RANDOLPH
ENGINEERING

January 25, 2011

Purchasing Division
Tara Lyle
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

RFQ No. DEFK11024

Attn: Ms. Tara Lyle,

Please accept this letter and the enclosed Statement of Qualifications as Randolph Engineering's expression of interest to provide professional consulting engineering services for the Charleston Complex Access Road Project in Kanawha County, WV.

Randolph Engineering has successfully completed numerous projects for the WVDOT, U.S. General Services Administration as well as our private and municipal clients with a focus on quality, cost and schedule. We have extensive experience in transportation facilities, earthmoving, storm water analysis, site development and construction administration projects throughout West Virginia. This experience gives us a unique insight into a project of this scope and complexity.

We have developed a reputation for providing our clients with innovative solutions for unique and challenging projects. From fast track schedules and restrictive budgets to complex engineering problems we strive to deliver the project in a manner that exceeds our clients' expectations.

We appreciate your consideration of our qualifications as a candidate for selection to provide consulting engineering services and look forward further outlining our qualifications during the interview process.

Respectfully,

Denise Springer
Randolph Engineering
4414 Teays Valley Road
Scott Depot, WV 25560

RFQ No. DEFK1024

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 exceed 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: Randolph Engineering Co., Inc.

Authorized Signature: Roger K Randolph Date: 1-25-11

State of West Virginia

County of Putnam, to-wit:

Taken, subscribed, and sworn to before me this 25th day of January, 2011.

My Commission expires June 5, 2012.

AFFIX SEAL HERE

NOTARY PUBLIC Deborah Hicks

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
DEBORAH M. HICKS
360 COAL RIVER ROAD
ST. ALBANS, WV 25177
My commission expires June 5, 2012

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	PAGE
DEFK11024	1

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

VENDOR
RFQ COPY
TYPE NAME/ADDRESS HERE

SHIP TO
DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
01/11/2011				

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

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT

ADDENDUM NO. 1

1. QUESTIONS AND ANSWERS ARE ATTACHED.
2. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITHE YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID.

EXHIBIT 10

REQUISITION NO.: DEFK11024

ADDENDUM ACKNOWLEDGEMENT

I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.

ADDENDUM NO.'S:

NO. 1 .....

NO. 2 .....

NO. 3 .....

NO. 4 .....

NO. 5 .....

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
Roger Randolph	304.757.9217	January 25, 2011
TITLE: President	FEIN: 55-0588736	ADDRESS CHANGES TO BE NOTED ABOVE

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

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

1. Awards will be made in the best interest of the State of West Virginia.

2. The State may accept or reject in part, or in whole, any bid.

3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required $125 fee.

4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.

5. Payment may only be made after the delivery and acceptance of goods or services.

6. Interest may be paid for late payment in accordance with the ***West Virginia Code***.

7. Vendor preference will be granted upon written request in accordance with the ***West Virginia Code***.

8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.

9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.

10. The laws of the State of West Virginia and the ***Legislative Rules*** of the Purchasing Division shall govern the purchasing process.

11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.

12. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.

13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at **www.state.wv.us/admin/purchase/vrc/hipaa.htm** and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

14. CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.

15. LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

16. ANTITRUST: In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.

2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.

3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.

4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130

5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

EXPRESSION OF INTEREST

To Provide Professional Engineering Design Services

For RFQ No. DEFK11024

CHARLESTON COMPLEX ACCESS ROAD PROJECT

Kanawha County, West Virginia

Prepared for:

West Virginia Army National Guard
Department of Administration, Purchasing Division
2019 Washington Street East, P.O. Box 50130
Charleston, WV 25305-0130

Prepared by:

Randolph Engineering Company, Inc.
4414 Teays Valley Road
Scott Depot, WV 25560

January 25, 2011

RANDOLPH
ENGINEERING

TABLE OF CONTENTS

INTRODUCTION TO RANDOLPH ENGINEERING

Randolph Engineering is a multi-disciplined consulting engineering firm in Teays Valley, West Virginia. The company recently celebrated 30 years of providing innovative engineering solutions to a variety of clients ranging from municipalities and government agencies to private land developers.

Randolph's success is the result of outstanding client service and satisfaction.

Our history

The company was founded by Roger Randolph in 1976, and from a modest beginning has grown into an award-winning regional engineering firm. Our attention to detail and commitment to client satisfaction have generated repeat and referral clients, some of whom have been with us since our inception.

Roger Randolph is an experienced Project Manager and lead engineer for a variety of municipal, storm water, structural and land development projects. His wealth of knowledge and experience is a valuable asset to the company's next generation of engineers and designers.

Building on success

Randolph Engineering is situated in one of West Virginia's fastest-growing areas – a location that has afforded the opportunity to diversify into a full-service engineering firm. We offer an array of services including transportation engineering; municipal engineering; land development and surveying; structural engineering; building engineering; and construction engineering.

One of our keys to success is the reliability and stability provided by our employees' loyalty and longevity. Many of our staff members have been with Randolph for more than 25 years, with a number of others approaching that milestone.

Our projects

Our variety of clients and engineering projects creates interesting and unique challenges for the engineers and designers at Randolph Engineering. Some of our notable projects include the award-winning Jackson's Mill Bridge for the West Virginia Division of Highways; site improvements and plant expansions for Toyota Motor Manufacturing; complete renovation and expansion of the City of Hurricane wastewater treatment plant; land development for some of the largest retailers in the United States; and site designs for large, single- and multi-family residential subdivisions, townhouses and apartment complexes, including a 250-unit gated community near Charleston, W.Va.

Looking to the future

Successful projects such as these and an unending commitment to client satisfaction paint a bright picture for our future. We look forward to more engineering challenges and continued growth while working with you and the AML Program.

GENERAL EXPERIENCE, CAPABILITIES AND SERVICES

We have successfully completed numerous projects for local municipalities as well as private clients that encompass most of the tasks required for this work. Two of our most recent projects include the *Nutter Farm Highway Project* and the *Jefferson Avenue Bridge Project*. Both of these projects posed significant challenges for the design team including extensive earthwork, utilities, high traffic volumes and restrictive right-of-way.

In addition to these two notable highway projects, we have more than 30 years of experience in various engineering disciplines.

We carry a full line of insurance coverage that includes general liability, errors and omissions and workers' compensation coverage.

Randolph Engineering offers the following services:

- Civil Engineering
- Hydrologic and Hydraulic Engineering
- Storm Water Management
- Construction Administration
- Construction Monitoring
- Construction Engineering
- Water Distribution & Treatment Engineering
- Wastewater Collection & Treatment Engineering
- Land Use Planning
- Regulatory Permit Preparation (404, NPDES, Air Quality)
- CADD Services (Autocad and Microstation Formats)
- Sediment & Erosion Control Plans
- Feasibility Studies
- Foundation Design
- Structural Engineering
- Surveying & Mapping Services
- Cost Estimating
- Construction Documents
- Residential/Commercial and Industrial Site Engineering
- Wetland Investigation and Delineation
- Retaining Wall Design
- Highway and Bridge Engineering
- Bridge and Structural Inspection
- Structure Demolition Plans

The staff at Randolph Engineering includes 3 registered Professional Engineers (P.E's), 2 registered Professional Land Surveyors (P.L.S.'s), 2 registered Surveyors in Training (S.I.T.'s) supported by 3 CADD Designers and various other survey, design and administrative support staff.

Our staff has extensive experience in similar projects including:

- ✓ Highway Bridge Engineering and Design
- ✓ Highway Engineering and Design
- ✓ Highway Storm Water Management
- ✓ Highway Geometrics
- ✓ Commercial and Residential Access
- ✓ Maintenance of Traffic
- ✓ Erosion and Sediment Control

We are located in close proximity to the project site which will allow for quick response to meet your needs as well as provide a cost savings by eliminating excessive travel and overnight expenses for meetings or project reviews. We also want to emphasize our commitment to making this project a priority and we will provide the required services in a timely and efficient manner.

Additionally, we have secured a commitment from Novel Geo-Environmental, PLLC to provide subsurface investigations and Geotechnical Engineering services as may be required for this project . NGE has provided services for many of our projects since their inception and we have an excellent professional relationship with them which provides a seamless continuity between the two disciplines which is critical to a successful project.

Section 2 contains a more detailed outline of our various service lines.

PRIMARY STAFF MEMBERS

Jacob C. White, P.E. - Jacob is an experienced civil engineer with 14 years of experience and a focus on highway, bridge, drainage, hydraulic and permitting projects with state and local municipalities as well as private developers in West Virginia and Virginia. His experience ranges from large highway and bridge projects to commercial and residential access roads. He is responsible for roadway/highway engineering, hydraulic analysis and permitting for all land development and highway projects for Randolph Engineering and will serve as Project Manager and Design Engineer for this project.

Aaron. C. Randolph, P.E. - Aaron is an experienced civil engineer with 17 years of experience and a focus on civil engineering, structural and construction engineering projects within the private and public sectors in West Virginia, Kentucky, Ohio and Alabama. His experience has encompassed large earthmoving projects, 4-lane highway projects as well as small to medium length bridge design. He is responsible for bridge and highway design, construction engineering and structural engineering for Randolph Engineering and will serve as Lead Design Engineer and Construction Manager for this project.

Roger K. Randolph, P.E. - Roger is an accomplished design engineer and project manager with more than 40 years of experience for a variety of civil, municipal, land development, and construction projects. His versatility, experience and wealth of knowledge provide valuable insight into possible pitfalls that may affect the success of any project. He will provide QA/QC for this project and brings extensive experience on projects with grading, drainage and subsidence issues.

Donald R. Hayes – Don is an experienced land surveyor with 38 years of experience with a focus on highways, land development and municipal projects with local communities as well as private developers in West Virginia. His experience ranges from property surveys and topographic mapping to residential, commercial and highway stake-out. He is responsible for the management of the surveying department for Randolph Engineering and will serve as Lead Surveyor for this project.

NOTABLE CLIENTS

We have partnered with a wide range of clients including national and international companies, local, state and federal agencies, utility companies, chemical companies, architects and contractors as well as other engineering companies.

