



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

Header 1

[List View](#)
General Information | [Contact](#) | [Default Values](#) | [Discount](#) | [Document Information](#) | [Clarification Request](#)
Procurement Folder: 852925

SO Doc Code: CEOI

Procurement Type: Central Contract - Fixed Amt

SO Dept: 1400

Vendor ID:
SO Doc ID: AGR2100000001

Legal Name: STANTEC CONSULTING SERVICES INC

Published Date: 3/12/21

Alias/DBA:
Close Date: 4/6/21

Total Bid: \$1.00

Close Time: 13:30

Response Date:
Status: Closed

Response Time:
Solicitation Description:
Responded By User ID:
Total of Header Attachments: 1

First Name:
Total of All Attachments: 1

Last Name:
Email:
Phone:



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

State of West Virginia
Solicitation Response

Proc Folder: 852925
Solicitation Description: Expression of Interest Engineering Services
Proc Type: Central Contract - Fixed Amt

Solicitation Closes	Solicitation Response	Version
2021-04-06 13:30	SR 1400 ESR04022100000006775	1

VENDOR

000000102546
STANTEC CONSULTING SERVICES INC

Solicitation Number: CEOI 1400 AGR2100000001
Total Bid: 1
Response Date: 2021-04-06
Response Time: 09:07:39
Comments:

FOR INFORMATION CONTACT THE BUYER
Jessica S Chambers
(304) 558-0246
jessica.s.chambers@wv.gov

Vendor
Signature X

FEIN#

DATE

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Engineering Services				1.00

Comm Code	Manufacturer	Specification	Model #
81000000			

Commodity Line Comments:

Extended Description:

Engineering Services



EXPRESSION OF INTEREST TO PROVIDE PROFESSIONAL ENGINEERING SERVICES

CEOI 1400 AGR2100000001

State of West Virginia

Department of Administration, Purchasing Division

Civil Engineering Services in Support of **GUTHRIE AGRICULTURAL CENTER SITE PLANNING**

Submitted via wvOASIS:
April 6, 2021 1:30 PM ET



West Virginia Department of Agriculture
Kent Leonhardt, Commissioner

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Imagery Date: 10/23/2019 38°26'37.73" N 81°40'46.59" W elev 1125 ft eye alt 3026 ft



April 6, 2021

Dear Ms. Chambers:

Submitter

Stantec Consulting Services Inc.
111 Elkins Street
Fairmont, WV 26554-4021
Office 304-367-9401

Reference

CEOI 1400 AGR2100000001
Expression of Interest (EOI)
CIVIL ENGINEERING SERVICES
IN SUPPORT OF
GUTHRIE AGRICULTURAL CENTER
SITE PLANNING

Attention

Jessica S. Chambers
State of West Virginia
Department of Administration,
Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

Submitted electronically via wvOASIS

Stantec Consulting Services Inc. (Stantec) is pleased to respond to the State of West Virginia's solicitation for expression of interests to provide civil engineering services in support of Guthrie Agricultural Center site planning.

We trust our enclosed EOI reveals our commitment to doing things right in everything we do, from professional excellence in our project work to taking responsibility for projects within our communities. We focus on delivering comprehensive consulting services, recognizing that true value is measured in adaptability to need, comprehensiveness, and quality of service delivery.

We understand the importance of this project for the State. We have worked extensively across West Virginia on multiple paving/civil engineering/environmental/site civil/landscape architecture projects, so we understand the project complexities.

HOW CAN WE HELP THE STATE OF WEST VIRGINIA REACH YOUR GOAL?

- We are committed to providing you with rapid response and necessary resources from our Fairmont office. Local support will also be available as needed from our Charleston office.
- We offer you streamlined communications with a single point of contact. As the principal-in-charge, I will always strive to deliver surprise-free management on assignments delivered by the Stantec team.
- You can rest assured knowing our in-house quality controls are in place so you can count on getting deliverables on time and completed correctly.
- The Stantec engineering, construction, and landscape architecture professionals assembled for this EOI form a well-seasoned, cohesive team that has worked together before and is ready to get started.

We look forward to again serving the State of West Virginia. Please feel free to contact me should you have any questions, and thank you for your consideration!

Regards,

A handwritten signature in black ink, appearing to read "Richard Gaines".

Richard Gaines, PE

Principal

Direct 304-816-5190 // Mobile 681-209-0709

Email richard.gaines@stantec.com



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

State of West Virginia
Centralized Expression of Interest
Architect/Engr

Proc Folder: 852925			Reason for Modification:
Doc Description: Expression of Interest Engineering Services			
Proc Type: Central Contract - Fixed Amt			
Date Issued	Solicitation Closes	Solicitation No	Version
2021-03-12	2021-04-06 13:30	CEOI 1400 AGR2100000001	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code: 000000102546
Vendor Name : Stantec Consulting Services Inc.
Address : Stantec Consulting Services Inc.
Street : 111 Elkins Street
City : Fairmont
State : WV **Country :** USA **Zip :** 26554-4021
Principal Contact : Richard L. Gaines, PE
Vendor Contact Phone: 304-816-5190 (Direct) **Extension:** N/A

FOR INFORMATION CONTACT THE BUYER

Jessica S Chambers
(304) 558-0246
jessica.s.chambers@wv.gov

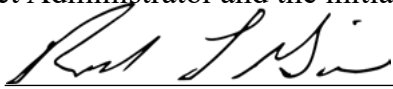
Vendor
Signature X

FEIN# 11-2167170

DATE April 6, 2021

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

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



Principal

(Name, Title)

Richard L. Gaines, PE, Principal

(Printed Name and Title)

111 Elkins Street, Fairmont, WV 26554-4021

(Address)

304-816-5190 (Direct)

(Phone Number) / (Fax Number)

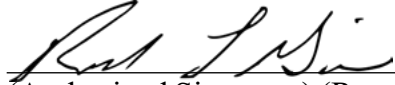
richard.gaines@stantec.com

(email address)

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

Stantec Consulting Services Inc.

(Company)



Richard L. Gaines, PE, Principal

(Authorized Signature) (Representative Name, Title)

Richard L. Gaines, PE, Principal

(Printed Name and Title of Authorized Representative)

April 6, 2021

(Date)

Phone = 304-367-9401 Fax = 304-367-9403

(Phone Number) (Fax Number)

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Stantec Consulting Services Inc.

Authorized Signature: [Signature] Date: 3/30/2021

State of West Virginia

County of Marion, to-wit:

Taken, subscribed, and sworn to before me this 30th day of March, 2021.

My Commission expires February 20, 2024.

AFFIX SEAL HERE



NOTARY PUBLIC

[Signature]

Purchasing Affidavit (Revised 01/19/2018)

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01

Firm's Qualifications



We're active members of the communities we serve.
That's why at Stantec, **we always design with community in mind.**

Stantec: Who We Are

The Stantec community unites more than 22,000 employees working in over 350 locations across 6 continents. We collaborate across disciplines and industries to bring traffic, stormwater drainage, buildings, energy and resource, and infrastructure projects to life. Our work—professional consulting in planning, engineering, architecture, interior design, landscape architecture, surveying, environmental sciences, project management, and project economics—begins at the intersection of community, creativity, and client relationships.

Locally, Stantec is recognized as an industry expert in architectural/engineering, landscape architecture, and urban design and planning services for neighborhoods and commercial areas. We have been part of the community in this region since 1954 and currently serve our local clients from our offices in Fairmont and Charleston. We have more than 500 professionals in this region, and they are available to provide their services to successfully complete all required design services. With a long-term commitment to the people and places we serve, Stantec has the unique ability to connect to projects on a personal level and advance the quality of life in communities across West Virginia.



02

Technical Expertise



Successful communities are created where inventive design of outdoor spaces seamlessly intersects with everyday life.

Expertise

We're engineers, architects, and planners. We're also students, parents, and teachers. As members of the Charleston community, we're personally invested in creating memorable environments near where we live and work. When you work with Stantec, you work with an award-winning, local team. We pride ourselves on hand-selecting a team for every project—putting the right people in the right places.

The Stantec team selected for this project has extensive throughout West Virginia with all aspects of land development—related civil engineering. Site grading and paving, stormwater planning, utility and road design, geotechnical, landscaping, environmental reports, site inspection, and construction administration and monitoring are all things our team does daily. We are experts at site planning, expansion, and access evaluation for capital improvements.

We create and improve communities by planning, developing, designing, and implementing infrastructure. Our civil engineers have a wide range of project experience as well as market sector specialties. Civil engineering services include site selection definition criteria and development; site development and servicing, including interfacing with municipal services; stormwater management; road and traffic applications onsite and interfacing with external services; and water use and wastewater / solid waste treatment.

Landscape architecture combines beauty and function with sustainability. At Stantec, we create and integrate inspired landscapes that reflect context and user needs. Through analysis, planning, and design, we create sustainable environments that are functional, innovative, and attractive. Our range of projects is broad, including neighborhood and community design, urban design, park and recreation planning and design, resort design, landscape reclamation and restoration, heritage conservation, as well as landscape assessments and development plans. From concept and design development through to construction drawings and contract administration, we generate creative ideas that are economically viable and environmentally responsive.



03

Management and Staffing Capabilities



Our project managers are highly experienced in task staffing and scheduling, budget management, QA/QC (including peer reviews), and decision making coordination.

Management and Staffing Capabilities

The State's Guthrie Agricultural Center project can truly be exceptional. You envisioned it that way, and with strong project management, that vision can be realized. That's where our project managers and technical designers bring their expertise to your project. We share your vision. We have well-defined project approaches that keep your project on track and manage any unforeseen events. Some of our key tools include:

CRITICAL PATH METHOD (CPM) SCHEDULING:

Stantec will develop a CPM schedule outlining the project's major activities and related durations. We use MS Project as our primary scheduling software.

BUDGET CONTROL: We know it's important to come in on budget. Our enterprise software application allows management of project design expenditures through close monitoring and earned value analysis reporting. We draw on our extensive project knowledge base to provide early project scoping costs, updates, and final construction estimates.

QUALITY CONTROL / QUALITY ASSURANCE:

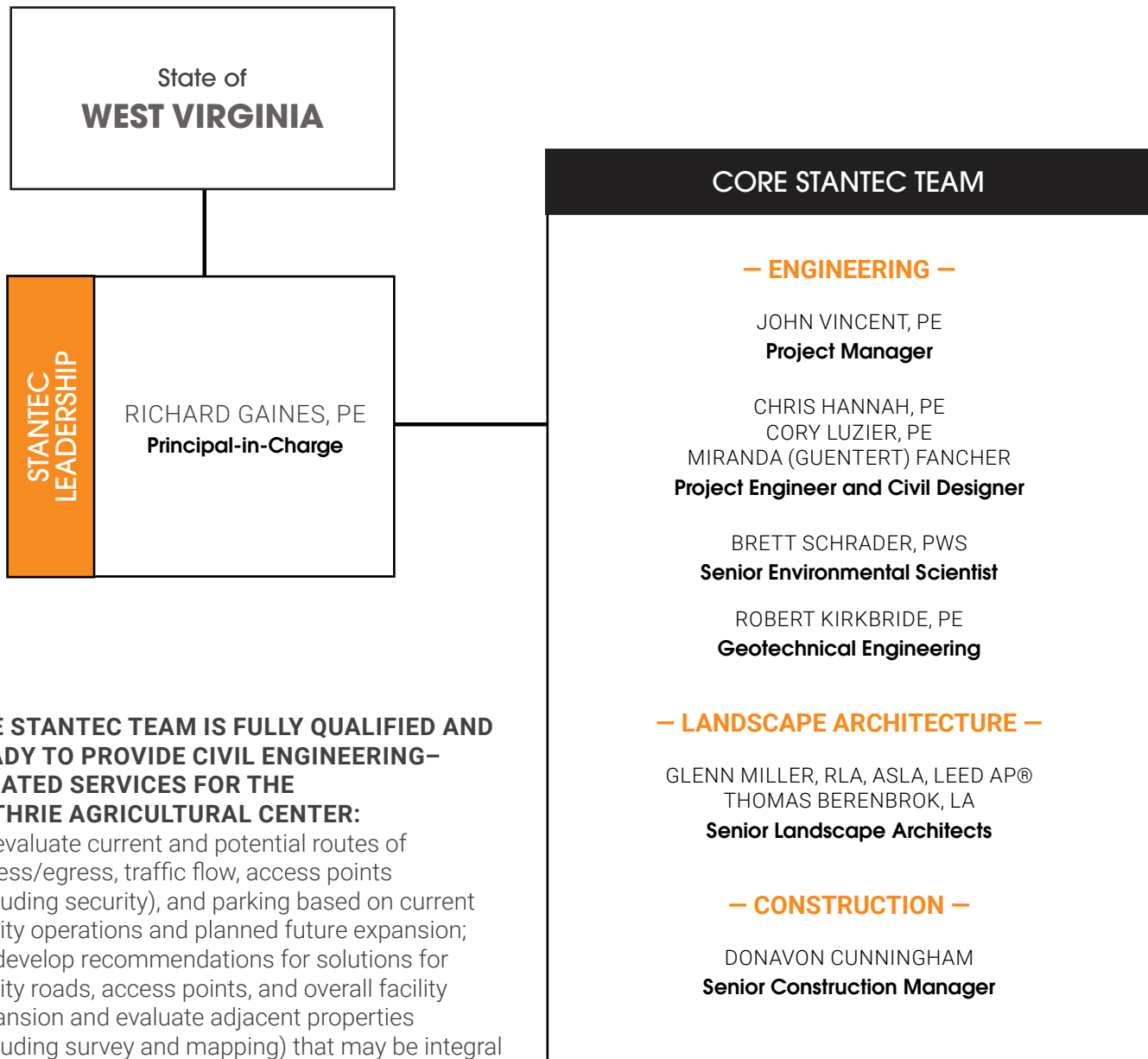
At Stantec, we like to raise the bar on excellence. With our comprehensive quality program, we deliver services that

have been through a detailed review, thereby limiting errors and omissions to provide you with high-quality products.

VALUE-ADDED SERVICES: Because we have experts and experience in a diverse range of projects, we bring our knowledge of various construction options to designing a project that will best meet your needs.

The Stantec team is made up of experienced specialists who work as an integrated team to overcome design challenges with creative problem solving. We look to continuing our relationship with the State of West Virginia. Our local presence and experience mean you get an engaged team that serves as an extension of yours. Our professional staff are local and responsive to your needs and can attend one-on-one meetings to discuss challenges and solutions specific to your project in your location. Because we recognize the importance of gauging current and anticipated workloads, our enterprise systems ensure a clear picture that enables us to realistically forecast staffing needs. When a project requires specific expertise, we pick and match the right people. This approach provides the State with access to additional qualified resources from within Stantec who are available to support a project whenever it kicks off.

Guthrie Project Organization Chart



THE STANTEC TEAM IS FULLY QUALIFIED AND READY TO PROVIDE CIVIL ENGINEERING-RELATED SERVICES FOR THE GUTHRIE AGRICULTURAL CENTER:

- (1) evaluate current and potential routes of ingress/egress, traffic flow, access points (including security), and parking based on current facility operations and planned future expansion;
- (2) develop recommendations for solutions for facility roads, access points, and overall facility expansion and evaluate adjacent properties (including survey and mapping) that may be integral to those solutions;
- (3) design alternate routes of ingress/egress, secure access points, and parking improvements to support future facility operations;
- and (4) assist with bid evaluation and provide construction oversight and inspection services for facility road, traffic flow/access, and parking improvements.

Resumes follow the staffing plan (following page). Copies of relevant individual college diplomas, professional licenses, and/or certifications follow each professional's resume.

Stantec Staffing Plan

Mr. **John Vincent, PE**, will serve as the project manager. John brings more than 27 years of professional experience managing civil engineering projects for the State and various West Virginia municipalities—including planning, design, and construction. John understands that during construction, time is money. Submittal reviews, inspections, and responses to RFIs must be turned around quickly to keep the contractor moving and avoid delays. John will hold monthly progress meetings and coordinate with the State's team assigned to the Guthrie project.

Mr. **Richard Gaines, PE**, will be Stantec's principal-in-charge of the Guthrie project, and he will serve as the direct point of contact for the State of West Virginia. Richard has served countless state, municipal, and private clients for more than 33 years and is currently working on design and construction contracts for the City of Huntington and WVDOH on the Hall Greer Boulevard (State Project U306-10-17.18 00); Severn Development Company, LLC, on Lauryn Lane Gardens (civil/site, land development); and with the Eastern West Virginia Community Action Agency (Maplewood, Inc.) on civil/site, land development. He understands what it takes to deliver a successful project. As a principal of Stantec, Richard can ensure company resources are dedicated to the Guthrie project and are available at all times.

Mr. **Chris Hannah, PE**, will be responsible for planning and design phases of the Guthrie project. Mr. **Cory Luzier, PE**, and **Ms. Miranda (Guentert) Fancher** are junior engineers who will assist Chris with planning and design for Guthrie.

