

Expression of Interest
3 Reserve Centers in Elkins, Fairmont
And Spencer-Ripley, West Virginia
Purchase Order No. DEFK11023

Submitted to:

Purchasing Division

2019 Washington Street, East
P. O. Box 50130
Charleston, WV 25305-0130

Submitted by:

Stantec Consulting Services Inc.

One Moore Avenue
Buckhannon, WV 26201
(304)472-7140

218 - 6th Avenue
St. Albans, WV 25177
(304)722-3951

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WV PURCHASING
DIVISION



Stantec

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Statement of Qualifications
Division of Engineering & Facilities
RFQ #DEFK11023

SECTION I

Expression of Interest



Stantec

January 18, 2011

West Virginia Department of Administration
Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

Subject: RFQ: DEFK11023
Division of Engineering & Facilities

Stantec Consulting Services Inc. is pleased to submit this response to the solicitation for Expressions of Interest for architectural/engineering services for three (3) WV Army National Guard armed forces reserve centers located in the vicinity of Elkins, Spencer-Ripley, and Fairmont, West Virginia.

This proposal outlines our team's qualifications, technical expertise, management and staffing capabilities, and related experience, thus demonstrating our capabilities to provide the services enumerated in the subject RFQ.

Stantec has a broad palette of local and national resources that can address the issues associated with your projects.

Founded in 1954, **Stantec** provides professional services to a variety of public and private clients and has been consistently ranked among the nation's top engineering firms by *Engineering News Record*. **Stantec** handles assignments ranging from small to very large design and construction service projects. The firm's ability to compete on such an extensive range of projects is directly related to the firm's ability to effectively share resources and expertise from its highly qualified and diverse staff. **Stantec** employs some 10,000 employees located in approximately 150 offices across North America.

Extensive Experience – **Stantec** has comprehensive experience working for and coordinating with numerous public and private sector entities to provide commissioning services, and construction engineering services.

On-Time/On-Budget Performance - The firm's management is committed to a consistency of approach and a carefully monitored Quality Assurance/Quality Control Program for all projects. (Note that **Stantec** uses an ISO9001 Registered Auditing Management System). The commitment to these two important items ensures that projects stay on budget and are completed within the project schedule.

Multidisciplinary Approach – Commissioning professionals, engineers, technicians, surveyors, and other professional support personnel work together to take a project from conceptual planning through preliminary and final reports, construction management,

RFQ: DEFK11023
Division of Engineering & Facilities

completion of construction, commissioning, and final operational status. This approach is one of our strongest assets, allowing us to provide comprehensive services for projects that are prepared with the client's needs and expectations in mind. Stantec is prepared to provide **commissioning services** for the **Mechanical, Plumbing, Electrical, Fire/Life Safety, and Specialty Systems** as detailed in part 3 of the procurement specifications, and, if requested, **construction engineering and inspection services** as further set forth in the procurement specifications. Stantec proposes to staff this assignment from our West Virginia and New York offices. Resources from other Stantec locations will be readily available to our project manager if needed. A proposed organizational chart is provided in *Section IV; Project Personnel*, of this submission that illustrates staff assignments and reporting relationships.

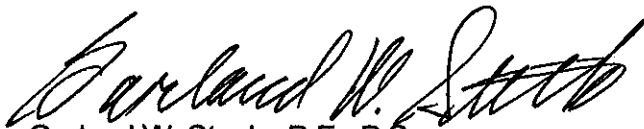
Stantec has assigned **Garland Steele, P.E., P.S.**, as the Project Manager. Mr. Steele will be the primary contact with the West Virginia Army National Guard throughout all phases of this project. Other key personnel will work closely with project personnel as appropriate for the expeditious accomplishment of the work.

In summary, Stantec will utilize resources for this project that bring a wealth of experience for accomplishment of the services required on the 3 Armed Forces Reserve Centers currently under construction as described in the EOI Request.

If additional information is needed please contact me by email at garland.steele@stantec.com or telephone at 304-722-3951.

Yours very truly,

STANTEC CONSULTING SERVICES INC.



Garland W. Steele, P.E., P.S.
Project Manager

GWS/vb

Statement of Qualifications
Division of Engineering & Facilities
RFQ #DEFK11023

SECTION II

Solicitation for Expressions
of Interest (copy of)



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

Request for Quotation

RFQ NUMBER
DEFK11023

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

RFQ COPY
TYPE NAME/ADDRESS HERE

DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION
1707 COONSKIN DRIVE
CHARLESTON, WV
25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS		
12/02/2010						
OPENING DATE: 01/31/2011		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
01	1	JB	EOI			
3 RESERVE CTRS IN ELKINS, FAIRMONT AND SPENCER-RIPLEY						
EXPRESSION OF INTERESTS (EOI)						
THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, WV ARMY NATIONAL GUARD, IS SOLICITING EXPRESSIONS OF INTEREST TO PROVIDE ARCHITECTURAL AND ENGINEERING SERVICES FOR THREE (3) WV ARMY NATIONAL GUARD ARMED FORCES RESERVE CENTERS LOCATED IN THE VICINITY OF ELKINS, SPENCER-RIPLEY AND FAIRMONT, WEST VIRGINIA, AS DEFINED PER THE ATTACHED.						
TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO TARA LYLE VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, VIA FAX AT 304-558-4115, OR VIA E-MAIL AT TARA.L.LYLE@WV.GOV.						
DEADLINE FOR ALL TECHNICAL QUESTIONS IS 12/15/2010 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE		TELEPHONE		DATE		
FAX		ADDRESS CHANGES TO BE NOTED ABOVE				

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

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

1. Awards will be made in the best interest of the State of West Virginia.
 2. The State may accept or reject in part, or in whole, any bid.
 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
 5. Payment may only be made after the delivery and acceptance of goods or services.
 6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
 7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
 10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
 12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
 13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vro/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
 14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
 15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
 16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.
- I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 60130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

Rev. 12/15/09



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

Request for Quotation

RFQ NUMBER
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ADDRESS CORRESPONDENCE TO ATTENTION OF
TARA LYLE
304-558-2544

RFQ COPY
TYPE NAME/ADDRESS HERE

DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS		
12/02/2010						
BID OPENING DATE: 01/31/2011		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
LAPSED.						
CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICE SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.						
BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.						
NOTICE						
A SIGNED BID MUST BE SUBMITTED TO:						
DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130						
PLEASE NOTE: PLEASE PROVIDE TWO (2) ORIGINALS IN A THREE-RING BINDER PLUS ONE (1) COPY ON A CD. IN PDF FORMAT IS PREFERRED.						
THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:						
SEALED BID						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE		TELEPHONE		DATE		
TITLE		FAX		ADDRESS CHANGES TO BE NOTED ABOVE		

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



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

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TYPE NAME/ADDRESS HERE

DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS		
12/02/2010						
BID OPENING DATE: 01/31/2011		BID OPENING TIME 01:30PM				
LINE	QUANTITY	LOP	QTY NO	ITEM NUMBER	UNIT PRICE	AMOUNT
BUYER:-----TARA LYLE-FILE 32-----						
RFQ. NO.:-----DEFK11023-----						
BID OPENING DATE:-----01/12/2011-----						
BID OPENING TIME:-----1:30 PM-----						
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						

CONTACT PERSON (PLEASE PRINT CLEARLY):						

***** THIS IS THE END OF RFQ DEFK11023 ***** TOTAL:						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE			TELEPHONE		DATE	
TITLE			FAX		ADDRESS CHANGES TO BE NOTED ABOVE	

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

EXPRESSION OF INTEREST

BRAC Armed Forces Reserve Center Commissioning Services
Requisition # DEFK11023

Part 1 GENERAL INFORMATION

1.1 Purpose:

The Acquisition and Contract Administration Section of the Purchasing Division "State" is soliciting Expression(s) of Interest (EOI) for the West Virginia Army National Guard, Construction and Facilities Management Office (CFMO), from qualified firms to provide architectural/engineering services as defined in section two (2) and three (3).

1.2 Project:

The requirement for this EOI is for professional commissioning services for the West Virginia Army National Guard Armed Forces Reserve Centers located in the vicinity of Elkins, Spencer-Ripley and Fairmont, West Virginia.

1.3 Format: N/A

1.4 Inquiries:

Additional information inquiries regarding this EOI must be submitted in writing to the State Buyer with the exception of questions regarding proposal submission, which may be oral. The deadline for written inquiries is identified in the Schedule of Events, Section 1.16. All inquiries of specification clarification must be addressed to:

Tara Lyle, Senior Buyer
Purchasing Division
P.O. Box 50130
Charleston, WV 25305-0130
Fax: (304) 558-4115
Email: Tara.L.Lyle@wv.gov

The firm, or anyone on the firm's behalf, is not permitted to make any contact whatsoever with any member of the evaluation committee. Violation may result in rejection of the EOI. The State Buyer named above is the sole contact for any and all inquiries after this EOI has been released.

- 1.5 **Vendor Registration:**
Firms participating in this process should complete and file a **Vendor Registration and Disclosure Statement** (Form WV-1) and remit the registration fee. Firm is not required to be a registered vendor in order to submit an EOI, but the **successful firm must** register and pay the fee prior to the issuance of an actual contract.
- 1.6 **Oral Statements and Commitments:**
Firm must clearly understand that any verbal representations made or assumed to be made during any oral discussions held between firm's representatives and any State personnel are **not** binding. Only the information issued in writing and added to the Expression of Interest specifications file by an official written addendum is binding.
- 1.7 **Economy of Preparation:**
EOI's should be prepared simply and economically, providing a straightforward, concise description of firm's abilities to satisfy the requirements of the EOI. Emphasis should be placed on completeness and clarity of content.
- 1.8 **Labeling of the Sections:** The response sections should be labeled for ease of evaluation.
- 1.9 **Submission:**
1.9.1 State law requires that the original expression shall be submitted to the Purchasing Division. All copies to the Purchasing Division must be submitted **prior** to the date and time stipulated as the opening date. All expressions will be date and time stamped on the Purchasing Division official time clock to verify time and date of receipt.

1.9.2 Firms mailing expressions should allow sufficient time for mail delivery to ensure timely arrival. The Purchasing Division **CANNOT** waive or excuse late receipt of an expression which is delayed and late for any reason according West Virginia State Code §5A-3-11. Any EOI received after the bid opening time and date will be immediately disqualified in accordance with State law and the Legislative Rule 148-CSR-1.

Submit:

Two original (3-Ring Binder preferred) plus (1) copy on compact disk of single PDF file to:

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

The outside of the envelope or package(s) should be clearly marked:

Buyer:	TL - 32
Req #:	DEFK11023
Opening Date:	01/12/2011
Opening Time:	1:30 PM

1.10 Rejection of Expressions:

The State shall select the best value solution according to §5G-1-3 of the West Virginia State Code. However, the State reserves the right to accept or reject any or all expressions and to reserve the right to withdraw this Expression of Interest at any time and for any reason. Submission of, or receipt by the State of Expressions confers no rights upon the firm nor obligates the State in any manner.

1.11 Incurring Costs:

The State and any of its employees or officers shall not be held liable for any expenses incurred by any firm responding to this EOI for expenses to prepare, deliver, or to attend the short-list interviews.

1.12 Addenda:

If it becomes necessary to revise any part of this EOI, an official written addendum will be issued by the State to all potential firms of record.

1.13 Independent Price Determination:

A contract will not be considered for award if the negotiated price was not arrived at independently without collusion, consultation, communication, or agreement as to any matter relating to prices with any competitor.

1.14 Price Quotations: No "price" or "fee" quotation is requested or permitted in the response.

1.15 Public Record:

1.15.1 Submissions are Public Record.

All documents submitted to the State Purchasing Division related to purchase orders/contracts are considered public records. All EOI's submitted by firms shall become public information and are available for inspection during normal official business hours in the Purchasing Division Records and Distribution center after the expressions have been opened.

1.15.2 Written Release of Information.

All public information may be released with or without a Freedom of Information request, however, only a written request will be acted upon with duplication fees paid in advance. Duplication fees shall apply to all requests for copies of any

document. Currently the fees are \$0.50/page, or a minimum of \$10.00 per request, which ever is greater.

1.15.3 Risk of Disclosure.

The only exemptions to disclosure of information are listed in West Virginia Code §29B-1-4. Primarily, only trade secrets as submitted by a firm are the only exemption to public disclosure. The submission of any information to the State by a firm puts the risk of disclosure on the firm. The submission of any information to the State by a vendor puts the risk of disclosure on the vendor. The State does not guarantee non-disclosure of any information to the public.

1.16 Schedule of Events:

Release of the EOI.....	12/03/2010
Technical Questions Deadline	12/15/2010
EOI opening date.....	01/12/2011

1.17 Mandatory Prebid Conference: N/A

1.18 Bond Requirements: N/A

1.19 Purchasing Affidavit:

West Virginia State Code §5A-3-10a (3) (d) requires that all firms submit an Affidavit regarding any debt owed to the State and licensing and confidentiality certifications. The Affidavit **must** be signed and submitted prior to award. It is preferred that the Affidavit be submitted with the EOI.

PART 2

OPERATING ENVIRONMENT

2.1 Location:

2.11 Agency is located at:

The WV Army National Guard
Joint Forces Headquarters
Construction and Facilities Management Office
1703 Coonskin Drive
Charleston, West Virginia 25311

2.12 Projects are located at:

Vicinity of Elkins, Spencer-Ripley, and Fairmont, WV

2.2 Background: The Owner is seeking the services of a qualified Commissioning Authority/firm for new construction projects. The projects are as follows:

Spencer -Ripley AFRC: This project consists of the construction of a new Spencer/Ripley Armed Forces Reserve Center (AFRC) and supporting facilities. Guard/Reserve personnel strength for this installation totals 152 with an additional 14 permanent staff. The complex including 75,904 SF of conditioned space will be situated upon 59 acres of a total 344-acre tract of land adjacent to the Ohio River, just north of the community of Cottageville in western Jackson County. Project facility is approximately 25% complete.

Fairmont AFRC: Construction of the Fairmont Armed Forces Reserve Center (AFRC) located in Fairmont, WV. The project includes multiple new building structures totaling approximately 91,000 SF of construction with related site improvements including parking, access roads, and utility extensions. An expanded 'civic' space of approximately 28,000 SF is included in the building. Project site development is currently under way.

Elkins AFRC: 50,000 gross SF, one story, building in Elkins, WV. The facility is expected to be comprised of 25% classrooms, 25% office space, and 50% other. Project facility is approximately 15% complete.

PART 3 PROCUREMENT SPECIFICATIONS

3.1 General Requirements: Provide Commissioning Services for three AFRCs, currently in construction.

3.2 Project Description: Professional commissioning services shall include the following systems:

MECHANICAL

1. Central building automation system (BAS)
2. All equipment of the heating, ventilating and air conditioning systems
3. Refrigeration systems
4. Laboratory, clean room, hoods and pressurization

PLUMBING

5. Plumbing, supply and distribution
6. Irrigation
7. Domestic and process water pumping and mixing systems

ELECTRICAL

8. Electrical feeders, distribution, grounding
9. Emergency power generators and automatic transfer switching
10. Scheduled or occupancy sensor lighting controls
11. Daylight dimming controls
12. Uninterruptible power supply systems

FIRE/LIFE SAFETY

13. Life safety systems; fire alarm, egress pressurization, fire protection

SPECIALTY SYSTEMS

14. Equipment sound control systems and testing
15. Data and communication
16. Paging systems
17. Security system
18. Vertical transport
19. Medical gas
20. Building envelope
21. Process instrumentation and controls

Additional proposed services should be included in submitted proposal and presentation. However, some optional service should include the following:

1. Construction Engineering and Inspection Services (CEI) for the review and acceptance of site civil work or other work as required.
2. Services may include providing full-time or as needed experienced inspectors, construction engineers and project managers for the identified projects.
3. The full-time project personnel advise the Owner and Design Team through all building phases. The full-time site personnel basic responsibilities may include overall construction administration; coordination of the efforts of design professionals or sub-consultants; liaison with affected utilities; monitoring construction schedules and contractor payments; providing testing and inspection services; reviewing claims and changes; and providing required administration of the construction contracts. If executed, the full scope of services shall be negotiated at the time of execution of such services.
4. The proposal shall identify the firm or individuals that may be utilized to support this optional service, if exercised by the Owner, based on needs and conditions of the project(s).

The fee for this work shall be negotiated with the Consultant prior to execution of any such work.

3.3 Special Terms and Conditions:

3.3.1 *Bid and Performance Bonds:* N/A

3.3.2 *Insurance Requirements:* \$1,000,000 General Liability per Occurrence
\$2,000,000 Aggregate
\$1,000,000 Automobile Liability
\$1,000,000 Professional Liability
Workers Compensation Certificate upon award
West Virginia Statutory requirements including
West Virginia Code §23-4-2 (Mandolidis)

3.4 General Terms and Conditions:

By signing and submitting the EOI, the successful firm agrees to be bound by all the terms contained in Section Three (3) of this EOI.

3.4.1 *Conflict of Interest:*

Firm affirms that it, its officers or members or employees presently have no interest and shall not acquire any interest, direct or indirect which would conflict or compromise in any manner or degree with the performance or its services hereunder. The firm further covenants that in the performance of the contract, the firm shall periodically inquire of its officers, members and employees concerning such interests. Any such interests discovered shall be promptly presented in detail to the Agency.