Some of our more notable clients include:

- West Virginia Department of Highways
- Edward Tucker Architects
- WV Division of Natural Resources
- WV Housing Development Fund
- Toyota Motor Manufacturing of WV
- WVU Institute of Technology
- Town of Buffalo, WV
- Town of Winfield, WV
- The Meadows Group (TMG)
- The Fergus Companies
- AB Contracting & Development Company
- Ahern Associates, Inc.
- Woolpert, Inc.
- Rite Aid Corporation
- Triad Engineering, Inc.
- Clark Truck Parts, Inc.
- Hobet Mining Company
- J. Dan Snead and Associates
- Peerless Brick and Block Company
- Foster Supply Company
- Putnam County Commission
- Central Distributing Company
- Dow Chemical Company
- Parkline, Inc.
- Teays River Construction Company
- Town of Bancroft
- Wiseman Construction Company
- Balanced Care Assisted Living Center
- Tri-State Hotels, Inc.
- Elkhorn Field Services, Inc.
- G&G Builders, Inc.
- Picerne Development Company
- Putnam P.S.D.
- City of Hurricane, WV
- Wiseman Construction Company

WVDOT STANDARDS

Randolph Engineering is very experienced with the regulations and standards of the West Virginia Department of Transportation, Division of Highways including:

- Highway Entrance Permitting
- Maintenance of Traffic Requirements
- Standard Specifications
- Standard Highway Details
- AASHTO Standards

We have completed numerous successful projects for the WVDOT as well as many projects that were required to be coordinated or approved by the WVDOT.

NOTABLE PROJECT EXPERIENCE

We have provided engineering services for various engineering disciplines on a range of project sizes and complexity. We have worked on numerous projects including large earthwork and site grading projects, stream hydraulic analysis, storm water drainage projects, municipal water and wastewater projects, residential/commercial/industrial site developments, bridge projects and various types of surveying projects.

Some of the notable projects designed by Randolph Engineering include:

- Nutter Farm Roadway Project
- WV Rt. 817 Center Turn Lane
- The Ridges Residential Development Access Road
- Massey Energy HQ Access Road
- Teays Church of God Access Road
- Linda Street Extension
- Castlenock Subdivision Access Road
- Jefferson Avenue Bridge Project
- Culloden Bridge Project
- Jackson's Mill Road and Bridge Project
- Strange Creek Bridge Project
- Martha Bridge Project
- Montcalm Arch Bridge Project
- West Pea Ridge Bridge Project
- Twelvepole Creek Roadway and Bridge
- Jodie Bridge Project
- Harman Bridge Project
- Beaver Creek Roadway and Bridges
- Hurricane Sanitary Sewer Extensions
- Buffalo Sanitary Sewer Improvements
- Lincoln Co. Comm. Water Extension
- Putnam PSD Water Extension

Section 3 contains more detailed descriptions of these projects.

STAFF AND CURRENT WORKLOAD

Our engineers and project managers are dedicated and experienced professionals backed by years of experience in managing projects ranging from large water system plants to small line extension projects..

Therefore, with our experience combined with our very light workload we can more than adequately staff the Charleston Complex Access Road and Utility Project.

PROJECT APPROACH

With our professional staff teamed with our subconsultant, Randolph Engineering is well positioned to provide all services required to satisfy the requirements of this project including:

1. Complete all surveying and mapping required for the project
2. Provide geotechnical services including subsurface investigations and analysis
3. Provide engineering and design for new access road
4. Provide engineering design for utilities
5. Provide preliminary grading plan for future site
6. Provide storm water management and erosion & sediment control design
7. Develop detailed engineering drawings, specifications and contract documents
8. Provide construction monitoring, administration as required
9. Attend meetings including but not limited to Design Review, Pre-Bid and Pre-Construction meetings

SCHEDULE AND BUDGET CONTROL

We have a long history of completing projects within budget and time constraints. With a large client base of private and public clients, schedules, budgets and fees can quickly become make-or-break issues with regard to the feasibility of a project. Our project managers are experienced and well versed in meeting project schedules with budget constraints in mind. Additionally, Randolph Engineering is a West Virginia licensed contractor. This gives us a unique insight into potential economies within a project that may benefit our clients.

Randolph Engineering utilizes a nationally recognized time/project management software program for tracking employee time and expenses as well as tracking and managing a project. This gives our project managers daily or weekly progress for the project in regards to budget and schedule.

The project manager will be responsible for developing and maintaining the project schedule as outlined in the RFP for this project. He will coordinate with Design Engineers on the project to ensure that they have the resources required to meet and maintain the schedule. Additionally, the PM will be responsible for coordinating with Army Guard personnel to ensure that they are informed as to the status of the project through the duration of the design process.

QA/QC

Plan submissions to the Army Guard will be reviewed by the Project Manager prior to submission. As stated previously the Project Manager has extensive knowledge and experience with projects of this scope and complexity. Additionally, the staff at Randolph Engineering has extensive experience with the level of detail and expectations required by various state and federal agencies including the US General Services Administration, WVDEP, WVDNR and the WVDOH. We strive to ensure that these expectations are met on a consistent basis which makes for a smooth transition from design to construction.

REFERENCES

Mr. Ben Newhouse, City Manager
Hurricane, West Virginia
304.562.5896

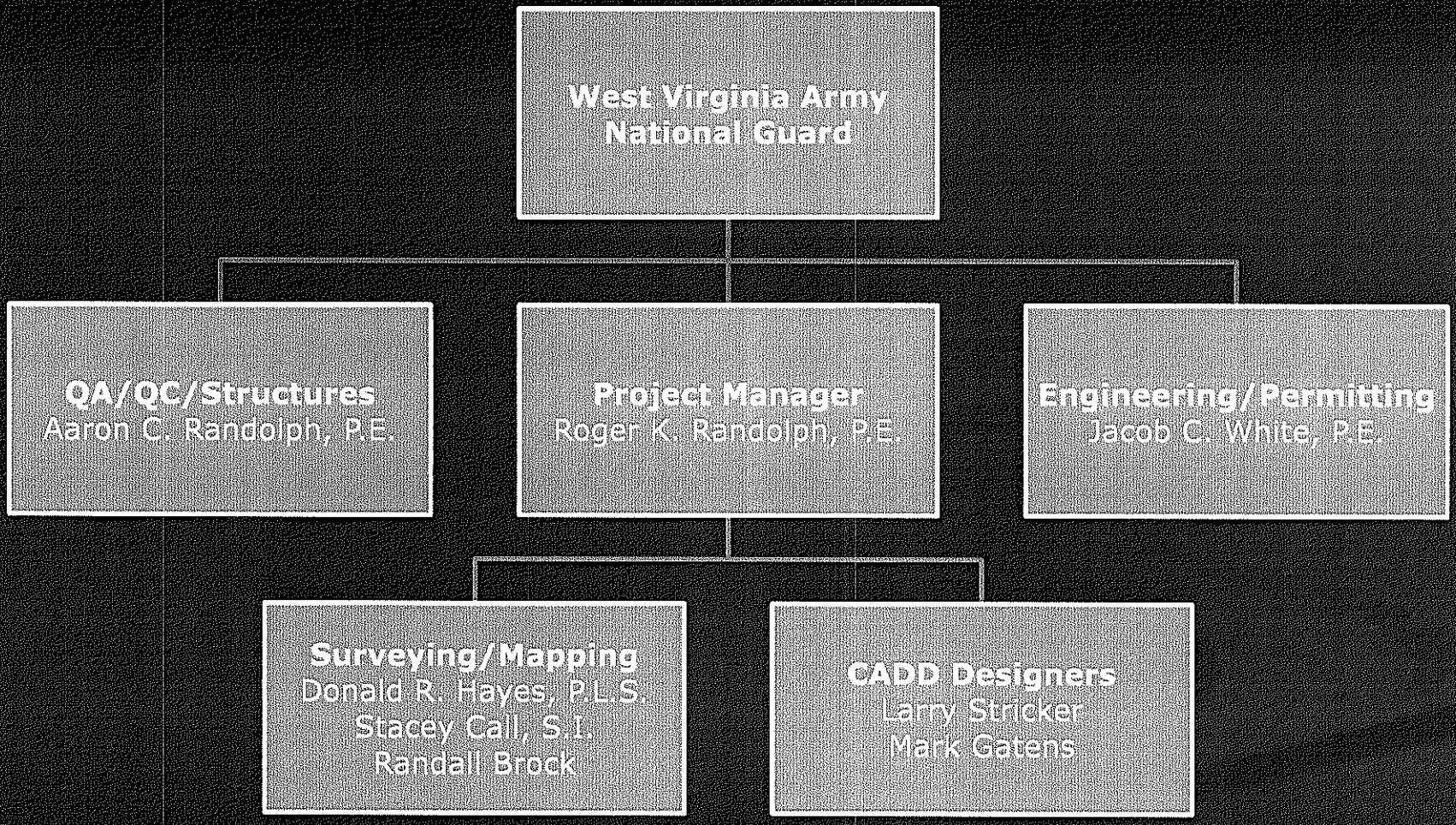
Mr. Alan Bell, President
AB Contracting and Development Co.
304.546.5955

Mr. Kenneth Tucker, Mayor
Buffalo, West Virginia
304.937.2041

CLOSING

We look forward to establishing a long term relationship with the WV Army National Guard beginning with the Charleston Complex Access Road Project. Our commitment is to provide quality service, client satisfaction, and quick response to your needs and to exceed your expectations with regard to project delivery. We look forward to further discussing our qualifications during the interview process.

PROJECT TEAM

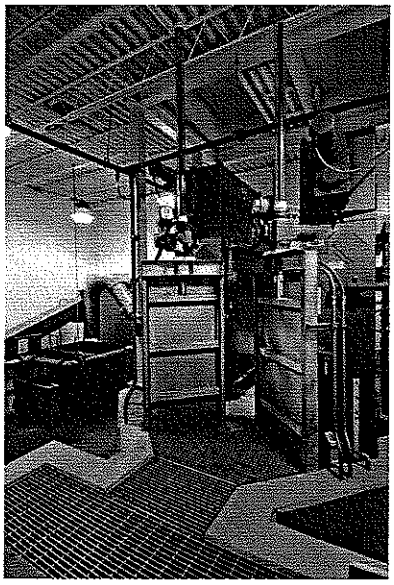


water & wastewater engineering

Water distribution and wastewater collection are vital services to the quality of life for both residents and communities. Our focus is to provide cost effective and viable solutions to the problems many communities face in regard to these issues. In addition to the design of new water and wastewater we also assist our clients with the planning and expansion of existing systems as well as providing solutions to alleviate storm water problems.