Mr. **Donavon Cunningham** will serve as construction manager. Donavon is familiar with the project and has previously assisted with site and stormwater design and permitting, constructability reviews, and QA/QC on multiple projects throughout West Virginia, many for WVDOT/WVDOH. He will lead field inspections and coordination with the contractor, inspectors, operations staff, and design engineer. Donavon will lead the review of the contractor's submittals, RFIs, and pay applications. He has is highly experienced with providing field inspections, coordinating with inspectors, producing inspection reports, and coordinating other consultants. He is familiar with typical permitting requirements for civil engineering projects like Guthrie, so he can ensure the requirements are met. He understands that during construction, time is money, so submittal reviews, inspections, and responses to RFIs must be quickly turned around to keep the contractor moving and avoid delays.

Mr. **Richard Gaines, PE**, is a senior engineer who has provided quality control (QC) reviews for many similar projects. He therefore has a good understanding of the Guthrie project. **Richard** also has an extensive background in hydraulics, land development, and land planning that will benefit the State and help assure that work proceeds without issue and that operations are seamless. **Chris Hannah, PE**, will be responsible for review of the overall construction plan and assist **John Vincent, PE**, with submittal and RFI questions as well as accompany **Donavon Cunningham** on substantial and final completion inspections.

→ Stantec's **40-member civil engineering and construction management team** is **LOCAL** to **West Virginia** as we have offices in **both Charleston** and **Fairmont**. The proposed Stantec staff for Guthrie works mostly out of our Fairmont, West Virginia, office.



Richard Gaines, PE

Principal-in-Charge

RICHARD has 33 years of professional experience in project management and civil engineering related to land development, water systems and treatment, and sanitary sewer collection and treatment as well as oil and gas development projects. His design experience includes layout, grading, drainage, erosion control and permitting for road entrances, access roads, well pads, pits and impoundments for multiple well pads and developments. He is currently a senior civil engineer in charge of the Fairmont, West Virginia, office of Stantec.



Education

- BS, Civil Engineering, Fairmont State College, 1987
- AS, Mechanical Engineering, Fairmont State College, 1987

Relevant Registration

- Professional Engineer #17220 State of West Virginia, 2007
- Professional Engineer #035466 Commonwealth of Virginia, 2002

Project Experience

CITY OF SHINNSTON – MULTIPLE STREET SIDEWALK PROJECTS | CITY OF SHINNSTON | HARRISON COUNTY, WEST VIRGINIA | PROJECT MANAGER

Richard was the project manager in charge of the design and inspection of sidewalks for several projects known as (US 19 - Monroe Street, Rt 19 Sidewalk Improvement and Charles Street). The sidewalk improvement project was initiated by the City of Shinnston but funded 80% by the WVDOH with a 20% match from the City. All work had to be designed in accordance with ADA and PROWAG Standards.

TROPICANA CORPORATE OFFICE BUILDING | TROPICANA PRODUCTS, INC. | BRADENTON, FLORIDA | PROJECT MANAGER

Richard was the Project Manager responsible for the design, permitting, and construction observation for a new four story office building. The project included reconstruction of 10-acre parking lot with required stormwater detention facilities and water, fire, and sanitary sewer main extensions.

WVDOH - GLENDALE ADA +2 | WEST VIRGINIA DEPARTMENT OF TRANSPORTATION | MARSHALL COUNTY, WEST VIRGINIA

West Virginia State Project # S326-250-31.64 00 Richard is the project manager to develop the project from pre-qualification through technical proposal, design and construction inspection for a curb ramp project to meet ADA requirements in three communities (Moundsville, McMechen and Glendale). The project was a design build project where Stantec teamed with Ohio-WV Contracting, Inc. to design and build 233 curb ramps to comply with ADA and PROWAG standards.

CARUSO ROAD 4 LANE | MANATEE COUNTY SCHOOL BOARD | BRADENTON, FLORIDA | PROJECT MANAGER

Richard was the Project Manager responsible for design, permitting and construction observation for a two-lane county highway widening project. The project included the widening of approximately one mile of county highway from two lanes to a divided four lane highway with required turn lanes. Coordination and scheduling of the relocation of utilities and construction of stormwater management facilities was required.

“

Hands-on design work, building relationships, managing projects and people, and strategic planning keep my work fresh and interesting.”

Richard Gaines, PE
Principal

MANATEE COUNTY 53RD AVE WIDENING | MANATEE COUNTY GOVERNMENT | BRADENTON, FLORIDA | PROJECT ENGINEER

Richard was the Project Engineer responsible for utility design of new and relocated utilities as a result of widening a two lane roadway to four lanes. The project included the design for the relocation and addition of water mains, sanitary sewer force mains, and reclaimed water mains.

COUNTY ROUTE 9/7 IMPROVEMENTS | CONFIDENTIAL E&P CLIENT | RITCHIE COUNTY, WEST VIRGINIA | PROJECT MANAGER

Richard served as the project manager for the design of 1.70 miles of road upgrade to access proposed well pads. The improvements included increasing roadway travel widths, reshaping of roadway cut / fill slopes, improving roadway geometry, extension/replacement of drainage culverts. All design was completed in accordance with WVDOH and WVDEP standards.

WVDOH - DISTRICT 6 HEADQUARTERS | MOUNDSVILLE, WEST VIRGINIA

Richard was the Project Manager to complete preliminary design, design development and final design for the WVDOH - District 6 Headquarters emergency backup generator system in Moundsville, WV. The design included review of the existing campus, needs of the facility and existing and proposed uses of the facility. A schematic plan was provided to the District for review and refinement so the design development phase could be completed. The design development phase provided a 70% plan set and specifications in accordance with the schematic plan approved by the District. The final design incorporated any additional comments from the District and providing final plans and specifications for a 400 KW generator with an automatic transfer switch and a combination transformer/load center along with the needed site design for placement of the improvements and required fencing and pipe bollards.

VIP PARK II, TECHNOLOGY MANAGEMENT OF WEST VIRGINIA CORPORATION | VIP PARK II, PLEASANT VALLEY, WEST VIRGINIA, TECHNOLOGY MANAGEMENT OF WEST VIRGINIA CORPORATION, FAIRMONT, WEST VIRGINIA. (PROJECT MANAGER) | PLEASANT VALLEY, WEST VIRGINIA | PROJECT MANAGER

Richard was the Project Manager to provide conceptual and final design for a 20 Acre commercial development. The design includes lot layout, roads, grading, drainage, utilities and permitting. The project also includes the

design of I-79 drainage upgrades to eliminate flooding concerns on the development project.

CGP 1.79-ACRE SITE MRBP | CGP DEVELOPMENT COMPANY | FAIRMONT, MARION COUNTY, WEST VIRGINIA | PROJECT MANAGER

Richard was the Project Manager for site planning and engineering design for a 6,400-SF commercial building for a TV Cable Company on a 1.79-acre lot. Total Project Cost \$850K. Construction Cost \$780K.

THE HAVENS – COMMERCIAL SITE PLAN | PRINCETON, MERCER COUNTY, WEST VIRGINIA | PROJECT MANAGER

Richard was the Project Manager for the development of a 10,000-SF assisted living in Princeton West Virginia. The design included passenger car parking, fire lines, retaining walls, utility connections, drainage design, grading plan and permitting.

WEATHERFORD SAND PLANT – COMMERCIAL SITE PLAN | CENTURY, BARBOUR COUNTY, WEST VIRGINIA | PROJECT MANAGER

Richard was the Project Manager for the development of a sand distribution area five-acre site. The design included railroad siding, delivery truck access, stormwater design, grading plan, and permitting.

WINEBRENNERS CROSSING – COMMERCIAL SITE PLAN | BERKLEY COUNTY, WEST VIRGINIA | PROJECT MANAGER

Richard was the Project Manager for the development project involved the preliminary and conceptual design of a MARC train station (300' +/-) and a 200 car parking lot. The design and alignment was in accordance with the specifications to the West Virginia Department of Transportation State Rail Authority.

F.K. EVERSET – COMMERCIAL SITE PLAN | CITY OF FAIRMONT | FAIRMONT, MARION COUNTY, WEST VIRGINIA | PROJECT MANAGER

Richard was the Project Manager for the development of a 9,900-SF distribution facility on a 2.22 acre lot at the Marion Regional Business Park. The grading and drainage design for passenger car parking, building, utility connections, stormwater management design, and permitting with the City of Fairmont.

**FLOWERS BAKERY – COMMERCIAL SITE PLAN |
CITY OF FAIRMONT | FAIRMONT, MARION COUNTY,
WEST VIRGINIA | PROJECT MANAGER**

Richard was the Project Manager for the development of a 6,600-SF distribution facility on a 1.76 acre lot at the Marion Regional Business Park. The design included passenger car parking, delivery truck loading docks, utility connections, stormwater management design, and permitting with the City of Fairmont.

**DOLLAR GENERAL – COMMERCIAL SITE PLAN |
CITY OF FAIRMONT | FAIRMONT, MARION COUNTY,
WEST VIRGINIA | PROJECT MANAGER**

Richard was the Project Manager for the development of a 9,100-SF retail facility on a 0.72 acre lot on Indiana Ave.

on east side of Fairmont. The design included passenger car parking, delivery truck loading docks, utility connections, stormwater management design, and permitting with the City of Fairmont.

**LYONSOUTH, COMMERCIAL DEVELOPMENT
PROPERTY | NUTTER FORT, WEST VIRGINIA |
PROJECT ENGINEER/MANAGER**

Richard was the Project Engineer/Manager in the completion and filing of permits to the Department of Environmental Protection for an MRan update to the West Virginia Construction Storm Water General Permit.



Fairmont State College

This Diploma Makes Known

*That the State College System of West Virginia upon the recommendation
of the faculty of the College has conferred upon*

Richard Lee Gaines

the degree of

Bachelor of Science in Engineering Technology

*In Testimony thereof, the signatures of the duly authorized officers of the
State College System of West Virginia and of the Faculty of the College have
been affixed.*



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come Greeting
Know Ye That The State Board of Registration for Professional Engineers
of the State of West Virginia, reposing special confidence in
the Intelligence, Integrity and Discretion of

Richard L. Gaines

DOES IN PURSUANCE OF AUTHORITY VESTED IN IT
by law hereby certify that he having submitted
satisfactory evidence of his ability and experience is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number **17220**

To Hold and use such title in the practice of his profession,
subject to the conditions prescribed by law.



Given under the hand of the
Seal of the Board at the Capitol in the
City of Charleston,
This 10th day of May
in the year of our Lord 2007
and of the State
the One Hundred Forty-Third

Members of the Board

Leonard D. Timms, Jr. Richard E. Delyns

Bhajan S. Singh William E. Diersen

John Vincent, PE

Project Manager

JOHN is a senior transportation engineer with more than 27 years of experience in civil engineering with a focus on highway design, site development, utilities, and surveying. He is frequently responsible for all aspects of roadway design, including bridge approaches and tie-ins to adjacent roadway sections.

Education

- BS, Civil Engineering Technology, Fairmont State College, 1994
- AS, Architectural Technology, Fairmont State College, 1994

Relevant Registration

- Professional Engineer #20246 State of West Virginia, First Issued 2013

Memberships

- Vice-President, North Central West Virginia Section, American Society of Highway Engineers
- Member, American Society of Highway Engineers
- Member, American Council of Engineering Companies

Project Experience

LESLIE EQUIPMENT COMPANY SITE | LESLIE EQUIPMENT COMPANY | PLEASANT VALLEY, WEST VIRGINIA

Project Engineer providing conceptual and final design for a 20 Acre commercial development. The design includes lot layout, roads, grading, drainage, utilities and permitting. The project also includes the design of Interstate 79 drainage upgrades to eliminate flooding concerns on the development project.

THE HAVENS – COMMERCIAL SITE PLAN | PRINCETON, MERCER COUNTY, WEST VIRGINIA

Project Designer for the development of a 10,000 SF assisted living in Princeton West Virginia. The design included passenger car parking, fire lines, retaining walls, utility connections, drainage design, grading plan and permitting.

CGP 1.79-ACRE SITE MRBP | CGP DEVELOPMENT COMPANY | FAIRMONT, MARION COUNTY, WEST VIRGINIA

Project Designer for site planning and engineering design for a 6,400 SF commercial building for a TV Cable Company on a 1.79-acre lot. Total Project Cost \$850K. Construction Cost \$780K.

SHINNSTON STREET PAVING PROJECT – PHASE 1 | CITY OF SHINNSTON | SHINNSTON, WEST VIRGINIA

Project Designer responsible for the preparation of plans and specifications and pavement quantities for five city streets in Shinnston (Upper Ferguson Street, Reynolds Street, East Pike Street, Roosevelt Street, Norma Lane and Philli Lane). The project required approximately 882 tons of asphalt wearing course, 1441 SY of base repair, 802 SY of pavement milling, and 2218 gallons of bituminous tack coat. Stantec was responsible for the design and construction management services for this project. Design included pavement subbase analysis, quantifying materials and cost estimates. Construction included inspection and engineering during construction.

FAIRMONT GENERAL HOSPITAL HEALTHPLEX | FAIRMONT, WEST VIRGINIA

Project Designer responsible for the overall site design of a 72,000 SF health care/wellness facility. The project includes the preparation of preliminary and final grading plans for the six acre site, parking lot layout and pavement design; the design of approximately 1100 LF of storm sewer, approximately 900 feet of sanitary sewer, 500 feet of potable water main; the design of a below grade stormwater management detention facility, the preparation of site specifications, and required NPDES permits.



ST. JOSEPH'S HOSPITAL – ENTRANCE REALIGNMENT PLAN | BUCKHANNON, UPSHUR COUNTY, WEST VIRGINIA

Project Designer for the design and permitting for the modification of two existing intersecting state roads to provide safe access. The design included geometric design, drainage design, grading and MOT plan and permitting.

DEEGAN AND HINKLE LAKE DAM REHABILITATION | CITY OF BRIDGEPORT | HARRISON COUNTY, WEST VIRGINIA

CADD Technician responsible for preparing final design plans for the rehabilitation of Deegan Lake Dam and the breach of Hinkle Lake Dam. Responsibilities included performing computer analyses of site grading and preparing final design plans, cross sections, earthwork volume calculations, and roller-compacted concrete volume calculations.

US 35 – P3 (WV 869 TO MASON COUNTY 40) | WEST VIRGINIA DIVISION OF HIGHWAYS | PUTNAM COUNTY / MASON COUNTY, WEST VIRGINIA | PROJECT MANAGER

Project manager responsible for the roadway paving project along a 14.23-mile-long, grade/drain section of US 35 in Putnam and Mason County. The project consisted of preparing roadway paving, minor drainage, and guardrail plans for a new four-lane divided highway. Project deliverables included final construction plans.

US 35 / WV 869 INTERCHANGE | WEST VIRGINIA DIVISION OF HIGHWAYS | PUTNAM COUNTY, WEST VIRGINIA | PROJECT MANAGER

Project manager responsible for compiling roadway plan project along a 0.91-mile-long section of US 35 in Putnam County. Project consisted of designing roadway paving, minor drainage, and guardrail plans for a new four-lane divided highway in addition to compiling grade/drain, lighting, bridge, and MSE wall plans. Project deliverables included final construction plans.

KING COAL HIGHWAY (TAYLORVILLE TO CALICO) | NICEWONDER CONTRACTING | MINGO COUNTY, WEST VIRGINIA

Highway Designer responsible for roadway design tasks and CADD duties associated with preliminary engineering and final design tasks for a public/private project involving Nicewonder Contracting, West Virginia Division of Highways and Mingo County. The final design of the King Coal Highway consists of a nine-mile section

of a new four-lane and a two-mile relocation of WV 65 that connects Taylorville and Red Jacket to the King Coal Highway with an at-grade intersection.

APPALACHIAN CORRIDOR H WEST OF WV 3 – EAST OF WV 3 | WEST VIRGINIA DIVISION OF HIGHWAYS | GRANT COUNTY, WEST VIRGINIA

Project Designer responsible for providing surveying and construction verification of structure locations for the 1.96 mile section of Corridor H.

APPALACHIAN CORRIDOR H WEST OF WV 93 – EAST OF WV 1 | WEST VIRGINIA DIVISION OF HIGHWAYS | GRANT COUNTY, WEST VIRGINIA

Project Designer responsible for providing surveying and earthwork quantities for the 1.37 mile section of Corridor H.

MILL CREEK ROAD | FAYETTE AND RALEIGH COUNTIES, WEST VIRGINIA

Project Designer to provide horizontal and vertical alignment adjustments to a 3.3 mile roadway to eliminate the need for sliver fills. The work provided includes calculation of revised earthwork quantities, revised cross-sections and revised plan sheets.

REALIGNMENT OF THE INTERSECTION OF STEWART ST., PROTZMAN STREET, HOFFMAN AVENUE AND VANGILDER STREET | CITY OF MORGANTOWN | MORGANTOWN, WEST VIRGINIA

Project Designer responsible for the realignment of a five-legged intersection within the City of Morgantown. The project consists of installing traffic control devices, sidewalks and pavement stripping to simplify a confusing and congested intersection. Duties consist of a field verification visits, preparation of construction plans.