3.4.2 *Prohibition Against Gratuities:*

Firm warrants that it has not employed any company or person other than a bona fide employee working solely for the firm or a company regularly employed as its marketing agent to solicit or secure the contract and that it has not paid or agreed to pay any company or person any fee, commission, percentage, brokerage fee, gifts or any other consideration contingent upon or resulting from the award of the contract. For breach or violation of this warranty, the State shall have the right to annul this contract without liability at its discretion, and/or to pursue any other remedies available under this contract or by law.

3.4.3 *Certifications Related to Lobbying:*

Firm certifies that no federal appropriated funds have been paid or will be paid, by or on behalf of the company or an employee thereof, to any person for purposes of influencing or attempting to influence an officer or employee of any Federal entity, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the

making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement.

If any funds other than federally appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee or any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the firm shall complete and submit a disclosure form to report the lobbying.

Firm agrees that this language of certification shall be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub recipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this contract was made and entered into.

3.4.4 Vendor Relationship:

The relationship of the firm to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by the parties to this contract. The firm as an independent contractor is solely liable for the acts and omissions of its employees and agents.

Firm shall be responsible for selecting, supervising and compensating all individuals employed pursuant to the terms of this EOI and resulting contract. Neither the firm nor any employees or contractors of the firm shall be deemed to be employees of the State for any purposes whatsoever.

The Firm shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension or other deferred compensation plans, including but not limited to Workers' Compensation and Social Security obligations, and licensing fees, etc. and the filing of all necessary documents, forms and returns pertinent to all of the foregoing.

The Firm shall hold harmless the State, and shall provide the State and Agency with a defense against all claims including but not limited to the foregoing payments, withholdings, contributions, taxes, social security taxes and employer income tax returns.

The firm shall not assign, convey, transfer or delegate any of its responsibilities and obligations under this contract to any person, corporation, partnership, association or entity without expressed written consent of the Agency.

3.4.5 Indemnification:

The firm agrees to indemnify, defend and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person or firm performing or supplying services, materials or supplies in connection with the performance of the contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the firm, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use or disposition of any data used under the contract in a manner not authorized by the contract, or by Federal or State statutes or regulations; (3) Any failure of the firm, its officers, employees or subcontractors to observe State and Federal laws, including but not limited to labor and wage laws.

3.4.6 Contract Provisions:

After the most qualified firm is identified, and fee negotiations are concluded, a formal contract document will be executed between the State and the firm. The order of precedence is the contract, the EOI and the firm's response to the EOI.

3.4.7 Governing Law:

This contract shall be governed by the laws of the State of West Virginia. The firm further agrees to comply with the Civil Rights Act of 1964 and all other applicable laws (Federal, State or Local Government) regulations.

3.4.8 Compliance with Laws and Regulations:

The firm shall procure all necessary permits and licenses to comply with all applicable laws, Federal, State or municipal, along with all regulations, and ordinances of any regulating body.

The firm shall pay any applicable sales, use, or personal property taxes arising out of this contract and the transactions contemplated thereby. Any other taxes levied upon this contract, the transaction, or the equipment, or services delivered pursuant here to shall be borne by the contractor. It is clearly understood that the State of West Virginia is exempt from any taxes regarding performance of the scope of work of this contract.

3.4.9 Subcontracts/Joint Ventures:

The State will consider the firm to be the sole point of contact with regard to all contractual matters. The firm may, with the prior written consent of the State, enter into written subcontracts for performance of work under this contract; however, the firm is totally responsible for payment of all subcontractors.

3.4.10 Term of Contract:

This contract will be effective (date set upon award) and shall extend until the scope of work is complete or for one (1) consecutive twelve (12) month period. The contract may be renewed upon mutual consent for two (2) consecutive years one (1) year periods or until such reasonable time as may be necessary to obtain a new contract or to complete work.

3.4.11 Non-Appropriation of Funds:

If the Agency is not allotted funds in any succeeding fiscal year for the continued use of the service covered by this contract by the West Virginia Legislature, the Agency may terminate the contract at the end of the affected current fiscal period without further charge or penalty. The Agency shall give the firm written notice of such non-allocation of funds as soon as possible after the Agency receives notice. No penalty shall accrue to the Agency in the event this provision is exercised.

3.4.12 Contract Termination:

The State may terminate any contract resulting from this EOI immediately at any time the firm fails to carry out its responsibilities or to make substantial progress under the terms of this EOI and resulting contract. The State shall provide the firm with advance notice of performance conditions, which are endangering the contract's continuation. If after such notice the firm fails to remedy the conditions contained in the notice, within the time contained in the notice, the State shall issue the firm an order to cease and desist all work immediately.

The State shall be obligated only for services rendered and accepted prior to the date of the notice of termination. The contract may also be terminated upon mutual agreement of the parties with thirty (30) days prior notice.

3.4.13 Changes:

If changes to the original contract become necessary, a formal contract change order will be required. Prior to any work being performed, the change must be negotiated and approved by the State, the Agency and the firm. An approved contract change order is defined as one approved by the Purchasing Division and approved as to form by the West Virginia Attorney General's Office prior to the effective date of such amendment. **NO CHANGE SHALL BE IMPLEMENTED BY THE FIRM UNTIL THE FIRM RECEIVES AN APPROVED WRITTEN CHANGE ORDER.**

3.4.14 Invoices, Progress Payments, & Retainage:

The Firm shall submit invoices, in arrears, to the Agency at the address on the face of the purchase order labeled "Invoice To" pursuant to the terms of the contract. Progress payments may be made at the option of the Agency based on percentage of work completed if so defined in the final contract. Any provision for progress

payments must also include language for a minimum 10% retainage until the final deliverable is accepted.

If progress payments are permitted, firm is required to identify points in the work plan at which compensation would be appropriate. Progress reports must be submitted to Agency with the invoice detailing progress completed or any deliverables identified. Payment will be made only upon approval of acceptable progress or deliverables as documented in the firm's report. Invoices may not be submitted more than once monthly and State law forbids payment of invoices prior to receipt of services.

3.4.15 *Liquidated Damages:* NA

3.4.16 *Record Retention (Access & Confidentiality):*

Firm shall comply with all applicable Federal and State of West Virginia rules and regulations, and requirements governing the maintenance of documentation to verify any cost of services or commodities rendered under this contract by the firm. The firm shall maintain such records a minimum of five (5) years and make available all records to Agency personnel at firm's location during normal business hours upon written request by Agency within 10 days after receipt of the request.

Firm shall have access to private and confidential data maintained by Agency to the extent required for firm to carry out the duties and responsibilities defined in this contract. Firm agrees to maintain confidentiality and security of the data made available and shall indemnify and hold harmless the State and Agency against any and all claims brought by any party attributed to actions of breach of confidentiality by the firm, subcontractors, or individuals permitted access by the firm.

PART 4 EVALUATION & AWARD

4.1 Evaluation and Award Process:

- a) Expressions of Interest will be evaluated and awarded in accordance with **§5G-1-3 "Contracts for architectural and engineering services; selection process where total project costs are estimated to cost two hundred fifty thousand dollars or more."**

"In the procurement of architectural and engineering services for projects estimated to cost two hundred and fifty thousand dollars or more the director of purchasing shall encourage such firms engaged in the lawful practice of the profession to submit an expression of interest, which shall include a statement of qualifications, and performance data and may include anticipated concepts and proposed methods of approach to the project. All

such jobs shall be announced by public notice published as a Class II legal advertisement in compliance with the provisions of article three [§59-3-1et seq.] A committee comprised of three to five representatives of the agency initiating the request shall evaluate the statements of qualifications and performance data and other material submitted by the interested firms and select three firms which in their opinion are the best qualified to perform the desired service. Interviews with each firm selected shall be conducted and the committee shall conduct discussions regarding anticipated concepts and the proposed methods of approach to the assignment. The committee shall then rank in order of preference no less than three professional firms deemed to be the most highly qualified to provide the services required, and shall commence scope of service and price negotiations with the highest qualified professional firm for architectural or engineering services or both. Should the agency be unable to negotiate a satisfactory contract with the professional firm considered to be the most qualified, at a fee determined to be fair and reasonable, price negotiations with the firm of second choice shall commence. Failing accord with the second most qualified professional firm, the committee shall undertake price negotiations with the third most qualified professional firm. Should the agency be unable to negotiate a satisfactory contract with any of the selected professional firms, it shall select additional professional firms in order of their competence and qualifications and it shall continue negotiations in accordance with this section until an agreement is reached."

- b) The committee shall rank, in order of preference, each of the selected Firms. Each of the Firms shall begin with a score of one hundred.

The criteria and assigned point values are as follows:

1. Proposed approach to the project.....20

Firm should provide a vision of the approach to the proposed project, to include, but not limited to, the methods, management, and philosophy.

2. Past experience in performing similar projects.....35

Firm should provide the company's statement of qualifications for the last ten years and the general area of commissioning expertise. Firm should provide material to illustrate their efficiency in commissioning management, efficiency and any other data to support proper construction of project in accordance with designer's plans.

3. Oral Interview and expertise of team.....45

Firm should provide no more than two (2) page resume of each employee who would be providing their services. Describe the firm's resources available for assuring efficiency and completeness of commissioning process. Interview should provide sufficient information to relate proposed course of action and relate expertise of proposed team.

Interviews will be conducted with the Firms selected as most qualified by the C&FMO Selection Committee.

The format for the interviews will be a 15-30 minute presentation consisting, at a minimum, of the following:

- Corporate / Personnel Experience as it relates to the Project
- Uniquely Qualifying Examples or Qualifying Information
- Key Personnel Available for the Proposed Work
- Proposed Project Management Plan
- Proposed Subcontractors
- Product Quality Control
- Project Cost Control



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Department of Administration
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Post Office Box 50130
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REQ NUMBER
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PAGE
1

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

RFQ COPY
TYPE NAME/ADDRESS HERE

DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS		
12/03/2010						
BID OPENING DATE: 01/12/2011		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	QAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
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2. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID.						
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REQUISITION NO.: DEFK11023						
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SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
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TITLE		FIRM		ADDRESS CHANGES TO BE NOTED ABOVE		

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 2. The State may accept or reject in part, or in whole, any bid.
 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
 5. Payment may only be made after the delivery and acceptance of goods or services.
 6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
 7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
 10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
 12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
 13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vro/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
 14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>
 15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
 16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.
- I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign this certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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25311-1099 304-341-6368

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SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE		TELEPHONE		DATE		
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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 2						
1. QUESTIONS AND ANSWERS ARE ATTACHED.						
2. TO MOVE THE BID OPENING DATE FROM 01/12/2011 TO 01/19/2011.						
3. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID.						
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Addendum #1 Responses & Clarifications

1. Please clarify if the intent of the RFP is to select one vendor for all three projects to be commissioned, or if the projects may be awarded to multiple vendors.
1. One(1) vendor will be selected and subsequently awarded one(1) Contract for the Commissioning of all three(3) projects.
2. Please clarify per paragraph 1.1 if only architectural/engineering firms can submit a proposal or if a CM firm which provides commissioning services can submit a proposal as well.
2. Proposals may be submitted by CM firms.
3. Are any minimum requirements for MBE/WBE participation to be included as part of a proposed team?
3. While there are no minimum requirements in that regard, we encourage the participation of all qualified MBE/WBE businesses in the proposal submission process.
4. Will the projects pursue a LEED certification? If so, what version of LEED (i.e. 2.2 or 3.0)
4. LEED Silver 2.2
5. Paragraph 1.7 states that the proposal responses "shall be prepared simply and economically." As such, is there a fixed limitation on the number of pages that can be submitted beyond the two page limit per resume?
5. All potential vendors are encouraged to keep resume's under the two page limit.
6. Page 6 of the EOI notes "some optional service should include the following:" Please clarify if we are to include any other services other than that of an on-site CM person.
6. At present the WVARNG has no intention to engage CEI services. However, if those services are deemed to be needed, and funding becomes available, we may engage CEI services at a later date.
7. Please clarify that a price proposal is not required at this time.
7. Cost negotiations are performed at a later date per WV Code 5-G.
8. Have commissioning specifications been included in the project bid documents?
8. Yes.
9. What are the dates for substantial completion for each of the buildings?
*9. Ripley AFRC: 15 September 2011
Elkins AFRC: 10 September 2011
Fairmont AFRC: 01 September 2011*
10. Please provide names of the design team and contractors for each building.
*10. Ripley AFRC: A/E = ZMM, Inc. // GC = Neighborgall Construction Co.
Elkins AFRC: A/E = E.T. Boggess Architects // GC = The March-Westin Co.
Fairmont AFRC: A/E = Omni Associates // GC = TEDCO, Inc.*
11. At the end of the commissioning process (Acceptance Phase), is the Owner expecting ALL systems to have successfully passed functional performance testing procedures for all systems referenced?
11. Yes.

12. Are construction schedules available for all projects? If so, can we get a copy of these?
12. Yes. They will be made available to the selected firm.
13. Who is the Control Manufacturer?
13. Different for all 3 projects; typically Johnson Controls.
14. Bid opening date on page 1 of the EOI is noted as January 31, 2011, but page 3 notes January 12, 2011.
14. Revised bid opening date: 19 January 2011 @ 1:30pm.
15. Is there a chance that the opening date will be extended.
15. Yes, see Q&A #14 above.
16. Page 2 makes references to sealed and signed bids. Page 6 item 1.14 notes "No Price or Fee" is requested. Some may assume by the reference to sealed bid a quote is required. Please clarify.
16. No price/cost proposal is required, but your EOI response shall be signed & sealed, and is due on the date & time stated in Q&A #14.
17. The RFQ notes three reserve centers in Elkins, Fairmont, and Spencer-Ripley. Do you require one response for each, or will one response cover all three areas?
17. One response addressing all three locations.
18. I am requesting clarification on the optional CEI services. Is it expected that each project is to have one dedicated full time person to that specific project or are you looking for one person to provide the CEI services for all the projects?
18. Please refer to Q&A #6.
19. Could we get an estimated completion date for the construction phases of these projects?
19. Please refer to Q&A #9.
20. Finally, are we expected to provide closeout services with this CEI service?
20. Closeout services shall be in accordance with the commissioning specs.
21. Reference is made to paragraph 3.3 of the Expression of Interest, regarding Additional Proposed Services. Are these additional services to be provided only as associated with the commissioning services for the building systems described in paragraph 3.3, or are these services to be provided as routine or full-time resident construction inspection/observation for all other elements of the construction of these facilities?
21. If implemented, routine construction administration services shall be provided, but ONLY if a need for these services is identified, justified, and the necessary funding is secured. (Please refer to Q&A #6.)
22. Is there a master plan for each of the centers?
22. Yes.
23. Are there drawings showing existing infrastructure and utilities?
23. Yes.
24. Are there drawings for the work that has been done to date at each center?
24. No. As-built drawings are submitted upon completion of the Project by the Contractor.

25. Is there a construction budget for each of the centers?
25. *Yes, but total budget is not applicable.*
26. Is there a detail scope of services required for these projects?
26. *Yes.*
27. Are there photographs available to view the sites on-line or that can be e-mailed?
27. *No.*
28. If there are no photographs, can we schedule a site visit to each site to prepare our proposal?
28. *Yes. Will have to be coordinated through the WVARNG, CFMO, by 17 January 2011@ 3:00pm.*
29. Do test borings have to be done or are there reports for borings that have already been done?
29. *No. Test borings are not applicable for this EOI submission.*
30. Specifically, what is your agency looking for us to submit? Are you looking for a qualifications package or a detailed technical and cost proposal?
30. *No cost proposal will be submitted (see Q&A #7); Submissions shall be in accordance with WV Code 5-G.*
31. Is each site to be submitted separately or as one package?
31. *One package.*
32. Are there requirements for disadvantaged business enterprise, SBA a(8) business, or service disabled veteran business participation?
32. *No, but all such types of businesses are encouraged to participate in the proposal submission process.*

NOTE: No Additional Questions Will Be Accepted Or Acknowledged

Statement of Qualifications
Division of Engineering & Facilities
RFQ #DEFK11023

SECTION III

Overall Company Information
& Practice Area Profiles

Company Profile

Stantec Consulting Services Inc., founded in 1954, provides professional design and consulting services in planning, engineering, architecture, surveying, economics, and project management. Continually striving to balance economic, environmental, and social responsibilities, we are recognized as a world-class leader and innovator in the delivery of sustainable solutions.

Firmly committed to continuous innovation, Stantec adopts a fully integrated approach to projects. Our multidisciplinary practice areas serve public and private sector clients in a diverse range of markets. Our clients represent our partners and together our infinite solutions provide successful project delivery.

In January 2008, R.D. Zande & Associates and FMSM were acquired by Stantec. This important acquisition provided the opportunity to establish the Great Lakes region office. Staffed with the same professionals, this acquisition has provided the opportunity to continue established relationships while greatly enhancing and expanding the services that can be provided. The list on the right identifies the practice areas provided by the firm.

Over the years, Stantec has successfully completed hundreds of projects – from major expressways and rural highways to bridge planning and airport design. Our clientele include metropolitan planning organizations, public authorities, municipal engineering departments, federal government agencies, departments of transportation, major commercial and residential developers, and universities. The services our clients receive span the full range of project development from concept studies to implementation. Our proactive approach to managing the design development and environmental processes is a culture nurtured by all of our staff. The latest technology is used for alternative assessments, final design production, and public presentations.

