff of professional engineers and designers provides personal attention and puts our client's interests first. They are knowledgeable in all federal and state regulations related to potable water systems, and their experience and expertise in working with funding agencies is unmatched.

Our staff members have designed numerous water distribution systems and water treatment plants for a wide variety of clients. We offer assistance and guidance in resolving problems while delivering high quality and innovative solutions through sustainable design. We can provide a turn-key project or serve in a limited role depending on the client's needs. Our background includes design of new facilities of varying magnitude, as well as system expansion and cost-effective rehabilitation of existing systems. We can provide operation and maintenance assistance as well as troubleshooting systems.

Consistent sources and quantities of potable water are crucial for the health of the population. You can depend on Triad's assistance in the development of a reliable potable water system to meet the needs of your community and its businesses.

Our Potable Water System Engineering Services Include:

- ▼ Preparation of Preliminary Engineering Reports
- ▼ Assisting Clients in Obtaining Funding
- ▼ Design of Water Systems
 - Line Layout
 - Hydraulic Analysis
 - Booster Station Design
 - Water Storage Tank Design
 - Pressure Reducing Station Design
 - Plant Layout and Design
- ▼ Preparation of Specifications and Construction Documents
- ▼ Permit Applications
- ▼ Construction Cost Estimates
- ▼ Assistance in Land Acquisition and Obtaining Rights-of-Way
- ▼ Assistance in Securing Competitive Construction Bids
- ▼ Construction Administration
 - Review of Shop Drawings
 - Processing Contractor's Periodic Pay Requests
 - Construction Monitoring
 - Semi-Final and Final Inspections
 - Preparation of Operation and Maintenance Manuals
 - One-Year Certifications
 - Final Project Close-Out

❖ DRILLING AND SAMPLING SERVICES

Triad owns and operates numerous drilling rigs at various offices. Our drilling fleet includes truck-mounted, track-mounted, skid-mounted and ATV-mounted rigs. Drill rigs are available at all office locations as needed. The track-, ATV- and skid-mounted units can access the most difficult types of terrain. Our rigs provide support primarily for in-house geotechnical engineering projects. In addition, Triad routinely provides subcontract drilling services for other consultants, private industry, and state, federal or municipal governments. Support equipment includes water trucks, tanks, piping, pumps and portable grout mixer/pumps. Triad can provide drill crews who are OSHA- and MSHA-trained when required for the project.

Our Drilling Services Include:

- ▶ Soil Test Borings with Standard Penetration Testing and Sampling
- ▶ Rock Coring and Sampling (NQ and PQ Size Cores)
- ▶ Auger Borings
- ▶ Undisturbed Shelby Tube Sampling
- ▶ Roller Bit Borings
- ▶ Down Hole Hammer (DHH) Drilling
- ▶ Bridge Pier (Barge-Based) Borings
- ▶ Coal Exploration Borings
- ▶ Coal Refuse Drilling and Sampling
- ▶ Hazardous Waste Sampling
- ▶ Sludge Pond Sampling
- ▶ Sub-Bottom Core Holes
- ▶ Borehole Packer Permeability Testing
- ▶ Piezometer Installation
- ▶ Slope Inclinerometer Casing Installation
- ▶ Monitoring Well Installation and Development
- ▶ Borehole Grouting