APPALACHIAN CORRIDOR H WV 93 CONNECTOR - SCHERR | WEST VIRGINIA DIVISION OF HIGHWAYS | GRANT COUNTY, WEST VIRGINIA

Project Designer responsible for providing surveying, earthwork quantities and final "as-built" roadway cross-sections for the 1.42 mile section of Corridor H and WV 93 Connector.

WV 622 - CROSS LANES | WEST VIRGINIA DIVISION OF HIGHWAYS | CROSS LANES, WEST VIRGINIA

Project Manager responsible for developing right-of-way and construction plans for a 1.27-mile roadway widening/improvement project along an urban corridor.





STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come Greeting
"Know Ye" That The State Board of Registration for Professional Engineers
of the State of West Virginia, reposing special confidence in
the Intelligence, Integrity and Discretion of

John D. Vincent

DOES IN PURSUANCE OF AUTHORITY VESTED IN IT
by law hereby certify that he having submitted
satisfactory evidence of his ability and experience is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number **20246**

"To Hold" and use such title in the practice of his profession,
subject to the conditions prescribed by law.



Given under the hand of the
Seal of the Board at the Capitol in the
City of Charleston,
This 23rd day of May
in the year of our Lord 2013
and of the State
the One Hundred Forty-Ninth

Members of the Board

James D. Timms, Jr. *Richard E. Dwyer*

Blaine S. Schell *William E. [illegible]*

Chris Hannah, PE

Project Engineer and Civil Designer

CHRISTOPHER began his career with Stantec as a construction inspector and as a utility inspector. He obtained his PE license in West Virginia in 2016 and has since actively practiced design engineering and project management from our Fairmont office.

Education

- BS, Civil Engineering, Fairmont State University, 2009

Relevant Registrations and Certification

- Professional Engineer **#21656** West Virginia Society of Professional Engineers, 2009
- Certification, West Virginia Department of Transportation, Transportation Engineer Technician, 2009
- Professional Engineer **#PE087677** State of Pennsylvania



Project Experience

LESLIE EQUIPMENT COMPANY SITE | PLEASANT VALLEY, WEST VIRGINIA | SURVEY TECHNICIAN, CAD TECHNICIAN, AND CIVIL ENGINEER

Christopher aided in the drafting and design of a conceptual and final design for a 20 Acre commercial development. The design included lot layout, roads, grading, drainage and, utilities. Christopher also completed stakeout of proposed building and completing a topo as-built. The project also includes the design of I-79 drainage upgrades to eliminate flooding concerns on the development.

CITY OF SHINNSTON – MULTIPLE STREET SIDEWALK PROJECTS | WEST VIRGINIA DEPARTMENT OF TRANSPORTATION | HARRISON COUNTY, WEST VIRGINIA | PROJECT ENGINEER

Chris was the project engineer responsible for the design and as-builts of sidewalks for several projects known as (US 19 - Monroe Street, Rt 19 Sidewalk Improvement and Charles Street). The sidewalk improvement project was initiated by the City of Shinnston but funded 80% by the WVDOH with a 20% match from the City. All work had to be designed in accordance with ADA and PROWAG Standards.

WVDOH - GLENDALE ADA +2 | WEST VIRGINIA DEPARTMENT OF TRANSPORTATION | MARSHALL COUNTY, WEST VIRGINIA | PROJECT ENGINEER

Chris was the project engineer responsible for the design of 233 curb ramps project in three communities (Moundsville, McMechen and Glendale). The project was a design build project where Stantec teamed with Ohio-WV Contracting, Inc. to design the curb ramps to comply with ADA and PROWAG standards.

WVDOH ROAD UPGRADES FOR NATURAL GAS DEVELOPMENT | WEST VIRGINIA AND PENNSYLVANIA | CAD TECHNICIAN AND DESIGNER

Christopher has been completed drafting and design on several projects with various producers for the oil and natural gas industry. The work provided includes upgrades to state highways and bridges to provide adequate access for the oversized and heavy loads. The services included layout, grading, drainage, erosion control (BMP's), well plats and permitting applications. In addition, development of Stormwater Pollution Prevention Plans (SWPPP).

SOUTH RIDGE CHURCH PARKING LOT EXPANSION | MARION COUNTY, WEST VIRGINIA | SURVEY TECHNICIAN AND CIVIL ENGINEER

Christopher completed design to extend the church's existing parking lot to accommodate an additional 140 standard parking spaces. The design of this expansion included layout, grading, drainage and erosion control per West Virginia

Department of Environmental Protection standards. In addition, development of Stormwater Pollution Prevention Plans (SWPPP), WVDEP NPDES Permit approval, and City of Fairmont planning and zoning permit approval.

MRBP LOTS 4 AND 5 – ROGERS ELECTRIC | WEST VIRGINIA | MARION COUNTY | CIVIL ENGINEER

Christopher completed the site plan to develop a 10,000 sf commercial building and a future 6,400 sf commercial business with associated parking on Lot 4 and a future 9,000 sf commercial business with associated parking on Lot 5. This also included the utility connections, stormwater management design, and erosion control per West Virginia Department of Environmental Protection standards. In addition, development of Stormwater Pollution Prevention Plans (SWPPP), WVDEP NPDES Permit approval, and City of Fairmont planning and zoning permits approval.

OAK VALLEY GARDENS | OAK VALLEY GARDENS, LP | GILMER COUNTY, WEST VIRGINIA | CONSTRUCTION INSPECTOR

Christopher was responsible for providing professional engineering and surveying services for the preparation of a conceptual plan, construction plans, and construction specifications for the Oak Valley Gardens townhouse project located along the west side of C.R. 35/19 which is 2.8 miles south of Glenville on S.R. 5, West Virginia. Phase I included preparation of a conceptual layout for up to 28 townhouse units on the site. Phase II included preparation of a preliminary land plan, a field topographic survey, and full/part-time construction inspection services throughout the course of site construction.

WVDOH ROAD UPGRADES FOR NATURAL GAS DEVELOPMENT | WEST VIRGINIA AND PENNSYLVANIA | CAD TECHNICIAN AND DESIGNER

Christopher has been completed drafting and design on several projects with various producers for the oil and natural gas industry. The work provided includes upgrades to state highways and bridges to provide adequate access for the oversized and heavy loads. The services included layout, grading, drainage, erosion

control (BMP's), well plats and permitting applications. In addition, development of Stormwater Pollution Prevention Plans (SWPPP).

CORRIDOR H DISTRICT 5 APD-0484 (221) | GRANT COUNTY, WEST VIRGINIA | INSPECTOR

Christopher was an Inspector for a 1.5-mile grade and drain project with bridges. His duties included assignments for constructing sediment traps, sediment basins, and clean and dirty water contour ditches with temp fiber marking. He also worked on the drains on basins, rock borrow lined outlets and ditches, silt fence, earthwork inspection (cut and fills), culvert pipe installation, and construction of temp bridge for haul road and clearing. Christopher inspected pier footer, and abutment excavation: pier footer, cap and abutment rebar installation, and the concrete pours for pier, footer, cap and abutments.

ST. JOSEPH'S HOSPITAL – ENTRANCE REALIGNMENT PLAN, BUCKHANNON | UPSHUR COUNTY, WEST VIRGINIA | SURVEY AND CAD TECHNICIAN

Christopher completed the survey and drafting for the design and permitting for the modification of two existing intersecting state roads to provide safe access. The design included geometric design, drainage design, grading and maintenance of traffic plan and permitting.

ABIE ABRAHAM DEPARTMENT OF VETERANS AFFAIRS HEALTH CARE CENTER | BUTLER, PENNSYLVANIA

Christopher provided design of the civil component of site design on the 46 acre Veterans Affairs Health Care Clinic project developed by Cambridge Healthcare Solutions PA LP. Christopher's responsibilities included general site design, grading, stormwater management and utility coordination. Christopher assembled a land development submittal to satisfy Center Township Butler Area Sewer Authority Permit and Butler County's Subdivision and Land Development Ordinance and prepared an NPDES permit submittal to the Butler County Conservation District.

Fairmont State University



This Diploma Makes Known

*That the Fairmont State Board of Governors upon the recommendation
of the Faculty of the University has conferred upon*

Chris S. Hannah

the degree of

Bachelor of Science in Engineering Technology
Civil Engineering Technology

In Testimony thereof, the signatures of the duly authorized officers of

Fairmont State University have been affixed.

Given under the Seal of the State of West Virginia this sixteenth day of May 2009.

INTERIM PRESIDENT

PROVOST, AND VP FOR ACADEMIC AFFAIRS

CHAIR, BOARD OF GOVERNORS

REGISTRAR



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come Greeting
"Know Ye" That The State Board of Registration for Professional Engineers
of the State of West Virginia, reposing special confidence in
the Intelligence, Integrity and Discretion of

Christopher Shawn Hannah

DOES IN PURSUANCE OF AUTHORITY VESTED IN IT

by law hereby certify that he having submitted
satisfactory evidence of his ability and experience is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number **21656**

(To Hold) and use such title in the practice of his profession,
subject to the conditions prescribed by law.



Given under the hand of the
Seal of the Board at the Capitol in the
City of Charleston,
This 11th day of January
in the year of our Lord 2016
and of the State
the One Hundred Fifty-Second

Members of the Board

James D. Thomas, Jr. *Richard E. Dlynas*
Bhupen S. Sahja *William E. Jensen* *[Signature]*

Cory Luzier, PE

Project Engineer and Civil Designer

CORY is a civil engineer from Arthurdale, West Virginia. His focus includes site development, environmental permitting, and surveying, and his design experience includes erosion and sediment control, stormwater drainage and management, layout, grading, access roads, and well pads.

Education

- BS, Civil Engineering, West Virginia University, 2012

Relevant Registration

- Professional Engineer #23042 State of West Virginia, 2018-Present
- Professional Engineer #089541 Commonwealth of Pennsylvania, 2019-Present
- Professional Engineer #53482 State of Maryland, 2018-Present
- Professional Engineer #84153 State of Ohio, 2019-Present



Project Experience

PLEASANT AVENUE ROADWAY STUDY | GOVERNMENT ENTITY | KINGWOOD, WEST VIRGINIA | PROJECT ENGINEER

The project consisted of the evaluation of a city roadway. Cory's duties included field observations of the roadway and the generation of the field report.

DOMINION TRANSMISSION WAREHOUSE SITE PLAN | ENERGY – OIL & GAS | SARVER, PENNSYLVANIA | PROJECT ENGINEER

The project consisted of the construction of a warehouse facility adjacent to an office building along with associated parking areas. Cory's duties on this project included site design, erosion & sediment control plan preparation, stormwater drainage and management design, and NPDES Permitting.

FISHER MOUNTAIN DEVELOPMENT | LGI LAND | PENDLETON COUNTY, WEST VIRGINIA

The project consisted of the development of a subdivision community in Pendleton County, West Virginia, which included roadway infrastructure and associated utilities like water, sanitary sewer, and stormwater management. Cory's duties included the design of the sanitary system, development of the plan and profile drawings, and associated details of the sewer system.

CONE SLIP REPAIR | ENERGY – OIL & GAS | WHEELING, WEST VIRGINIA | PROJECT ENGINEER

The project consisted of the repair of a slope failure on an access road. Cory's duties included coordination with the geotechnical engineer to generate a site plan package including layout and grading plan drawings, the development of an erosion and sediment control plan, stormwater drainage analysis, and the development of associated details necessary for construction.

WVU BASEBALL PARKING LOTS | EDUCATION | GRANVILLE, WEST VIRGINIA | PROJECT ENGINEER

The project scope included the development of two large parking lots for a collegiate/ semi professional baseball stadium. Cory's duties on this project included erosion and sediment control plan design and preparation, stormwater drainage analysis and design and assistance with layout, grading and utility plan generation.

**SUNRISE GARDENS - STORMWATER MASTER PLAN
| SUNRISE GARDENS LP | ROMNEY, WEST VIRGINIA |
CIVIL ENGINEER**

The project consisted of the development of a proposed apartment complex site in Hampshire County, West Virginia. Cory's duties included the design of erosion and sediment control and stormwater management practices, construction document preparation of E&S and SWM plans, necessary hydraulic computations of proposed stormwater management facilities, and project coordination with the client and applicable agencies.

**AMERICAN COAST PIPELINE (ACP) - STORMWATER
& EROSION CONTROL PLAN REVIEW |
COMMONWEALTH OF VIRGINIA | CIVIL ENGINEER**

The project consists of the construction of approximately 300 miles of natural gas pipeline in West Virginia and Virginia. Cory's duties included the review of erosion and sediment control and stormwater management plans of the pipeline right-of-way and various access roads.

**MGW AIRPORT EAST SIDE DEVELOPMENT |
ENGINEERING CONSULTANT | MORGANTOWN, WEST
VIRGINIA | PROJECT ENGINEER**

The project consisted of the expansion of a municipal airport which includes runway expansion and new airplane hangars. Cory's duties included design of erosion & sediment control measures, stormwater drainage & management design, plan drawing generation, NPDES Permitting, and project specification generation.

**KINGWOOD PIZZA HUT | PRIVATE DEVELOPER |
KINGWOOD, WEST VIRGINIA | PROJECT ENGINEER**

The project consisted of the development and construction of a chain restaurant in Kingwood, WV. Cory's duties included development of the site plan drawings, associated details, erosion & sediment control and stormwater management design.

**HOME CITY ICE - PLANT EXPANSION |
CONSTRUCTION MANAGEMENT | MORGANTOWN,
WEST VIRGINIA | PROJECT ENGINEER**

The project consisted of the expansion of an industrial facility in Morgantown, WV. Cory's duties included the

development of the site plan construction drawings (site layout, grading and utility plans) and associated construction details, erosion control plans, and storm drainage plans as well as the development of project specifications.

**WVUIT ENGINEERING BUILDING | EDUCATION |
BECKLEY, WEST VIRGINIA | PROJECT ENGINEER**

The project scope included the construction of a new engineering laboratory building for a university. Cory's duties included the development of site plan package drawings (layout, grading, utility and associated details), and generation of erosion & sediment control plan and stormwater management design and analysis. Construction phase services include RFI and Submittal review and response.

**THE CROSSINGS AT MORGANTOWN | PRIVATE
DEVELOPER | MORGANTOWN, WEST VIRGINIA |
PROJECT ENGINEER**

The project included the construction of a senior housing facility in Morgantown, WV. Cory's duties included the development of a feasibility study & due diligence report, development of site plan construction documents (layout, grading, utility plans), NPDES Permitting, stormwater drainage analysis and design, and construction phase services including RFI and submittal review and response.

**FAIRMONT STATE UNIVERSITY STUDENT HOUSING |
EDUCATION | FAIRMONT, WEST VIRGINIA | PROJECT
ENGINEER**

The project consisted of the construction of a new student housing facility and associated parking lots for a college. Cory's duties included the development of the erosion & sediment control plan, stormwater drainage & management plan, NPDES Permitting, assistance with site plan drawing package (site layout, grading and utility plans), and construction phase services which include RFI and Submittal review and response.



BENJAMIN M. STATLER COLLEGE OF ENGINEERING AND MINERAL RESOURCES

*Know all persons by these presents
that the West Virginia University Board of Governors
upon the recommendation of the faculty
has conferred upon*

CORY ANDREW LUZIER


The Degree of

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

*With all the rights, honors, and privileges thereunto
appertaining. Witness the seal of the university and
the signatures of its duly authorized officers hereunto
affixed this twenty-eighth day of December,
two thousand twelve.*


President of the University


Chair, West Virginia University
Board of Governors


Dean of the College


Provost and Vice President
for Academic Affairs



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

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Cory Andrew Luzier

DOES IN PURSUANCE OF AUTHORITY VESTED IN IT

*by law hereby certify that he having submitted
satisfactory evidence of his ability and experience is a*

REGISTERED PROFESSIONAL ENGINEER



Registration Number **23042**

*"To Hold" and use such title in the practice of his profession,
subject to the conditions prescribed by law.*



Given under the hand of the
Seal of the Board at the Capitol in the
City of Charleston,
This 3rd day of July
in the year of our Lord 2018
and of the State
the One Hundred Fifty-Fifth

Members of the Board

 Blayne S. Salje
 Earl E. Thomas Jr.  L. C. Nitt

Miranda Guentert Fancher

Project Engineer and Civil Designer

MIRANDA is a civil designer in Stantec's Fairmont office. She rejoined Stantec in July 2020 after previously working with the Company from May 2018 to August 2019. During that time, she gained experience in drainage study, designed ADA curb ramps in MicroStation, received experience in AutoCAD, and helped with QA/QC review for a pipeline right-of-way for Dominion Energy.

Prior to Stantec, Miranda served as a staff engineer and intern, roles in which she worked on multiple projects at a time in AutoCAD, creating plan sets for erosion and sediment control, site concepts, demolition, drainage, site restorations, and details. She attended multiple training sessions to improve her AutoCAD skills for 2D and 3D and worked on multiple site concepts plans. As an intern with the West Virginia Division of Highways in 2017, her duties consisted of estimating quantities of materials, collecting testing results, documenting paperwork, and working with clients.