The following is a list of professional services that we offer:

- Feasibility Studies
- Conceptual Design
- Final Design
- Bidding and Construction Administration
- Construction Observation
- Cost Estimates
- Sanitary Sewer Collection & Treatment
- Water Treatment & Distribution
- Landfill Leachate Treatment
- Storage Tank Design
- Flow Measurement
- Surveying
- Permitting
- Line Extensions
- Plant Upgrades & Renovations



surveying

Land surveying is the core of most if not all civil engineering designs. We offer fully equipped survey crews managed by professional surveyors and supported by an experienced surveying technical staff.

The use of state of the art GPS surveying equipment along with traditional surveying equipment gives us the flexibility to meet the needs of our clients by providing them accurate and useful information as a stand alone service or as support for the over-all design of their project.

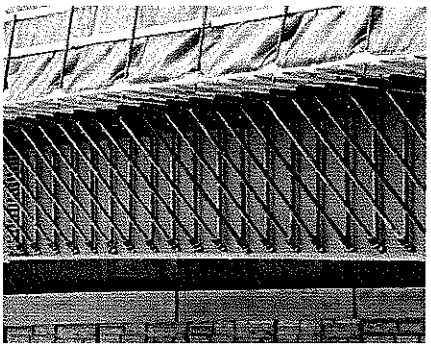
We specialize in the following surveying services:

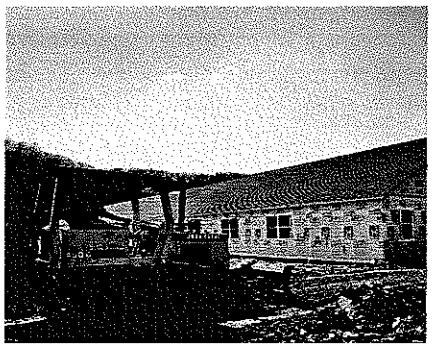
- Boundary Surveys
- Construction Layout
- Global Positioning Surveys (GPS)
- Land Title Surveys
- Topographic Mapping Surveys
- Aerial Mapping Control
- Elevation Certification
- Research
- R/W Plans
- Easement Plats

Randolph's surveyors utilize the latest technology to provide our clientele with the most accurate services possible.

Our surveyors also stay current with the latest trends by actively participating in professional organizations and continuing education programs.

construction engineering and observation



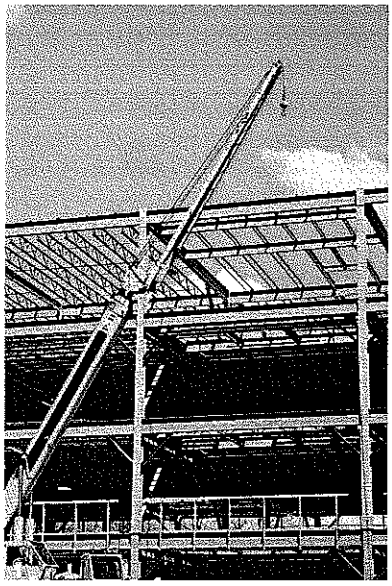


We offer the contracting industry a variety of engineering services that ensure the success of their projects. We have worked with various contractors including utility contractors, bridge contractors and general building contractors.

Providing construction engineering services to the contracting industry gives us a unique perspective that translates to efficiency with regard to our design projects. This intimate knowledge of construction practices affords us the ability to provide our clients with cost effective designs without sacrificing quality.

We offer the following construction engineering services:

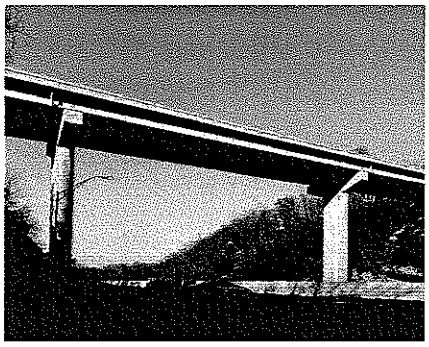
- Erection/Demolition Planning
- Construction Stakeout
- Scaffolding Design
- Shoring Design
- Shop Drawing Review
- Value Engineering
- Permitting
- Shop Drawing Review
- Pre-Bid Conferences
- Construction Administration
- Certifications



RANDOLPH ENGINEERING

transportation engineering

We have grown from a small site/civil, surveying company into an award winning, multi-faceted and dynamic engineering company with a strong focus on the design of transportation facilities. From pedestrian facilities to multi-lane highways and bridges our experience encompasses all aspects of transportation planning and design. This experience positions us to provide full service transportation engineering to meet the growing needs and challenges faced by state agencies, local municipalities and developers.



We offer the following transportation engineering services:

- Bridge Planning and Design
- Bridge Inspection and Analysis
- Highway/Roadway Planning and Design
- Storm Water Management and Design
- Highway Signing and Pavement Marking
- Maintenance of Traffic
- Right-of-Way Plans
- Computer Aided Design and Plan Preparation
- Surveying
- Permitting
- Utility Relocations
- Pedestrian Bridges

Members of our talented staff have successfully completed a range of projects for transportation agencies in West Virginia, Ohio and Kentucky as well as local municipalities and private developers.

Several of our designs have been nominated for and/or awarded the "Engineering Excellence Award" presented annually by the West Virginia Division of Highways. This commitment to excellence and client satisfaction has become the trademark of our transportation group.

RANDOLPH
ENGINEERING

WV Route 817/Winfield Road Widening

Putnam County, West Virginia

Client
West Virginia Department of Transportation

Nature of Work
In an effort to reduce traffic congestion through the downtown area as well as enhance the pedestrian facilities, the West Virginia Department of Transportation contracted with Randolph Engineering to design plans for a center turn lane widening and sidewalk project along US Route 35 through Winfield, WV

From the start we were faced with design challenges along the projects' 2.3 mile length including but not limited to storm water drainage design and right-of-way issues. The roadway grade throughout the entire length was extremely flat with limited storm water outfall locations, thus complicating the storm water drainage design. Being in an urban area the extensive right of-way involvement totaling hundreds of affected property parcels was further complicated by a very restrictive existing right-of-way corridor through a congested residential and historical business district. An additional challenge was the public outcry against the project. Working together with the WVDOT through public meetings and open communications we were able to address the design challenges as well as the public concerns to complete the design of the project.

Additional responsibilities included reinforced concrete box culvert design and signing design and layout. Surveying services included horizontal and vertical control as well as supplemental topographic mapping.

City of Hurricane – Linda Street Extension

Putnam County, West Virginia

Client
City of Hurricane

Nature of Work
In an effort to eliminate a dangerous at-grade railroad crossing, the City of Hurricane contracted with Randolph Engineering to provide preliminary and final engineering studies, cost estimates and detailed plans for the extension of an existing city owned street.

Working closely with CSX Railroad officials as well as the West Virginia Department of Highways we assisted the City in securing grant funding and approval for the project. The project involved extending a dead-end street that terminated at the existing CSX right-of-way to an existing at-grade crossing to serve multiple properties. Faced with very restrictive right-of-way issues we gained approval from CSX to locate the road within their right-of-way and parallel to their tracks. This allowed for improved safety and roadway site distance by removing the at-grade crossing.

Surveying services included horizontal and vertical control, topographic mapping as well as property research and right-of-way plan development.

Church Access Road

Putnam County, West Virginia

Client
Teays Valley Church of God

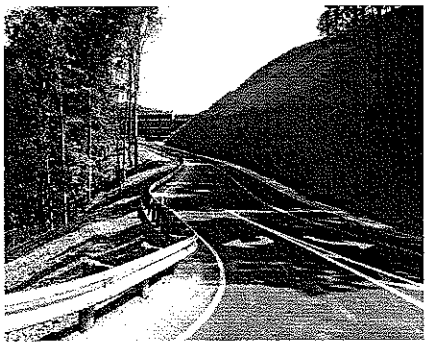
Nature of Work
When considering the location of their new church and facilities complex, the Teays Valley Church of God contracted with Randolph Engineering to provide design services for a new access road.

Working closely with the church, the West Virginia Department of Highways as well as a national gas company we provided design services for a new two-lane access road through rolling terrain. Additional project responsibilities included storm water management for the road and site as well as state and local permitting.

Surveying services included horizontal and vertical control, topographic mapping as well as property research and right-of-way plan development.

G&G Builders, Inc. – Massey Headquarters Access Road

Boone County, West Virginia



Client
G&G Builders, Inc.

Nature of Work
This project involved the study, design and preparation of contract plans and related documents for the construction of a new corporate headquarter office complex and access road located along US Route 119 in Boone County, West Virginia. The project was undertaken on the Design-Build method of delivery.

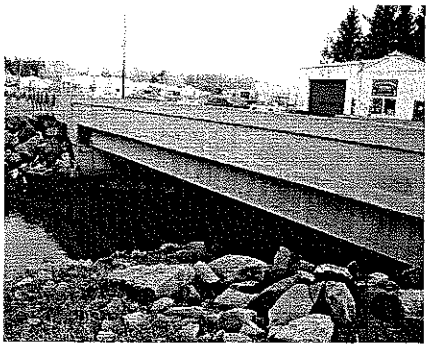
The project scope included the design of an approximately 4 acre site that overlooks US Route 119 in Boone County and included preliminary and final grading plans, storm water design including detention, utility design within the site as well as a package treatment plant and force main effluent discharge line. The site design included final paving and parking design, a helipad, decorative pond with fountain, security bollard system, walking track and secondary service road design.

Additional responsibilities included the design of a new controlled access entrance as well as northbound and southbound turn lanes on US Route 119 and an access road into the site. Working closely with the WVDOT and FHWA it was determined to relocate the existing entrance and tie the existing state owned road into the new entrance location resulting in approximately 2800 L.F. of two lane roadway.

Surveying services included horizontal and vertical control, additional mapping and construction layout.

Beaver Creek Bridges

Nicholas County, West Virginia



Client
West Virginia Department of Transportation

Nature of Work

As part of its ongoing bridge replacement program, the West Virginia Department of Transportation contracted with Randolph Engineering to design replacement bridges and associated roadway widening for the existing bridges spanning Big Beaver and Little Beaver Creeks near the town of Craigsville, WV. The existing bridges were rated structurally deficient due to significant deterioration to the deck and other key components.