Continually striving to balance economic, environmental, and social responsibilities, Stantec is recognized both as a leader and innovator in solutions that promote sustainability. We are committed to the delivery of quality solutions that are timeless, intelligent, cost-effective, and sustainable. Through experience and dedication to designing and implementing cost-effective, appropriate solutions, we are committed to adding value to your projects.

Practice Areas:

- Architecture & Interior Design
 - Buildings Engineering
 - Facilities Planning & Operations
 - Surveys/Geomatics
 - Environmental Infrastructure
 - Environmental Management
 - Environmental Remediation
 - Geotechnical Engineering
 - Bio/Pharmaceuticals
 - Manufacturing
 - Mining
 - Power
 - Resources
 - Program & Project Management
 - Strategic Management
 - Infrastructure Management & Pavement Engineering
 - Transportation
 - Transportation Planning & Traffic Engineering
 - Commercial Program Development
 - Construction Administration
 - Planning & Landscape Architecture
 - Urban Land Engineering
-

Commissioning Services

Stantec's commissioning services helps clients to meet project requirements for facility approval and ensure facility systems perform at optimal levels according to the design intent. Stantec realizes that modern building design and their infrastructure can be complex. Leveraging years of hands-on field experience, Stantec knows that commissioning can begin at any phase, but the most successful projects start at the design phase and continue through the warranty phase of a new building. Owners expect that their building will be complete at the time of occupancy and will continue to function as designed throughout the design lifecycle.

Serving in a commissioning authority or agent capacity, Stantec's commissioning team works with building stakeholders and project construction teams to surpass these expectations by delivering successfully commissioned facilities that are functional, meet operational requirements, and are maintained to allow for maximum efficiency. Stantec has significant experience delivering commissioning services ranging from simple, end-of-project audits against design and owner requirements to comprehensive assignments that begin at project conception and encompass all building systems and components.

Commissioning Service team members are carefully assembled to include individuals who have a high degree of knowledge and are proficient in executing commissioning projects. Our commissioning service team is comprised of professionals who have years of hands-on experience in the design, start-up, and functional testing of facilities and equipment. We provide planning of the commissioning process, develop and execute detailed commissioning protocols to document installation as well as operation of equipment and systems within these facilities. In addition, Stantec provides and executes detailed functional test plans to document the operation and performance of the equipment and systems so that the facility meets performance and operational requirements.

Construction Services

Stantec's Construction Administration services group offers support during the construction phase of project development by offering administrative, quality assurance, and materials testing services.

The Construction Administration services group of Stantec provides demonstrated capabilities in construction administration, project management, constructability reviews, geotechnical engineering, inspection, and testing.

Our portfolio includes an array of services including complete construction administration programs; contractor quality control; augmentation of quality assurance teams; pavement research; forensic investigations; production facility audits; non-destructive examination; pay estimate reviews; professional witness; and permit expediting.

Our team complements our design services by offering practical insight into the materials and methods used in the design, giving greater assurance that the project will be built on time, within budget, and meets the quality demands of even the most demanding clients.

Surveys/Geomatics

Stantec provides the full range of surveying and mapping services to define land boundaries and address spatial data for features on, above, and under the earth's surface.

Stantec provides the full range of surveying and geomatics services that comprise the measurement, representation, analysis, management, retrieval, and display of spatial information and data describing land boundaries, the earth's physical features, and the built environment. The techniques and tools involved include traditional surveying, geodesy, digital mapping, global positioning systems, geographic information systems, terrestrial laser scanning, aerial photogrammetry, and more.

Equipped with the latest in technology, our surveys/geomatics team provides private, public, institutional, and various other sector clients with innovative solutions.

Stantec's surveys/geomatics services are provided for residential and commercial development, utilities, power transmission and facilities, roadways, railways, airports, bridges, industrial development, environmental, recreational, institutional, educational, telecommunications, resort, mining, and other types of projects.

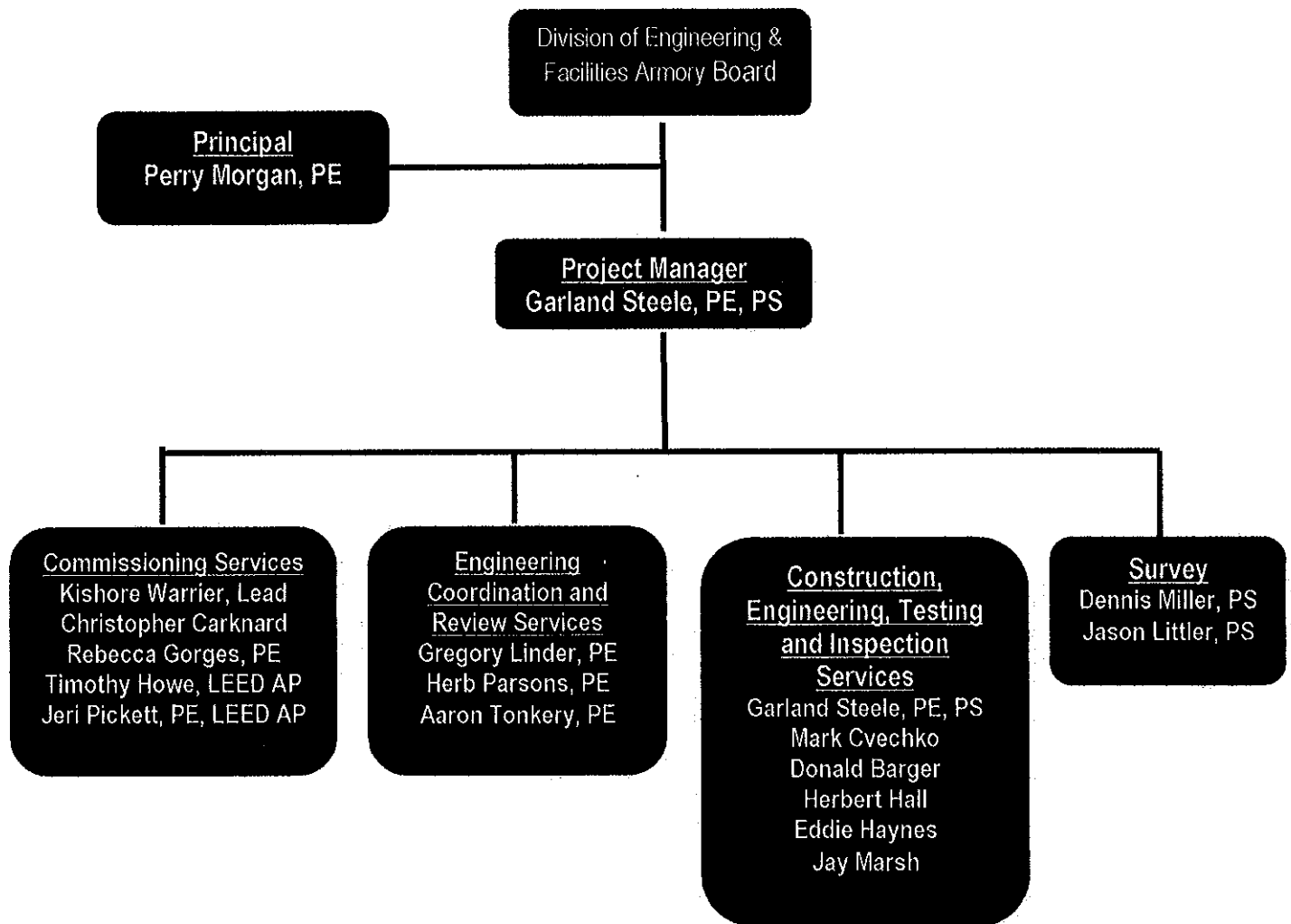


Statement of Qualifications
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SECTION IV

Project Personnel

- Project Organizational Structure
 - Resumes



RESUMES OF KEY PERSONNEL AVAILABLE FOR THE PROJECT

One of the most important factors in the success of any project, or provision of any professional service, is the experience and qualifications of the key personnel who would be involved in the project. Resumes of the key people who are currently available for assignment to the proposed project are included herein.

Perry Morgan, PE

Principal

Mr. Morgan has more than 24 years of experience with the planning, design, and operation of transportation systems. He has served in both administrative and engineering capacities on a broad range of transportation projects. Mr. Morgan has a strong background in performing a wide variety of transportation studies. He has particular expertise with corridor and intersection improvement studies.

As Traffic Engineer for the City of Huntington, West Virginia, Mr. Morgan was responsible for the City's traffic control system of signals, signs, and markings. Under his direction the City undertook several efforts to upgrade the City's traffic control system. This included the Huntington Traffic Signalization Project, a \$6 million, state-of-the-art project that consisted of planning, design, construction, and operation of 115 signalized intersections. Mr. Morgan also served as Program Director for the Safe Traffic Operations Program (STOP), a highway safety program geared toward reducing traffic crashes which, combined with improvements, resulted in Huntington having the lowest traffic crash severity rating in West Virginia.

EDUCATION

M.S., Civil Engineering/Transportation, West Virginia State University, Morgantown, West Virginia, 1986

B.S., Civil Engineering/Transportation, West Virginia University, Morgantown, West Virginia, 1983

REGISTRATIONS

Professional Engineer #10782, State of West Virginia

Professional Engineer #59569, State of Ohio

PROJECT EXPERIENCE

West Virginia Walkability Study, Morgantown, West Virginia

Directed this project development a Master Plan to identify and prioritize options for increasing walking/biking at the Health Sciences complex and the Fieldcrest Residence Hall and their interface with the campus and surrounding area.

Alum Creek West Development, Columbus, OH

This traffic impact study covered the Rickenbacker Alum Creek West development. The traffic impact study included an analysis of the proposed development sites and adjacent roadways, including traffic projections for the developments, analysis of four intersections, and recommendations for improvements to the intersections and roadways. The study was undertaken in two stages, with the first stage showing short term developments and associated traffic requirements, and the second showing full development of the site and associated traffic requirements.

Brown McCausland Traffic Impact Study, Point Pleasant, WV

Mr. Morgan was responsible for a traffic impact study for a proposed 87-acre development adjacent to the US 35/SR 2 interchange, including traffic analysis of the proposed development, review of traffic projections, capacity analyzes, and access studies.

Banc One Corporate Center, Columbus, OH

This project involved design, plans, and specifications for the construction of two traffic signals for the Banc One Corporate Center. One signal was designed for the intersection of Polaris at the main entrance driveway, and the other was at the intersection of Sancus Boulevard and Banc One Drive. The design of these signals accommodated future expansion of the City of Columbus Polaris Parkway traffic signal system. The traffic signal at Polaris and Polaris Parkway is demand actuated. The signal at the Sancus driveway is demand actuated during lunch and afternoon peaks, and yellow flash at other times.

Downtown Improvements, Huntington, WV

Project Manager for evaluating and designing improvements to three main downtown corridors; 3rd and 4th Avenues, and 9th Street. This project involved analysis of changing 3rd Avenue from one-way to two way operation and streetscape and roadway improvement design.

Mall Road Design Study, Cabell County, WV

Mr. Morgan co-managed this project that developed improvement solutions for access to the Huntington Mall from I-64 and US Route 60. The original scope of this project was to evaluate widening Mall Road. The study resulted in recommending construction of a parallel roadway to the west, as well as completion of an Interchange Justification Study for new access to the Interstate.

Williams Road Corridor Study, Columbus, OH

This study that included traffic counts, capacity analyzes, traffic data analysis, traffic control concept plans, annual growth rate projections, a review of alternative typical sections, profile and drainage for widening or reconstruction, and preliminary design of the proposed improvements. As part of this study AM and PM intersection turning movement counts were performed along with 24-hour machine counts.

Liberty Square II Shopping Center, Teays Valley, WV

This study was performed to identify the roadway requirements needed to handle the traffic generated by a thirty-acre parcel of land located east of the existing Liberty Square/Putnam Village shopping center which is under development.

Sun Mountain Resort, Mt. Hope, WV

The planned development of 141-acre parcel of land located on the west side of US 19 required a transportation study of a half-mile stretch of US 19. The study was performed to determine the impact of this development on US 19. The main purpose of the study was to identify the roadway requirements needed to handle the traffic generated by the site.

Africa Road Corridor Study, Westerville, OH

Interstate 270 & Alum Creek Drive Interchange Justification Study, Columbus, OH (Project Manager)

Interstate 81 & Dry Run Road Interchange Justification Study, Martinsburg, WV

Interstate 64 & Huntington Mall Interchange Justification Study, Huntington, WV

Marietta Intermodal Hub Feasibility Study, Marietta, OH

An intermodal hub with facilities was studied to determine if it could serve the needs of the commercial, tourist, recreational and public transit users. (An intermodal hub is a place where various modes of transportation – i.e. buses, automobiles, bicycles, river traffic, etc. – converge, and people are able to easily and safely transfer from one mode to another.) Solutions to any deficiencies identified were presented as a part of this study.

HIG-62-14.69 Safety Study, Hillsboro, Ohio

Project Manager for evaluation of the US 62 corridor which entailed evaluation of the existing signal system and traffic flow conditions, and development of near and long term improvement measures that included potential new roadway corridors and one-way pairs.

LAW-7-3.669, Lawrence County, Ohio

Technical analyses for this project included development of certified traffic volumes, capacity analysis, evaluation of traffic crashes, evaluation of interchanges, and determination of roadway configurations. Work included running the KYOVA QRSII traffic model to develop the certified volumes.

HOC-33-7.93, Ohio

Project manager for this access management study which was performed in response to local concerns regarding current and future development along US 33.

Huntington Signal Optimization, Huntington, West Virginia

Served as Project Manager for this study to improve the flow of traffic in the City of Huntington, accomplished through evaluation of the City's signal equipment, communications and timings.

Kishore Warriar

Director of Commissioning and Compliance



Mr. Warriar has over a decade of experience in the pharmaceutical industry related to commissioning, qualification documentation/compliance activities. He has led and managed numerous projects in oral solid dosage, sterile facility, and potent compound areas in the pharmaceutical industry.

Mr. Warriar is experienced in developing commissioning and qualification documentation, from master plans to individual commissioning and qualification protocols, and has led teams to execute the various commissioning and qualification protocols at multiple client sites.

He has extensive knowledge of the coordination required for the commissioning/validation process of a project, and has worked extensively with various client's engineering, technical services, and quality departments.

EDUCATION

Commissioning/Qualification Baseline Guide, ISPE Training Seminar, Princeton, New Jersey, 2000

GMP Fundamentals for Pharmaceuticals, ISPE Training Seminar, Chicago, Illinois, 2005

Beyond GMP Fundamentals for Pharmaceuticals, ISPE Training Seminar, Chicago, Illinois, 2005

Bachelor of Arts in Liberal Arts/Sciences, Minor in Economics, University of Illinois, Urbana-Champaign, Illinois, 1994

PROFESSIONAL ASSOCIATIONS

Certification for Commissioning and Qualification Continuing Education, International Society for Pharmaceutical Engineering

Member, International Society for Pharmaceutical Engineering

PROJECT EXPERIENCE

Covidien - Oral Solid Dosage Facility, Hobart, New York (Commissioning and Qualification Project Manager)
Assisted client QA and Validation team with review of Master Validation Plan and with the planning for the Commissioning and Equipment Qualification activities. Responsible for managing Stantec commissioning and qualification team in the development of facility and utility related commissioning and qualification protocols for a small scale oral solid dosage facility expansion.

Oversaw Stantec team which developed and assisted with the execution of Commissioning and/or IQ documents HVAC unit for GMP spaces, HVAC related utilities, BMS system, nitrogen, compressed air, and electrical distribution systems.

Wyeth Research - GMP Warehouse and Secondary Packaging Facility, Confidential Location (Project Manager)
Served as Stantec project manager for internal team in development of project Commissioning protocols of facility equipment and systems. Responsible for development of requalification protocols for Walk-In Cold Rooms and GMP Warehouse.

Served as project manager for on-site Stantec personnel to execute commissioning and requalification protocols and for final report development. Assisted with the coordination of final approvals of qualification effort with Wyeth QA and User Groups.

Confidential Client - New Sterile Greenfield Facility, Confidential Location (Project Manager)
Served as project manager for commissioning and qualification process. Responsible for assisting owner with the development of Quality Systems, as well as review of Validation Plans, SOP's, and Calibration Program. Served as Stantec project manager for internal team to develop FAT, Commissioning, and IQ protocols for Facility, Critical Utility, and selected process systems. Worked with Stantec design team to review design drawings and specifications to streamline the commissioning and qualification phases for the project.

Confidential Client - Liquid Processing API, Office, and Lab Addition, Confidential Location (Co-Commissioning Leader / Project Manager)
Responsible for developing the Commissioning Plan for the project. Managed Stantec's commissioning team for the development of non-GMP and GMP related commissioning documents and associated acceptance criteria. Coordinated approvals of documents with client stakeholders, specifically GMP related documents which were leveraged by the validation team. Managed Stantec's on-site commissioning engineers.

Coordinated the execution of major process equipment, (filter dryer, reactors, solve delivery system, isolator), vendor FAT and SAT, as well as the execution of all commissioning protocols on-site.

Helped client to develop, track, and manage commissioning and validation schedule, punchlist item development, and resolution from the construction team.

Reviewed and approved final commissioning reports and assisted client stakeholders in approvals of commissioning reports and turnover of systems to client Engineering, Validation, Laboratory, and QA groups.

Genentech - Office/Laboratory Commissioning, San Francisco, California (Commissioning Team Leader)
Commissioning of two office/laboratory buildings. Scope included development and field execution of functional test protocols for office/lab for HVAC units, HVAC utilities, lab hoods, walk-in coolers, building automation systems, cooling tower water systems, lab gases (nitrogen, vacuum, air), lab water systems.