Education

- BS, Civil Engineering Technology Program, Fairmont State University, 2020

Work Experience

WVDOH - GLENDALE ADA +2 | WEST VIRGINIA DEPARTMENT OF TRANSPORTATION | MARSHALL COUNTY, WEST VIRGINIA | PROJECT ENGINEER

Miranda was a civil designer responsible for the design of 233 curb ramps project in three communities (Moundsville, McMechen and Glendale). The project was a design build project where Stantec teamed with Ohio-WV Contracting, Inc. to design the curb ramps to comply with ADA and PROWAG standards.

WVDOH ROAD UPGRADES FOR NATURAL GAS DEVELOPMENT | WEST VIRGINIA | CAD TECHNICIAN AND DESIGNER

Miranda has completed drafting and design on several projects with various producers for the oil and natural gas industry. The work provided includes upgrades to state highways and bridges to provide adequate access for the oversized and heavy loads. The services included layout, grading, drainage, erosion control (BMPs), well plats and permitting applications.

LAURYN LANE GARDENS | SEVERON GROUP | MASON COUNTY, WEST VIRGINIA | CAD TECHNICIAN AND DESIGNER

Miranda provided design and CAD drafting services for the preparation of a conceptual and construction plans for the Lauryn Lane affordable housing apartment building project located in Mason, West Virginia. Phase I included preparation of a conceptual layout for a 30-unit building on the site. Phase II included preparation of final construction plans.

MAPLEWOOD GARDENS | EASTERN WV COMMUNITY ACTION AGENCY (MAPLEWOOD) | HARDY COUNTY, WEST VIRGINIA | CAD TECHNICIAN AND DESIGNER

Miranda was responsible for providing design and CAD technician services for the preparation of a conceptual plan and construction plans for the Maplewood Gardens townhouse project located in Moorefield, West Virginia. Phase I included preparation of a conceptual layout for a 14-unit townhouse units on the site. Phase II included preparation of a preliminary land plan and construction plans for the project.

Fairmont State University

Fairmont



West Virginia

Fairmont State University
upon the recommendation of the Faculty has conferred upon

Miranda Katherine Guentert

the degree of
Bachelor of Science in Engineering Technology
Civil Engineering Technology
Cum Laude

With all the honors, rights and privileges appertaining thereto. In witness whereof,
under the Seal of the University, the signatures of duly authorized officers
are hereunto affixed, this fourteenth day of December, 2019.

A stylized, handwritten signature in black ink.

PRESIDENT

A stylized, handwritten signature in black ink.

PROVOST AND VICE PRESIDENT
OF ACADEMIC AFFAIRS



A handwritten signature in black ink.

CHAIR, BOARD OF GOVERNORS

A handwritten signature in black ink.

REGISTRAR

Brett Schrader, PWS

Senior Environmental Scientist



Brett is a project manager in the Environmental Services Business Center (BC) and has more than 17 years of professional experience in environmental regulatory compliance for private and public-sector clients. Brett's focus in recent years has been National Environmental Policy Act (NEPA) compliance, including project scoping, alternatives development, impact analysis, decision documents, public involvement, and agency consultation. He has managed the successful completion of several Environmental Assessments (EAs) and has co-authored numerous other EAs and Categorical Exclusions for government and private sector clients. In addition to NEPA, Brett also assists clients to comply with Section 7 of the Endangered Species Act and Section 106 of the National Historic Preservation Act. Brett has also prepared Federal Consistency Determinations for projects to comply with the Coastal Zone Management Act. Brett works directly with clients on projects. He is experienced in preparing project schedules and cost estimates, and routinely assists with proposal development and client presentations.

Brett is also a professional wetland scientist (PWS) experienced at conducting wetland delineations, wetland functions and values assessments, wetland mitigation site monitoring, stream quality assessments, and preparing permit applications for impacts to jurisdictional wetlands and waterways. Brett develops wetland delineation reports and coordinates with the U.S. Army Corps of Engineers (USACE) to secure Jurisdictional Determinations for projects. He is well versed in the application of and regulations pertaining to Section 404 of the Clean Water Act and Section 10 of the River and Harbors Act.

Education

- MS, Environmental Science, Towson University, 2011
- BS, Geological and Environmental Science, Susquehanna University, 2003
- Identifying Grasses, Sedges, and Rushes, Wetland Training Institute, State College, 2016
- Training, Wetland Construction: Principles and Techniques, Rutgers University, 2015
- Training, Vegetation Identification for Wetland Delineation: North, Rutgers University, 2015
- Wetland Permitting, Richard Chinn Environmental Training Inc., Training, 2014
- Field Indicators of Hydric Soils, Wetland Training Institute, Training, 2013
- Wetlands Field Training using the Atlantic and Gulf Coastal Plain Regional Supplement, American Water Resources Association (AWRA), Delaware Section, Training, 2011
- Stream Macro-invertebrate Identification and Stream Restoration Techniques, Maryland Interagency, Training, 2007
- Grasses, Sedges, and Rushes Identification, Maryland Interagency, Training, 2007
- Winter Plant Identification, Maryland Interagency, Training, 2007
- Basic Wetland Identification and Delineation, Maryland Interagency, Training, 2007
- Maryland Biological Stream Survey Spring & Summer Sampling, Maryland Department of Natural Resources, Training, 2008
- Atlantic and Gulf Coast Regional Supplement, Maryland Interagency, Training, 2009
- USACE Wetland Delineation, Waters of the U.S. and Regional Supplement Training, Richard Chinn Environmental Training Inc., Training, 2011
- Wetland Permit Writing, Environmental Concern, Training, 2008

Registrations

- Professional Wetland Scientist #2166, Society of Wetland Scientists, First Issued 09/27/2011

Certifications

- Erosion & Sediment Control, Maryland Department of the Environment, Certification, 2007
- SCUBA, PADI Open Water, Certification, 2004

Project Experience

BLACK ROCK WIND ENERGY PROJECT | NRG ENERGY, INC. | GRANT AND MINERAL COUNTIES, WEST VIRGINIA | WETLAND SCIENTIST

Brett is currently responsible for the coordination and management of field staff and is serving as the lead wetland delineator for the Black Rock Wind Energy Project. The initial investigation area encompassed over 630 acres of mountainous terrain, stream valley areas, agricultural lands, and rural residential areas. The purpose of the investigation was to determine the presence, extent, and classification of any waters of the United States, including both federally and non-federally jurisdictional wetlands, within the study area. The wetland delineation was performed following the U.S. Army Corps of Engineers (USACE) Eastern Mountains and Piedmont Regional Supplement to the 1987 Wetland Delineation Manual. The investigation focused on the areas where ground disturbance was suspected within the limits of disturbance for access roads, wind turbine pads, underground electrical collection lines, and substation locations. Additional investigations are anticipated that will increase the overall investigation area to over 750 acres. In addition to the fieldwork, Brett is the lead author of the Preliminary Jurisdictional Determination Report that will convey the results of the investigation to the client and the USACE. Brett will also prepare the Wetlands section of a Siting Certificate Application that the client wishes to submit to the Public Service Commission of West Virginia in early 2019 for the Black Rock Wind Energy Project.

DISTRICT-WIDE GRIND AND RESURFACE | MARYLAND STATE HIGHWAY ADMINISTRATION | MONTGOMERY COUNTY, MARYLAND | PROJECT MANAGER

Brett was responsible for conducting a site investigation for wetlands and streams for these district-wide resurfacing projects. Brett also utilized the Federal Emergency Management Agency (FEMA) Map Service Center to identify resurfacing projects within regulated floodplains. Brett prepared and submitted Joint Permit Applications to the Maryland Department of the Environment for work within the 100-year regulatory

floodplain of waterways within the project limits, and obtained letter of authorization to conduct the roadway resurfacing activities.

BENJAMIN BANNEKER PARK CONNECTION ENVIRONMENTAL ASSESSMENT (EA) | NATIONAL PARK SERVICE IN COOPERATION WITH THE NATIONAL CAPITAL PLANNING COMMISSIONS | WASHINGTON, DISTRICT OF COLUMBIA | PROJECT MANAGER

Brett was the Project Manager primarily responsible for client relations, contract obligations, and the completion of an EA and supporting NEPA compliance documentation for the National Park Service, in cooperation with the National Capital Planning Commission, and in collaboration with the District of Columbia and Hoffman-Madison Waterfront, to construct a temporary connection at Benjamin Banneker Park to provide universal accessibility between the National Mall and the southwest waterfront in Washington, DC. Brett was responsible for preparation and coordination of all aspects of internal scoping, as well as public scoping and agency consultation/coordination activities. He prepared public outreach materials such as newsletters, press releases, presentations, and meeting boards, and facilitated a public meeting with the purpose of introducing the proposed project to the public. Brett was also responsible with analyzing public comments received during scoping and the public review of the EA, and prepared comment summaries that were submitted to the project team. Brett managed the development of the EA, and co-authored the document, which analyzed the impacts of the no-action and two action alternatives on historic structures and districts, including cultural landscapes, water quality, and visitor use and experience for the proposed connection. Brett was also responsible for coordinating the development of alternatives with the landscape architect, as well as coordination several meetings with the agencies.

GETTYSBURG NATIONAL MILITARY PARK COMPREHENSIVE TRAILS PLAN ENVIRONMENTAL ASSESSMENT (EA) / ASSESSMENT OF EFFECT (AOE) | NATIONAL PARK SERVICE | GETTYSBURG, PENNSYLVANIA | PROJECT MANAGER

Brett was primarily responsible for client relations, contract obligations, and the completion of an EA and supporting NEPA compliance documentation for the National Park Service for the development of a Comprehensive Trails Plan for Gettysburg National Military Park and Eisenhower National Historic Site. Brett was responsible for preparation and coordination of all aspects of internal scoping, as well as public scoping and

agency consultation/coordination activities during the early stages of the planning process. He prepared public outreach materials such as newsletters, press releases, presentations, and meeting boards, and facilitated a public meeting with the purpose of introducing the proposed project to the public. Brett was also responsible with analyzing public comments received during scoping and prepared a comment summary that was submitted to the client. In conjunction with DHM Design and the NPS, Brett assisted with the development of the proposed action for the Comprehensive Trails Plan, which includes the proposed construction of over 20 new trails within the parks to expand multimodal access to existing and new interpretative experiences. The proposed action also includes trailhead development, changes to traffic patterns on existing roadways, and authorizing multimodal access on select existing trails. This project is currently ongoing. Brett is managing the development of the EA, and is co-authoring the document, which will analyze the impacts of the no-action and the proposed action on historic structures and districts.

**FORT HUNT SITE DEVELOPMENT PLAN
ENVIRONMENTAL ASSESSMENT | NATIONAL PARK
SERVICE | FAIRFAX COUNTY, VIRGINIA**

As a subconsultant to DHM Design, Brett co-authored an EA for the National Park Service for a site development plan at Fort Hunt Park, a unit of the George Washington Memorial Parkway, to comply with NEPA. Brett was primarily responsible for the preparation of meeting presentation materials, facilitating a public meeting at Fort Hunt Park with the purpose of introducing the proposed project alternatives to the public, and responding to public comments on the EA.

**REHABILITATION OF THE NORTH SECTION OF
THE GEORGE WASHINGTON MEMORIAL PARKWAY
ENVIRONMENTAL ASSESSMENT | NATIONAL
PARK SERVICE | ARLINGTON COUNTY, VIRGINIA |
ENVIRONMENTAL SCIENTIST**

Brett co-authored an EA and associated natural resources studies for the National Park Service, in cooperation with the Federal Highway Administration, for this roadway rehabilitation project. The project entailed pavement rehabilitation, four options to reconfigure the VA 123/George Washington Memorial Parkway interchange, barrier wall modifications, outfall repairs, and other safety improvements along nine miles of the GWMP. Brett was responsible for drafting the natural resources sections of the EA including water resources, vegetation, wildlife, including rare, threatened, and endangered species, geology and soils. Brett assisted with the preparation of

graphics by coordinating with Stantec graphic artists. He was often responsible for preparing meeting minutes and was an active participant in team discussions, decisions, and various other coordination efforts. In addition, Brett assisted in a site survey that was conducted to determine vegetative species within the VA 123/GWMP interchange. He supported the development of GIS mapping of sensitive species areas and archeology sites, which were used by the NPS team to determine the best locations to access culverts along the Parkway to conduct repairs.

**MD 107 AT PARTNERSHIP ROAD, ROADWAY
INTERSECTION IMPROVEMENTS | MARYLAND STATE
HIGHWAY ADMINISTRATION | PROJECT MANAGER**

Brett was responsible for performing wetland delineation, conducted Jurisdictional Determinations, assisted in Joint Permit Application preparation, and obtained Letter of Authorization.

**MD 657—0.07 MILES NORTH OF OLD BEECHWOOD
ROAD TO THE GARRETT COUNTY LINE, WIDEN
AND RESURFACE | MARYLAND STATE HIGHWAY
ADMINISTRATION | ALLEGANY COUNTY, MARYLAND
| PROJECT MANAGER**

Brett was responsible for conducting Jurisdictional Determinations on several Waters of the U.S. (WUS) within project limits, developed a report which described each WUS and their locations, assisted consultants in preparation of design plans to include these resources. Researched mitigation techniques to include neutralization of acid mine drainage. Assisted in the preparation of impact plates and Joint Permit Application for the Maryland Department of the Environment and U.S. Army Corps of Engineers authorization.

**MD 97 FROM GLENALLAN AVENUE TO MD 185,
SAFETY AND RESURFACE | MARYLAND
STATE HIGHWAY ADMINISTRATION |
MONTGOMERY COUNTY, MARYLAND |
PROJECT MANAGER**

Brett was responsible for conducting a site investigation for wetlands and streams, prepared and submitted Maryland Department of the Environment joint permit applications for work within the 100-year Federal Emergency Management Agency floodplain of waterways within the project limits, and obtained letter of authorization.

SUSQUEHANNA UNIVERSITY

Upon the recommendation of the Faculty and by virtue
of the authority of the Board of Directors,
Susquehanna University confers upon

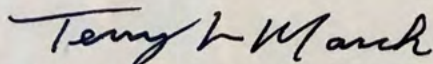
BRETT E. SCHRADER

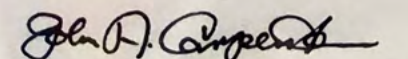
the Degree of

**BACHELOR OF SCIENCE
GEOLOGICAL AND ENVIRONMENTAL SCIENCE**

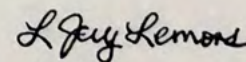
with all the rights, privileges, and responsibilities pertaining to this degree.

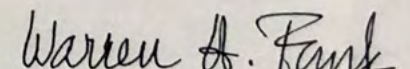
Given at Selinsgrove, Pennsylvania, this eleventh day of May, 2003.


Chairman of the Board of Directors


Secretary of the Board of Directors




President


Vice President for Academic Affairs

Towson University

*Upon the recommendation of the Faculty
and by the Authority of the Board of Regents
of the University System of Maryland*

Brett Evan Schrader

is hereby granted the degree of
Master of Science
Environmental Science

with all rights, honors and privileges thereunto appertaining.

Given under the seal of Towson University in Maryland

this twenty fifth day of May, two thousand eleven.

Clifford M. Kendall
Chairman of the Board of Regents
of the University System of Maryland

WE Kiwan
Chancellor



James Delack
Interim President of Towson University

Tracy A. Cooney
Interim Provost and
Vice President for Academic Affairs



*Society of Wetland Scientists
Professional Certification Program, Inc.*

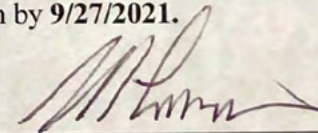
renews the designation

Professional Wetland Scientist

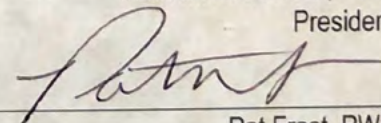
For

Brett E. Schrader

In recognition of all the professional requirements approved by the Society of Wetland Scientists Certification Renewal Program, and verified by the Society's Certification Renewal Review Panel. Professional Wetland Scientist Number **2166** issued on **9/27/2011** and recertified on **7/27/2016**. Due to recertify again by **9/27/2021**.



John M. Lowenthal, PWS
President



Pat Frost, PWS
Certification Renewal Chair

Robert Kirkbride, PE

Geotechnical

ROB is a Principal/Project Manager in Stantec's Columbus, Ohio, office with extensive civil engineering experience. His experience includes the investigation, engineering, design, permitting, construction management, and implementation. Rob has experience performing and managing complex civil engineering projects including dams and reservoirs, buildings, levees, hydraulic and hydrologic design, slope stabilization, plan and specification development and review, mine reclamation, and landfills.