Founded on fully integral abutments both bridges were single span, spread box beam structures with composite reinforced concrete decks. The bridges are located in a tangent section of roadway and are on a skewed alignment. Our scope of work also included the replacement and widening of approximately ¾ mile of roadway between the two bridges including all intersections.

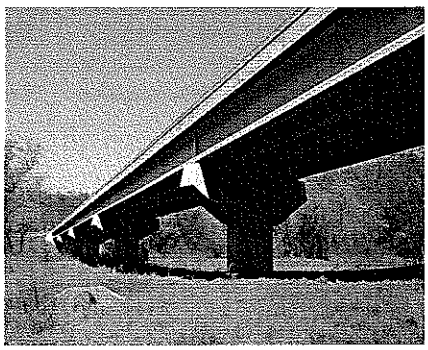
The Little Beaver Creek Bridge is a single span bridge totaling 48' and constructed on a spread concrete box beam superstructure configuration. The Big Beaver Creek Bridge is a single span bridge totaling 50' and constructed on a spread concrete box beam superstructure configuration.

Due the close proximity of Little Beaver Creek to the highway we relocated approximately 750 ft. of the existing Little Beaver Creek channel utilizing natural stream design criteria and mitigated 1.4 acres of wetlands. Additional features included the design of various stream enhancements to both Little and Big Beaver Creeks including rock vanes, gravel beds, root ball placement and riparian plantings.

Surveying services included horizontal and vertical control as well as topographic mapping and hydraulic cross sectioning of the stream.

Twelvepole Creek Bridge

Wayne County, West Virginia



Client
West Virginia Department of Transportation

Nature of Work
In an effort to alleviate public concerns over emergency response time to a new high school, the West Virginia Department of Transportation contracted with Randolph Engineering to design a new road and bridge to connect two local roads near Kenova, WV thus eliminating a long, winding route to the area high school.

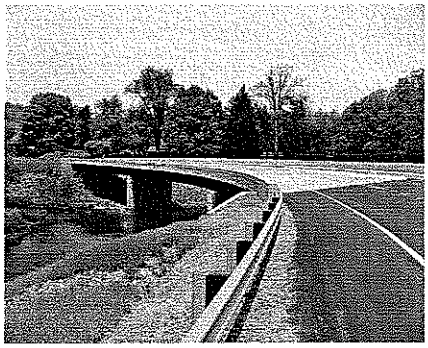
Originally the bridge was projected to be a short three span bridge but during the performance of the hydraulic analysis it was discovered that the bridge was crossing a 600' wide floodway. With WVDOT concurrence we proceeded to final design with plans for a 3/4 mile roadway alignment with a five span, 700' long bridge.

Founded on semi-integral abutments and solid shaft hammerhead piers with a composite cast-in-place reinforced concrete deck the new bridge is located on a tangent alignment with a 34' clear width and features AASHTO Type IV prestressed concrete beams.

Surveying services included horizontal and vertical control, supplemental topographic mapping and hydraulic cross sectioning of the stream.

Jackson's Mill Bridge over West Fork River

Lewis County, West Virginia



Client
West Virginia Department of Transportation

Nature of Work
As part of its ongoing bridge replacement program, the West Virginia Department of Transportation contracted with Randolph Engineering to design a replacement bridge and associated roadway re-alignment for the existing one-lane bridge spanning the West Fork River near the historic Jackson's Mill Conference Center. The existing one lane, concrete arch bridge was rated structurally deficient and functionally obsolete due to inadequate lane width and sight distance.

Founded on semi-integral abutments and solid shaft piers the new bridge consists of three spans utilizing Grade 50W steel with a composite cast-in-place reinforced concrete deck. The bridge spans 300' with a clear width of 28' and is flared along one approach and is horizontally curved. To enhance the bridge aesthetics and attempt to match the rural and historic surroundings we utilized concrete form liners in a stone pattern on most exposed concrete surfaces and utilized an anodized bronze color for the railing system. The bridge was constructed on a new alignment that required the design of approximately ½ mile of approach roadway.

Surveying services included horizontal and vertical control as well as topographic mapping and hydraulic cross sectioning of the stream.

Jodie Bridge over Gauley River

Nicholas/Fayette County, West Virginia

Client
West Virginia Department of Transportation

Nature of Work

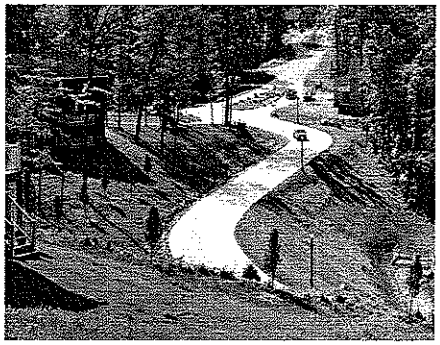
As part of its ongoing bridge replacement program, the West Virginia Department of Transportation contracted with Randolph Engineering to design a replacement bridge and associated roadway re-alignment for the existing one-lane bridge spanning the Gauley River near the town of Jodie, WV. The existing bridge was a converted five span railroad bridge that was rated structurally deficient and functionally obsolete due to inadequate lane width and sight distance.

Founded on single drilled shaft piers with hammerhead caps and semi-integral abutments the new bridge consists of three spans utilizing High Performance Steel with a composite cast-in-place reinforced concrete deck. The bridge spans a total of 468' on a skewed alignment with a clear width of 26'and is horizontally curved at both approaches. The bridge was constructed on a new alignment that required approximately ½ mile of approach roadway.

Surveying services included horizontal and vertical control as well as topographic mapping and hydraulic cross sectioning of the stream.

The Ridges at Rabel Residential Development & Access Road

Kanawha County, West Virginia



Client
AB Contracting & Development Co., Inc.

Nature of Work
This Design-Build project involved the study, design and preparation of contract documents for a 194 unit gated community to be constructed on a 152 acre parcel.

Site design responsibilities included subdivision lot layout, grading, interior roadway design, pavement design, well as the design of the storm water system and approximately 3/4 mile of two-lane access road. Included in the access road design included the design of a prefabricated two-lane arch structure to span Alum Creek.

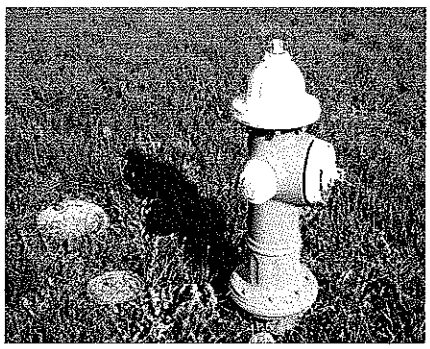
Utility design included 3 miles of sanitary force main and 2.3 miles of gravity sewer lines as well as twin 45,000 GPD packaged treatment plants. The water system consisted of 2.4 miles of 8", 6" and 2" water lines including a pump station and a 110,000 gal storage tank.

Additional design responsibilities included obtaining all permits including N.P.D.E.S. permitting for the site work as well U.S. Army Corp of Engineer permitting of the creek crossing and WV Health Department and Kanawha County Planning Commission permits.

Surveying services included horizontal and vertical control, topographic mapping for design purposes, survey plat development and construction stakeout.

Joe's Creek/Garretts Bend Water Extension

Lincoln County, West Virginia



Client
Lincoln County P.S.D.

Nature of Work
As part of their ongoing expansion plans the Lincoln County Commission contracted with Randolph Engineering to provide design and construction administration services for the Joe's Creek Extension Project.

The project included the design and preparation of construction documents, specifications and construction administration services for a system upgrade that consisted of:

- More than 5000 L.F. of 6" diameter water line
- 1800 L.F. of 2" diameter water line
- Multiple fire hydrants
- Multiple valves, and service line installations

Additional responsibilities included right-of-way easements and coordination with existing utility companies and various review, emergency and permitting agencies. Surveying services included topographic field mapping for system design as well as construction stakeout.

South Putnam PSD – Morrison Hollow Water Extension

Putnam County, West Virginia

Client
Putnam PSD

Nature of Work
In the early fall of 2005, South Putnam P.S.D. approached Randolph Engineering with a fast track project to extend water service to the Morrison Hollow and Ranch Lake Estates Subdivision. Due to the tight schedule, terrain and full foliage in the wooded areas of the project site the construction documents were developed on aerial photographs and printed in full color. This allowed us to save time that would have been consumed by traditional surveying. To further save time and expense, South Putnam P.S.D. utilized their own maintenance and construction crews to construct and install the water lines. The project was completed quickly and provided clean drinking water and fire service to more than 28 existing businesses and residences as well as 30 additional subdivision lots.

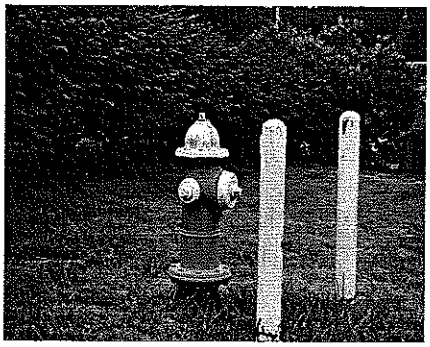
The project included the design and preparation of construction documents, specifications and construction administration services for a system upgrade that consisted of:

- 5700 L.F. of 8" diameter water line
- 3000 L.F. of 6" diameter water line
- Multiple fire hydrants and valve installations
- Service line installations and permitting for 5 creek crossings

Additional responsibilities included right-of-way research and right-of-way easements drawings and coordination with existing utility companies and various review and permitting agencies. Surveying services included tie-down survey as well as construction stakeout.

Putnam County Commission Water Improvements

Putnam County, West Virginia



Client
Putnam County Commission

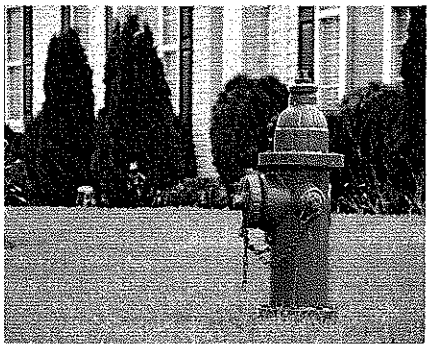
Nature of Work
The Putnam County Commission contracted with Randolph Engineering to provide professional design and construction administration services for two (2) water line extension projects to serve areas of need with the county.