Confidential Client - Oral Solid Dosage Potent Compound Facility, California (Project Manager)
Managed commissioning and qualification of Sampling and Dispensing Isolator. Provided integrated commissioning and qualification services from witnessing and documenting reports for Factory and Site Acceptance Tests. Managed team which developed and executed commissioning, IQ and OQ protocols, and associated final reports.

Confidential Client - Sterile Manufacturing Facility Expansion (Commissioning/ Project Manager)
Management of commissioning team in the development of master project plans, commissioning protocols for project HVAC, qualified and non-qualified utility systems, facility systems, and building automation system. Responsible for managing project scope, budget, and associated project schedules.

Wyeth Pharmaceuticals - QA/QC Laboratory Expansion, Guayama, Puerto Rico (Commissioning / Validation Project Manager) *Managed commissioning and validation team in development of master project plans, commissioning protocols for project HVAC, qualified and non-qualified utility systems, facility systems and project autoclaves, glove box isolator, glass washers, and facility qualification protocol. Managed team during the execution of these commissioning and qualification protocols and in the development of required final technical reports. Responsible for managing project scope and budget, and worked with client and construction team to meet required project commissioning and qualification completion dates.*

Confidential Client - Potent Compounds Manufacturing Addition, Fort Lauderdale, Florida (Commissioning/Validation Project Manager) *Managed commissioning and validation team in development and execution of project commissioning and qualification protocols for HVAC, small portable blenders, portable tanks, and in writing and reviewing final qualification technical reports.*

IVAX Pharmaceuticals Caribe Inc. - Building C-1 Warehouse Expansion Project, Cidra, Puerto Rico (Validation/Commissioning Manager)
Managed commissioning team in development of commissioning documentation deliverables for project. Stantec field project manager for commissioning process. Generated project Commissioning Plan with project field staff. Managed qualification team in development of HVAC IOQ and Room FQ protocol deliverables for project. Stantec field project manager for qualification process. Generated project Validation Plan with project field staff and IVAX team. Served as a team leader for execution of project commissioning documents and qualification protocols. Coordinated completion of protocol execution with internal IVAX engineering staff. Assisted field construction management personnel in generation of project punchlist items and worked with contractors to close the project deficiencies.

Wyeth Pharmaceuticals - Building 470, Effexor Manufacturing Expansion, Guayama, Puerto Rico (Commissioning / Compliance Service Manager)

Wyeth-Ayerst Laboratories, Montreal, Canada (Commissioning / Compliance Service Manager)

Wyeth Pharmaceuticals - Building 37, Rouses Point, New York (Commissioning/Compliance Service Manager)

Wyeth Pharmaceuticals - Building 21, Rouses Point, New York (Commissioning/Compliance Service Manager)

Wyeth Pharmaceuticals, Providence, Rhode Island (Commissioning / Compliance Service Manager)

Wyeth Pharmaceuticals - Building 480, Rapamune Manufacturing Facility, Guayama, Puerto Rico (Commissioning / Compliance Service Manager)

Wyeth Pharmaceuticals - Building (OTC), Vitamin Manufacturing Facility Expansion, Guayama, Puerto Rico (Commissioning / Compliance Services Manager)

** denotes projects completed with other firms*

Timothy Howe, LEED AP

Mechanical Designer



Mr. Howe holds a masters degree in mechanical engineering and has provided design in HVAC, plumbing and fire protection for both high-rise and/or low-rise buildings. Working with higher education, industrial, commercial, and K-12 clients, he has designed office space, labs, industrial process, and support spaces for new construction and renovation projects.

Recently he has been focusing on energy modeling and performance engineering and is providing assistance within the US and Canada on projects requiring this specialty. Mr. Howe has been working as a NYSERDA technical assistant facilitating energy efficient designs for A/E firms through the New Construction Program. This program includes energy studies of buildings through whole building analysis and custom measures.

EDUCATION

BS Mechanical Engineering, University at Buffalo, Buffalo, New York, 2004

MS Mechanical Engineering, University at Buffalo, Buffalo, New York, 2006

PROJECT EXPERIENCE

250 Schermerhorn Street, Brooklyn, New York
Commissioning Agent responsible for commissioning component of a six-story, 88,000 sf office building. The project is LEED v2.2 Energy and Atmosphere category, the prerequisite for Fundamental Commissioning and Credit 3 Enhanced Commissioning of the Building Energy Systems. The facility design has an 88,000 square foot, six-story structure consisting of office space, meeting and conference rooms and other ancillary spaces. The existing structure consists of CMU and brick veneer. A metal panel facade with integral insulation will be added to upgrade the envelope. The mechanical systems include rooftop units, high efficient condensing boilers, and a full DDC system. The electrical system includes occupancy sensors and photosensors for staged daylighting control and the lighting systems. Responsibilities included reviewing the BOD and OPR, and preparing the Commissioning Specification and Functional and Prefunctional Checksheets. Also attended construction meetings, prepared commissioning action list, and visited the site to review and verify the PFT and FT.

Clarkson University Student Center, Potsdam, New York
Commissioning Agent responsible for commissioning component of a three-story, 45,000 sf new Student Center. The project is LEED-NC v2.2 Energy and Atmosphere category, the prerequisite for Fundamental Commissioning of the Building Energy Systems. The facility design has a 45,000 square foot, three-story structure consisting of office space, student and faculty dining and multi-purpose meeting and conference rooms. The building is steel frame with brick veneer and EFIS. The mechanical systems include three air handling units, an air-cooled chiller, high efficient condensing boilers, and a full DDC system. The electrical system includes occupancy sensors and photosensors for staged daylighting control of the lighting systems. Responsibilities include reviewing the BOD and OPR, and preparing the Commissioning Specification and Functional and Prefunctional Checksheets. Also attended construction meetings, prepared commissioning action list, and visited the site to review and verify the PFT and FT

Clarkson University TAC Building, Potsdam, New York
Commissioning Agent responsible for commissioning component of a two-story, 18,000 sf addition to connect the Science Center to the existing 12,000 sf Shuler ERC. The project is LEED-NC v2.2 Energy and Atmosphere category, the prerequisite for Fundamental Commissioning of the Building Energy Systems. The facility design has an 18,000 square foot, two story structure connecting the existing 12,000 space in the Shuler ERC. The building is steel frame with brick veneer and EFIS with the first floor consisting of dry research labs and offices and the second floor dedicated to study areas and classrooms. The mechanical systems include three air handling units, a chiller, domestic water solar heat exchanger, and a full DDC system. The electrical system includes occupancy sensors and photosensors for staged daylighting control of the lighting systems. Responsibilities included reviewing the BOD and OPR, and preparing the Commissioning Specification and Functional and Prefunctional Checksheets. Also attended construction meetings, prepared commissioning action list, and visited the site to review and verify the PFT and FT.

University of Buffalo Dormitory, Amherst, New York
Commissioning Agent for construction of a new four-story, 192,000 sf mixed-use dormitory building with three six story wings. This project is in support of the LEED for Schools Energy and Atmosphere Fundamental & Enhanced Commissioning credits. The building is brick with metal stud backing and glass structure. The building is primarily a sophomore style dormitory with living space for up to 600 occupants. Additional spaces will include: laundry units, multi-purpose space, office space, and conference rooms and data closets. Responsibilities include reviewing the BOD and OPR and supervising the preparation of the Commissioning Specification and Functional and Prefunctional Checksheets. Construction phase services include attending construction meetings, preparing commissioning action list, and visiting the site to review and verify the PFT and FT.

Connection Technologies, Rochester, New York
(Energy Modeler)
Provided NYSERDA Technical Assistance through whole building energy analysis of a 30,000ft² new construction office/manufacturing building. Developed baseline and proposed design energy models using eQuest 3.6 as per Appendix G of ASHRAE 90.1-2004.

Sitterly Associates, Halfmoon, New York
(Energy Modeler)
Provided NYSERDA Technical Assistance through whole building energy analysis of a 42,000ft² new construction office building. Developed baseline and proposed design energy models using Trane Trace 700 as per Appendix G of ASHRAE 90.1-2004.

Global Crossings, Rochester, New York
(Energy Modeler)
Provided NYSERDA Technical Assistance through whole building energy analysis of a 87,000ft² new construction office building. Developed baseline and proposed design energy models using eQuest 3.6 as per Appendix G of ASHRAE 90.1-2004.

Tyco Electronics, Rochester, New York (Energy Modeler)
Provided NYSERDA Technical Assistance through custom measure energy analysis of a 45,000ft² new construction office/manufacturing /warehouse building. Custom measures included envelope analysis developed in Trane Trace 700 and lighting power density analysis using NYSERDA custom tools.

Clarkson University Math & Science Building, Potsdam, New York (Commissioning)
Provided commissioning assistance through the NYSERDA new construction program.

Clinical Translational Sciences Building, Rochester, New York (Energy Modeler)
Provided NYSERDA Technical Assistance through whole building energy analysis of a 215,000ft² new construction office/laboratory building. Developed baseline and proposed design energy models using eQuest 3.6 as per Appendix G of ASHRAE 90.1-2004.

Maplewood, Canton, New York (Energy Modeler)
NYSERDA TA, 120,000 s.f. N.C. assisted living facility. Custom measures included envelope and HVAC system analysis using Trans Trace 700. LPD and heat recovery analysis performed using NYSERDA custom tools.

NYSERDA Technical Assistance, New York
(Energy Modeler)
Provides energy consultation and modeling for design teams that have applied for funding under NYSERDA. As a NYSERDA representative, Stantec reviews consultant designs for effectiveness and offers expertise and suggestions to improve energy efficiency. Ultimately, Stantec evaluates the final design performance against NYSERDA energy standards to determine the financial incentives.

Cornell Grape Research Laboratory, Portland, New York
(Mechanical Designer and Energy Modeler)
Mechanical Design for this 10,000ft² office/lab/assembly building. Sustainable design concepts included use of an under floor plenum, water conservation, enhanced filtration of ventilation air, high efficiency HVAC equipment and variable speed motors. Modeled design heating and cooling loads using Trane Trace 700. Developed baseline and proposed design whole building energy models using eQuest 3.6 as per Appendix G of ASHRAE 90.1-2004.

** denotes projects completed with other firms*

Rebecca Gorges, PE

Process Engineer



Ms. Gorges has been involved in many aspects of chemical and process engineering design. She provides technical support for the development of P&ID's and PFD's, material balance, thermodynamic and reaction kinetics calculations, equipment and instrument specifications, design reports including user requirements specifications, scope of work, process description, and preparation of commissioning and qualification documentation.

EDUCATION

Bachelor of Science, Chemical Engineering and Economics,
Rensselaer Polytechnic Institute, Troy, New York, 2004

REGISTRATIONS

Professional Engineer #087187, State of New York

PROFESSIONAL ASSOCIATIONS

Member, American Institute of Chemical Engineers

PROJECT EXPERIENCE

Becton Dickinson - Greenfield Sterile Pharmaceutical Facility,
Wilson, North Carolina

Stantec provided engineering design and commissioning services including civil, structural, architectural, mechanical, process, electrical, and instrumentation and controls for a new 115,000 square foot two-story pre-filled syringe sterile manufacturing facility. One of the most important aspects was the critical utilities system, which includes USP Purified Water, USP Water for Injection (WFI), Pure Steam, Clean Steam, CIP, Nitrogen and Sterile Compressed Air.

Stantec worked closely with the owner's engineering and operations staff to size the systems for average and peak usage, redundancy requirements, and equipment and operating preferences. Close coordination with the design team was required to provide adequate supporting utilities, electrical power, and GMP facilities.

Prepared User Requirements Specifications and pre-purchase specifications for critical utilities (clean steam, WFI, clean compressed air, nitrogen) and process systems to provide the guidelines from which the commissioning documents were prepared. In addition, assisted with preparation of Commissioning and Qualification protocols.

Pfizer - Blender Module Upgrade, Brooklyn, New York
(Process Engineer)

Provided process engineering support for the detailed design of the upgrade of a blender module to a solids-liquids processor including utility assessment, coordination with equipment vendors, and preparation of commissioning and qualification documentation.

Confidential Pharmaceutical Client - Powder Handling
Equipment, Confidential Location, Canada

Performed FAT on powder handling equipment as client's representative.

Performed on-site commissioning of new powder handling suite including processing equipment, HVAC upgrades, and associated MEP upgrades.

Covidien (formerly Tyco Healthcare / Mallinckrodt) - High
Volume Manufacturing Addition,
Hobart, New York

Performed Commissioning and Validation document development and execution for a new Oral Solid Dosage (OSD) production addition to an existing facility.

Commissioning and Validation efforts focused on major mechanical equipment including a new steam boiler and distribution system, domestic hot water generation, utility hot water generation and distribution, facility and secure storage air handling units, process chilled water generation, and HVAC chilled water generation and distribution.

Additionally, Commissioning and Validation services were performed on the additions to the site Building Automation System (BAS) serving the new addition, as well as building utility services including a new compressed air generation and distribution system, bulk nitrogen storage and distribution system, and the electrical distribution system.

As a member of the Commissioning team, executed commissioning protocols for a series of modular processing suites. Systems commissioned include GMP rooms with room air HEPA filtration systems, compressed air, nitrogen, and Building Management System (BMS).

Confidential Pharmaceutical Client - Cold Glycol Chiller
System, Confidential Location, Canada

Design of cold glycol chiller system and associated heat exchangers for processing equipment. Executed commissioning protocols for the chiller and heat exchanger/tank jacket systems.

Confidential Pharmaceutical Client - Plant Expansion,
Confidential Location, Canada (Lead Process Engineer)
Transfer production of an Active Pharmaceutical Ingredient (API) to a new facility. Worked closely with mechanical and electrical teams to ensure utility requirements of process equipment were met. Served as design team representative on-site during SATs, commissioning, and validation to ensure a smooth startup.

Performed commissioning of process glycol and HVAC glycol chillers, utility water, BMS, process equipment, and process controls systems. Assisted with validation activities.

*Confidential Pharmaceutical Client - Commissioning Facility Upgrades, Confidential Location, Canada
Led commissioning effort including the installation of a new Purified Water Generation System and Distribution Loop along with the associated utilities required for that system. Prepared Commissioning and Qualification Plan and both static and dynamic commissioning protocols. Worked on-site to execute the protocols, working closely with the client's team and the construction manager to ensure we met critical project deadlines.*

*Pfizer - HVAC System and Process Equipment Upgrade, Brooklyn, New York (Process Engineer)
Provided process engineering support for upgrades to the HVAC system and process equipment in an existing packaging area to allow for the packaging of products containing potent compounds. Developed P&ID, commissioning, and qualification documents including user requirement specifications, system impact assessment, and the project commissioning and qualification plan.*

*Becton Dickinson - Greenfield Sterile Pharmaceutical Facility, Wilson, North Carolina (Process Engineer)
Worked as part of a multidiscipline project team for the detailed design of a new sterile pharmaceutical manufacturing facility. Prepared equipment and instrument specifications, schematic drawings, and interconnecting piping plans for the processing vessels, drum dispensing areas, clean-in-place (CIP) system, and process temperature control system. Worked closely with mechanical and electrical engineers to ensure the required utilities for this process equipment were provided.*

*The Pennsylvania State University - Central Biological Laboratory (CBL), University Park, Pennsylvania (Process Engineer)
Stantec conducted a \$5-million phased HVAC/electrical service replacement and miscellaneous renovation on a thirty-year old, 35,000-ft² animal test laboratory. The complete phased HVAC and electrical renovation of the animal holding areas (Vivarium) included replacement of five (5) separate systems along with construction of new marmoset rooms. The project also required the design of a 10,000-ft² temporary animal holding area adjacent to the main facility.*

The renovation improved reliability and performance of critical MEP systems, eliminated health concerns associated with asbestos containing materials (ACMs), and evaluated the facility relative to current and future programming needs. As a member of the design team, provided support for detailed design of upgraded HVAC system for animal holding areas. Tasks included specification and sizing of utility pumps and control valves for the upgraded system.

** denotes projects completed with other firms*

Mr. Pickett brings more than 20 years of diverse experience to Stantec. He has leadership and project management experience, electrical engineering design, cost estimating, and construction experience and consulting experience for private, commercial, government, institutional, and industrial clients. Mr. Pickett's experience as both a consultant and as an owner provides a unique and useful perspective.

EDUCATION

► Bachelor of Science, Clarkson University, Potsdam, New York, 1989

REGISTRATIONS

► Professional Engineer #073671, State of New York

PROFESSIONAL ASSOCIATIONS

- LEED Accredited Professional, U.S. Green Building Council
- Member, Building Industry Consulting Service International
- Member, Association for Facilities Engineering

PROJECT EXPERIENCE

► 250 Schermerhorn Street, Brooklyn, New York
Commissioning Agent responsible for commissioning component of a six-story, 88,000 sf office building. The project is LEED v2.2 Energy and Atmosphere category, the prerequisite for Fundamental Commissioning and Credit 3 Enhanced Commissioning of the Building Energy Systems. The facility design has an 88,000 square foot, six-story structure consisting of office space, meeting and conference rooms and other ancillary spaces. The existing structure consists of CMU and brick veneer. A metal panel facade with integral insulation will be added to upgrade the envelope. The mechanical systems include rooftop units, high efficient condensing boilers, and a full DDC system. The electrical system includes occupancy sensors and photosensors for staged daylighting control and the lighting systems. Responsibilities included reviewing the BOD and OPR, and preparing the Commissioning Specification and Functional and Prefunctional Checksheets. Also attended construction meetings, prepared commissioning action list, and visited the site to review and verify the PFT and FT.