Education

- BS, Civil Engineering, The Ohio State University, 1994

Registrations

- Professional Engineer #024533 State of West Virginia, 2021
- Professional Engineer #63832 State of Ohio, 1999
- Professional Engineer #089955 Commonwealth of Pennsylvania
- Professional Engineer #41640 State of North Carolina

Project Experience

FRA-CR122-2.52 (ALUM CREEK DRIVE) | FRANKLIN COUNTY, OH

This project included a geotechnical evaluation for the proposed improvements to the intersection of Alum Creek Drive and Groveport Road in Franklin County, Ohio. The improvements included widening of the roadways in all directions and adding a bypass to the south of Groveport Road. To optimize traffic flow, the design included the use of two roundabouts at each end of the bypass. A new bridge structure was required to allow traffic to pass over Alum Creek Drive. The evaluation included a subgrade analysis performed using results of the laboratory tests in accordance with ODOT Geotechnical Bulletin 1 (GB1). Pile capacities for each bridge support structure were determined using the software DRIVEN. Slope stability analyses were performed at selected embankment using the software Slope/W. Recommendations included undercutting of a portion of the subgrade soils and replacement with engineered fill. Recommendations also included pile capacities with appropriate lengths to meet the bridge loading requirements.

ALL-75-0.21 | ALLEN COUNTY, OH

The project included multiple steps identified by the Ohio Department of Transportation (ODOT) to perform the roadway, structure and geohazard evaluations of a 12-mile segment of Interstate 75 in Allen County, Ohio. The geotechnical work included over 300 borings for design of the roadways, bridges, noise barriers, retaining walls and culverts. The project also included evaluation of the existing bedrock quarry which is on both sides of an 800- foot-long section of I-75. The evaluations included a subgrade analysis performed using results of the laboratory tests in accordance with ODOT Geotechnical Bulletin 1 (GB1). Pile capacities for each bridge were determined using the software DRIVEN. Slope stability analyses were performed at selected embankment and retaining wall locations using the software Slope/W. Recommendations included using cement stabilization to prepare the subgrade soils prior to construction of the pavement section. Recommendations also included pile capacities with appropriate lengths to meet the bridge loading requirements.

GRENER AVENUE IMPROVEMENTS

A Geotechnical Evaluation was performed to investigate the subsurface conditions and to provide recommendations for pavement design. A subgrade analysis was performed in accordance with the Ohio Department of Transportation based on the laboratory test results and conditions encountered during drilling. Additional recommendations were provided for culvert foundations and retaining walls.

TYGLER ROAD IMPROVEMENTS

A geotechnical evaluation was performed to investigate the subsurface conditions and to provide recommendations for pavement design. A subgrade analysis was performed in accordance with the Ohio Department of Transportation based on the laboratory test results and conditions encountered during drilling. Additional recommendations were provided for culvert foundations and retaining walls.

OHIO HISTORICAL SOCIETY PARKING LOT

A pavement evaluation was performed to measure the amount of deterioration that had occurred. Areas were prioritized based on the depth of deterioration and the condition of the subgrade soils. Numerous test holes were cored to obtain subgrade materials. A condition assessment plan was developed to identify the deteriorated areas and repair recommendations were provided based on the conditions.

BROWN ROAD OVER BOKES CREEK BRIDGE | DELAWARE COUNTY, OH

A geotechnical evaluation was performed to investigate the subsurface conditions and to provide recommendations for the bridge replacement and roadway improvements. The replacement bridge is a 125-foot-long single-span structure carrying Township Road 176 over Bokes Creek in Delaware County, Ohio. The replacement bridge foundations were recommended to be supported with deep foundations extending into bedrock. The fieldwork included coring through the middle of the existing bridge decking to allow for performance of a boring within the waterway.

O'SHAUGHNESSY PUMP STATION

A geotechnical evaluation was performed to establish foundation recommendations for this wastewater pump station in Delaware County, Ohio. The site included shallow bedrock that was encountered two feet below the ground surface. The borings were extended to depths of over 20 feet to reach the proposed bearing elevation. Recommendations were also provided for lateral earth pressures and buoyancy conditions since the site is located directly adjacent to the Scioto River.

XENIA STREETScape

A geotechnical evaluation was performed for the proposed retaining wall and streetscape sign at the entrance of the town of Xenia, Ohio. Several borings

were performed along the proposed retaining wall and at the sign location to provide foundation and lateral load recommendations.

MARIETTA MEMORIAL HOSPITAL MEDICAL CAMPUS | MARIETTA, OHIO

Project Manager during the Geotechnical Investigation which involved drilling, laboratory testing, foundation analysis for both shallow and deep foundations, recommendations for placement of structural fill, floor slab support, analysis of lateral loads on the below ground walls and a discussion on groundwater conditions.

MARIETTA WASTEWATER TREATMENT PLANT | MARIETTA, OH | SENIOR GEOTECHNICAL ENGINEER

Rob was the Senior Geotechnical Engineer for this project during each of the three phases of design and construction. The geotechnical engineering performed for this 3.3 MGD wastewater treatment plant included investigation and design at the site for numerous structures. Recommendations included bearing capacity, settlement and stabilization during construction. Large mat foundations were designed to spread out the applied building loads and to minimize settlement. Additional recommendations included the use of a geogrid / aggregate system to stabilize the saturated granular materials that were encountered at the foundation bearing elevation of several structures. Rob worked directly with the City Engineer and his structural subconsultant to investigate concerns and develop solutions. Part of this project included working with the City of Marietta's value engineering subconsultant, during which numerous design modifications were evaluated. During construction, additional geotechnical guidance was provided.

5TH AVENUE DAM EVALUATION | CITY OF COLUMBUS OHIO | COLUMBUS, OHIO | SENIOR PROJECT ENGINEER

Senior Project Engineer involved in evaluation and modeling of conditions along the Olentangy River to simulate the removal of the dam located just north of King Avenue in Columbus, Ohio. The project included an evaluation of the existing structures and geological conditions to assess the affects of lowering the river pool level on adjacent structures. Soil borings were performed to establish subsurface conditions and to install monitoring wells for long-term groundwater modeling.

The Ohio State University

hereby confers upon

Robert J. Kirkbride

the degree of

Bachelor of Science in Civil Engineering

together with all the rights, privileges and honors appertaining thereto in consideration of the satisfactory completion of the course prescribed in

The College of Engineering

In Testimony Whereof, the seal of the University and the signatures as authorized by the Board of Trustees are hereunto affixed.

Given at Columbus on the tenth day of June, in the year of our Lord nineteen hundred ninety-four and of the University the one hundred twenty-fifth.



John W. Kessen
Chairman of the Board of Trustees

E. Parker Lee
President of the University

Robert J. Duman
Secretary of the Board of Trustees



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come Greeting
"Know Ye" That The State Board of Registration for Professional Engineers
of the State of West Virginia, reposing special confidence in
the Intelligence, Integrity and Discretion of

Robert J. Kirkbride

DOES IN PURSUANCE OF AUTHORITY VESTED IN IT
by law hereby certify that he having submitted
satisfactory evidence of his ability and experience is a

REGISTERED PROFESSIONAL ENGINEER


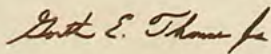
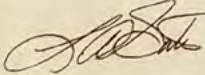
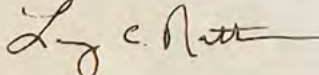
Registration Number **24533**

(To Hold) and use such title in the practice of his profession,
subject to the conditions prescribed by law.



Given under the hand of the
Seal of the Board at the Capitol in the
City of Charleston,
This 25th day of January
in the year of our Lord 2021
and of the State
the One Hundred Fifty-Seventh

Members of the Board

 Bhajan S. Sahja
 Earl E. Thomas Jr.   Ly C. Nott

Glenn Miller, RLA, ASLA, LEED AP®

Senior Landscape Architect

GLENN is a registered landscape architect with more than 35 years of site planning experience. He begins each project by developing a complete understanding of the site as well as the users' needs. Glenn's strong leadership and management skills and his capacity to work collaboratively with the entire project team and all stakeholders make him an asset to any project team. He knows that effective land planning provides the road map to realization of a project's intent. On a daily basis, Glenn oversees project production, site design, and client contact. He specializes in preparing site design and master plans for healthcare, K-12, residential design, commercial, and institutional design clients.



Education

- BS, Landscape Architecture, The Pennsylvania State University, 1984

Relevant Registrations and Certifications

- Registered Landscape Architect #LA001002R Commonwealth of Pennsylvania
- Landscape Architect #1088 State of Tennessee
- LEED Accredited Professional, U.S. Green Building Council

Project Experience

THE SQUARE AT FALLING RUN | MORGANTOWN, WEST VIRGINIA

Programming and master planning for this major project adjacent to the WVU campus. Slated to be the largest mixed-use development ever undertaken in the state, the preliminary program consists of approximately 450,000 square feet of multi-family housing, 230,000 square feet of commercial, 125,000 square feet of retail, a 20,000-square-foot cineplex, and parking for 2,100 cars.

FEDEX GROUND - CONCRETE & ASPHALT CONDITION STUDY, PITTSBURGH GROUND (PITT / 0152) – 15-0152-01 | PITTSBURGH, PENNSYLVANIA

Project manager responsible for the inspection of the asphalt and concrete paving at the FedEx Ground facility on Neville Island, evaluating the conditions and recommend areas and sections needing repair, replacement or upgrade in the future.

ALLEGHENY CLARION VALLEY SCHOOL DISTRICT - REPAVING RESTORATION | FOXBURG, PENNSYLVANIA

Stantec provided evaluation and design services for the storm water diversion minor concert replacement, and asphalt paving crack filling sealing and resurfacing for the parking areas for the school district.

CRAWFORD COUNTY PARKING | MEADVILLE, PENNSYLVANIA

Glenn is the Project Manager for the development of over 175 surface and elevated deck spaces on 5 sites adjacent to the County's Courthouse and Judicial Center Building. Coordinated subconsultants and Stantec professionals from 2 other Stantec offices.

BUTLER COUNTY GOVERNMENT CENTER ANNEX | BUTLER COUNTY | BUTLER, PENNSYLVANIA

\$9.8M, 57,000 SF new construction addition to the Butler County Government Center. The project is an office for building county employees and includes a secure parking level for county officials and the transfer of individuals from the prison to the courtrooms. Sited on a tight urban lot adjacent to the existing Government Center, we provided special care in design of the electrical service connections and other site constraints including substandard soils, other utilities, zoning regulations, and handicap accessibility on a sloped site. Budget was \$12M, with bids at \$9.8M.

DOWN'S PARK - BIKE PATH | ANNE ARUNDEL COUNTY, MARYLAND

The Anne Arundel County Department of Parks and Recreation faced a dilemma in needing an improved bike path through a densely wooded area to connect 2 sections of the park, but did not want to clear a large swath of trees to do it. Glenn worked with Parks personnel to carefully set the alignment of the path in the field to preserve the specimen trees and minimize the grading. The trail itself is 8' wide and over half of a mile long. Because the trail is asphalt, extra consideration needed to be taken to account for the paving equipment that would need to be in the environmentally sensitive area.

WEST VIRGINIA UNIVERSITY - ADVANCED ENGINEERING RESEARCH BUILDING | MORGANTOWN, WEST VIRGINIA

The AERB was designed with flexible laboratories that would support research in a wide variety of fields. The labs have shared equipment that can be accessed by researches across campus, including a clean room for bionanofabrication and materials preparation. The facility also has computer classrooms, lecture theaters, departmental offices, and both formal and informal meeting areas.

NETL PERFORMANCE VERIFICATION LABORATORY | EUCLID SERVICES | MORGANTOWN, WEST VIRGINIA

Stantec is designing an advanced laboratory capable of conducting energy performance verification and enforcement testing on a broad range of DOE-regulated and ENERGY STAR-qualified appliances and equipment. The approximately 35,000-square-foot building includes testing facilities which provide the variety of energy utility and environmental verification and enforcement testing, including the flexibility to test equipment and appliances incorporating Smart Appliance technologies. Construction and operation of the facility will help ensure that consumers and the nation achieve energy savings intended by energy conservation standards and ENERGY STAR.

FEDEX GROUND - MURFREESBORO CY18 NASHVILLE HUB | NASHVILLE, TENNESSEE

Project Manager for site due diligence, architectural and engineering design, and construction administration

services for a new FedEx Ground Hub in full build out of this facility will be 1,500,000 square feet.

FEDEX GROUND – SITE AND FACILITY IMPROVEMENTS, PITTSBURGH GROUND (PITT / 0152) – 15-0152-01 | PITTSBURGH, PENNSYLVANIA

Parking, access and drainage improvements and doorways, dock door equipment, utilities and lighting. Scope includes expansion of the existing office area, to include a new training/meeting room.

FEDEX GROUND - CY17 HARRISBURG, (HRBG / 0170) - TRACTOR AND TRAILER PARKING EXPANSION

Project Manager for providing engineering design services for parking, access and drainage improvements and expanded parking areas. Scope included environmental permitting and wetland mitigation.

FED EX GROUND – BUILD TO SUIT SPECIFICATIONS | PITTSBURGH, PENNSYLVANIA

Glenn was responsible for the updates to the FXG Build to Suit Specifications for site work.

MITSUBISHI ELECTRIC POWER PRODUCTS, INC. - 512 KEYSTONE | WARRENDALE, PENNSYLVANIA

Stantec provided design services for a 18,000-square-foot addition for an assembly area and a 4,000-square-foot office area.

MITSUBISHI ELECTRIC POWER PRODUCTS, INC. - 520 KEYSTONE DRIVE | WARRENDALE, PENNSYLVANIA

Stantec provided design services for the renovation of 90,000 square feet of industrial and office space.

MORGAN II | BUTLER, PENNSYLVANIA

Stantec provided design services for the design-build Morgan II office complex. The four-story, 42,000-square-foot office building called for quality appearance and construction within a limited budget. The construction was fast tracked and completed within one year. The new building is a steel frame, masonry curtain wall building and is attached to an existing single story business center. Stantec provided architectural, civil, and interior design services.

THE · PENNSYLVANIA · STATE · UNIVERSITY

BY · AUTHORITY · OF · THE · BOARD · OF · TRUSTEES · AND · UPON
THE · RECOMMENDATION · OF · THE · FACULTY · OF · THE · SENATE

HEREBY · CONFERS · UPON
GLENN · ERIC · MILLER

THE · DEGREE · OF
BACHELOR · OF · SCIENCE

IN · RECOGNITION · OF · THE · COMPLETION · OF · THE · MAJOR · IN
LANDSCAPE · ARCHITECTURE

IN · TESTIMONY · WHEREOF · THE · UNDERSIGNED · HAVE · SUBSCRIBED
THEIR · NAMES · AND · AFFIXED · THE · SEAL · OF · THE · UNIVERSITY · THIS
MONTH · OF · MAY · A · D · 1984



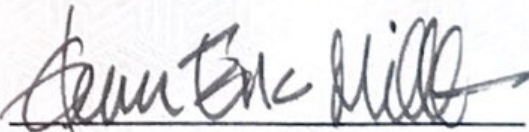
Walter V. Conti
PRESIDENT · OF · THE · BOARD · OF · TRUSTEES

Bruce Jordan
PRESIDENT · OF · THE · UNIVERSITY



James B. Bortro
EXECUTIVE · VICE · PRESIDENT · OF · THE · UNIVERSITY

Robert Holmes
DEAN · OF · THE · COLLEGE · OF · ARTS · AND · ARCHITECTURE

DISPLAY THIS CERTIFICATE PROMINENTLY • NOTIFY AGENCY WITHIN 10 DAYS OF ANY CHANGE		
<p>Commonwealth of Pennsylvania Department of State Bureau of Professional and Occupational Affairs PO BOX 2649 Harrisburg PA 17105-2649</p>		
<p>License Type Landscape Architect</p> <p>GLENN ERIC MILLER 3446 PERRYSVILLE AVE PITTSBURGH, PA 15214</p>		<p>19 0738143</p> <p>License Status Active</p> <p>Initial License Date 03/08/1990</p>
<p> Acting Commissioner of Professional and Occupational Affairs</p>	<p>License Number LA001002R</p>	<p>Expiration Date 05/31/2021</p> <p> Signature</p>
ALTERATION OF THIS DOCUMENT IS A CRIMINAL OFFENSE UNDER 18 PA.C.S. §. 4911		

Tom Berenbrok, LA

Senior Landscape Architect

Although **TOM** is considered a landscape architect by trade, the projects he has contributed to are widely diverse. He's done everything from transportation planning assignments to educational facilities, parks, and brownfield redevelopment—and the services he's provided are just as varied. He's accomplished in site planning, lighting design, graphic design, and construction detailing in large part because he has always been prepared to encounter a variety of unexpected challenges that aren't necessarily considered landscape design. This readiness to accept new experiences is what has made Tom such a valuable asset to his clients for the past 30 years.



Tom has been engaged in a variety of multidisciplinary assignments within both the public and private sectors, serving as both a Design Team Member and a Project Manager. His public sector work has involved federal, state and local governmental contract experience, including transportation planning projects, educational facilities/campuses, park planning and urban design projects. He is accomplished in site planning, landscape designs, lighting designs, graphic designs, construction detailing, specification writing, contract documents and construction contract administration services. He is also experienced in working at environmental remediation sites that involve soil management and landscape/habitat restorations.

Education

- BS, Landscape Architecture, Penn State University, 1987

Relevant Registration

- Registered Landscape Architect #LA001598R Commonwealth of Pennsylvania, 5/31/2013
- Registered Landscape Architect #21AS00080100801 State of New Jersey, 5/31/2012

Project Experience

ATLANTIC COUNTY GOVERNMENT COMPLEX | MAYS LANDING, NEW JERSEY

Site planning and redesign for historic Courthouse complex located in New Jersey's Pinelands Management Area.