We provided design, construction documents and permit applications for the following projects:

<u>Eleanor Industrial Park Extension</u>
Project included the design and preparation of construction documents, specifications and construction administration services for system upgrades consisting of more than 9,800 L.F. of 16" diameter water mains, valves, hydrants and service lines. Additional responsibilities included right-of-way easement plats and coordination with the appropriate review and regulatory agencies. Surveying services included topographic field mapping for design purposes and construction layout.

Tackett's Branch Water Extension

Putnam County, West Virginia



Client
City of Hurricane

Nature of Work
Project included the design and preparation of construction documents, specifications and construction administration services for a system upgrade that consisted of:

- More than 6000 L.F. of 6" diameter water line
- More than 3000 L.F. of 2" diameter water line
- Multiple fire hydrants, valves, and service line installations

Additional responsibilities included right-of-way easements and coordination with existing utility companies and various review, emergency and permitting agencies. Surveying services included topographic field mapping for system design as well as construction stakeout.

Town of Winfield – Sanitary Sewer Improvements

Putnam County, West Virginia

Client
Town of Winfield

Nature of Work
Throughout the years Randolph Engineering has provided design services for numerous sanitary sewer projects for the Town of Winfield ranging from collection systems and line extensions to treatment plant design. Two of the most notable include the following projects:

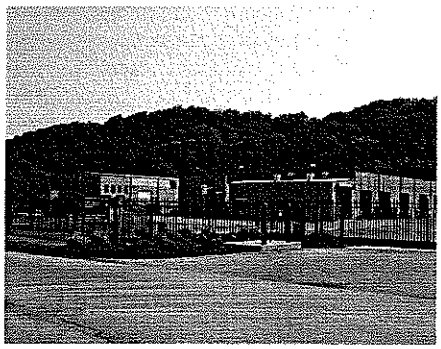
East System
This portion of the project consisted of more than 9000 LF of 8" gravity line extension as well as 5000 LF of forcemain line extensions and included the construction of 1 pump station and the installation of more than 34 manholes. Surveying services included topographic mapping for design purposes, survey plat development and construction stakeout.

West System
This portion of the project consisted of more than 12,000 LF of 8" gravity line extension as well as 1500 LF of forcemain line extensions and included the construction of 1 pump station and the installation of more than 44 manholes. Surveying services included topographic mapping for design purposes, survey plat development and construction stakeout.

All told this project totaled 4 miles of gravity sewer system and 1.3 miles of forcemain line extensions and was a vital infrastructure upgrade for the Town of Winfield.

Clark International Logistics, LLC Site Design

Putnam County, West Virginia



Client
Clark International Logistics, LLC

Nature of Work
This project involved the study, assessment, design and preparation of contract plans and related documents for the development and site expansion/renovation of the Clark International Logistics, LLC facility in Putnam County.

Design services included overall site assessment, preliminary and final site grading and design, storm water management, asphalt and concrete pavement design, utility relocation and extension design within the site as well as security fencing, secure access control, landscaping, lighting, permitting and signing design. As part of this expansion we provided foundation and structural floor slab design for a 24,000 SF pre-fabricated steel building that will be used for equipment and truck parts storage.

Additional responsibilities included topographic mapping for design services and construction stakeout as well as coordination with the general contractor and various sub-consultants during construction of the facility.

résumé

Roger K. Randolph, P.E., P.L.S.

Design Engineer/Project Manager

Experience and Qualifications:

Roger is an accomplished design engineer with more than 40 years of experience for a variety of civil, municipal, land development, structural and construction projects. His versatility, experience and wealth of knowledge provide valuable insight into possible pitfalls that may affect the success of any project. He is responsible for project management and design as well as leadership and mentoring of younger engineers on many projects in a range of disciplines.

His primary responsibilities include:

- Project Management
- Municipal – Utility Engineering
- Highway Engineering
- Bridge Engineering

Representative Project Experience:

- Mingo Logan Coal Haul Road and Bridge over CSX Railroad
- The Ridges Subdivision Access Road
- Castlenock Subdivision Access Road
- US 35 – Winfield Road Center Turn Lane
- Summit Point Subdivision Access Road
- Harman Bridge over Dry Fork
- Beaver Creek Bridges over Big & Little Beaver Creeks
- Arch Mineral Bridge over Buffalo Creek
- City of Hurricane Sewer Extensions
- Putnam PSD Water Line Extensions
- Putnam County Commission Water Line Extensions
- Toyota Motor Manufacturing Plant Storm Water Analysis
- Buffalo Sanitary Sewer Improvements
- Town of Winfield Sanitary Sewer System Improvements

Education:

B.S.C.E., Ohio University, 1967

Registration:

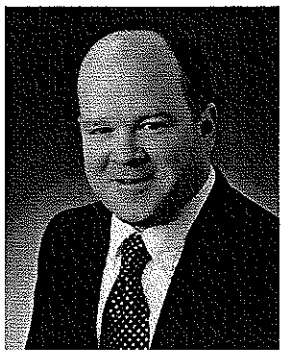
P.E. – West Virginia, OH, KY, IN & IL
P.L.S. – West Virginia

Professional Societies:

American Society of Civil Engineers
National Society of Professional Engineers

RANDOLPH
ENGINEERING

résumé



Jacob C. White, P.E.

Design Engineer/Project Manager

Experience and Qualifications:

Jacob is an experienced civil engineer with a focus on land development and highway projects with state and local municipalities as well as private developers in West Virginia and Virginia. His experience ranges from residential, commercial and industrial site development projects to large highway design projects. He is responsible for engineering, hydraulic analysis and permitting for all land development and highway projects.

His primary responsibilities include:

- Project Management
- Transportation Engineering
- Land Development Engineering
- Hydraulic Analysis - Permitting

Representative Project Experience:

- City of Hurricane – Linda Street Extension
- US Route 119/Turn Lane and Access Road (Massey Energy)
- Teays Valley Church of God – Access Road
- Castlenock Subdivision Access Road
- The Ridges Residential Development Access Road
- WV Rt. 817/Winfield Turn Lane Widening
- Martha Bridge over CSX Railroad
- Montcalm Bridge over Bluestone River
- Culloden Bridge over CSX Railroad
- C.R. 40 Bridge over Strange Creek
- WV 62/Jefferson Avenue Bridge over Crooked Creek
- US Route 52 Kermit Bypass Bridges (3)
- ODOT - Lucas County Ohio Bridge over Maumee River
- Blennerhassett Island Bridge over Ohio River - Hydraulic Analysis
- Meadowbrook Road Bridge over West Fork River - COE Permitting and Hydraulic Analysis

Education:

B.S.C.E., West Virginia Institute of Technology, 1997

Registration:

P.E. – West Virginia, Virginia, New York

Professional Societies:

American Society of Civil Engineers
Society of American Military Engineers

Certification:

N.H.I. – Bridge Inspection Team Leader

RANDOLPH ENGINEERING

résumé

Aaron C. Randolph, P.E.

Design Engineer/Project Manager

Experience and Qualifications:

Aaron is an experienced civil engineer with a focus on bridge, structural and construction engineering projects with transportation agencies in West Virginia, Kentucky, Ohio and Alabama. His experience has encompassed short to medium length bridge design, two-lane highway design, four lane highway design as well as building design, foundation design and construction engineering. He is responsible for all bridge, structure and building design projects for various state and local agencies as well as private developers.

His primary responsibilities include:

- Project Management
- Bridge Design
- Highway Engineering
- Construction Engineering

Representative Project Experience:

- US Route 19, Corridor "L" 4- Lane Highway
- Winfield Road/US 35 Center Turn Lane
- Beaver Creek Bridges over Big & Little Beaver Creeks
- Massey HQ Access Road & US 119 Widening
- Twelvepole Creek Bridge over Twelvepole Creek
- Jodie Bridge over Gauley River
- West Pea Ridge Bridge over Interstate 64
- Jackson's Mill Bridge over West Fork River
- Culloden Bridge over CSX Railroad
- Martha Bridge over CSX Railroad
- Montcalm Arch Bridge over Bluestone River
- C.R. 40 Bridge over Strange Creek
- Harman Bridge over Dry Fork
- WV 62/Jefferson Avenue Bridge over Crooked Creek
- Riverside High School Bridge over CSX Rail Yard
- Cross Lanes Bridge over Interstate 64
- US Route 35 Henderson Bridge over CSX Railroad

Education:

B.S.C.E., West Virginia Institute of Technology, 1992

Certification:

N.H.I. – Bridge Inspection Team Leader

Registration:

P.E., West Virginia

Professional Societies:

American Society of Civil Engineers
(Former President of WV Section)

RANDOLPH
ENGINEERING

résumé

Donald R. Hayes, P.L.S

Surveyor/Project Manager

Experience and Qualifications:

Don is an experienced land surveyor with a focus on land development, municipal and highway projects with local communities as well as private developers in West Virginia. His experience ranges from property surveys to aerial control, topographic mapping and property research for various highway projects. He is responsible for the management of our surveying department as well as various land development projects.

His primary responsibilities include:

- Project Management
- Surveying
- R/W Plan Design
- Land Development
- Construction Administration

Representative Project Experience:

- Brookhaven Apartment Complex Access Road
- City of Hurricane, WV – Linda Street Extension
- Twelvepole Creek Bridge over Twelvepole Creek
- The Ridges Gated Community Access Road
- Church of God Access Road
- The Ridges Subdivision Access Road
- US Route 119/Turn Lane and Access Road (Massey Energy)
- WV Route 817/Winfield Road Turn Lane Widening
- Culloden Bridge over CSX Railroad
- Montcalm Arch Bridge over Bluestone River
- Jackson's Mill Bridge over West Fork River
- Jodie Bridge over Gauley River
- Beaver Creek Bridges over Big & Little Beaver Creeks
- Martha Bridge over CSX Railroad
- C.R. 40 Bridge over Strange Creek
- WV 62/Jefferson Avenue Bridge over Crooked Creek
- West Pea Ridge Bridge over Interstate 64

Education:

A.S. West Virginia Institute of Technology, 1971

Registration:

P.L.S. – West Virginia

Professional Societies:

West Virginia Society of Land Surveyors

RANDOLPH ENGINEERING

NGE
Environmental & Geotechnical
Engineering Solutions

January 19, 2011

Mr. Larry Stricker
Randolph Engineering Company, Inc.
P. O. Box 346
Scott Depot, WV 25560

RE: Letter of Commitment
Geotechnical Drilling & Engineering Services
Army National Guard Project
Charleston Complex Access Road

Dear Mr. Stricker:

As discussed, NGE would be pleased to provide geotechnical engineering and/or drilling sub-consultant services to Randolph Engineering Company, Inc. for any work Randolph Engineering is contracted to perform on the subject project.