► Clarkson University Student Center, Potsdam, New York
Commissioning Agent responsible for commissioning component of a three-story, 45,000 sf new Student Center. The project is LEED-NC v2.2 Energy and Atmosphere category, the prerequisite for Fundamental Commissioning of the Building Energy Systems. The facility design has a 45,000 square foot, three-story structure consisting of office space, student and faculty dining and multi-purpose meeting and conference rooms. The building is steel frame with brick veneer and EFIS. The mechanical systems include three air handling units, an air-cooled chiller, high efficient condensing boilers, and a full DDC system. The electrical system includes occupancy sensors and photosensors for staged daylighting control of the lighting systems. Responsibilities include reviewing the BOD and OPR, and preparing the Commissioning Specification and Functional and Prefunctional Checksheets. Also attended construction meetings, prepared commissioning action list, and visited the site to review and verify the PFT and FT

► Clarkson University TAC Building, Potsdam, New York
Commissioning Agent responsible for commissioning component of a two-story, 18,000 sf addition to connect the Science Center to the existing 12,000 sf Shuler ERC. The project is LEED-NC v2.2 Energy and Atmosphere category, the prerequisite for Fundamental Commissioning of the Building Energy Systems. The facility design has an 18,000 square foot, two story structure connecting the existing 12,000 square foot space in the Shuler ERC. The building is steel frame with brick veneer and EFIS with the first floor consisting of dry research labs and offices and the second floor dedicated to study areas and classrooms. The mechanical systems include three air handling units, a chiller, domestic water solar heat exchanger, and a full DDC system. The electrical system includes occupancy sensors and photosensors for staged daylighting control of the lighting systems. Responsibilities included reviewing the BOD and OPR, and preparing the Commissioning Specification and Functional and Prefunctional Checksheets. Also attended construction meetings, prepared commissioning action list, and visited the site to review and verify the PFT and FT.

► University of Buffalo Dormitory, Amherst, New York
Commissioning Agent for construction of a new four-story, 192,000 sf mixed-use dormitory building with three six story wings. This project is in support of the LEED for Schools Energy and Atmosphere Fundamental & Enhanced Commissioning credits. The building is brick with metal stud backing and glass structure. The building is primarily a sophomore style dormitory with living space for up to 600 occupants. Additional spaces will include: laundry units, multi-purpose space, office space, and conference rooms and data closets. Responsibilities include reviewing the BOD and OPR and supervising the preparation of the Commissioning Specification and Functional and Prefunctional Checksheets. Construction phase services include attending construction meetings, preparing commissioning action list, and visiting the site to review and verify the PFT and FT.

► Cherry Hill Fire Station, Cherry Hill, New Jersey (Electrical Engineering)
Provided electrical design for a new fire station building as well as the expansion of three existing stations. Project included a new two-story administration building with basement level, two new large-bay apparatus garage areas, several single story living quarters additions, as well as the expansion of an existing apparatus garage bay. Design included considerations for buildings as critical facilities and phasing of construction operations.

► WestJet Corporate Offices, Calgary, Alberta
Mechanical Design of 6 level, 258,000ft² office building with parking garage and mechanical spaces below grade. This LEED certified building is heated and cooled with geothermal heat pump central plant with four-pipe fan coil units serving the occupied zones. Modeled design heating and cooling loads using Trane Trace 700.

► Tyco Electronics, Rochester, New York
Provided NYSEERDA Technical Assistance through custom measure energy analysis of a 45,000ft² new construction office/manufacturing/warehouse building. Custom measures included envelope analysis developed in Trane Trace 700 and lighting power density analysis using NYSEERDA custom tools.

► Global Crossings, Rochester, New York
Provided NYSEERDA Technical Assistance through whole building energy analysis of a 87,000ft² new construction office building. Developed baseline and proposed design energy models using eQuest 3.6 as per Appendix G of ASHRAE 90.1-2004.

► Sitterly Associates, Halfmoon, New York
Provided NYSEERDA Technical Assistance through whole building energy analysis of a 42,000ft² new construction office building. Developed baseline and proposed design energy models using Trane Trace 700 as per Appendix G of ASHRAE 90.1-2004.

► Connection Technologies, Rochester, New York
Provided NYSEERDA Technical Assistance through whole building energy analysis of a 30,000ft² new construction office/manufacturing building. Developed baseline and proposed design energy models using eQuest 3.6 as per Appendix G of ASHRAE 90.1-2004.

► WestJet Campus Office Building, Calgary, Alberta
Electrical & Systems Design for 6 story, 258,000 s.f. office building. Building consists of four floors of office occupancy, one floor containing 12 training spaces plus office occupancy, a ground floor consisting of an conference center (which can be subdivided into three smaller, equal spaces), a full service cafeteria, a WestJet retail store, a fitness facility, and back-of-house areas (including storage and shipping/receiving). In addition, there will be a full basement that will provide for one level of underground parking for approximately 55 stalls and storage areas. An atrium component will act as a hub for the Campus and incorporate a physical link (a +15 bridge) to connect to the existing Hangar building, as well as provide future connectivity to Phase 2. The Campus site development includes a new road exclusively for WestJet vehicular traffic and new surface parking for approximately 1,450 new stalls. Work included indoor/outdoor lighting, new 5 mva electrical service, and fire alarm system.

► Cornell University CALS Bruckner Laboratory, Fernow Hall and Rice Hall, Ithaca, New York

► Clinical Translational Science Building, Rochester, New York (MEP Project Manager)

► NYSEERDA Technical Assistance, New Binghamton University Science & Engineering Research Facility, Binghamton, New York (Electrical Engineer)

► Center for Bioscience Education and Technology, Rochester, New York (Electrical Engineer)

* denotes projects completed with other firms

Garland Steele, PE, PS

Project Manager & Construction Services



-) Mr. Steele has over 50 years of experience in civil engineering with a special emphasis on materials, soils, pavements, forensics, quality assurance, geotechnical exploration and design, construction inspection, and contract administration.

His experience includes in-depth field experience for the implementation of research findings; in-depth experience with a State Department of Transportation program for materials sampling and testing, materials and pavement specifications, structural steel inspection and testing, and soil and rock mechanics exploration, testing and design; in-depth experience with State Department of Transportation maintenance and construction operations; an understanding of the training needs for State Department of Transportation personnel in materials, construction, and maintenance; significant contributions to many professional organizations (ASTM, AASHTO, TRB) involved with developing materials criteria; and many years of managing a State Department of Transportation staff responsible for materials and pavement specifications, pavement design, sampling and testing programs, structural steel inspection and testing, and soil and rock mechanics exploration and design.

Mr. Steele also has in-depth experience with the oversight of operations related to the management, recovery, and repairs, required in the wake of emergencies and disasters affecting the West Virginia Highway System. Such incidents included floods, earth movements, winds, structural failures, ice and snow, and other events affecting traffic flow.

EDUCATION

Bachelor of Arts, West Virginia State University,
Institute, West Virginia, 1976

- Transportation Research Board, Design and Construction of Transportation Facilities Group Council (Past Member)

REGISTRATIONS

- Professional Engineer #3929, State of West Virginia
- Professional Surveyor #1386, State of West Virginia
- Professional Engineer #24347, State of Kentucky
- Professional Engineer #25020, State of South Carolina
- Professional Engineer #0402015191, State of Virginia

Certifications

- Concrete Technician (#136), WVDOT, Charleston, West Virginia, 1990
- Aggregate Inspector (#5913), WVDOT, Charleston, West Virginia, 1990
- Asphalt Technician (#159), WVDOT, Charleston, West Virginia
- Licensed Class B Explosives Permit
- (#B060119285913), West Virginia, Charleston, West Virginia, 1990

PROFESSIONAL ASSOCIATIONS

- Member, American Concrete Institute
- Member, American Society for Testing & Materials
- Fellow, American Society of Civil Engineers
- Member, National Society of Professional Engineers
- Member, West Virginia Society of Professional Surveyors
- Standing Committee on Research (Past Member), American Association State Highway and Transportation Officials
- Subcommittee on Materials (Past Vice-Chairman), American Association State Highway and Transportation Officials.
- Transportation Research Board, Construction Section (Past Chairman)

EXPERIENCE

Design Team Engineer (Typical Examples)

- Buffalo Bridge, Project S340-62-20.63, Putnam County
- Upper Tract Bridge, Project S336-220-27.55, Pendleton County
- Mile Branch Bridge, Project S324-80/2-0.02, McDowell County
- Couch to Coast Guard Station, Project U327-35-14.07 00, Mason County
- Pope Properties at Cross Lanes Development
- Water Distribution System, Kanawha County
- Pope Properties at Cross Lanes Development
- Waste Water Collection System, Kanawha County

Geotechnical Engineering (Typical Examples)

- Fisher-Mill Creek Bank Stabilization (10-04), Jackson County
- *Survey, Design, and Construction Inspection*
- Hendrickson Subsidence Investigation
- *AML Project*
- Laurel Lake Sediment Removal Project, Mingo County
- *Survey, Design, and Construction Inspection*
- Nixon Run, Harrison County *AML Project*
- North fork Hughes River-Stream Bank Stabilization, Cairo, Ritchie County, West Virginia
- Old Bridgeport Hill Mine Drainage, Phase II Plans Modification, Harrison County, West Virginia
- *Harrison County-Near Bridgeport, Clarksburg – Design AML Project, P. O. #12373A*
- Sauls Run Strip and Landslide Project (7-2004), Lewis County, West Virginia
- Weaver Portals and Mine Drainage, Randolph and Barbour Counties
- *AML Project, P. O. #DEP12578, Survey, Design*

- Parchment Creek Stream Bank Stabilization
- Rt. 30/5, Jackson County
- Summit Park Waterline Feasibility Study
- Tunnelton (Dillsworth) Landslide, Preston County

Survey Team Engineer (Typical Examples)

- Earling to Rich Creek, Project S323-10-8.61 05, Logan County
- Rita Bridge to Midway, Project S323-10-8.61 07, Logan County
- King Coal Highway Project, Nicewonder Contracting, Inc., Mingo County
- Joe Pope Parcel 10.1 Development, Kanawha County

Construction Administration Services (Typical Examples)

- Alaska DOT
- Marshall County Airport Authority
- Transportation Research Board*

WV DOH

- Corridor H, Project X316-H-100.40 07, Hardy County
- Construction Inspection and as-needed Surveying
- Davis Creek I64. Project U320-64-49.73 04, Kanawha County
- Construction Inspection
- Culloden Overpass, Project S340-60.03, Cabell County
- Construction Inspection
- District 10, Bridge, Roadway, and Building Projects, District Wide as needed
- Construction Inspection
- Soil Inspector, Engineering Division (1955-1957)*
- Assistant to Chief Soils Engineer/Assistant Chief Soils Engineer (1957-1961)*
- Materials Engineering/Testing
- Chief Engineer of Materials and Tests (1961-1962)*
- Assistant Director, Materials Control, Soil and Testing Division (1962-1965)*
- Director, Materials Control, Soil and Testing Division (1965-1977)*
- Chief Engineer-Operations (1977-1981), WVDOH*
- Construction, Maintenance and Materials Engineer (1981-1985), WVDOH*
- Engineering and special Studies Advisor (1985-1988), WVDOH*
- Strategic Highway Research Program (SHRP)*
- Oil and Gas Field Exploration, Production and Storage Operations (1946 -1955)*
- West Virginia State Road Commission (1945 -1946)*

PUBLICATIONS

"Statistical Considerations in Sampling and Testing"

"Statistical Considerations in Sampling and Testing".

"Asphalt Concrete Synthetic Reference Sample Program and the LTPP Asphalt Concrete Core Proficiency Sample Program".

"Round I Hot Mix Asphalt Laboratory Molded Proficiency Sample Program

"Round I Type I Unbound "

Type II Unbound Cohesive Subgrade Soil Synthetic Reference Sample Program".

"Type I Unbound Granular Base Synthetic Reference Sample Program".

"Round I Type II Unbound Cohesive Subgrade Soil Proficiency Sample Program".

"Portland Cement Concrete Core Proficiency Sample Program".

"A Dynamic Committee in a Century of Change".

"Roads-Keystone of the Infrastructure".

"Quality Assurance - A System in Practice". *Annual Meeting of the Transportation Research Board*, 1981.

"Development of Practical Performance-Type Specifications". *Tenth Quality Assurance Workshop*, 1977.

"Materials Data Handling Systems (Quality Assurance Systems and Their Development)". *62nd Annual Meeting, AASHTO*, 1976.

"Polymer Modified Concretes in Bridge Deck Overlay Systems".

"Developments in the Prediction of Potential Strength of Concrete from the Results of Early Tests".

"Cooperative Materials Technician Certification Program".

"The Development of West Virginia Department of Highways Paint and Painting Specifications".

"A Quality Assurance System for Acceptance of Asphaltic Materials".

"Bituminous Concrete - Definition of Required Quality -Its Measurement and Evaluation".

"Computer Application to Quality Assurance Systems (CATQAS)".

"Use of Certification for Materials Acceptance".

"West Virginia's Probability Specifications".

"Prediction of Potential Strength of Concrete from the Results of Early Tests".

"Statistical Quality Assurance in Highway Construction, What We Have Learned and What We Need to Know"

"Design of Double-Limit Specifications (Bituminous Concrete Paving Mixtures)".

"The Statistical approach to Realistic Highway Specifications".

"Specifications and Acceptance Procedures for Graded Aggregates".

"A Pycnometer Test Procedure for Determining Asphalt Content of Paving Mixture".

"West Virginia Experience in Developing Statistical Specifications".

"Statistical Research (Applications to Bituminous Concrete)".

* denotes projects completed with other firms

Aaron Tonkery, PE

Project Engineer



Mr. Tonkery is a Project Engineer with training and experience in civil site design, transportation engineering, and environmental permitting. Prior to joining the firm, Mr. Tonkery served as a Highway Engineer Trainee for the West Virginia Division of Highways (WVDOT).

EDUCATION

B.S., Civil Engineering Technology, 2000
Fairmont State College,
Fairmont, West Virginia

REGISTRATIONS

Professional Engineer - # 18237
State of West Virginia

PROJECT EXPERIENCE

Greenland Gap Wind Energy Project
M.A. Mortenson Co. – Grant County, WV

Appalachian Corridor H
WVDOT – Grant / Tucker County, WV
U.S. Route 35

Upper Tract Bridge Replacement
WVDOT – Pendleton County, WV

Mile Branch Bridge Replacement
WVDOT – McDowell County, WV

Weatherford Fracturing Facility Access Road Upshur
County – West Virginia

Glady Fork Coal Company
WVDEP – Buckhannon, WV

Spencer Hydrologic & Hydraulic Study
WVCA – Spencer, WV

Parsons First Baptist Church H&H Study
Parsons FBC – Tucker County, WV

Krout Creek H&H Investigation
WVCA – Wayne County, WV

Laurel Lake Sediment Removal Project
WVCA – Mingo County, WV

Danehart Acid Mine Drainage (AMD) Project ODNR –
Yorkville, OH

Nutter Tipple Reclamation Project
ODNR – Logan, OH

Flint Run AMD Project
ODNR – Jackson County, OH

Murray City AMD and Art Project
ODNR – Hocking County, OH

Old Bridgeport Hill Mine Drainage Project WVDEP –
Clarksburg, WV

Texas Roadhouse
Greenberg Farrow – Parkersburg, WV

Northeast Mud Services Company Project
NEMS Co. – Harrison County, WV

Phillippi Shop-N-Save
Craig Phillips – Barbour County, WV

Institute for Software Research
Central Contracting Co. – Fairmont, WV

Project Impact
Tucker / Randolph County – West Virginia

West Virginia State College
WVSC – Institute, WV

NPDES Permit – Stormwater / Construction
WVDEP - State of West Virginia

Christopher Carknard

Mechanical Engineer



Stantec

Mr. Carknard has almost five experience in the HVAC, plumbing, and fire protection design field. As a mechanical engineer he provides technical support for the development of various aspects of a pharmaceutical, laboratory, manufacturing and production facility design. He also has past experience in construction administration.