KINGS HIGHWAY FIRE STATION, CHERRY HILL FIRE DEPARTMENT | CHERRY HILL, NEW JERSEY

This project involved site design and permitting services in order to develop a new eight-thousand-square-foot fire station and office building within an existing residential neighborhood. This project involved coordination with the environmental staff members and consultants, due to historic pesticide use on the subject parcel, which required the NJDEP's review and approval, along with the preparation of a remedial action work plan for the site remediation. Tom's responsibilities for the site improvements included landscape designs for the historically-styled pedestrian light fixtures, fencing, retaining walls, drainage improvements and screening.

SOMERS POINT POST OFFICE | AGOOS/LOVERA ARCHITECTS, UNITED STATES POSTAL SERVICE | SOMERS POINT, NEW JERSEY

Landscape architectural treatments related to the development of a new post office facility located near the Atlantic Ocean. Project scope included schematic design, design development and bidding/construction documents for planting plan, site furnishings and automatic irrigation system.

HADDONFIELD PUBLIC WORKS BUILDING | BOROUGH OF HADDONFIELD | HADDONFIELD, NEW JERSEY

Design of all site facilities related to new Public Works building. Hardscape, landscape, site lighting, grading, drainage, erosion control, vehicular and pedestrian circulation.

**COLLINGSWOOD CHURCH OF CHRIST |
COLLINGSWOOD, NEW JERSEY**

Site and landscape design for construction of a new 4,050 square-foot worship hall addition to an existing church facility, along with related parking, drainage, landscaping and site improvements.

**CONGRESO DE LATINOS UNIDOS | AGOOS/LOVERA
ARCHITECTS | PHILADELPHIA, PENNSYLVANIA**

Design of all site facilities related to a redevelopment of an existing site and building for use as a community center. Site work included an outdoor plaza and seating area, playground area, practice basketball court, ornamental site lighting, site furnishings and landscaping.

**PHA HEADQUARTERS | PHILADELPHIA,
PENNSYLVANIA | LANDSCAPE ARCHITECT**

Responsible for preparation of construction specifications for the new headquarters of the Philadelphia Housing Authority. The project, occupying one city block, includes plaza spaces, frontage on 3 streets, underground stormwater management and parking to serve the 6-story headquarters building.

**PHILADELPHIA AIRPORT HYATT | PHILADELPHIA,
PENNSYLVANIA**

Responsible for preparation of construction specifications for a proposed hotel adjacent to Philadelphia International Airport. Design goals included ADA accessibility for hardscape elements and a landscape design that would achieve LEED certification.

**GIBBSBORO OFFICE COMPLEX | GIBBSBORO, NEW
JERSEY**

Site design and permitting for development of an office complex comprised of three office buildings on County roadway.

**HIGH RIDGE PROFESSIONAL CAMPUS | GIBBSBORO,
NEW JERSEY**

Site design and permitting for the renovation of an existing skating rink to professional office.

**LOOMIS FARGO & CO. SITE PLAN | PENNSAUKEN,
NEW JERSEY**

Site design and permitting for expansion of existing parking facilities in conjunction with the new owner's use as an armored car depot.

**CARDINAL HEALTH DISTRIBUTION CENTER | LOGAN
TOWNSHIP, GLOUCESTER COUNTY, NEW JERSEY**

Landscape planting plan for 250,000 S.F. warehouse facility located on a 20-acre site. Responsibilities included coordination with owner, project management team, design-build contractor, architect and community representatives.

**SOUTH JERSEY HEALTH AND WELLNESS CENTER |
CHERRY HILL, NEW JERSEY**

Site design and permitting for medical treatment facility. Includes County road access, storm basin, landscape design, site lighting, and utility coordination.

**BEOWULF OFFICE BUILDING | BEOWULF
ENTERPRISES III LLC | CHERRY HILL, NEW JERSEY**

Site design, permitting and construction services for the development of a 3-story office building with ground-level parking situated beneath the building. Site is uniquely sited entirely within a New Jersey Department of Transportation jug-handle and the project required numerous approvals and close coordination with multiple consultants and governmental agencies.

THE · PENNSYLVANIA · STATE · UNIVERSITY

COLLEGE · OF · ARTS · AND · ARCHITECTURE

BY · AUTHORITY · OF · THE · BOARD · OF · TRUSTEES · AND · UPON
THE · RECOMMENDATION · OF · THE · FACULTY · AND · OF · THE · SENATE

HEREBY · CONFERS · UPON

THOMAS ANTON BERENBROK

THE · DEGREE · OF

BACHELOR OF SCIENCE

IN · RECOGNITION · OF · THE · COMPLETION · OF · THE · MAJOR · IN

LANDSCAPE ARCHITECTURE


IN · TESTIMONY · WHEREOF · THE · UNDERSIGNED · HAVE · SUBSCRIBED
THEIR · NAMES · AND · AFFIXED · THE · SEAL · OF · THE · UNIVERSITY · THIS

MONTH · OF · AUGUST · A · D · 1987


PRESIDENT OF THE BOARD OF TRUSTEES


PRESIDENT OF THE UNIVERSITY




EXECUTIVE VICE PRESIDENT
AND PROVOST OF THE UNIVERSITY


DEAN OF THE COLLEGE OF ARTS AND ARCHITECTURE



Donavon Cunningham

Senior Construction Manager

DONAVON is an experienced construction manager with more than 18 years of experience in onsite project management. He has experience in management with numerous highway and bridge construction projects, roadway, and water and wastewater. He has numerous material testing certifications for ensuring quality inspection and management for construction as well.



Education

- AS, Electronic Technician, Fairmont State College, 2004
- CADD and Design Certificate, United Tech Center, 1999

Certifications and Training

- Nuclear Handling/Radiation Portable Gauge Safety Training (Since 2015), Fairmont, West Virginia, 2021
- OSHA 10-Hour Construction Safety and Health, Fairmont, West Virginia, 2015
- Radiation Safety Officer Certification (Since 2014), Fairmont, West Virginia, 2021
- Asphalt Field Technician (Since 2012), Fairmont, West Virginia, 2021
- Aggregate Sampling Inspector Certification (Since 2009), Fairmont, West Virginia, 2021
- Nuclear Compaction Inspector Certification (Since 2009), Fairmont, West Virginia, 2021
- Portland Cement Concrete Inspector, Fairmont, West Virginia, 2008
- Level III CIP National Association of Corrosion Engineers **#14613** NACE International (Since 2012), Fairmont, West Virginia, 2023

Project Experience

MORGANTOWN UTILITIES BOARD (MUB) BURROUGHS RUN/POPONOE RUN WATERWAYS IMPROVEMENT | MORGANTOWN, WEST VIRGINIA

Provided inspection and quality assurance for storm water improvements, stream restoration and sanitary sewer installation improvements. Inspection included installation of 5,800 feet of sanitary sewer line, 2,200 feet of storm sewer line, 11,000 feet of channel restoration, construction of seven precast arch bridge crossings, and installation of 1,000 feet of precast box culverts for flow control of waterway. Quality assurance included field testing on concrete footers, wing walls, and culverts. Compaction testing was performed on backfill, stream bank restoration, and asphalt paving. Inspector also serves as a liaison between the contractor and MUB, conducting on site observation of the work, observing tests, equipment and system set ups.

FAIRMONT SANITARY SEWER PROJECT | CITY OF FAIRMONT | FAIRMONT, WEST VIRGINIA

Donavon was the Instrument Person/Surveyor for this sanitary sewer replacement project including topographic and location surveys, survey and mapping control, property research and boundary control, and the preparation of right-of-way plats and descriptions suitable for recordation. Aero-Metric (Air Survey) performed mapping services on the contract. Construction \$6M.

RESIDENT INSPECTION SERVICES FOR THE PROPOSED CONSTRUCTION ACTIVITIES AND SIMILAR PROJECTS | MORGANTOWN UTILITY BOARD | MORGANTOWN, MONONGALIA COUNTY, WEST VIRGINIA

Donavon was the Surveyor for activities that included stream channels, stream bank, wetland, sanitary sewer, and waterline construction. Funding for the project was provided by the West Virginia Division of Highways, the West Virginia Department of Environmental Protection, and the United States Environmental Protection Agency. Construction \$8.5M

HOLIDAY DETECTION AT MUB WATER TREATMENT PLANT | MORGANTOWN UTILITY BOARD | MORGANTOWN, WEST VIRGINIA

Donavon's inspection duties included taking daily conditions to ensure proper conditions for painting, performing blast inspections to ensure the surface preparation met the specification, performing surface profile tests using Testex Tape to ensure the surface profile met the specification, observing all mixing, thinning, and painting processes to ensure the contractor observed the specification and/or the product data sheets for the coatings, and performing Dry Film Thickness (DFT) measurements for each coat to ensure the coating thickness met the specification using a Positector 6000 DFT gauge.

MUB WATER/SEWER INSPECTION SERVICES | MORGANTOWN UTILITY BOARD | MORGANTOWN, WEST VIRGINIA

Donavon was the Construction Inspector for providing expansion and upgrades to various components of MUB's water and wastewater systems. Funding for the project will be provided by the West Virginia Department of Health and Human Resources, the West Virginia Department of Environmental Protection, and by a Municipal Bond issued by the City of Morgantown. Construction \$25M.

ALPINE LAKE WATER SYSTEM IMPROVEMENTS PROJECT | ALPINE LAKE PUBLIC UTILITIES COMPANY | ALPINE LAKE, WEST VIRGINIA

Donavon was the Inspector for a water system improvements and upgrade project for a 360-resident, 2000-acre private community. Services include providing preliminary engineering, and construction inspection for improvements and upgrades to the water treatment facilities, water booster pump stations, water storage tanks, radio telemetry, and production well development.

WATER IMPROVEMENTS PROJECT | CITY OF SHINNSTON | SHINNSTON, WEST VIRGINIA

Donavon provided inspection services for installation of 73,000 LF of new water lines, booster pump stations, and fire hydrants and renovation and upgrading of the existing potable water treatment plant and construction of one new 88,000 gallon water storage tank and one new 276,000 gallon water storage tank with all necessary appurtenances.

FAIRMONT-MANNINGTON WATER MAIN EXTENSION | CITY OF FAIRMONT | FAIRMONT, WEST VIRGINIA

Donavon was the Instrument Person/Surveyor in charge of all surveying aspects 13-mile water main extension project including topographic and location surveys, survey and mapping control, property research and boundary control, and the preparation of right-of-way plats and descriptions suitable for recordation. Construction \$4.5M.

INFRASTRUCTURE IMPROVEMENTS | CITY OF SHINNSTON | SHINNSTON, WEST VIRGINIA

Donavon was the Instrument Person/Surveyor for the planning, design, and construction inspection services for a water distribution system upgrade for the City of Shinnston. Services will include the Mapping and hydraulic modeling of the existing water distribution network, the identification of problem areas, forecasting future water usage for projected growth areas and the completion of funding applications, detailed design drawings, specifications, bidding, and contract documents, solicitation of bidders and recommendations for award. CEI services include constructability reviews, construction management, project inspection, processing routine pay requests and the preparation of as-built drawings.

LENOX / CUZZART WATER SYSTEM, BRUCETON MILLS | PRESTON COUNTY, WEST VIRGINIA

Providing inspection services for the construction of a 42-mile water system extension to serve approximately 400 new customers in the Lenox and Cuzzart area of Preston County, West Virginia for the Preston County Public Service District #4. The project includes the design of the water distribution system, which includes four water storage tanks, four booster pump stations, and three pressure reducing valves. The Abandoned Mine Lands division of the West Virginia Department of Environmental Protection (WVDEP/AML) and the West Virginia Infrastructure and Jobs Development Council provided funding for this project. The project was initiated by the WVDEP/AML because the areas water sources were significantly impacted by coal mining operations prior to permitting requirements enacted in 1977.

**AS-NEEDED CONSTRUCTION SURVEYING SERVICES,
CORRIDOR H | WEST VIRGINIA DEPARTMENT
OF HIGHWAYS | MOOREFIELD, HARDY COUNTY,
WEST VIRGINIA**

Donavon was the Instrument Person/Surveyor for construction surveys for Corridor H, South Branch of the Potomac to East Dumpling Run Bridge. Under this contract, Stantec provided construction engineering and inspection services and as-needed surveying services for two bridges carrying the new Corridor H over U.S. 220 near Moorefield, WV. This project included new highway and bridge construction, culvert replacements, roadway improvements, pavement overlays, or other various projects typical to road and bridge rehabilitation. Provided survey control, construction stakeout, quality assurance for survey field work performed by contractor. \$10M Construction.

**LANTZ RIDGE MANHEIM ROAD | WEST VIRGINIA
DIVISION OF HIGHWAYS | PRESTON COUNTY,
WEST VIRGINIA**

Donavon was the Instrument Person/Surveyor for mapping control, topographic survey, utility locations, right-of-way plan development, property research, and

boundary control for new 2.1 mile roadway replacing C.R. 80 from Manheim to Rowlesburg. Construction \$2.8M.

**A-E SERVICES FOR ENGINEERING FIELD SURVEYS
AND RELATED SURVEYING | U.S. ARMY CORPS OF
ENGINEERS, HUNTINGTON DISTRICT**

Donavon was the Instrument Person/Surveyor for survey services to the Huntington District, consisting of horizontal and vertical control surveys, hazardous, toxic and radioactive waste surveys, structural deformation studies, route surveys, quantity surveys, land surveys, construction layout surveys, hydrographic surveys, geodetic surveys, and real property surveys of Government-owned land tracts, such as levees, reservoirs, or dredge disposal areas. Sample projects include: Topographic Design Surveys for Sutton Lake Fishing Area and Marlinton, West Virginia Floodwall Projects, Boundary Monumentation/Property Research in Grundy, Virginia, and Hydraulic Bridge Cross Sections for various structures along streams under U.S. Army Corps of Engineers jurisdiction.

West Virginia Division of Highways Materials Certification Card

Donavon Cunningham

13 Mayberry Drive
Fairmont West Virginia 26554

Certification Number:

3827

EXPIRES MAY. 31, 2020

Has Been Certified As:

AGG. SAMP.	COMP.	A.F.T-COMP
PCC. INSP.		

Paul D. Mattox, Jr.
COMMISSIONER

↑ Please note that although this materials certification card for Donavon Cunningham has expired, the State of West Virginia (due to the COVID-19 pandemic) has not yet rescheduled recertification classes needed to renew this certification for 2021.



04

References



Our West Virginia team members have a long-established reputation
in the state for strong performance.

References

CHAD EDWARDS

City Manager
City of Shinnston, WV
Telephone 304-592-5631

FRANK WEHRLE

Business Manager
Town of Franklin, WV
Telephone 304-358-7525

JOE LEIGHTON

President
WV Community Builders LLC
Telephone 304-476-9297



05

Related Prior Experience

Related Prior Experience



Leslie Equipment Company Site

MARION COUNTY, WEST VIRGINIA // LESLIE EQUIPMENT COMPANY

Stantec provided engineering and surveying services for the preparation of a conceptual site plan and final grading plan for their new 28,000-square-foot (SF), sales, service, and parts facility. The project is located along the east side of I-79 in Pleasant Valley, West Virginia.

The design of the 22-acre parcel included about 300,000 cubic yards (CY) of grading, drainage improvements, and the extension of existing utilities (water, sewer, gas, and electric). Along with preparing the NPDES permit for the WVDEP, the site included the removal of incidental coal and was permitted with an incidental coal permit for the WVDEP.

The project included the design of I-79 drainage upgrades to eliminate flooding concerns on the development project.

The project was completed in the fall of 2015.

PROJECT MANAGER: John Vincent, PE

LOCATION: Pleasant Valley, WV

CLIENT CONTACT: Mr. Rick DeMoss -
Leslie Equipment - 304-226-3299

TYPE OF PROJECT: Land planing, site design,
and construction assistance

PROJECT GOALS AND OBJECTIVES: Study,
plan, and construct a steep site to maximize
development acreage for a primary tenant and
potential out parcels for sale or lease.

OUTCOME: Alternative layouts were developed
and analyzed to determine the plan that provided
the best fit, most acreage for the lowest cost per
acre development land. The objective was met
with area for the main tenant and additional out
parcels available for sale or lease.



CENTRA Bus Garage

HARRISON COUNTY, WEST VIRGINIA // CITY OF CLARKSBURG, WEST VIRGINIA

Stantec provided asbestos testing, a report of findings, project bidding specifications and construction inspection for building demolition. Stantec also provided site civil engineering services for the development of conceptual, preliminary, and final construction plans. Stantec then developed construction specifications to build a large retaining wall, backfill, and parking lot expansion for the CENTRA Bus Garage. The completed project increased the traffic flow for the buses coming into the garage and added an additional 26 parking spaces to the site.