◆ TRIAD Listens, Designs & Delivers

❖ ENVIRONMENTAL SERVICES

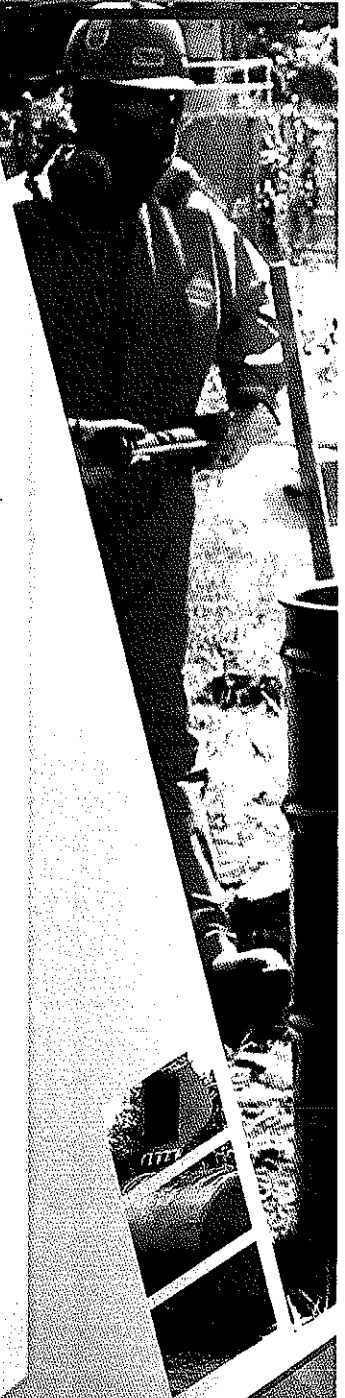
Triad provides a broad, comprehensive range of environmental consulting services to a variety of clients through the expertise of our diverse staff of environmental scientists, engineers, geologists, biologists, chemists and licensed remediation specialists. Our clients include federal and state regulatory agencies, county development offices, property owners, developers, banks, hospitals, and private industries.

We are proud of our relationships with state and federal environmental agencies, built over time through integrity and sound scientific work. Our staff is experienced and knowledgeable in current environmental regulatory requirements and has a proven track record of successfully completing projects for clients under such programs as the West Virginia Voluntary Remediation Program, Pennsylvania Act 2, RCRA, Leaking Underground Storage Tank Program, USEPA All Appropriate Inquiries and the USEPA Superfund Program.

Triad's Corporate Health and Safety Program requires all environmental staff to be fully trained in applicable OSHA standards and regulations, including the 40-hour Hazardous Waste Operations and Emergency Response Standard. Our Corporate Safety Manager prepares site specific Health and Safety Plans as appropriate to ensure the safety of our staff when working in potentially hazardous work environments.

Our Environmental Services Include:

- ▼ **Environmental Site Assessments**
 - Due Diligence Evaluations, including Transaction Screen Assessments and Phase I and Phase II ESAs
 - Vapor Intrusion Assessments
 - Remediation Design & Oversight
 - Human Health and Ecological Risk Assessments
- ▼ **Brownfield/Voluntary Cleanup**
 - WV Voluntary Remediation
 - PA Act 2 Projects
 - Community-wide Brownfield Assessments
 - Targeted Brownfield Assessments
- ▼ **Underground Storage Tanks**
 - UST Closure
 - Site Characterization and Corrective Action Plans
 - Groundwater and Soil Remediation
- ▼ **Data Validation and Data Quality Services**
- ▼ **Indoor Air Quality/Industrial Hygiene Assessments**
 - Asbestos Inspections
 - Indoor Air Quality Assessments
 - Radon and Mold Assessments
- ▼ **Mining Related Environmental Services**
- ▼ **Ecological Services**
 - Wetland Delineation Studies and Permitting
 - Wetland and Stream Mitigation
 - Forest Stand Delineation Studies
 - Rare, Threatened and Endangered Species Evaluation
- ▼ **Groundwater Studies**
 - Source Water Assessments
 - Hydrogeologic Investigations
 - Fate and Transport Modeling
 - Natural Attenuation Modeling
- ▼ **Permitting/Regulatory Compliance**
 - NPDES Permits
 - Storm Water Pollution Prevention Plans (SWPPP)
 - SPCC Plans
 - Clean Air Act
 - NEPA Evaluations
 - Endangered Species and Archeological Surveys



Please contact Triad to ask about other services which may not be listed

www.triadeng.com

RFQ No. GSD116434

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

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

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

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

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: TRIAD ENGINEERING, INC.

Authorized Signature: [Signature] Date: 2/16/11

State of West Virginia

County of Putnam, to-wit:

Taken, subscribed, and sworn to before me this 16th day of February, 2011.

My Commission expires March 10, 2019.

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]