EDUCATION

Bachelor of Science, Mechanical Engineering Technology,
State University of New York College of Technology
Utica/Rome, New York, 2002

PROFESSIONAL ASSOCIATIONS

Member, American Society of Heating, Refrigerating & Air-
Conditioning Engineers

PROJECT EXPERIENCE

Confidential Pharmaceutical Process Project,
Confidential Location, Canada
(Mechanical Engineer/Commissioning)
*Executed Commissioning protocols to document the
installation and functional testing results for a chiller and heat
exchanger/tank jacket systems.
Executed Commissioning protocol to document additions to
existing building utility systems including the chilled water
and process water systems.*

Covidien (formerly Tyco Healthcare / Mallinckrodt) - High
Volume Manufacturing Addition, Hobart, New York
(Mechanical Engineer/Commissioning)
*Performed Commissioning and Validation document
development and execution for a new Oral Solid Dosage
(OSD) production addition to an existing facility.
Commissioning and Validation efforts focused on major
mechanical equipment including a new steam boiler and
distribution system, domestic hot water generation, utility hot
water generation and distribution, facility and secure storage
air handling units, process chilled water generation, and
HVAC chilled water generation and distribution.
Additionally, Commissioning and Validation services were
performed on the additions to the site Building Automation
System (BAS) serving the new addition, as well as building
utility services including a new compressed air generation
and distribution system, bulk nitrogen storage and distribution
system, and the electrical distribution system.*

Ben Venue Laboratories Inc. - Sterile Manufacturing Phase
IV Conversion, Bedford, Ohio (Mechanical
Engineer/Commissioning)

*As a member of the Commissioning team, documented the
installation of major mechanical equipment including air
handling units, chilled water generators, electrical distribution
systems, as well as all associated instruments, utilities, and
components in a new addition to an existing pharmaceutical
facility.*

*Performed installation and operational verification of
production room construction finishes, room components
including temperature and humidity monitoring equipment, as
well as operator life safety notification devices.*

Confidential Pharmaceutical Process Project, Confidential
Location, Canada (Mechanical Engineer/Commissioning)
*Worked on the Commissioning and Validation team to
document the installation of the major mechanical systems
including HVAC, chilled water, and heating hot water; as well
as process related systems such as purified water and all
associated instruments, equipment, and utility connections
for a new addition to a pharmaceutical production facility.
Performed functional testing on the HVAC systems.*

Norwich Pharmaceuticals Inc. - Solvent Coating and
Granulation Upgrade, Norwich, New York
(Mechanical Engineer)

*Evaluated a portion of an existing facility and its
corresponding HVAC and fire protection systems for the safe
handling, dispensing, and storage of solvent materials with
respect to cGMP and current local code requirements.
Performed a system analysis on the existing HVAC
equipment installations addressing client concerns regarding
system wide performance. Assisted in writing a report and
corresponding cost opinion analysis for modifications and
updates to bring the facility into compliance.*

State of New York University Construction Fund - Empire
State College, Saratoga Springs, New York
(Mechanical Designer)

*Assisted in the design and layout of mechanical systems
including heating load and friction loss calculations. Systems
served private office and conference room spaces in a
rehabilitation of an historic landmark structure working with
difficult existing special constraints.*

Sized and selected major HVAC equipment including baseboard radiant fin tube, air cooled chiller, boilers, pumps, and fans. Redesigned systems per client changes and field conditions as well as performed multiple on-site system reviews to address construction issues.

** denotes projects completed with other firms*

Eric Smith Associates - Windham Enclave, Windham, New York (Mechanical Designer)*

Assisted in the design and layout of HVAC systems including heating load and friction loss calculations. Systems served large meeting rooms, commercial style kitchen areas, mechanical equipment rooms, and private condominium style residences.

Sized and selected major HVAC equipment including air handling units, water source heat pumps, fan coil units, heat exchangers, pumps, fans, chillers, split systems, walkway snow melt system (including zone manifolds and pumps), and boilers.

Revised individual condominium layouts per final tenant request and reviewed submitted mechanical equipment during project construction phase as well as performing on-site final punch list.

Dormitory Authority of the State of New York - Samaritan Village, Ellenville, New York (Mechanical Designer)

Assisted in the design and layout of HVAC systems including heating load and friction loss calculations. Systems served new dormitories, new recreational building, new dining hall (including office spaces and large meeting rooms), and rehabilitation of an existing classroom building.

Sized and selected major HVAC equipment including air handling units, VAV boxes, fan coil units, heat exchangers, pumps, fans, chillers, split systems, and boilers. Reviewed submitted mechanical equipment during project construction phase.

New York State Office of General Services - Alfred E. Smith Building Rehabilitation and Modernization, Albany, New York (Mechanical Designer)

Assisted in the design and layout of HVAC systems including heating load and friction loss calculations. Systems served private offices, open floor plan office spaces, conference rooms, print shops, cafeteria and kitchen areas, and testing rooms. Project team redesigned and repurposed areas and systems to suit tenant needs.

Performed multiple on-site evaluations of construction and site conformance issues. Worked with the client and other construction and design professionals to achieve a solution in a timely manner.

Coordinated routing of vital mechanical systems, including HVAC plumbing and sprinkler systems, along side other trades and within the constraints of the existing structure while maintaining the integrity and historical value of the building.

Mark Cvechko

Inspector – Level II



Stantec

Education A.S., Land Surveying
Glenville State College, Glenville, West Virginia (1977)

Certifications & Affiliations *West Virginia State Police Academy, Institute, WV (1978)*
Portland Cement Concrete Inspector
Compaction Inspector
Aggregate Sampler

WV Contractors Association
WV Association of Land Surveyors
Upshur County chamber of Commerce
Board of Directors, Buckhannon Country Club

Experience and Qualifications Mr. Cvechko has a diverse background in Heavy/Highway Construction, as well as Civil-Environmental Surveying and Design. Mr. Cvechko has over 20 years of management experience in the Heavy/Highway/Building/Water and Sewer industry. Mr. Cvechko has worked as senior estimator and project manager on projects ranging from one to ten million dollars. Mr. Cvechko has also performed plan review on design projects for constructability. Mr. Cvechko also has field experience as a superintendent, which attributes a key element in the design process.

Mr. Cvechko currently manages the Construction Services Department in the Buckhannon office of Stantec Consulting Services Inc., which includes Geotechnical Investigation, Construction Observation, and Quality Control Testing.

Project Experience Profile Mr. Cvechko has managed and worked on numerous large heavy/highway projects. Some projects include:

- Sampling & testing of materials at source of supply under MCS&T Contract
- Corhart Manufacturing Press Building-High Point Construction
- Gladly Fork Mine treatment Plant –WVDEP
- 4 Mile Overland Beltline – Consol Energy, Robert and Shaffer, Ground Breakers
- St. Joseph Hospital Addition – St. Joseph's Hospital
- Bluestone Dam Rehabilitations – National Engineering
- Hazelton Federal Prison - P. J. Dick Corporation
- Glenville Federal Prison – Bell Justice Facilities
- Statewide Traffic Study – PA Department of Transportation
- Route 50 By-Pass – WV Department of Transportation
- Oil Creek Road – WV Department of Environmental Protection
- Masontown AML – WV Department of Environmental Protection
- Broadus Hospital – Private
- Spruce Fork Face up – anchor Energy
- Route 60 Slide – WV Department of Transportation
- Musselman High School – School Building Authority
- Calhoun County High School – School Building Authority
- Snowshoe Site and Utilities – Private
- Corridor H – WV Department of Transportation

Herbert L. Parsons III PE, LS

Project Engineer



Mr. Parsons has more than 13 years experience and has participated as a project manager on a wide variety of survey projects, including GPS, aerial mapping and control, ALTA, boundary, construction stakeout, design, topographic and wetlands surveys. His responsibilities include project proposals, research and review, client and crew coordination, data reduction and calculations, boundary resolutions, and legal descriptions. As a license surveyor in the Commonwealth of Virginia, Mr. Parsons is proficient with current technologies and traditional methods of field and office surveying. Mr. Parsons has responsible charge for all Virginia based survey operations and reviews and approves all required signature documents. Additionally as a licensed engineer he brings a unique perspective to Stantec's survey department and projects.

EDUCATION

B.Sc., Civil Engineering, Virginia Military Institute,
Lexington, Virginia, 1994

Designated Plans Examiner #176, Engineers and
Surveyors Institute, Fairfax County, Virginia, 1998

Designated Plans Examiner, Engineers and
Surveyors Institute, Loudoun County #063,
Virginia 2002

REGISTRATIONS

Professional Engineer #015279, State of West
Virginia

Professional Engineer #PE070521E,
Commonwealth of Pennsylvania

Registered Land Surveyor #2895, Commonwealth
of Virginia

Professional Engineer #033680, Commonwealth
of Virginia

PROFESSIONAL ASSOCIATIONS

Member, West Virginia Society of Professional
Surveyors

Member, National Society of Professional
Engineers

Member, American Society of Civil Engineers

Member, Engineers and Surveyors Institute

PROJECT EXPERIENCE

Sports, Recreation & Leisure
Elco Park Recreation Improvements, Elco, PA

Ida Lee Tennis Center, Leesburg, VA

Arthurdale Trail, Arthurdale, WV

Raspberry Falls Golf and Hunt Club
Conference and Training Center, Loudoun
County, VA

Attractions, Arts & Entertainment

Carmike Cinemas Site Plan, Morgantown, WV

Site Development

Holly Meadows, Leesburg, VA

Henderson Property, Loudoun County, VA

Evergreen Meadows, Loudoun County, VA

Falling Water Subdivision, Cheat Lake, WV

Urban Land Engineering

Holly Meadows, Leesburg, VA

Boundary Surveys

Theismann Properties, Loudoun County, VA Johnson
Property, Rockingham County,
VA

Kelly Properties, Monongalia County, WV

Theismann Properties, Loudoun County, VA

Floodplain Management

Lawson Drainage Study, Morgantown, WV

Partridge Subdivision (Floodplain Study), Loudoun
County, VA

Multi-Unit / Family Residential

Round Hill Rural Estates, Upper Lakes

Nesteled Oak, Morgantown, WV

Greenwood Commons, Loudoun County, VA (Project
Manager)

Roadways

Raspberry Falls Rte 1170 Street Design, Leesburg, VA

Red Cedar Rte 621 Improvements, Leesburg, VA

RHRE Rte 719 Frontage Improvements, Round Hill, VA

Gregory Linder, PE

Project Engineer



Mr. Linder has a diverse experience in project management and civil engineering. Since May of 1998, his primary responsibilities have included the design, inspection, evaluation, and rehabilitation of highway and railroad bridges; secondary responsibilities have included all aspects of roadway design, hydrologic and hydraulic analyses, and performing environmental studies.

Mr. Linder has been involved with the engineering design and/or inspection of 52 bridges, including highway, railway, and pedestrian bridges. He has designed bridge structures for large, governmental clients, as well as smaller governmental units and private sector organizations. Several of these projects have been "high profile" projects, allowing Mr. Linder the experience of working under intense public scrutiny. In addition to bridge design, Mr. Linder has been involved with nearly 30 miles of roadway design, floodplain evaluation projects, streambank protection projects, site development projects, and environmental projects.

EDUCATION

B.S., Civil Engineering, West Virginia University, Morgantown, WV, 1998

B.S., Biology, Fairmont State College, Fairmont, WV, 1993

Natural Stream Design Level I, II, III, and IV Certified, West Virginia Division of Highways

REGISTRATIONS

Professional Engineer #15629, State of West Virginia

Professional Engineer #24326, Commonwealth of Kentucky

Professional Engineer #PE074078, Commonwealth of Pennsylvania

PROJECT EXPERIENCE

Bridges

- US Route 35, Mason County, WV
- Mile Branch Truss Bridge, McDowell County, WV
- Upper Tract Bridge, Pocahontas County, WV
- Mon/Fayette Expressway, S.R. 0043, Section 52G, Washington County, PA*
- Allegheny County Bridge Inspection Program, Allegheny County, PA* Cranberry Interchange, Butler County, PA* Regional Transit Authority*
- S.R. 0056 over Stony Creek, Cambria County, PA*

- S.R. 0309 over Church Road, Montgomery County, PA*
- Star City Bridges (WV Route 7) Over the Monongahela River, Monongalia County, WV*
- Bridge Design Group H, Allegheny County, PA*
- PA Route 28, Galleria Mall Interchange, Allegheny County, PA*
- S.R. 0022 over Stony Run, Westmoreland County, PA*
- Sharon Heights Connector, Span Arrangement Study, Mingo County, WV*
- Bridge Design Group B, Allegheny County, PA*
- NJ Route 18 Extension, Section 2F, New Brunswick, NJ*
- NJ Route 18 Extension, Section 2F, New Brunswick, NJ*
- North Shore Connector, Aerial Structure, Allegheny County, PA*
- S.R. 836 Extension From NW 107th Avenue to NW 137th Avenue, Miami-Dade County, FL*
- Rail Rehabilitation Project, Akron and Canton, OH*
- Headsville Bridge Replacement, Mineral County, WV*

Roadways

- U.S. Route 35, Mason County, WV
- Appalachian Corridor H, Davis to Bismark, Tucker and Grant Counties, WV

- Weatherford Industrial Access Road, Upshur County, WV
- Greenland Gap Wind Project, Grant County, WV
- King Coal Highway, Mingo County, WV*
- U.S. Route 33 (Nelsonville Bypass), Hocking and Athens County, OH*

Floodplain Management

- Spencer Hydraulic Study, Roane County, WV
- Coalwood Floodplain Improvement, McDowell County, WV
- Rachel Floodplain Improvement, Marion County, WV
- Krout Creek H&H Investigation, Wayne County, WV
- Parsons First Baptist Church H&H Study, Tucker County, WV
- Martin Oil Company H&H Study, Lewis County, WV
- Freemans Creek H&H Study, Lewis County, WV

Site Development

- Texas Roadhouse, Wood County, WV
- CGP Development, Barbour County, WV
- Talcott Elementary School Site Design, Talcott, WV
- Buckhannon-Upshur High School Site Improvement and Drainage Project, Buckhannon, WV

Stream Restoration and Streambank Protection

- Laurel Lake Sediment Removal Project, Mingo County, WV
- Parchment Valley Streambank Protection, Jackson County, WV
- Berger Slope Failure, Brooke County, WV
- Fisher Landslide Stabilization, Jackson County, WV
- Cairo Streambank Protection, Ritchie County, WV
- Barkers Creek Streambank Protection, Wyoming County, WV

Environmental

- Gladys Fork Mining Inc., Permit D-35-82, Upshur County, WV
- Enterprise/I-79 Connector, U.S. Route 19 to I-79, Environmental Assessment, Marion County, WV*
- Southern Beltway, Allegheny and Washington Counties, PA*
-

- Enterprise/I-79 Connector, U.S. Route 19 to I-79, Biological Assessment, Marion County, WV*
- Meldahls Undercut Site, Wood County, WV*
- C&O Flats, Staunton, VA*
- Nelsonville Bat Survey, Athens County, OH*
- North Fork Watershed Management Plan, Pendleton and Grant Counties, WV
- Environmental Assessment, Deegan Lake Dam Rehabilitation and Hinkle Lake Dam Breach, Bridgeport, WV*

** denotes projects completed with other firms*

DONALD BARGER

INSPECTOR, LEVEL II

Education Fairmont State University, A.A.S., 2005
Fairmont, WV
Air Police Academy Graduate (Class 14120), 1961
U. S. Air Force Technical Training School, Lackland Air Force Base, San Antonio, TX
Law Enforcement Supervisor Course (116 Hrs.), 1990
U. S. Air Force Technical Training School, Lackland Air Force Base, San Antonio, TX,

Certifications and Registrations Transportation Engineering Technician #1239, Level III
WVDOH Compaction Inspector #243
WVDOH Concrete Technician #9454
WVDOH Aggregate Inspector #9454
WVDOH Portland Cement Concrete Technician #9454
WVDOH Hot Mix Asphalt Technician #9454
National Institute of Engineering Technicians Certificate #69968
Alexandria, VA - 1986
Certified Lumber Grader – National Hardwood Lumber Inspection School, Memphis, TN, 1969
Professional Auctioneer (WV License #1495) – Walton School of Auctioneering, Medina, OH, 2000

Experience and Qualifications **Stantec – Buckhannon, WV-**
Field Technician –Consultant – March 2008 - Present
Shuck Steel Fabricators, LLC–Shuck Construction Company, LLD-Fairmont, WV
Quality Control Testing and field Inspections – 2006-2008
WVDOH Construction , Charleston, WV
Assistant State Enforcement Officer, 1996-2006
Regional Supervisor, 1990-1996
Road Supervisor, 1969-1990
WVDOH Construction, Elkins, WV
Field Testing Coordinator, 1983-1989
English Construction Company, Altavista, VA
Quality Control Engineer, 1981-1983
WVDNR, French Creek, WV
Forest Ranger, 1981
WVDOH Construction, Elkins, WV
Field Inspector, 1973-1981
WV Air National Guard, Charleston, WV
Retired Master Sergeant
USAF, Active Duty, 1960-1966

Dennis Miller, PS
Surveys/Geomatics

Mr. Miller has over 22 years of consulting experience and serves as the Manager of the Buckhannon, WV office, which provided support for the Transportation, Abandoned Mine Land, Surveying, Construction Observation – Construction Inspection, and Mitigation and Emergency Planning groups. Mr. Miller has worked on governmental, commercial, and industrial projects and has noteworthy experience in the policies and procedures within FEMA, EPA, AASHTO, WV DOT, WV DEP along with local and state EMA and EOC, and has completed EMI IS-700" entitled "National Incident Management System (NIMS), "IS-00546" entitled "Continuity of Operations (COOP).

Mr. Miller organized the development of a 15 person construction observation and AMRL certified materials testing lab. This group was selected as the Independent Testing Laboratory for two Federal Prison projects and provide testing and inspection services for public agencies and private sector clients. Mr. Miller organized a team of professionals with experience in Abandoned Mine Land and Acid Mine Drainage. This team provides services to the West Virginia Division of Environmental Protection Office of Abandoned Mine Lands and Office of Special Reclamation, Ohio Department of Natural Resources and the West Virginia Conservation Agency.

EDUCATION

A.S., Surveying, Glenville State College, Glenville,
West Virginia, 1989

Civil Engineering courses, Fairmont State College,
Fairmont, West Virginia, 1991

REGISTRATIONS

Professional Land Surveyor #27570, State of South
Carolina

Professional Land Surveyor #991, State of West
Virginia

PROJECT EXPERIENCE

Airports & Aviation

Woodsfield Airport, Woodsfield, OH

Mr. Miller was the task manager responsible for supervising the surveying on the Runway Extension and Obstruction project on this airport in Woodsfield.