Please note that NGE is a registered Disadvantaged Business Enterprise (DBE) with the West Virginia Division of Highways and currently has a Statewide Agreement with the WVDOH to provide geotechnical services.

We look forward to working with Randolph Engineering Company, Inc. as a team member and are committed to providing the manpower and resources necessary to provide geotechnical services in a timely and professional manner. Please feel free to contact me if you have any questions or need additional information.

Sincerely,

NGE

John E. Nottingham, P.E.
Vice President

650 MacCorkle Ave., W St. Albans, WV 25177
(304) 201-5180 tel • (304) 201-5182 fax • www.ngeconsulting.com

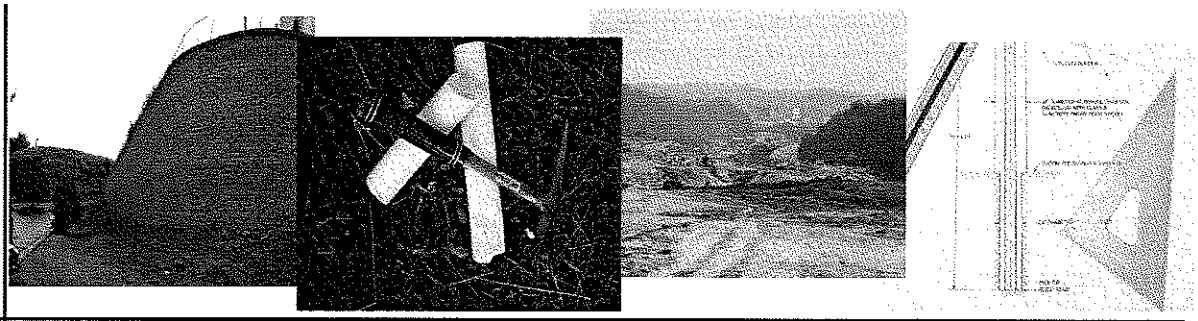
Novel Geo-Environmental, PLLC

St. Albans, West Virginia

Exceptional staff.

Exceptional results.

Allow us to show what we can do for you.



Company Overview

Novel Geo-Environmental, PLLC (NGE) is a full-service geotechnical and environmental engineering firm with offices located in St. Albans, West Virginia, and Pittsburgh, Pennsylvania. Led by an experienced management team, NGE provides quality geotechnical services to a variety of clients in both the private industry and government sectors.

In business since 2002, NGE is one of the fastest growing engineering consulting firms in the country.

Who is NGE?

Our staff includes professional engineers, geologists, scientists, construction managers, and foremen with experience in a broad range of technical disciplines. Our management team averages 15+ years of experience per person

Why NGE?

NGE is large enough to fulfill the needs of our client in-house, yet small enough to provide the personal focus each client deserves. With smaller overhead than larger companies, NGE can provide exceptional services at lower cost.

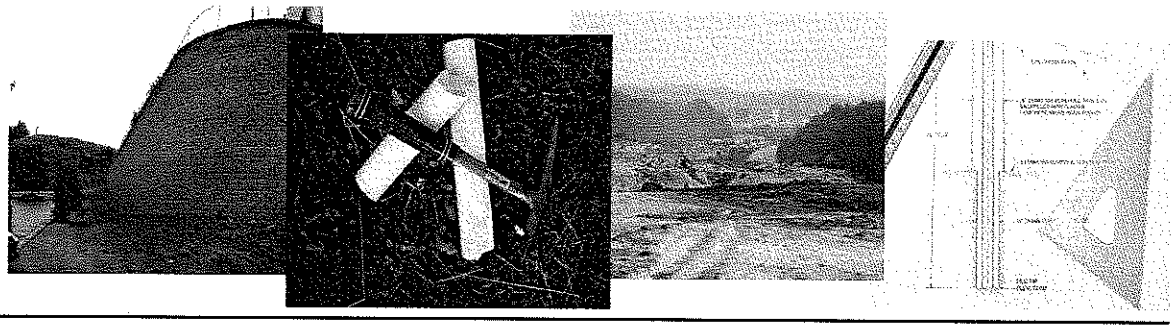
NGE is a Certified Disadvantaged Business Enterprise (DBE) in West Virginia, Pennsylvania, Ohio, Maryland, and New Jersey and is certified by the Small Business Administration as an 8(a) Small Disadvantaged Business.

West Virginia Office

806 B Street
St. Albans, WV 25177
(304) 201-5180
(304) 201-5182 (fax)
Contact: John E. Nottingham, P.E.
jnottingham@novel-ge.com

Pennsylvania Office

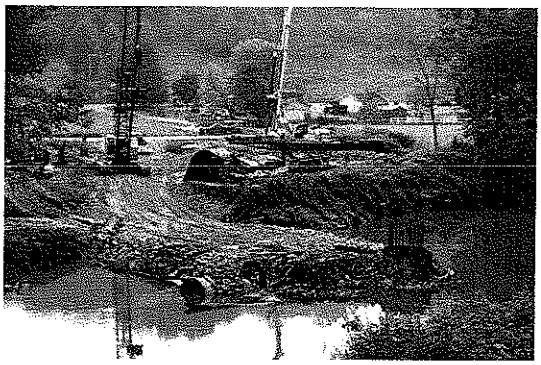
100 Commercial Street, Suite 101
Bridgeville, PA 15017
(412) 838-0115
(412) 838-0120 (fax)
Contact: Amy L. Veltri, P.E.
aveltri@novel-ge.com

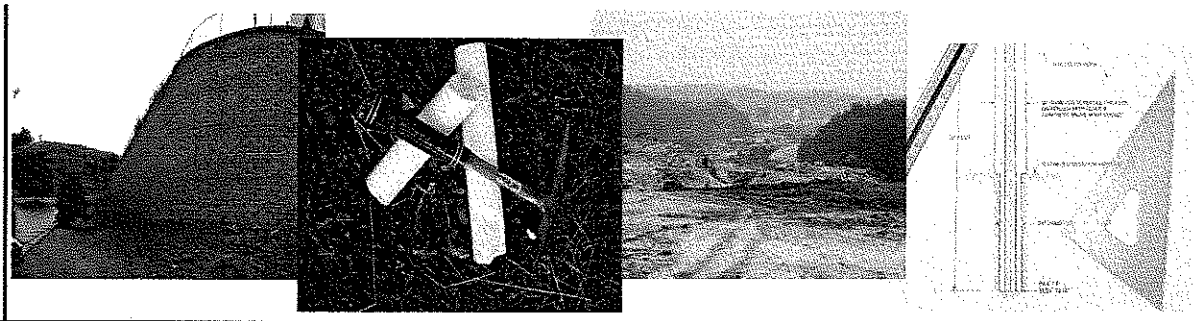


Geotechnical Engineering

The natural complexity and variability present in the subsurface requires a specialized expertise to ensure reliable results. NGE investigates and evaluates subsurface soil, rock, and groundwater conditions to analyze their response to the needs of a given project, whether they be foundation loads, site grading operations/slope configuration, or retaining wall design. A sampling of the geotechnical services NGE provides includes the following:

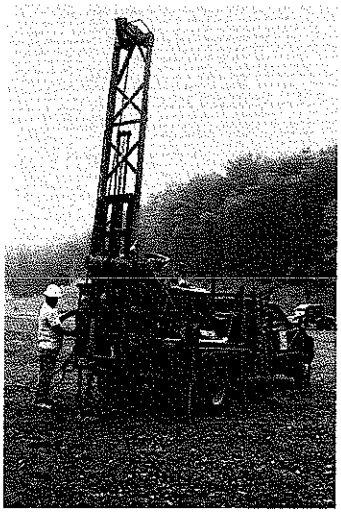
- Foundation investigations - commercial/residential construction, WVDOH bridge and roadway, airport geotechnical design, public and private utilities (water storage tanks, communications towers, etc.)
- Landslide investigations/remediation - slope design, retaining wall design
- Forensic Engineering/Insurance investigations
- Mine subsidence investigations/ground stabilization
- Dam design/rehabilitation
- Pavement analysis and design
- Groundwater seepage analysis and design





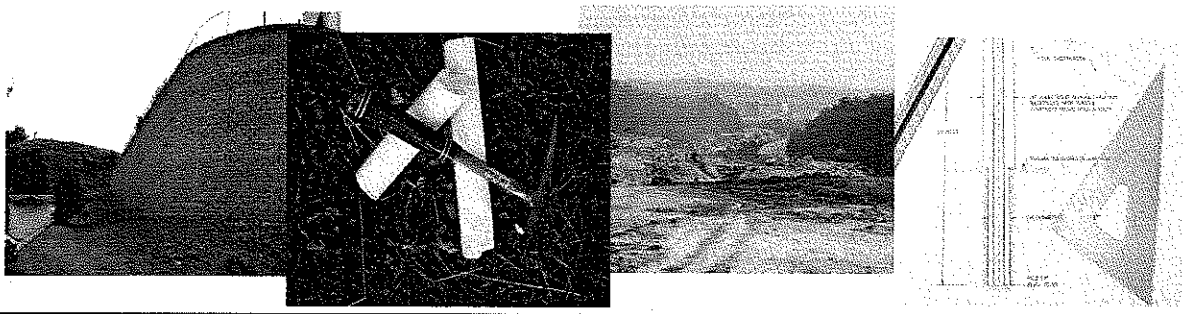
Drilling Services

NGE is equipped with a variety of versatile drilling equipment to meet the demands of our clients even in the most demanding of environments. This includes:



- Truck-mounted rotary drill rig equipped with hollow stem augers used primarily for Standard Penetration Testing (SPT). It can also be used for conventional rock coring.
- Custom manufactured state-of-the-art track-mounted rotary drill rig, also equipped with hollow stem augers for SPT sampling. This machine is also equipped for wire-line coring and is uniquely designed to access hard-to-reach areas (such as rugged terrain or limited access) with a minimum of disturbance.
- Portable Tri-Pod drill able to perform SPT sampling in areas that are inaccessible to conventional drilling equipment.
- Dynamic Cone Penetrometer - portable device designed to provide comparable SPT "N-values" in areas with very limited access

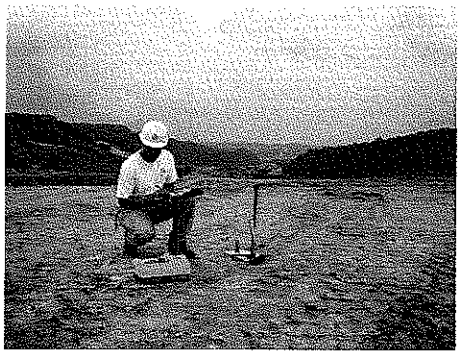
NGE also provides monitoring well installation services that meet the requirements for the State of West Virginia Certified Monitoring Well Driller program.