PROJECT MANAGER: Richard Gaines, PE

LOCATION: Clarksburg, WV

CLIENT CONTACT: Mr. John Aman -

CENTRA Bus - 304-623-6002

TYPE OF PROJECT: Asbestos testing, demolition, land planning, site design, and construction assistance

PROJECT GOALS AND OBJECTIVES: (1) Study the viability to remove an existing Greyhound Lines bus facility and use the site for parking and a bus drive lane. (2) Design a structure to allow parking and bus travel through the parking lot.

OUTCOME: Alternative plans, including using the old facility or constructing a new facility, were developed and analyzed to determine the plan that provided the best fit and function for the lowest cost. The objective was met with the removal of the old building and the construction of a retaining wall to allow for additional parking and bus access through the site.



Emerald Green Gardens Affordable Housing Project

LINCOLN COUNTY, WEST VIRGINIA // EMERALD GARDENS, LP

Stantec provided engineering and surveying services for the preparation of a conceptual plan, construction plans, and construction specifications for the Emerald Gardens townhouse project located along the west side of SR 10 in West Hamlin, West Virginia.

Phase I included the preparation of a conceptual layout for 42 affordable housing townhouse units on a ±4-acre site that was a previous mobile home trailer park.



Phase II included preparation of a preliminary land plan, field topographic surveys, elevation certificate, ALTA survey, final engineering of the site layout, drainage system, water system extension, sewer extension, and permitting.

PROJECT MANAGER: Richard Gaines, PE
LOCATION: West Hamlin, WV
CLIENT CONTACT: Mr. Andrew Haines - S&A Homes - 814-272-8907
TYPE OF PROJECT: Land planning, site design, and construction assistance
PROJECT GOALS AND OBJECTIVES: Study, plan, and construct affordable housing on vacant land and maximize the available number of units on the acreage.
OUTCOME: Alternative layouts were developed and analyzed to determine the plan that provided the best fit and maximum units for the lowest cost of development. The objective was met by providing the needed number of units and keeping development costs below the allotted budget.



Oak Valley Gardens Affordable Housing Project

GILMER COUNTY, WEST VIRGINIA // PCI DESIGN GROUP

Stantec provided engineering and surveying services for the preparation of a conceptual plan, construction plans, and construction specifications for the Oak Valley Gardens affordable housing townhouse project located along the west side of CR 35/19, which is 2.8 miles south of Glenville, West Virginia, on SR 5.

Phase I included the preparation of a conceptual layout for up to 28 townhouse units on the site.

Phase II included preparation of a preliminary land plan, a field topographic survey, final engineering of the site layout, drainage system, water system extension, sewer extension, and permitting.

PROJECT MANAGER: Richard Gaines, PE

LOCATION: Glenville, WV

CLIENT CONTACT: Mr. Gregg Gaber -
PCI Design Group - 614-396-3265

TYPE OF PROJECT: Land planning, site design,
and construction assistance

PROJECT GOALS AND OBJECTIVES: Study,
plan, and construct an affordable housing on
vacant land to maximize the number of units on
the acreage available.

OUTCOME: Alternative layouts were developed
and analyzed to determine the plan that provided
the best fit and maximum units for the lowest
cost of development. The objective was met by
providing the needed number of units and keeping
development costs below the allotted budget.



Pringle House Senior Living Site Design

UPSHUR COUNTY, WEST VIRGINIA // PRINGLE HOUSE, LP

Stantec prepared construction plans based upon a schematic plan of the site layout provided by the client for a 40-unit affordable living apartment complex for seniors on a ± 5.3 -acre site in Upshur County near Buckhannon, West Virginia.

The construction plans included access road layouts, plan of all proposed onsite roads, typical sections, water distribution/fire line design, onsite gravity sanitary sewer collection system, drainage design, erosion/sediment control, finished grade elevations, and permitting.

The site improvements were designed to comply with accessibility codes and requirements, including ADA and Fair Housing HUD.

PROJECT MANAGER: Richard Gaines, PE

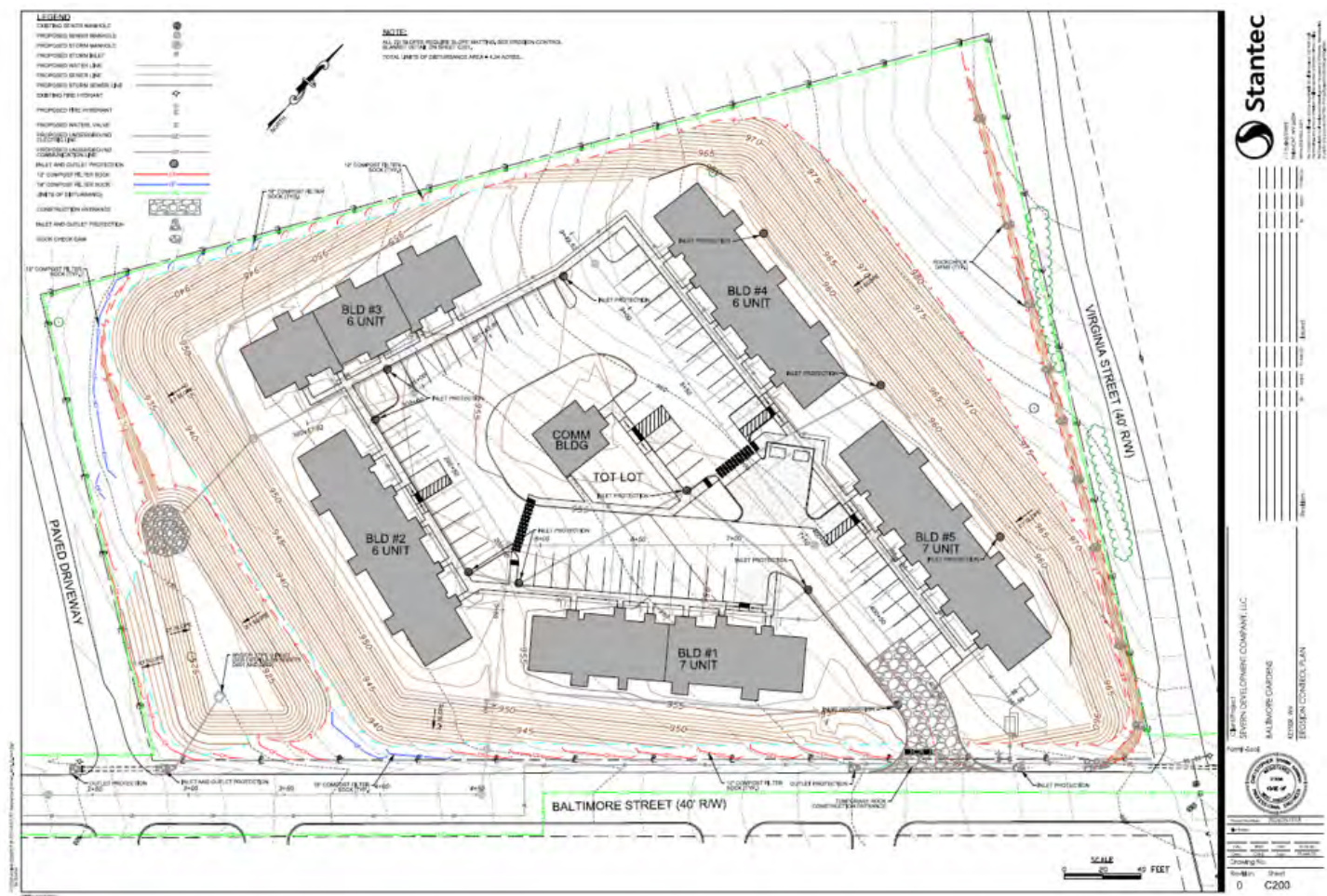
LOCATION: Glenville, WV

CLIENT CONTACT: Mr. Gregg Gaber -
PCI Design Group - 614-396-3265

TYPE OF PROJECT: Land planning, site design,
and construction assistance

PROJECT GOALS AND OBJECTIVES: Study,
plan, and construct an affordable housing on
vacant land to maximize the number of units on
the acreage available.

OUTCOME: Alternative layouts were developed
and analyzed to determine the plan that provided
the best fit and maximum units for the lowest
cost of development. The objective was met by
providing the needed number of units and keeping
development costs below the allotted budget.



Baltimore Gardens

MINERAL COUNTY, WEST VIRGINIA // SEVERN DEVELOPMENT COMPANY, LLC

Stantec is providing site civil engineering services for the development of conceptual plans, preliminary plans, final construction plans, and construction specifications for the Baltimore Gardens Development. Once constructed, the project site will have 32 townhomes within the developer's 3.75-acre site at the corner of Baltimore Street and Virginia Avenue in Keyser, West Virginia.

A portion of the scope of work was to coordinate with the local water and sewer utility companies to allow the proposed development to be served by their existing systems. Due to low water pressure at the site, a hydropneumatic pumping station was designed to provide adequate water pressure for the development. Stantec prepared and submitted applications to the West Virginia Department of Health and Human Resources to obtain permits to install the proposed water and sewer lines and appurtenances.

Site grading, drainage, stormwater detention system and sediment basins for the site were designed to meet regulations for construction activity within the Chesapeake Bay Watershed. Stormwater applications were prepared with required documents to obtain approval of construction activity.

PROJECT MANAGER: Richard Gaines, PE
LOCATION: Keyser, WV
CLIENT CONTACT: Mr. Spencer Leech - Severn Development Company, LLC - 410-269-0900
TYPE OF PROJECT: Land planning, site design, and construction assistance
PROJECT GOALS AND OBJECTIVES: Study, plan, and construct affordable housing on vacant land to maximize the number of units on the acreage available.
OUTCOME: Alternative layouts were developed and analyzed to determine the plan that provided the best fit and maximum units for the lowest cost of development. The objective was met by providing the needed number of units and keeping development costs below the allotted budget.



Huntington Downtown Improvements

CITY OF HUNTINGTON, WEST VIRGINIA // WVDOH/DOT

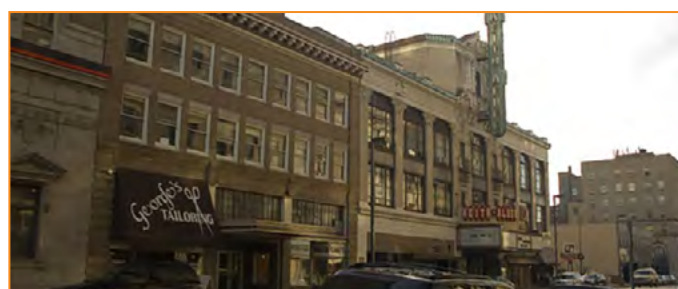
- The focus of Stantec's efforts was to support a vibrant business and pedestrian center.

Working closely with city representatives, local redevelopment consultants, Pullman Square developers, property and business owners, and interested residents, Stantec developed street restoration plans for three vital corridors in downtown Huntington. The focus of these efforts was to support a vibrant business and pedestrian center.

The master plan included converting 3rd Avenue from a heavily traveled arterial to a business-friendly street by rerouting Ohio-bound and other through travelers from 3rd Avenue to Veterans Memorial Boulevard and converting this from a one-way route to a two-way street.

The number of westbound travel lanes on 3rd Avenue was reduced from four to two at 13th Street, the gateway intersection to the downtown area. Streetscape features including a large transition island and raised center median with decorative features and banner poles were constructed to define this transition. The streetscape improvements introduced many elements drawing inspiration from history, existing improvements and the Pullman Square development.

9th Street renovations involved converting this two block section from a confusing and difficult to navigate mix of one-way vehicular access and parking to a people and business friendly street. Working with City leaders and business owners, our team developed a variety of traffic and parking alternatives. The preferred solution reestablished low speed two-way traffic on 9th Street, and maximized sidewalk widths and parking. These elements are essential to pedestrian circulation, strengthening the sense of connection to 3rd Avenue and Pullman Square, and access to the businesses along 9th Street. Our familiarity with the project area, City staff and project requirements allowed this project to be designed and constructed within a short timeframe.



- ↑ The historic Keith-Albee Theatre is the focus of improvements along 4th Avenue. This two block section was designed to reduce the street cross section from four to three lanes and included pedestrian crossing.

PROJECT MANAGER:

Mike Rutkowski, PE, AICP

LOCATION: Huntington, WV

CLIENT CONTACT: Ms. Breanna Shell - City of Huntington - 304-696-5540

TYPE OF PROJECT: Master planning for redevelopment with a focus on pedestrian and vehicular circulation

PROJECT GOALS AND OBJECTIVES:

Study the best alternatives for the redevelopment of a section of Huntington, taking into consideration pedestrian and vehicular interaction.

OUTCOME: Alternative layouts/plans were developed and analyzed to determine the plan that provided the best fit and maximum units with the highest level of safety and enjoyment for the community. The objective was met by providing multiple alternatives and a plan for future redevelopment.



University Avenue Complete Streets Improvement Plan

MORGANTOWN, WEST VIRGINIA

A fusion of various disciplines was required on this complex Complete Streets project in Morgantown, West Virginia. Ranging from neighborhood arterial to major commercial corridor to campus gateway, University Avenue provided a series of challenges with regard to operations, safety, multimodal transportation, and development potential.

Stantec provided a comprehensive vision for this corridor in the form of a final report, traffic operations and safety document, implementation strategy, scenario planning report, and comprehensive corridor plan.

In such a complex corridor, with a university, three neighborhoods, and a commercial district, reaching out to the public was an important component of this project. Using innovative tools, such as CityZen, a social media outreach tool, traditional websites, MindMixer, project symposia, and a steering committee, Stantec was able to reach a large number of crucial stakeholders to achieve the public buy-in that was so important for the success of this plan.



Six Forks Complete Streets / Streetscape Study

RALEIGH, NORTH CAROLINA

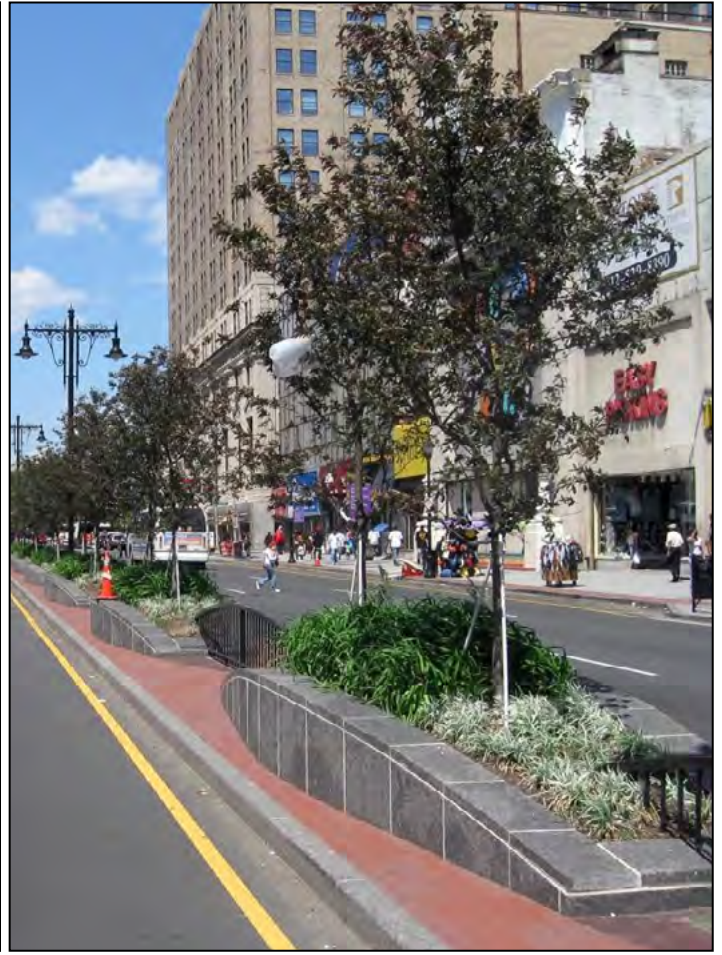
Stantec conducted a Complete Streets and Streetscape Corridor Plan for Six Forks Road between I-440 and Lynn Road in Raleigh, NC. The plan included strategies for improving pedestrian safety and movement; incorporated place-making opportunities, sustainability, and multimodal transportation connectivity; and included an innovative approach to transportation planning for the most dynamically changing corridor in Raleigh.

Six Forks Road, a major thoroughfare providing access to numerous neighborhoods and retail amenities, is an important north-south corridor and is identified as the “Main Street of Midtown Raleigh.” With substantial traffic volumes, our plan focused not only on improving access and mobility for vehicles, but also for pedestrians, bicyclists, and transit users. To accomplish this task, we employed innovative design solutions in access management, alternative intersection treatments, and spot safety measures that respect a diversity of context and travelers.



**Winner of the
“Best Project
Award”**
NCSITE 2015

Other crucial components of this project are place-making and land-use planning alternatives. In conjunction with our subconsultant, Stantec married elements of high-quality public space design and land use forecasting with functional traffic modeling and facility design to create a holistic solution that meets the City of Raleigh’s and the community’s vision for the area. Analytical tools that supported our alternatives analysis included VISSIM, Synchro, and MicroStation, among others. Another fundamental component of this project was our successful public involvement component, which included key pad polling, visual simulations, and stakeholder interviews. The final product of this study is a cohesive plan that supports all modes of transportation and enhances the sense of place for the corridor.