Barnesville Airport, Barnesville, OH

Mr. Miller was the task manager responsible for supervising the surveying on the Access Road Improvements, and Storm Drain Improvements project on this airport in Barnesville.

Green County Airport, Green County, OH

Mr. Miller was the task manager responsible for supervising the surveying on the Runway Extension and County Route relocation efforts at the airport in Green County Ohio.

Buckhannon Upshur Airport, Buckhannon, WV

Mr. Miller was the party chief and project manager responsible for field surveying and construction layout efforts on this airport project in Buckhannon.

Bridges

Mile Branch Truss Bridge, McDowell County, WV

Mr. Miller was the Office manager responsible for surveys for the 180-foot, 22-foot wide steel bridge crossing the Dry Fork River. The bridge substructure consists of integral abutments and T-Type piers supported on caisson foundations. The project also involved 370' of new two-lane roadway design.

Upper Tract Bridge, Pocahontas County, WV

Office manager responsible for surveys for the 346-foot long, 30-foot wide curved steel bridge crossing

the South Branch of the Potomac River. The bridge substructure consists of integral abutments and T-Type piers supported on caisson foundations. The project also involved 740' of new two-lane roadway.

Appalachian Corridor H - Davis to Bismark, Tucker and Grant Counties, WV,

Office Manager responsible for surveys for the 1.61 mile section of four-lane divided highway near Davis, WV.

Power

Consol Energy; Blacksville #2 Power Line (Principal In Charge)

Consol Energy; Campbell's Run to 11D Shaft (Principal In Charge)

Shell Energy, Grant County, West Virginia

TrAllco, Central Contracting, West Virginia (Principal In Charge)

Roadways

West Virginia Power Center Coal Haul Road Survey and Layout, Mt. Storm, West Virginia
Mr. Miller was in charge of the re-survey of 4.2 miles of coal haul access roads for Virginia Power at Mt. Storm. The scope of this project was to construct the coal haul access roads within a specific period of time because the new fuel preparation/coal transfer station was opening and a new coal supplier had been put under contract.

US Route 35, Mason County, West Virginia

Mr. Miller served as the Office Manager responsible for surveys for the 1.85 mile section of four-lane divided highway. The section of highway also includes dual 400' bridges over Three Mile Creek and dual 92' bridges over Two Mile Creek.

Surveys / Geomatics

West Virginia Department of Environmental Protection

West Virginia Department of Transportation (Independent Payment Verification)

Mr. Miller is the Program Coordinator/Project Manager and served as a field crew member for the past two years on the independent payment verification for the King Coal highway Red Jacket Section. Stantec was ask to perform an Independent Payment Verification Reconciliation Report as required by WVDOT and the FHA on 11.37 miles of four lane divided highway which is a active coal mining & construction site.

Project Impact Randolph Tucker Partnership

Mr. Miller was the Office Manager and served as Project Manager on the planning, development and implementation of the work plan to successfully install and Blue Book sixty-five (65) new USGS Bench Mark Monuments within Randolph and Tucker Counties in West Virginia. This Project was completed in forty-five (45) days to comply with the funding mechanism and involved three offices and over fifteen employees.

Source Water Assessment Program

Mr. Miller was responsible for the overall project management of the Source Water Assessment and Protection Program (SWAP). The purpose of the project was to complete source water assessments and protection plans for fifteen (15) communities in West Virginia, public water supply systems utilizing surface waters to determine past and present possible contaminates. Mr. Miller managed the inventory of all field and researched data including, agency database research, windshield surveys data, field & office GIS & GPS data collection on each site and sub-site, Chemical & Biological Water Quality Monitoring results for each site, and the development of the Arc View -- Access data management tool, and final report compilation. Responsibilities included data collection (which consisted of visiting several sites throughout West Virginia to GPS possible source water contaminants within a pre-determined zone of critical concern), compiling information from various water treatment plants throughout the state, report compilation and assistance with the development of GIS mapping.

Jason Littler, PS

Professional Land Surveyor



Mr. Littler has over 13 years of experience with responsibilities including such positions as Roadway Designer and Survey Project Manager. He has performed roadway design, site civil design, drainage computations, construction layout, earthwork volumes, topographical surveys, aerial control surveys, boundary surveys, WVDOH right of way plan development, courthouse research, deed work maps, survey plats, survey descriptions, earthwork volume computations, hydrology computations, WVDOH waste permits, plan preparation, subdivision plats, fine grade computations, and field crew management. He has been in professional charge of over 1000 boundary surveys ranging in size from small lot and partition surveys to large multi-tract 1000 acre surveys. He has performed ALTA/ASCM land title surveys all throughout West Virginia for various Banks and development companies.

EDUCATION

BS, Engineering Technology/Surveying, West Virginia Institute of Technology, Montgomery, WV, 1996

AS, Civil Engineering Technology, West Virginia Institute of Technology, Montgomery, WV, 1995

REGISTRATIONS

Certified Engineering Technician #1902, State of West Virginia

Professional Land Surveyor #2139, State of West Virginia

PROJECT EXPERIENCE

Airports & Aviation

- Barnesville Airport, Barnesville, OH
- Marshall County Airport, Moundsville, WV
- Woodsfield Airport, Woodsfield, OH
- Buckhannon Upshur Airport Authority, Buckhannon, WV*

Bridges

- Upper Tract Bridge, Pocahontas County, WV
- Mile Branch Truss Bridge, McDowell County, WV
- Varney Slab Bridge, Varney, WV
- Dolls Run Slab Bridge, Core, WV
- Headsville Bridge, Headsville, WV
- Granny Creek Bridge, Sutton, WV*
- Buffalo Bridge, Buffalo, WV
- Kittsonville Bridge, Weston, WV*

Land Development

- Sun Mountain Resort, Mount Hope, WV*
- Northeast Quad Development, Bridgeport, WV*
- Fairskies Development, Buckhannon, WV*

Power

- TrAIL Co., Various Counties throughout WV
- Nedpower Mount Storm Wind Project, Grant County, WV
- Blacksville #2 Power line, Greene County, PA
- Cambell's Run to 11D Air Shaft, Marion County, WV

Roadways

- Philippi Bridge and Bypass, Philippi, WV
- Bridgeport Bypass, Bridgeport, WV
- Price Hill Road, Marlinton, WV
- Appalachian Corridor H, Tucker and Grant Counties, WV
- U.S. Route 35, Mason County, WV
- Appalachian Corridor H, Hardy County, WV
- US Route 23, South Bloomfield, OH

Surveys / Geomatics

- WVDOH—Red Jacket Postal Facility ALTA Survey, Mingo County, WV
- Robinson Run Overland Conveyor Project, Harrison County, WV
- Robinson Run Preparation Plant, Harrison County, WV
- WVDEP Office of Abandoned Mine Lands
- WVDEP Office of Abandoned Mine Lands and Reclamation, Infinite Solutions.
- Tygart Valley Dam, Grafton, WV*

* denotes projects completed with other firms

HERBERT C. HALL
Inspector – Level IV



Stantec

Education Bluefield College, *Bluefield, Virginia*
Major: Assoc. of Science in Engineering, 1969

Bluefield State College, Bluefield, WV
Major: BS, Chemistry Major/Math Minor, 1971

Certifications Level IV – Bridgemont Community & Technical
College, #1100

Concrete Inspector – WVDOH

Concrete Technician – WVDOH

Aggregate Technician – WVDOH

Asphalt Inspector – WVDOH

Compaction Inspector – WVDOH

Computer Skills West Virginia Division of Highways Progress
Record System (PRS)

FORTTRAN Computer Programming

Work Experience Engineering Tech (May 2008 - August 2010)
Stantec Consulting Services Inc.
218 6th Avenue, St. Albans, WV 25177

- Perform project inspection and documentation of all facets of small and medium bridge construction
- Inspect and document condition of link and pin joints on various bridges throughout WV
- Inspect various drainage corrections and document results

EDWARD G. HAYNES
Inspector – Level III

Education Concord College, Athens, WV
Princeton High School, Princeton, WV

Certifications National Institute for certification in Engineering Technologies
Level IV Highway Construction #61636

ACI Concrete Field Testing Technician – Grade I
(ID#01025343)

PCI Certification – Level I (Certification #11823) & Level II
(Certification #10640)

Fairmont State University
Transportation Engineering Technician Sr., Construction
Specialization #1026

Experience 31 Years

Stantec Consulting Services, Inc. Sept. 1, 2004 to Present
Lead Inspector, Prestressed Concrete Shop

WV Department of Highways (July 1978 – June 2004)
Princeton, West Virginia
Project Supervisor Inspector

Experience includes over 20 bridges, many roadway and paving
projects , other miscellaneous highway construction projects, and
pavement marking projects

Patrick Carpenter

Designer

Mr. Carpenter has a diverse experience in both civil engineering and surveying. Since June of 2000, his responsibilities have included various design projects, including several highway and bridge projects, Abandoned Mine Lands and Acid Mine Drainage projects, site design and several waste and borrow permits. He has also worked with GIS projects including Source Water Assessment Protection Program and several Emergency Planning projects; secondary responsibilities have included maintenance of office information systems, including personal workstations, software installs, printers, copiers and the office server.

EDUCATION

Diploma, Buckhannon-Upshur High School,
Buckhannon, WV, 2000

PROJECT EXPERIENCE

Bridges

Relocated U.S. Route 35, Mason County, WV
Mile Branch Truss Bridge, McDowell County, WV
Upper Tract Bridge, Pocahontas County, WV

Roadways

Appalachian Corridor H, Davis to Bismark, Tucker
and Grant Counties, WV (Designer)
Weatherford Fracturing Facility Access Road – Upshur
County, WV (Designer)
U.S. Route 35, Mason County, WV (Designer)
Grassy Ridge Road (WV CR 42/1) Relocation, Grant
County, WV (Designer)
Greenland Gap Wind Project, Grant County, WV

Floodplain Management

Spencer Hydraulic Study, Roane County, WV
(Designer)

Site Development

Pre-Engineered Livestock Facility, Lewis County, WV
(Designer)
David E. Reemsnyder Research Center, Upshur
County, WV (Designer)
Buckhannon-Upshur High School Site Improvement
and Drainage Project, Buckhannon, WV (Designer)
Texas Roadhouse, Wood County, WV (Technician)
CGP Development, Barbour County, WV (Designer)
Federal Bureau of Prisons - Hazelton, Preston County,
WV (Technician)

A.F. Wendling, Inc., Upshur County, WV (Designer)
Federal Bureau of Prisons FCI-Gilmer, Gilmer County,
WV (Designer)

First Central Bank-Buckhannon, Upshur County, WV
(Designer)

Deer Creek Development, Upshur County, WV
(Technician)

Auto Disposal Systems, Inc., Upshur County, WV
(Designer)

Stream Restoration and Streambank Protection

Parchment Valley Streambank Protection, Jackson
County, WV (Designer)

Laurel Lake Sediment Removal Project, Mingo County,
WV (Designer)

Fisher Landslide Stabilization, Jackson County, WV
(Technician)

Cairo Streambank Protection, Ritchie County, WV
(Designer)

Barker Creek Streambank Protection, Wyoming
County, WV (Designer)

Environmental

Glady Fork Mining Inc., Permit D-35-82, Upshur
County, WV (Designer)

Abandoned Mine Lands (AML) and Acid Mine Drainage (AMD)

Price Hill Complex, Raleigh County, WV (Technician)
*Technician responsible for detailing a box beam structure to
cap an abandoned vertical mine shaft on this AML project
for the West Virginia Department of Environmental
Protection.*

Old Bridgeport Hill Mine Drainage Project, Harrison
County, WV (Designer)

Flint Run Acid Mine Drainage Project, Jackson County,
OH (Designer)

) Lake Milton Investigation, Jackson County, OH
Danehart Acid Mine Drainage Project, Belmont County,
OH
Murray City AMD and Art Project, Hocking County,
OH
Nutter Tipple D-716 Band Forfeiture Project, Perry
County, OH

Surveying and Mapping

West Virginia Department of Environmental Protection
Mapping Project South, Southern WV (Technician)
Easy Storage VIII ALTA/ASTM Surveys, WV
Shagon Refuse Pile, Logan County, WV (Technician)

Planning and Mitigation

County Risk Assessments, WV and OH (Technician)
Source Water Assessment & Protection Program, WV

*Statement of Qualifications
Division of Engineering & Facilities
RFQ #DEFK11023*

SECTION V

Relevant Projects & Experience

Covidien (formerly Tyco Mallinckrodt) - Office Building Addition

Hobart, New York



Stantec's state-of-the-art design and fast track construction delivery method enabled quicker occupancy of the office addition, provided much needed office space for the expanding site support personnel, and strengthened the client's presence in the fast moving pharmaceutical contract manufacturing market.

Stantec delivered full service design and engineering services for the construction of a three-story, 22,400 square foot office building located on the campus of this pharmaceutical manufacturing company. Services were delivered in a fast track method with Stantec teaming with the construction manager in a design build approach.

With high exposure to personnel and guests arriving through the main entrance, the office building was designed to blend in with the existing adjacent building types. Allowing for efficient circulation between existing and new office space, the addition was designed to connect with the existing office areas. Stantec conducted commissioning services of the utility systems and physical spaces of the building. Stantec also assisted with the interior fit-up of the spaces with office partition and furniture systems; as well as a high volume record storage system allowing for more efficient organization and retrieval of critical data required in commissioning and validation of ongoing pharmaceutical manufacturing operations.

New restroom facilities were designed on each floor along with meeting and conference areas, and an executive conference room with modern telecommunication features.



Ben Venue Laboratories Inc.- Commissioning of Sterile Vial Manufacturing Facility, Phase V

Bedford, Ohio



Phase V of the Sterile Manufacturing Expansion project involved the design of Class 100/10,000 filling rooms, Class 100 freeze dryer load and unload areas, component prep sterilization, top feed formulation rooms, microbiology and QC laboratories, stability chambers, and file retention rooms.

The facility was designed with 20' 0" floor to floor height to align with the adjacent facility and to provide adequate space to route ductwork and utilities efficiently to the sterile core. Stantec provided the design for installation of nine (9) "Hull" freeze dryers, two (2) filling lines with depyrogenation tunnels, air locks, capping under unidirectional flow, component prep and sterile storage spaces. Stantec designed increased chiller and boiler capacity, and a new power service for the building.

New mechanical systems included pharmaceutical grade HVAC utilizing ULPA filtration, laboratory exhaust, chilled glycol, compressed air, nitrogen, steam, clean steam, and water for injection (WFI).

Stantec developed a Project Commissioning Plan and Commissioning Protocols for all building and facility systems including HVAC, HVAC utilities, WFI system, non-validated utilities, electrical distribution system and generators, and facility classified rooms. These commissioning documents were used to record the installation and perform checkout of the systems during start-up.

Stantec was responsible for the execution of the commissioning documents. We developed project functional commissioning protocols for HVAC and related utilities which integrated testing of the mechanical and controls (Siemens BMS) system installed as part of the manufacturing expansion. These functional commissioning protocols documented operational, alarm tests, and sequence of operation testing which served to ensure the successful building and facility equipment turnover to client user groups. Project goals were achieved within schedule and budget.



Pfizer (formerly Wyeth Pharmaceuticals) - Commissioning of Sterile Facility HVAC Expansion

Pearl River, New York



Stantec served as both the designer and as commissioning agent for the non-critical utilities at a 42,000 square foot sterile manufacturing facility.

Stantec prepared complete design documents including specifications and drawings. Our commissioning team that developed and populated commissioning protocols for non-critical utilities such as chilled water, hot water, steam, and condensate, were also on the design team who led the project to a high degree of efficiency in document preparation.

This project team structure allowed for input and suggestions by the commissioning members as it pertained to design specification drawings that were critical components required for the commissioning protocols. The process allowed for an accelerated schedule with lower costs to the client during the commissioning phase of the project.



In addition, Stantec provided personnel to execute the commissioning documents to verify that installation of the utilities met the design intent. Stantec tested the functionality of these utilities during commissioning to verify that they met design requirements and the client's operational parameters. We then developed commissioning final reports to document the commissioning effort for these utilities as part of the final turnover to client user groups.

Ben Venue Laboratories Inc. - Commissioning for Cyto/Geno Sterile Manufacturing Facility, Phase V Conversion

Bedford, Ohio

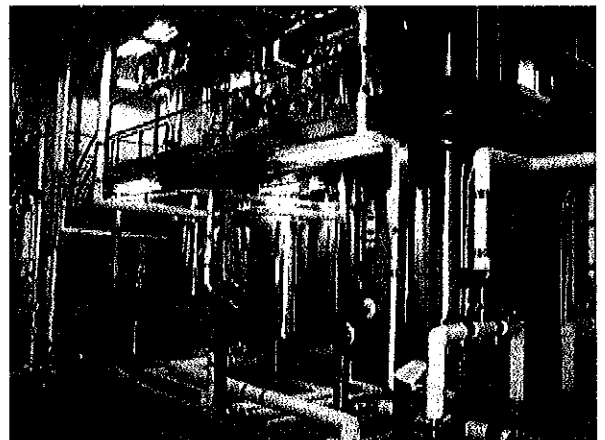


Stantec designed a dedicated Cyto/Geno Sterile Manufacturing Facility by renovating the existing 80,000 square foot Phase V building and expanding an additional 135,000 square feet to meet with project design requirements.