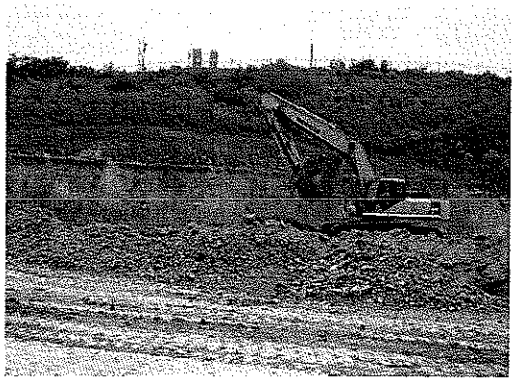


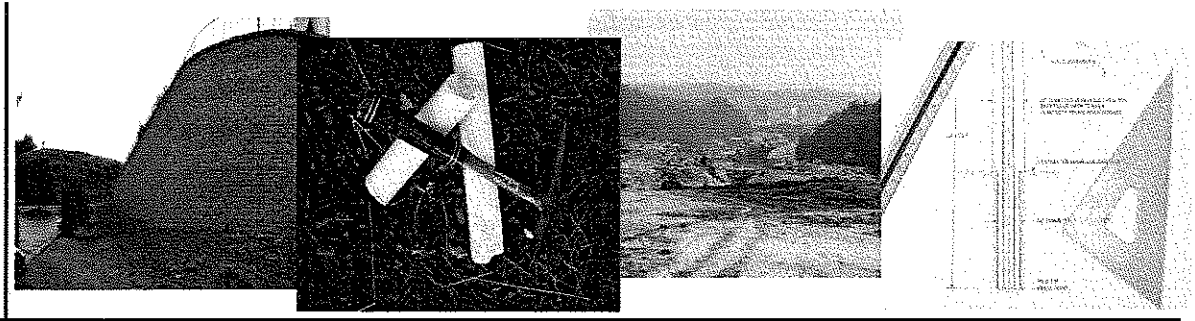
Construction Monitoring and Inspection Services

NGE offers inspection services to support a wide variety of construction projects, including highway, building, and airport. Our technicians are qualified and certified in a variety of services and will meet the specific needs of the client in an efficient and competent manner. NGE is also a West Virginia certified DBE firm as well as a federal Disadvantaged Business (8[a]). NGE can provide and manage the following services:

- Materials Testing and Analysis (concrete, asphalt, fill placement)
- Independent Construction Inspection
- Contractor Submittal and Shop Drawing Review
- Documentation and Process Verification
- Bidding Assistance and Analysis
- Cost Estimating and Cost Control Monitoring
- Design Review
- Value Engineering
- Project Partnering
- Quality Assurance Monitoring

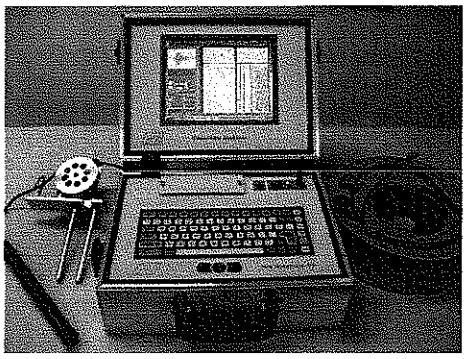






Laboratory Testing Services

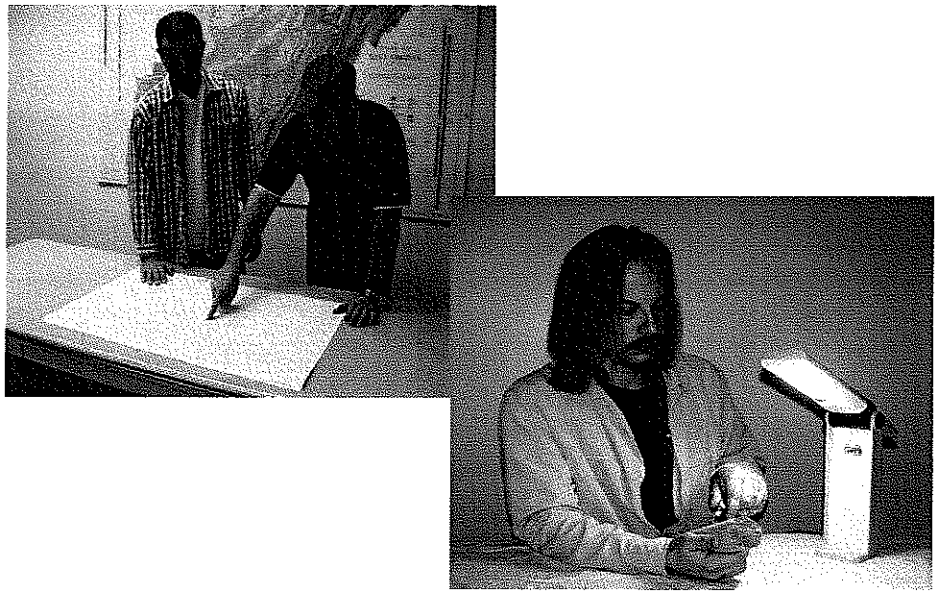
NGE can provide laboratory geotechnical testing in accordance with ASTM standards under controlled conditions to further estimate the engineering properties of soil and rock materials. Typical laboratory testing includes soil classification, compaction, compressibility, swell potential, and permeability.



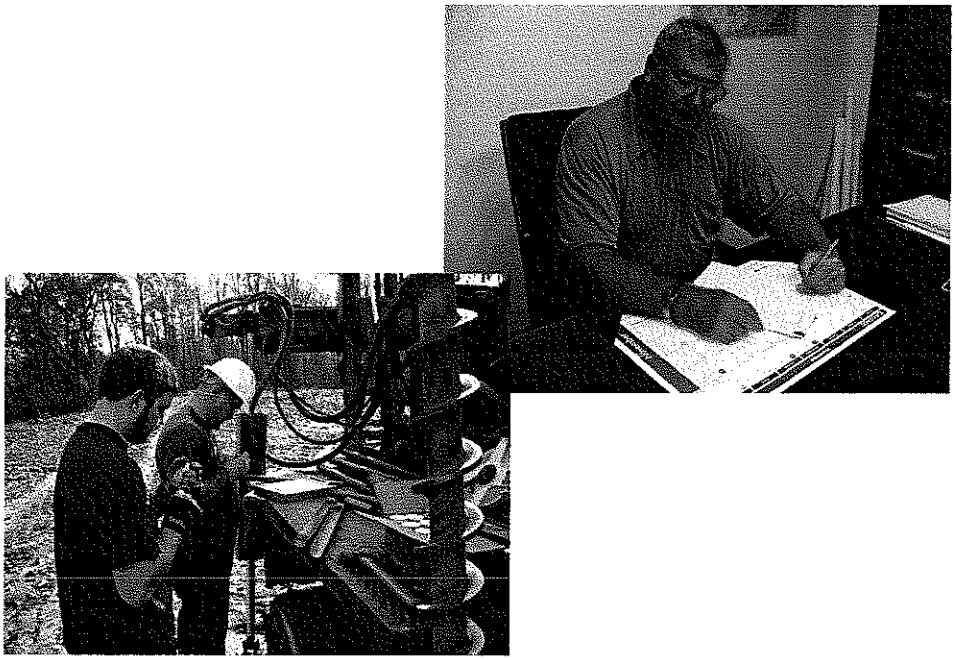
Crosshole Sonic Logging (CSL)

NGE provides Crosshole Sonic Logging (CSL) to test the integrity of drilled concrete shafts. CSL testing is a non-destructive method that checks the homogeneity and integrity of concrete in a deep foundation by sending ultrasonic pulses through the concrete from one probe to another. The test measures the propagation time and relative energy of the ultrasonic pulse between parallel access tubes (access tubes typically consist of 2-inch diameter steel tubes attached to the drilled shaft reinforcement cage). The pulse arrival time (a.k.a. first arrival time (FAT)) and energy are affected by the concrete. Uniform concrete yields consistent arrival times with reasonable wave speed and energy. Non-uniformities such as zones of poor quality concrete, honeycombing, voids, and soil inclusions exhibit delayed arrival times with corresponding reduced signal energy.

NGE's broad range of experience in each of the previously listed services enables us to provide our clients with high-quality geotechnical engineering, remediation and construction services while meeting budgets and deadlines.



Personnel



Amy L. Veltri, P.E., DEE

Over eleven years of experience as an environmental and civil engineer in consulting and industry. Currently serving as president of a geotechnical and environmental engineering consulting firm. Experience includes extensive management of personnel and large projects, including management of project schedules, scope of work, and budgets. Personnel management includes selection of project staffing, staff reviews, and mentoring. Significant experience in air quality for various industrial clients including Title V permitting and compliance, emissions inventories and control technology assessments. Completed numerous multi-media regulatory compliance audits and Phase I site assessments. Assisted clients with ISO 14001 registration process. Assisted industrial clients with NPDES permit compliance including completion of DMR's and permit renewal and negotiation. Completed general construction monitoring services including density testing and concrete testing.