Broad Street Streetscape and Master Plan

NEWARK, NEW JERSEY

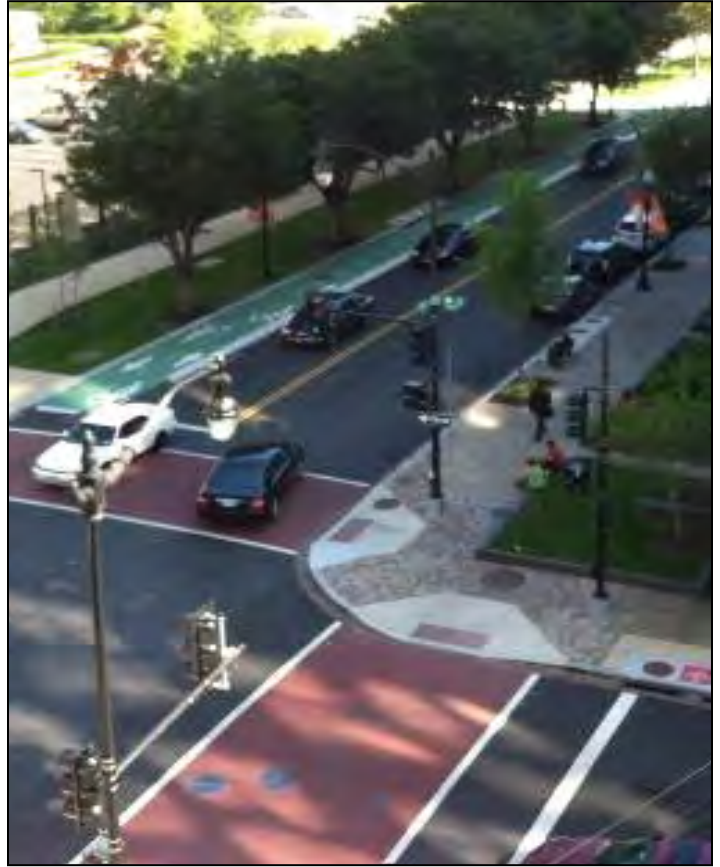
Stantec initiated an extensive public outreach program to obtain stakeholder approval of the master plan and schematic design for Broad Street, a primary visual and physical corridor link between several distinct neighborhoods in Newark.

As part of the design and implementation of this major street and sidewalk improvement program, Stantec is providing planning, landscape architecture, civil engineering, and survey services. Besides Broad Street's substantial length and width, it establishes the crossroads at the heart of the city where it intersects with Market Street.

The goal of this multiphased capital improvement program is to develop a comprehensive design vocabulary for the length of Broad Street that is distinctly Newark in character. Specific objectives include improving pedestrian safety along the Broad Street corridor and preparing contract documents for phased implementation of these improvements.

The streetscape and safety enhancements include new granite curbing, decorative sidewalk and roadway paving treatments, distinctive street and pedestrian lighting, and other sidewalk amenities. The project's signature element is a raised planted median featuring large planters and street lighting that will both add character to the roadway and improve pedestrian safety. Other safety improvements include updated traffic signal equipment and improved traffic signal timing.

This project required close ongoing coordination with the New Jersey Department of Transportation and New Jersey Transit to obtain traffic signal approvals and accommodate bus operations.



Award-Winning Reconstruction of 1st Street NE from G Street to New York Avenue







WASHINGTON, DC





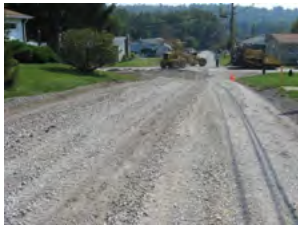

Stantec provided planning support, design and preparation of construction documents for the 3,300-foot reconstruction and rehabilitation 1st Street NE between G Street NE and New York Avenue NE, in the revitalized North of Massachusetts (NoMa) neighborhood in the District's northeast. The work included providing a two-way, on-road cycle track that provides a key link along the Metro Branch Trail between Union Station and the NoMa Metro Station. The cycle track was designed based on state-of-the-practice guidelines, including a textured green paint surface, signal-protected left-turns, low-profile curbs, and a modular precast barrier curb to separate bicyclists from the traveled way.





The project also included reconstruction of the combined (sanitary/storm) sewer system, water line improvements, traffic signal upgrades, signing & marking, a low impact development facility for stormwater management, landscaping improvements, and new street lighting. Context sensitive design elements such as exposed aggregate sidewalks and imprinted thermoplastic sidewalks were incorporated into the project. Stantec's landscape architect worked with DDOT Urban Forestry Administration to preserve a handsome stretch of Japanese zelkova street trees. All improvements were designed for Americans with Disabilities Act (ADA) compliance, including upgrades to all signals to comply with ADA requirements for Accessible Pedestrian Signals.

An extensive coordination effort among DDOT, developers of numerous adjacent parcels, the NoMa-BID, utility companies, and the design team, ensured that construction proceeded as-planned and on-schedule. Stantec also worked closely with utility company representatives from Verizon, Verizon Business (MCI), Comcast, and Zayo to consolidate telecommunications conduit into one duct bank, prior to the start of DDOT construction. Stantec also worked with Washington Gas to protect existing gas lines during construction and relocate gas lines in conflict with proposed storm sewers. Stantec completed 100% and PS&E plans and specifications, prepared the bid package, and obtained permits and approvals for construction. All plans were prepared in accordance with DDOT Standards and Specifications for Highways and Structures, the DDOT Design and Engineering Manual, AASHTO, and MUTCD.

Additional Projects of Interest

PROJECT NAME/LOCATION	PROJECT HIGHLIGHTS	
Walnut Street Streetscape Morgantown, WV	Stantec was responsible for the creation of plans, contract and bid documents and construction management for the streetscape improvements project along Walnut Street in downtown Morgantown. This included colored stamped concrete, period lighting, an MSE style retaining wall, relocation of utilities to underground locations, and coordination with the landscape architect, beautification committee, and tree board.	
Patteson Drive Sidewalk Morgantown, WV	Stantec was responsible for the overall design and construction management of approximately 1100 linear feet of sidewalks, curb and gutter and storm drainage system for a sidewalk project along Patteson Drive from Monongahela Boulevard to Laurel Street and the design of trail access from Krepp's Park to Monongahela Boulevard. Both trail and sidewalk were designed in accordance with US Architectural and Transportation Barriers Compliance Board guidelines and meet ADA requirements. The project was funded by transportation enhancement grant under TEA-21 and administered by West Virginia Division of Highways.	
Design & Construction Services for New Sidewalks Morgantown, WV	Stantec provided the planning, detailed design, specifications, cost estimates, construction bid documents, and construction engineering and inspection for the installation of new sidewalks along James and Darst Streets. The project also includes the installation of handicap accessible ramps to comply with ADA requirements.	
Design & Construction for New Sidewalks Morgantown, WV	Stantec provided the planning, detailed design, specifications, cost estimates, construction bid documents, and construction engineering and inspection for the installation of new sidewalks throughout the City. The project also includes the design of retaining walls and drainage facilities to accommodate the sidewalk construction. This project is TEA-21 funded and will be incorporated into a citywide network of pedestrian and bicycle trail facilities.	
Franklin Safe Routes to School Project Franklin, WV	Stantec provided the planning, detailed design, specifications, cost estimates, construction bid documents, and construction engineering and inspection for the installation of new steps and a sidewalk that connects Franklin Elementary School and High Street. The project also included the removal of the existing sidewalks and steps that had deteriorated and were unsafe. This project was funded under the West Virginia Safe Routes to School program.	
Route 40 ADA West Virginia	Stantec provided engineering service for the West Virginia Department of Highways for the design of 36 handicap accessible ramps. All ramps that were designed and installed was to comply with ADA Requirements. Some ramps were designed and installed in their existing locations while others were moved or newly installed to provide better flow of pedestrian traffic. This project also consisted of relocating stop bars and crosswalks to ensure compliance with ADA Requirements.	

PROJECT NAME/LOCATION	PROJECT HIGHLIGHTS
Design & Construction Services for New Sidewalks Fairview, WV	<p>Stantec provided the planning, detailed design, specifications, cost estimates, construction bid documents, and construction engineering and inspection for the installation of new sidewalks along Main Street. The project also included the removal of the existing sidewalks and the installation of handicap accessible ramps to comply with ADA requirements. This project is TEA-21 funded and had to comply with the WVDOH design regulations.</p> 
Shinnston Sidewalk & Retaining Wall Shinnston, WV	<p>Stantec was responsible for the overall coordination of removing over 400 square yards of concrete sidewalk and steps, followed by the replacement of concrete sidewalk and steps with over 786 linear feet of safety railing and 73 linear feet safety railing, pile and lagging style retaining wall, grouting repair of existing MPA style wall, MSE style retaining wall, and the replacement of 76 square yards of asphalt along High Street. Stantec provided the planning, detailed design, specifications, cost estimates, construction bid documents, and construction engineering and inspection.</p> 
Design & Construction Services for Historic Street Lighting Project Lumberport, WV	<p>Stantec provided the planning, detailed design, specifications, cost estimates, construction bid documents, and construction engineering and inspection for the installation of 12 new Historic Style Street Lights. The project also included the installation of brick pavers for the trench rehab. This project was TEA-21 funded.</p> 
Route 19 Sidewalk Project Shinnston, WV	<p>Stantec was responsible for the design and construction management of new sidewalks along U.S. Rt. 19 in the City of Shinnston, WV. The project consisted of the installation of approximately 717 S.Y. of concrete sidewalk, handicapped accessible ramps, 6 WVDOH Type D Drain Inlets, and 30 LF of storm sewer along U.S. Route 19 from Stydahar Field to Thomas Street.</p> 
Ferguson Memorial Park Paving Shinnston, WV	<p>The project consisted of approximately 700 tons of asphalt base course, 350 tons of asphalt wearing course, crushed aggregate base course, drop inlet risers and existing concrete sidewalk removal and installation of handicap ramps. Stantec was responsible for the design and construction management services for this project. Design included site and drainage analysis, quantifying materials and cost estimates. Construction included inspection and engineering during construction.</p> 
Shinnston Street Paving Shinnston, WV	<p>The project consisted of paving five (5) city streets in Shinnston (Upper Ferguson Street, Reynolds Street, East Pike Street, Roosevelt Street, Norma Lane and Philli Lane). The materials involved included approximately 882 tons of asphalt wearing course, 1441 square yards of base repair, 802 square yards of pavement milling, and 2218 gallons of bituminous tack coat. Stantec was responsible for the design and construction management services for this project. Design included pavement subbase analysis, quantifying materials and cost estimates. Construction included inspection and engineering during construction.</p> 

PROJECT NAME/LOCATION	PROJECT HIGHLIGHTS
Acorn Park Streetscape Silver Spring, MD	<p>Stantec provided the site engineering and land surveying services for the Acorn Park Streetscape for the 10,000-sf urban park setting. In conjunction with the architect, the team designed the details for the revitalization of the Montgomery County and State of Maryland right-of-ways. Stantec was responsible for obtaining approvals and permits for all of the design work relating to this project from state and county agencies, including all aspects pertaining to sediment control and stormwater management.</p> 
Traffic Calming Project Morgantown, West Virginia	<p>Stantec provided engineering services for the design of traffic calming devices in White Park, Marilla Park and the Evansdale Campus area within the City of Morgantown, in accordance with the Manual on Uniform Traffic Control Devices (MUTCD) and from the Institute of Transportation Engineers (ITE). The White Park area consisted of 5 speed humps measuring 12'x3" and were placed at critical locations throughout East Parkway Ave. and Hite St. The Marilla Park area consisted of seven 7 speed humps measuring 12'x3" and were placed at critical locations throughout East Brockway Ave. The Evansdale Campus area consisted of 6 speed tables measuring 22'x3" with a 10' flat area on top and were placed at critical locations throughout Riverview Dr. Rawley Ave., and Oakland St.</p> 
Market Street Streetscape Frederick, MD	<p>Stantec provided the planning, landscape architecture, civil engineering, traffic engineering, and land surveying services for the "Streetscape" of Market Street (MD 355) from South Street north to 7th Street for an area approximately one mile in length. The project was to place the overhead utility lines underground, while creating a pedestrian friendly, aesthetically pleasing street place while accommodating vehicular traffic.</p> 
Marketplace at the Cascades Town Center Loudoun, VA	<p>Stantec provided engineering, planning, and survey services, including the preliminary and final site plans for this 214,000 sf project, which includes retail, fast food, banking, and a variety of commercial activities and unique pedestrian walkways. The Marketplace was designed to create a downtown atmosphere for the Potomac Lakes Community located in the southeast quadrant of the Palisades Parkway/Cascades Parkway intersection just west of the Northern Virginia Community College campus.</p> 
Olde Towne Park, Historic B&O Railroad Site Gaithersburg, MD	<p>Stantec provided the overall planning, landscape architecture, civil engineering, structural engineering, traffic engineering, and land surveying services for the Olde Towne Park, parking lot, museum, and streetscape for the historic B&O Railroad site, an area comprising a little more than one-acre of land. The Village Plaza, complete with the Clock, alternates hard and soft surfaces to accommodate daily gatherings and foot traffic to and from the many Olde Towne merchants.</p>

06

Project Goals and Objectives: Anticipated Concepts and Methods of Approach

Project Goals and Objectives:

Anticipated Concepts and Methods of Approach

→ **2. PROJECT AND GOALS: THE PROJECT GOALS AND OBJECTIVES ARE LISTED BELOW. VENDORS SHOULD DISCUSS ANY ANTICIPATED CONCEPTS AND PROPOSED METHODS OF APPROACH FOR ACHIEVING EACH OF THE LISTED GOALS AND OBJECTIVES:**

→ **2.1. EVALUATE CURRENT AND POTENTIAL ROUTES OF INGRESS/EGRESS, TRAFFIC FLOW, ACCESS POINTS (INCLUDING SECURITY), AND PARKING BASED ON CURRENT FACILITY OPERATIONS AND PLANNED FUTURE EXPANSION.**

The first step in any good planning effort is to collect existing available data and plans and meet with key users of the current facility. The purpose of this meeting is to extract an understanding of what works well and where improvements are needed and determine the desired outcome for the project. Once Stantec staff understands the needs and potential related logistical issues, multiple concept plans can be developed to meet the needs for better security, access, more efficient parking layout, and ascertain how improvements can be provided for better traffic flow in the area.

→ **2.2. DEVELOP RECOMMENDATIONS FOR SOLUTIONS FOR FACILITY ROADS, ACCESS POINTS, AND OVERALL FACILITY EXPANSION AND EVALUATE ADJACENT PROPERTIES (INCLUDING SURVEY AND MAPPING) THAT MAY BE INTEGRAL TO THOSE SOLUTIONS.**

Based upon information gathered and after gaining an understanding of what the current use and future plans are for Guthrie facility, recommendations will be made for possible additional access points and for upgrading the existing access road to and through the facility. Aerial mapping (with contours and topographic features) is *the* best tool to use in understanding the current site configuration and planning for any desired development or upgrade to serve the project area. In the event work outside the property limits is identified, surveying staff can help determine boundary limits. In the event additional access points are identified to connect to the WVDOH, highway coordination with WVDOH District #1 staff will be necessary, and Stantec already has a great relationship with WVDOH staff in the relevant district. Desktop studies will be performed to understand the topography, environmental conditions, and historic uses of the property so as to identify the highest and best use of the area and potential points of access.

→ **2.3. DESIGN ALTERNATE ROUTES OF INGRESS/EGRESS, SECURE ACCESS POINTS, AND PARKING IMPROVEMENTS TO SUPPORT FUTURE FACILITY OPERATIONS.**

Roadway, traffic and land development is the strongest part of our West Virginia staff so, the development of construction plans for proposed parking and access roads with controlled access fits perfectly with our staff expertise. From initial design concepts through construction plan development, permitting, and construction, Stantec has the experience and staff ready to provide an innovative solution to every need identified at the Guthrie site.

→ **2.4. ASSIST WITH BID EVALUATION AND PROVIDE CONSTRUCTION OVERSIGHT AND INSPECTION SERVICES FOR FACILITY ROAD, TRAFFIC FLOW/ACCESS, AND PARKING IMPROVEMENTS.**

Stantec staffs a team of professional construction managers and inspectors with years of experience overseeing construction projects throughout West Virginia. Construction is *the* most important part of a project because the success of the project relies upon the design concepts to be accurately constructed in the field. Our staff provides assistance in evaluating bids and helps determine where potential problems might arise before contracts are signed and construction begins. Coordination between the contractor and facility management will be the key to constructing improvements while maintaining a safe and usable site during construction. Daily reports of site activities are developed and shared with the owner. These reports indicate the progress of work and document any issues identified with the work. Should issues arise, our seasoned construction managers know that the resolution of those issues must be accomplished as soon as possible, so they will strive to resolve any challenges immediately once they're identified. Review and response to submittals, contractor requests for information (RFIs), and change order requests are a priority so as to allow construction to progress without delays.



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