Stantec developed and executed Commissioning protocols for all building and facility systems including HVAC, HVAC utilities (chilled glycol, hot water, hot glycol), WFI system, nitrogen, non-validated utilities (steam/condensate, cooling towers, piping, compressed air), electrical distribution system and generators, and facility classified rooms. We were also responsible for the execution of the commissioning documents for the HVAC, HVAC utilities, WFI system, nitrogen, non-validated utilities, electrical distribution system and generators, and facility classified rooms.

The utility and HVAC commissioning documents were used to document the installation, field test reports, air and water balancing testing, and perform checkout of the systems during start-up. The Nitrogen commissioning protocol documented the installation of the piping system and NVP testing for each of the use points in the production and Micro Lab areas, and served as a leveraged protocol for the IQ of the system. The WFI distribution commissioning protocol documented the installation of the hygienic piping system and custom control system served as a leveraged protocol for the IQ of the system.

The executed commissioning protocols for the non-validated systems ensured that building utilities and equipment were installed per design and functional to meet their intended use and were turned over to client successfully. The executed commissioning protocols for the validated HVAC/classified rooms and critical utility systems ensured that they were installed per design and functional to meet their intended use and could be leveraged as part of the IQ of these systems by client's validation department.



Confidential Client - Commissioning Services for Biotech Facility

Confidential, Rhode Island



Stantec

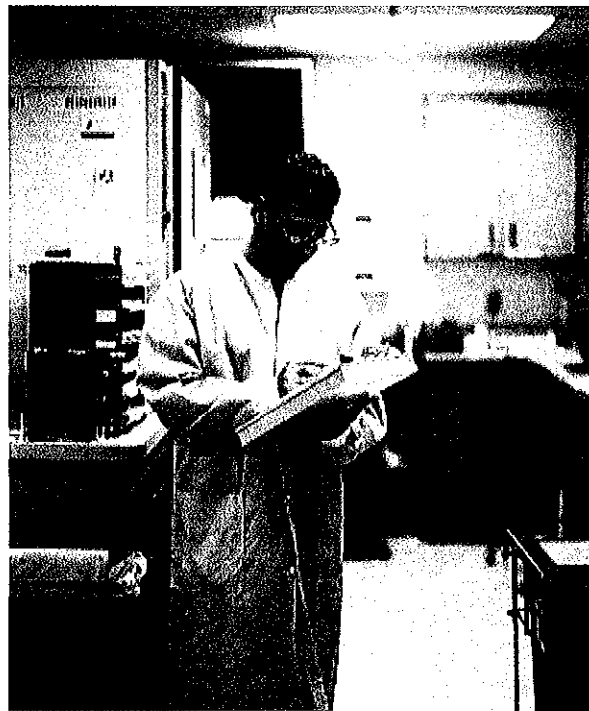
Stantec developed 115 commissioning documents for a new \$200M biotech manufacturing facility.

Built to manufacture injectable drugs used for treatment of rheumatoid arthritis, Stantec provided engineering services for two (2) programs to ensure compliance with the client's requirements, design drawings, and specifications.

Commissioning documents were developed for the Non-Critical Utilities, Fermentation, Buffer Compounding, Media Preparation, Purification Suites, and Process Utilities such as water for injection (WFI), clean in place (CIP), clean steam (CS), and clean steam condensate (CSC) systems.

The commissioning documents were developed utilizing process and instrumentation diagrams and design specifications. To meet an aggressive schedule, Stantec began creating the necessary documents using information as it was being developed. In addition, Stantec staffed the project with five (5) full-time engineers to work on-site during project execution.

The client received documentation of proper installation and functional testing and startup, which met design criteria for the executed commissioning documents for utility and process systems. This helped to provide functional facility of non-validated utility and facility to client user groups. In addition, validated systems for facility and process equipment were turned over to the client's validation team.



Department of Energy

Morgantown, West Virginia



Stantec

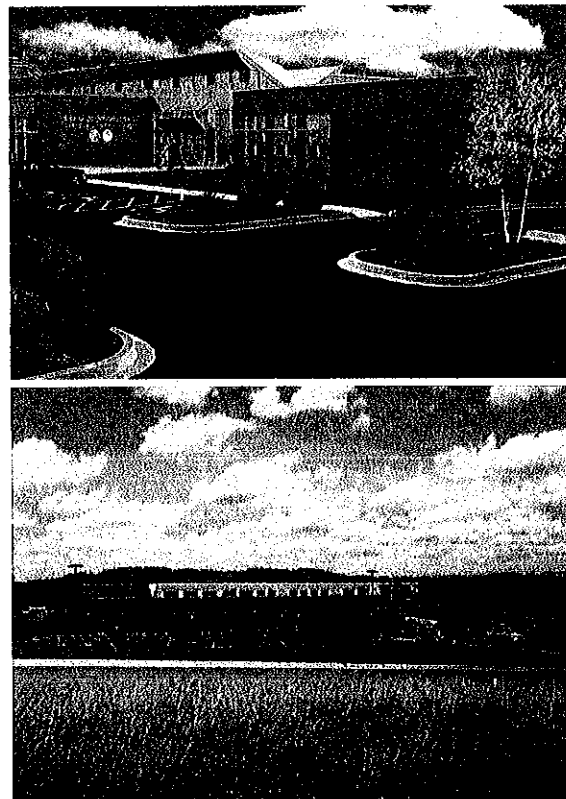
Stantec provided civil engineering and survey services, teamed with Paradigm Architecture, for the construction for the 60,000 square foot building on a 6-acre parcel on the West Virginia University Research Park.

This Government Services Agency (GSA) Project is being prepared for the Department of Energy and will consist of a LEED Silver certification, NARA compliant record storage and office building.

Project scope involved design of parking facilities and travelways, preparation of landscape plans, extension of all utility services to the new building and design of storm sewers. Stormwater Management and Best Management Practices (BMP) were incorporated through utilization of a proposed Stormwater Management Facility immediately downstream of the site. Site design was regulated by the requirements of the SFO, the City of Morgantown and the WVU Research Park, requiring significant coordination of competing agency standards and regulations.

Stantec provided final specifications for the civil scope of the project and worked closely with the architect and the client to deliver the project on time and on budget. Stantec provided permitting at the local and State level, phasing the work so that construction could begin while other permits were under review. This allowed the construction schedule to stay on track.

Currently Stantec is providing construction administration for the project.



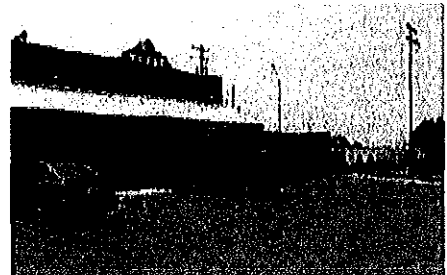
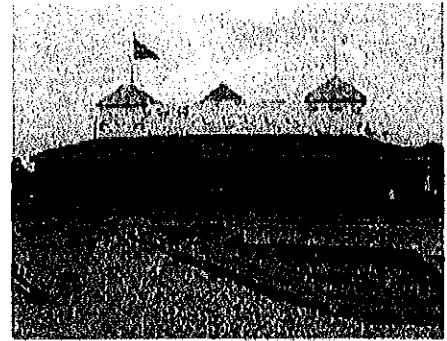
Texas Roadhouse, Parkersburg, WV



Stantec has provided planning, engineering, surveying and environmental services for this 2.5 acre commercial development.

Stantec prepared construction drawings for site development of this 2.5 acre site in Parkersburg, West Virginia. This site is located between Murdach Avenue and Ohio Avenue along a busy section of Parkersburg. The project consisted of the redevelopment of an existing mixed use commercial and residential property and included services from several disciplines.

The site development included razing several existing buildings and construction of the 42,000 square foot Texas Roadhouse restaurant. The project included 200 new parking spaces, 3 new entrances to public right-of-way, pedestrian access and redeveloped/improved traffic pattern to, from and within the site. The site included a detailed construction plans, site assessment for zoning and land use, traffic study, storm water management, utility assessment/design and NPDES Environmental Permitting. Additionally full survey services were performed that included field run topography/as-builts with ALTA/ACSM survey and construction stakeout.



Keyser McCool Fire Station Relocation
Keyser, West Virginia



Stantec provided for the West Virginia Division of Highways surveying, site design, permitting, and associated construction documents.

VanNostrand Architects provided the architectural, structural, plumbing, mechanical, and electrical design and associated construction documents for the new Fire Station building.



Ann Arbor – Municipal Services Center

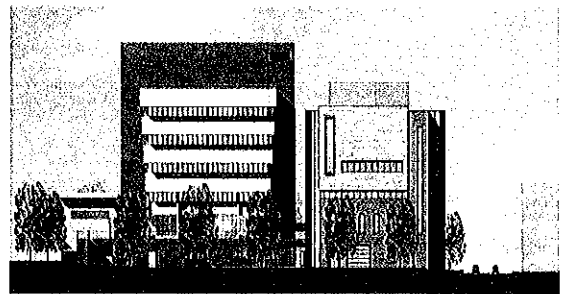
Ann Arbor, Michigan

This project includes a redevelopment of the current Guy C. Larcom Jr. Municipal Building site at Fifth Avenue/Huron Street. When complete, community members will have a convenient, accessible location for city services, still in the heart of downtown.

Stantec provided the civil services, including site plan submittal for the new \$47 M, 102,000 square-foot Ann Arbor Municipal Services Center. This 3-acre urban redevelopment site is utilizing natural excavation/stone infiltration as BMP for underground stormwater detention system with zero runoff.

The consideration of public process and input resulted in the recommendation to build the proposed 15th District Court and Police Facility on the east side of the current City Hall located at 100 N. Fifth Ave. The current Larcom building and the new 15th District Court and Police Facility would become the Ann Arbor Municipal Center. The project's first phase is to build a new building for the 15th District Court and Ann Arbor Police Department. The second phase will refurbish the basement and first floor of the current Larcom building. The basement will then accommodate new police locker rooms and meeting areas. The first floor will house the Customer Service Center, Planning and Development Services Unit, Community Services Administration and a revised lobby area.

The building is being designed to be consistent with benchmark green building practices. The architectural design team has evaluated and made recommendations on sustainable design strategies such as a "green" or vegetated roof/plaza design; energy efficient building envelope design; day lighting/building shading design; natural ventilation design; selection and specification of materials with recycled content; design and specification of energy saving building systems controls; environmental site planning and landscape design; and innovative storm water design to minimize runoff and meet requirements.



Statement of Qualifications
Division of Engineering & Facilities
RFQ #DEFK11023

SECTION VI

References

References

Mr. Gregg Smith, P.E.

Project Manager
West Virginia Department of Environmental Protection
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304-457-3219

Mr. Gene Saurborn

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Watershed Management Director
West Virginia Conservation Agency
201 Scott Avenue
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Mr. Darrell Allen, P.E.

Deputy State Highway Engineer
Construction & Development
West Virginia Division of Highways
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Charleston, WV 25305
304-558-6266

Mr. David McCoy,

Project Manager
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Philippi, WV 26416
304-457-3219

**Mr. Joe Pope
Pope Properties**

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Mr. Gregory L. Bailey, P. E.

Director, Engineering Division
West Virginia Division of Highways
Building Five – Room A317
1900 Kanawha Boulevard, East
Charleston, WV 25305

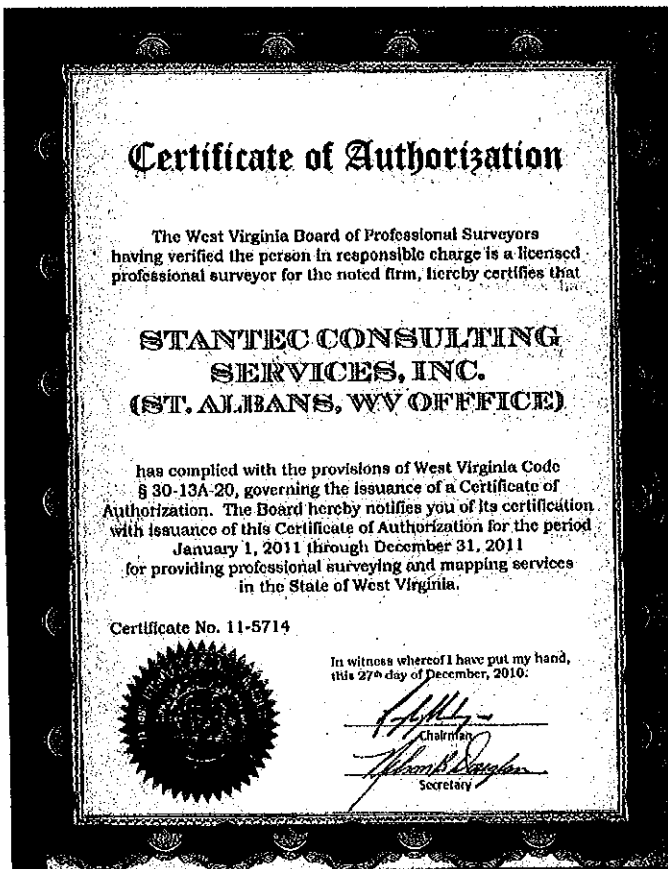
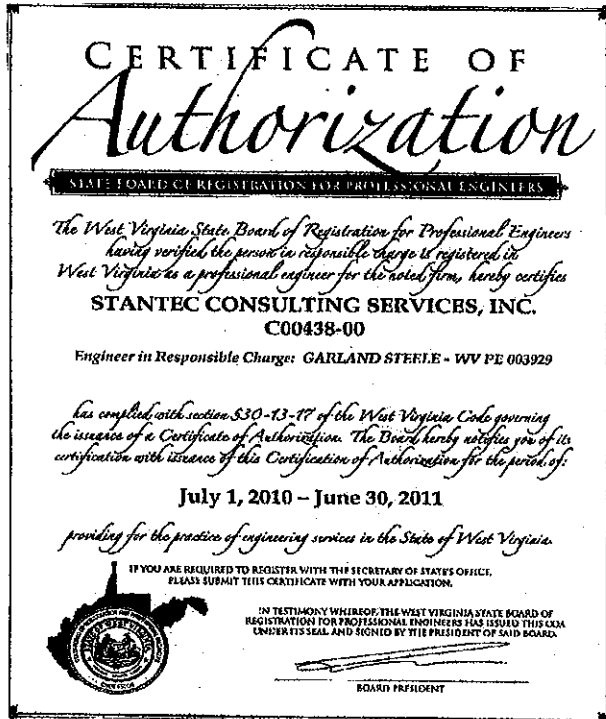
Ms. Jennifer Belcher

Construction Engineer – Dist. 10
West Virginia Division of Highways
270 Hardwood Lane
Princeton, WV 24740
304-487-5271

*Statement of Qualifications
Division of Engineering & Facilities
RFQ #DEFK11023*

SECTION VII

Certificates of Authorization



Statement of Qualifications
Division of Engineering & Facilities
RFQ #DEFK11023

SECTION VIII

Signed Addendum No. 1, No. 2
& Purchasing Affidavit



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

Request for Quotation


REQ NUMBER
DEFK11023

PAGE
2

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

RFQ COPY
TYPE NAME/ADDRESS HERE

DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION
1707 COONSKIN DRIVE
CHARLESTON, WV
25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS		
12/03/2010						
BID OPENING DATE: 01/12/2011		BID OPENING TIME: 01:30PM				
LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.						
VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.						
 SIGNATURE Stanfec Consulting COMPANY 1/18/11 DATE						
NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.						
REV. 09/21/2009 END OF ADDENDUM NO. 1						
001	1	JB	BOI	RESERVE CTRS IN ELKINS, FAIRMONT AND SPENCER-RIPLEY		
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE		TELEPHONE		DATE		
TITLE		FIRM		ADDRESS CHANGES TO BE NOTED ABOVE		

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



State of West Virginia
Department of Administration
Purchasing Division
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Charleston, WV 25305-0130

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25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS		
01/07/2011						
BID OPENING DATE: 01/19/2011		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UGP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS. VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p><i>Stanley W. Smith</i> SIGNATURE</p> <p>Stantec Consulting COMPANY</p> <p>11/18/11 DATE</p> <p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p> <p>REV. 09/21/2009</p> <p>END OF ADDENDUM NO. 2</p>						
0001	1	JB	EOI	3 RESERVE CTRS IN ELKINS, FAIRMONT AND SPENCER-RIPLEY		
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE		TELEPHONE		DATE		
TITLE		FAX		ADDRESS CHANGES TO BE NOTED ABOVE		

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

RFQ No. _____

STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT**

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

DEFINITIONS:

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

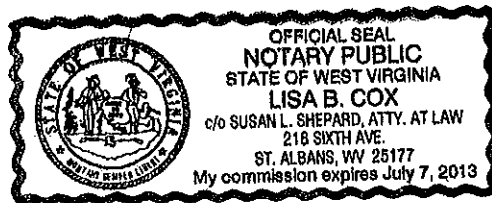
"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality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

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

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

WITNESS THE FOLLOWING SIGNATUREVendor's Name: Stantec ConsultingAuthorized Signature: [Signature] Date: 1-18-11State of West VirginiaCounty of Kanawha, to-wit:Taken, subscribed, and sworn to before me this 18 day of January, 2011.My Commission expires July 7, 2013, 20 .

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]

Purchasing Affidavit (Revised 12/16/09)