Fields of Competence

- Personnel Management
- Project Management (schedule and budget)
- Air Quality Regulations/Compliance
- Wastewater Treatment/Permitting
- Environmental Management Systems (ISO 14001)
- Process Safety Management/Risk Management Planning
- Multimedia Compliance Audits
- Hazardous Waste Training
- Stormwater Permitting/Pollution Prevention Plans
- Spill Prevention Control and Countermeasure Plans
- Construction Monitoring and General Geotechnical Engineering

Education

- M.S., Civil Engineer, West Virginia University, 1996
- B.S., Civil Engineer, West Virginia Institute of Technology, 1989
- OSHA 1910.120 40-hour HAZWOPER Training, 1991

Registration/Certifications

- Registered Professional Engineer in Pennsylvania. Registration No.: PE-050393-E, Registration Date: 08/96
- Registered Professional Engineer in West Virginia. Registration No.: 14241, Registration Date: 09/99
- Diplomat Environmental Engineer, American Academy of Environmental Engineers, 07/02
- Certified Wastewater Treatment Plant Operator, Class A in Pennsylvania. Certificate No.: T3770, Registration Date: 06/01
- Certified ISO 14001 Lead Assessor, 04/02

Employment History

- August 2002 – Present
  President, Novel Geo-Environmental, LLC
- August 1998 – August 2002
  Senior Project Manager, ERM
- November 1995 – August 1998
  Regional Environmental Coordinator, US Airways
- March 1992 – November 1995
  Project Engineer, ERM
- January 1990-September 1990
  Staff Engineer, ERM

John E. Nottingham, P.E., P.S.

Mr. Nottingham has served as lead Geotechnical Engineer on numerous government and commercial design and construction projects. His responsibilities on these projects include direction and coordination of all geotechnical engineering activities. Duties on these projects have included foundation investigation report production, foundation and retaining wall design, fill embankment and cut slope design, dam design and analysis, slope stability analysis, pavement design, design of drainage systems, supervision of subsurface drilling programs, field activity coordination, laboratory data computation and processing, performance of field work, client relations, and supervision of staff and project level geotechnical engineers.

Fields of Competence

- Highway & Airport Geotechnical Design
- Foundation Investigations
- Pavement Analysis and Design
- Landslide Analysis & Remedial Design
- Ground Water and Seepage Analysis & Design
- Retaining Wall Design
- Mine Subsidence Investigations
- Forensic & Insurance Investigations
- Construction Monitoring
- Personnel Management
- Project Management (schedule and budget)
- Project Estimating

Education

- B.S., Civil Engineering, West Virginia University - 1987
- M.S., Civil Engineering, West Virginia University - 1995

Registration/Certifications

- Registered Professional Engineer in West Virginia. Registration No. 12357 (since 1994)
- Registered Professional Surveyor in West Virginia. Registration No. 1495 (since 1995)

Employment History

- November 2002 – Present
  Branch Manager, Novel Geo-Environmental, LLC
- 1997 – November 2002
  Geotechnical Services Manager, Triad Engineering, Inc.
- 1996 – November 2002
  Senior Engineer, Triad Engineering, Inc.
- 1993 – 1996
  Project Engineer, Triad Engineering, Inc.
- 1988 – 1993
  Staff Engineer, Triad Engineering, Inc.

Larry C. Nottingham, PhD, PE

Mr. Nottingham served as a Principal Engineer at Triad Engineering, Inc. for over 25 years before joining the professional staff at NGE. During that time he has accumluted a broad range of experience in the numerous disciplines of geotechnical engineering. Mr. Nottingham also served as a professor and department chair of the Civil Engineering Department at the West Virginia University Institute of Technology in Montgomery, West Virginia. Mr. Nottingham was involved with consultation and review of many subsidence related projects performed for BRIM as well as the WVDEP.

Fields of Competence

- Foundation Investigations
- Landslide Analysis & Remedial Design
- Mine Subsidence Investigations
- Highway & Airport Geotechnical Design
- Pavement Analysis & Design
- Retaining Wall Design
- Forensic & Insurance Investigations
- Expert Witness Consultation
- Ground Water and Seepage Analysis & Design
- Dam Analysis & Design
- Personnel Management
- Project Management
- Project Estimating

Education

- B.S.C.E., Civil Engineering, West Virginia Institute of Technology, 1965
- M.S.C.E., Civil Engineering, Universtiy of Pittsburgh, 1966
- Ph.D., Civil Engineering, University of Florida, 1975

Registration/Certifications

Registered Professional Engineer in West Virginia, Kentucky, and Ohio

Employment History

- May 2005 – Present
  Senior Egineer, Novel Geo-Environmental, PLLC
- 1979 – May, 2005
  Principal Engineer, Triad Engineering, Inc.
- 1989 - 1994
  Professor and Department of Civil Engineering
  Chair, West Virginia Institute of Technology
- 1975 - 1979
  Senior Engineer, Fugro Gulf, Inc., Houston, Texas
- 1970 - 1974
  Project Engineer, Florida Department of Transportation
- 1967 – 1970
  Project Engineer – Ackenheil & Associates, Inc.

Chuck Montgomery, P.G

Mr. Montgomery has served as Project Geologist on numerous projects for clients in private industry as well as for state and federal agencies. He has performed a variety of roles in various projects from office management activities to coordination of field activities. Duties on these projects have included foundation investigation report production, mine subsidence evaluation and assessment, supervision of subsurface drilling programs, field activity coordination, laboratory data computation and processing, performance of fieldwork, client relations, and supervision of staff.

Fields of Competence

- Foundation Investigations
- Landslide Analysis
- Mine Subsidence Investigations
- Seismic Site Class evaluation, per International Building Code (IBC) 2000 edition.
- Forensic & Insurance Investigations
- Personnel Management
- Project Management (schedule and budget)
- Project Estimating

Education

- B.S., Geology, Marshall University - 1991
- OSHA 1910.120 40-hour HAZWOPER Training, 1992

Registration/Certifications

- Registered Professional Geologist in Kentucky. Registration No. KY-2258 (since 1999)
- Certified Monitoring Well Driller in West Virginia
- OSHA 1910.120 40-hour HAZWOPER Training, 1992

Employment History

- February 2004 - Present
  Project Manager, Novel Geo-Environmental, LLC
- 1996 - February 2004
  Project Geologist, Triad Engineering, Inc.
- 1992 -1996
  Staff Geologist, Triad Engineering, Inc.

Gene Brown, E.I.

Mr. Brown has served as Staff Engineer on numerous projects for clients in private industry as well as for state and federal agencies. He has performed a variety of roles in various projects from office management activities to coordination of field activities. Duties on these projects have included foundation investigation report production, slope stability analysis, dam analysis, AutoCAD drafting, supervision of subsurface drilling programs, field activity coordination, field portion of environmental site assessments, structural inspections, GPS and conventional surveys, laboratory data computation and processing, performance of fieldwork, client relations, and supervision of staff.

Fields of Competence

- Foundation Investigations
- Landslide Analysis & Remedial Design
- Seismic Site Class evaluation, per International Building Code (IBC) 2000 edition.
- Construction Monitoring
- Personnel Management
- Project Management (schedule and budget)
- Project Estimating

Education

- BS, Civil Engineering Technology, Bluefield State College, 2000
- BS, Architectural Engineering Technology, Bluefield State College, 2000

Registration/Certifications

- Engineer Intern, West Virginia
- OSHA 1910.120 40-hour HAZWOPER Training, 2005

Employment History

- October 2006 - Present
  Staff Engineer, Novel Geo-Environmental, LLC
- 2001 - 2006
  Staff Engineer, Terradon Corporation
- 2000 - 2001
  Survey Technician, John E. Chance & Associates, Inc
- 1999
  Engineer Intern, Burgess & Niple, Ltd.

Christopher T. Dunlap

Mr. Dunlap has served as an engineering technician/field inspector on numerous government and commercial construction projects. His duties on these projects have included quality assurance/quality control (QA/QC), construction oversite and testing, coordination of field activities, liaison between general contractor and engineer, and project reporting. Mr. Dunlap also has experience with drilling inspection and computation of laboratory data.

Fields of Competence

- Fill placement monitoring/compaction
- Concrete testing and sampling
- Asphalt testing/compaction
- Project Management
- Drilling Inspection
- Project Documentation/Reporting

Education

- A.S., Mechanical Engineering Technology, WVU Institute of Technology, 2000

Registration/Certifications

- Certification for WV DOH Compaction Technician.
- Certification for WV DOH Concrete Technician/Inspector.
- Certification for WV DOH Asphalt Inspector.
- American Concrete Institute (ACI) Certified

Employment History

- July 2004 -Present
  Staff Engineer, Novel Geo-Environmental, LLC
- August 2000 -July 2004
  Field Technician, Triad Engineering, Inc.

Larry E. Easter

Mr. Easter has approximately 39 years experience as quality control technician/inspector and environmental technician. As a geotechnical technician, he has provided quality control overnight and testing services on numerous commercial and industrial projects. His duties have included compaction and concrete testing and observations, liaison between the general contractor and Engineer/Owner, and project reporting. He also has experience as a soils and concrete laboratory technician and as an engineering draftsman.

Fields of Competence

- Compaction testing and fill placement monitoring
- Concrete testing and sampling
- Drilling inspection
- Project documentation/reporting
- Geotechnical laboratory testing
- Concrete laboratory testing
- AutoCAD drafting and design

Education

- Certificate - Computer Aided Drafting and Design; Ben Franklin Career Center, 2005
- Troxler Nuclear Moisture-Density Gauge Certification, 2005

Employment History

- 1970 - 2004
  Flexsys America
  Environmental Technician
  Laboratory Analyst
  Operating Technician
  Master Mechanic
- 1966 - 1970
  A. C. Ackenheil & Associates, Inc.
  Compaction Technician
  Concrete Technician
  Soils & Concrete Laboratory Technician
  Engineering Draftsman

PROJECT APPROACH

This project consists of providing civil and geotechnical engineering design services for an approximately 850' access road to access a planned future building site to be located behind the existing annex building.

Randolph Engineering proposes the following project approach:

- Conduct an on-site kick off meeting with all involved parties including Army Guard personnel, WVDEP, Utility Representatives, WVDOT and the Design Team.
- Conduct field survey for development of topographic mapping.
- Begin permit application process concurrently with roadway alignment design.
- Proceed with development of preliminary (50%) plans for agency reviews.
- Conduct a field review of the 50% plan submission for agency comments.
- Proceed with development of pre-final (90%) plans and specifications for agency approval.
- Prepare final plans, specifications and bid documents.
- Provide construction administration including preparing advertisement for bids, respond to RFI's, conduct bid opening and analysis of bids and award the project.
- Provide construction observation and construction services as required.
- Conduct final project walk-thru and project closeout.